




# Michigan Department of Environment, Great Lakes, and Energy

Combined Sewer Overflow (CSO), Sanitary  
Sewer Overflow (SSO), and Retention  
Treatment Basin (RTB) Discharge  
2021 Annual Report

(January 1, 2021 -  
December 31, 2021)



## Act 451 Legislative Report Requirement

Section 324.3112c of Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), identifies activities to be undertaken by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) to make information related to known discharges of untreated or partially treated sewage from sewer systems to land or waters of the state available to the general public. This report provides a summary of releases reported to EGLE to meet these requirements.

### Information Regarding Annual Report Series

This annual report is part of a series of reports that consolidate annual release reporting data since July 2000. The reports can be accessed online from the [Library of Michigan](#):

- [CSO/SSO & RTB Discharge Annual Report Series](#)

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## A Message from the Director

Protecting Michigan's abundant sources of fresh water is key to the mission of EGLE and important to the citizens of the state. It is imperative that we continue to align efforts in protecting our water bodies for future generations. A primary focus in this effort is controlling and reducing combined sewer overflows (CSO) and sanitary sewer overflows (SSO) to help eliminate the public health threat from raw sewage discharges into Michigan waters.

The 2021 annual report contains data on reported discharges; describes the causes of these discharges; and discusses the working relationships with local units of government, citizens, and other stakeholders in addressing this multiyear, multibillion-dollar challenge.

In 2021 Michigan experienced above average rainfall throughout the state, and this is evident in calendar year 2021 data. This demonstrates the significant impact that annual precipitation totals have on discharges from sewerage systems. While rainfall in 2021 was above average, CSO controls implemented throughout the state continue to show success in keeping raw sewage from entering surface waters. The yearly totals of untreated SSOs continue to follow the precipitation trends.

Featured below are some of the calendar year achievements, which highlight the steady gains we are making toward our long-term goals.

- Public Act 53, signed by Governor Gretchen Whitmer in April of 2022, seeks to reduce the financial burden to communities and address infrastructure needs to protect public health and the environment. Act 53 provides \$4.7 billion of infrastructure funding, including \$1.9 billion to be administered by EGLE. Funding is included from three separate funds: American Rescue Plan Act, Infrastructure Investment and Jobs Act, and General Fund. This funding will provide much needed funding to help eliminate raw sewage discharges.
- EGLE awarded more than \$211 million in loans through the State Revolving Fund to local units of government for wastewater infrastructure projects.
- Large-scale sewer separation projects continue in the cities of Lansing, Dearborn, Dearborn Heights, St. Joseph, and Manistique. The city of Detroit is planning one large separation project for a sewer district draining to the Rouge River. The cities of Detroit and Dearborn and others continue work to provide retention treatment basins for control of untreated CSOs to the Detroit River and Rouge River Watershed in southeast Michigan.
- In 2013 EGLE began an initiative to promote programs aimed at pursuing and achieving sustainable wastewater infrastructure. Such programs are referred to as asset management programs. This effort involved issuing the National Pollutant Discharge Elimination System (NPDES) major permit with asset management program requirements and, separately, the Storm Water, Asset Management, and Wastewater (SAW) Program. To help communities prepare for this initiative, the SAW Program was created in January 2013 from legislation enacted to establish grants for asset management plan development, among other planning efforts, as well as state-funded loans to construct projects identified in asset management plans. To date, approximately \$450 million has been allocated to the SAW Program, and including asset management requirements in NPDES permits continues.

Thank you for your support in protecting the environment that is so important to the physical, social, cultural, and economic well-being of Michigan and its citizens.

Sincerely,



Liesl Eichler Clark, Director  
Michigan Department of Environment, Great Lakes, and Energy

# 2021 PROGRESS: COMBINED SEWER OVERFLOWS (CSO) and RETENTION TREATMENT BASINS

## Did We Make Progress in 2021?

Precipitation in Michigan in 2021 was above average. According to the National Oceanic and Atmospheric Administration (NOAA), the annual precipitation total for all of Michigan in 2021 was 33.52 inches. Based on NOAA data, the long-term average annual precipitation for Michigan (data from 1895-2021) is approximately 31.68 inches. The resulting impacts of above average precipitation on 2021 wet weather discharges are evident in 2021 numbers. With consideration for the above, and other relevant factors described below, we believe Michigan is making progress in controlling wet weather discharges.

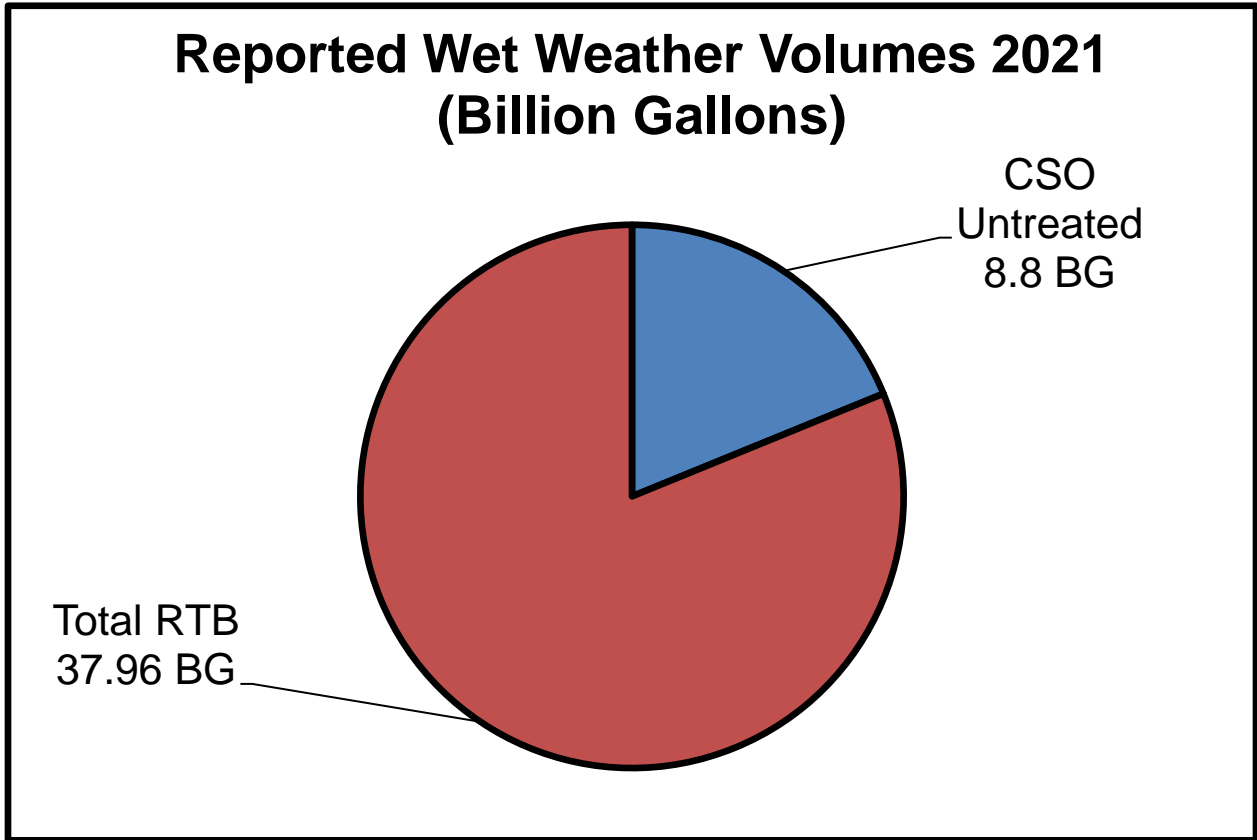
In addition to above average rainfall, Michigan was hit with numerous intense rain events that had an impact on 2021 wet weather discharges. In particular, about 5-7 inches of rain fell across Metro Detroit on June 25-26, 2021, causing widespread power outages and subsequent pump station failures, which helped contribute to significant flooding along roadways and in and around homes. As a result of this rain event alone, there were 3.27 billion gallons of CSO discharged and approximately 92 million gallons of SSO discharged. In 2021 the Governor initiated the Southeast Michigan Aging Infrastructure work group involving federal, state, and local partners. The goal of the work group was to identify projects to help protect public health and find additional funding sources to help address flooding.

Each year EGLE tracks elimination of uncontrolled CSO outfalls. As of the end of 2021, 100 uncontrolled CSO outfalls remain for correction, two fewer than 2020. Outfall elimination and/or treatment is not the sole indicator of progress in implementation of CSO control as extensive design and construction consistent with approved Long-Term CSO Control Programs (LTCP) is continuing in various areas of the state of Michigan. This includes ongoing sewer separation projects that are being conducted in the cities of Dearborn, Dearborn Heights, St. Joseph, and Manistique, among others; and large construction projects by the cities of Detroit, Dearborn, and others, to provide RTB or other controls for overflows to the Detroit River and Rouge River Watershed in Southeast Michigan. Continuing implementation, including design and construction of projects that occurred during calendar year 2021, will lead to elimination of additional CSOs in future years. Further examples of this are summarized in the '2021 CSO Progress Report' section below.

## What Data Does the Detailed CSO and RTB Report (Appendices E & F) Contain?

The data contained in the appended CSO and RTB Reports was reported (as required by law) to EGLE by the responsible parties. During the report period from January 1, 2021, through December 31, 2021, there were 383 events reported for a total volume of approximately 46.74 billion gallons. It is noteworthy that a significant portion of this total volume, approximately 37.96 billion gallons, represents treated discharge from RTBs or equivalent structures that, in addition to settling and skimming, have been disinfected to protect the public health in compliance with the water quality standards (WQS) for discharges containing human sewage (i.e., R 323.1062 of Part 4, Water Quality Standards [Part 4 Rules], promulgated pursuant to Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended).

Figure 1: Reported Wet-Weather Volumes from CSOs and RTBs (2021)



Combined Sewer Overflow (CSO) Summary Report

January 1, 2021 - December 31, 2021

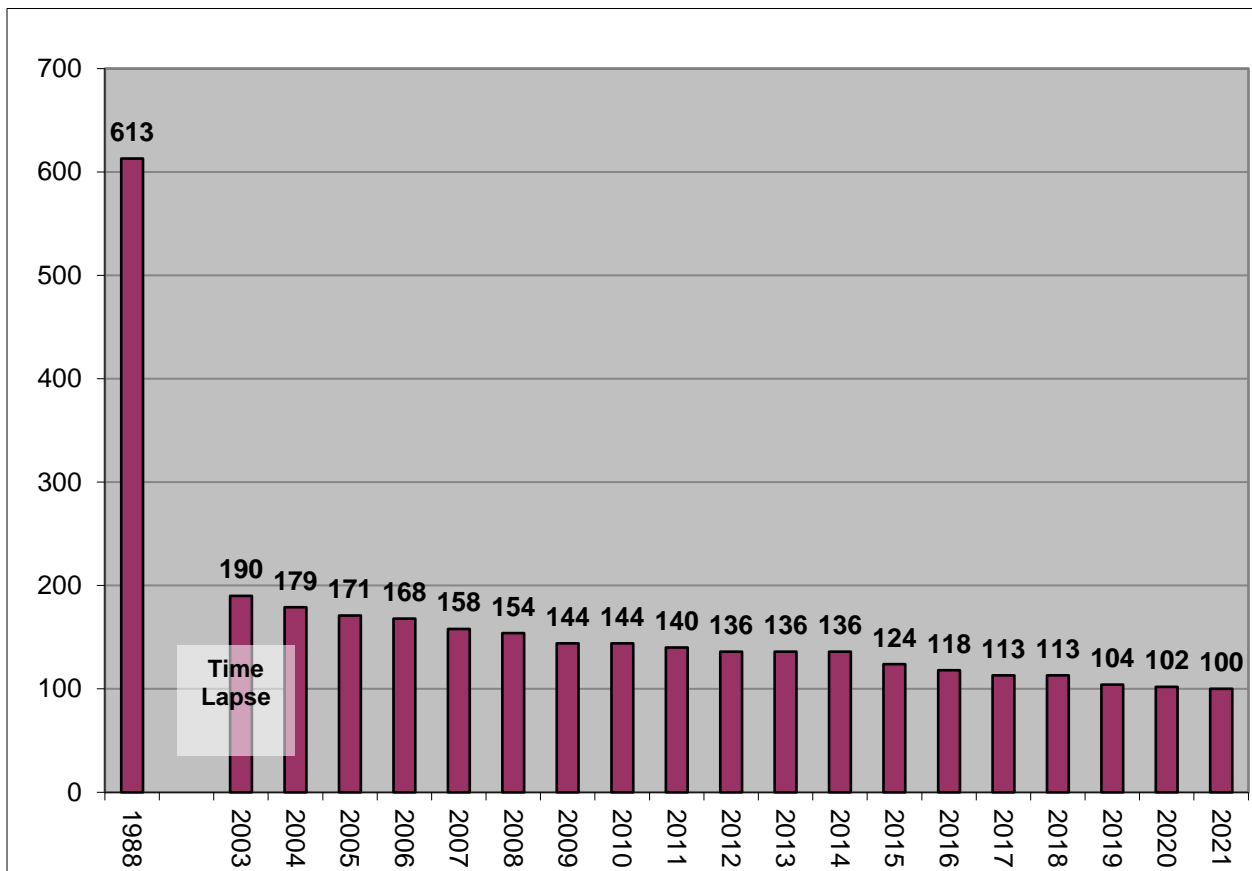
Entity Name	Untreated Volume (MG)	Treated Volume (MG)	Reported Events	County	Appendix Pages
Great Lakes Water Authority WRRF	5,908.1	30,340.4	41	Wayne	E-247, F-69
Dearborn CSO	1,495.1	809.9	49	Wayne	E-174, F-59
Lansing WWTP	376	4.0	31	Ingham	E-5, F-9
Wayne Co/Redford/Livonia CSO	314.1	22.1	13	Wayne	E-449, F-139
Southgate / Wyandotte CSO RTF	288.8	857.8	17	Wayne	E-393, F-121
Wayne Co/Inkster/Dearborn Hts CSO	231.4		56	Wayne	E-424
Wayne Co/Inkster CSO	105.5	132.5	17	Wayne	E-419, F-130
Wayne Co/Dearborn Heights CSO	57.5	84.4	15	Wayne	E-398, F-128
Redford Township CSO	21.8		13	Wayne	E-389
Inkster/Dearborn Heights CSO	6.1		9	Wayne	E-385
Port Huron WWTP	0.69		23	St Clair	E-165
St. Joseph CSO	0.009		7	Berrien	E-1
George W Kuhn Dr Dist CSO RTB		3,101.3	11	Oakland	F-23
Milk River CSO RTB		779.1	12	Wayne	F-112
Martin RTB		405.7	10	Macomb	F-13
Saginaw WWTP		396.4	9	Saginaw	F-37
Chapaton RTB		353.8	7	Macomb	F-10
Bloomfield Village CSO RTB		128.4	6	Oakland	F-20
River Rouge CSO RTB		106.6	7	Wayne	F-118
Saginaw Township WWTP		101.7	8	Saginaw	F-34
Oakland Co - Acacia Park CSO RTB		94.1	8	Oakland	F-29
East Lansing WRRF		84.5	3	Ingham	F-7
Birmingham CSO RTB		79.4	3	Oakland	F-18
North Houghton Co W&SA CSO		43.4	3	Houghton	F-5
Bay City WWTP		31.7	2	Bay	F-1
Iron Mountain / Kingsford WWTP		2.1	3	Dickinson	F-3
<b>TOTAL</b>	<b>8,805.0</b>	<b>37,959.2</b>	<b>383</b>		

## How Does 2021 Compare to Previous Years?

This report provides trend data through three measures: number of uncontrolled CSO outfalls eliminated per year, number of overflow events per year, and volume of discharge per year.

Michigan communities have eliminated more than 83 percent of the 613 uncontrolled CSO outfalls that existed in 1988, and the remaining 17 percent are scheduled for elimination through implementation of LTCPs. On average, since 2003, there have been approximately five CSO outfalls eliminated or redirected to RTBs per year (Figure 2).

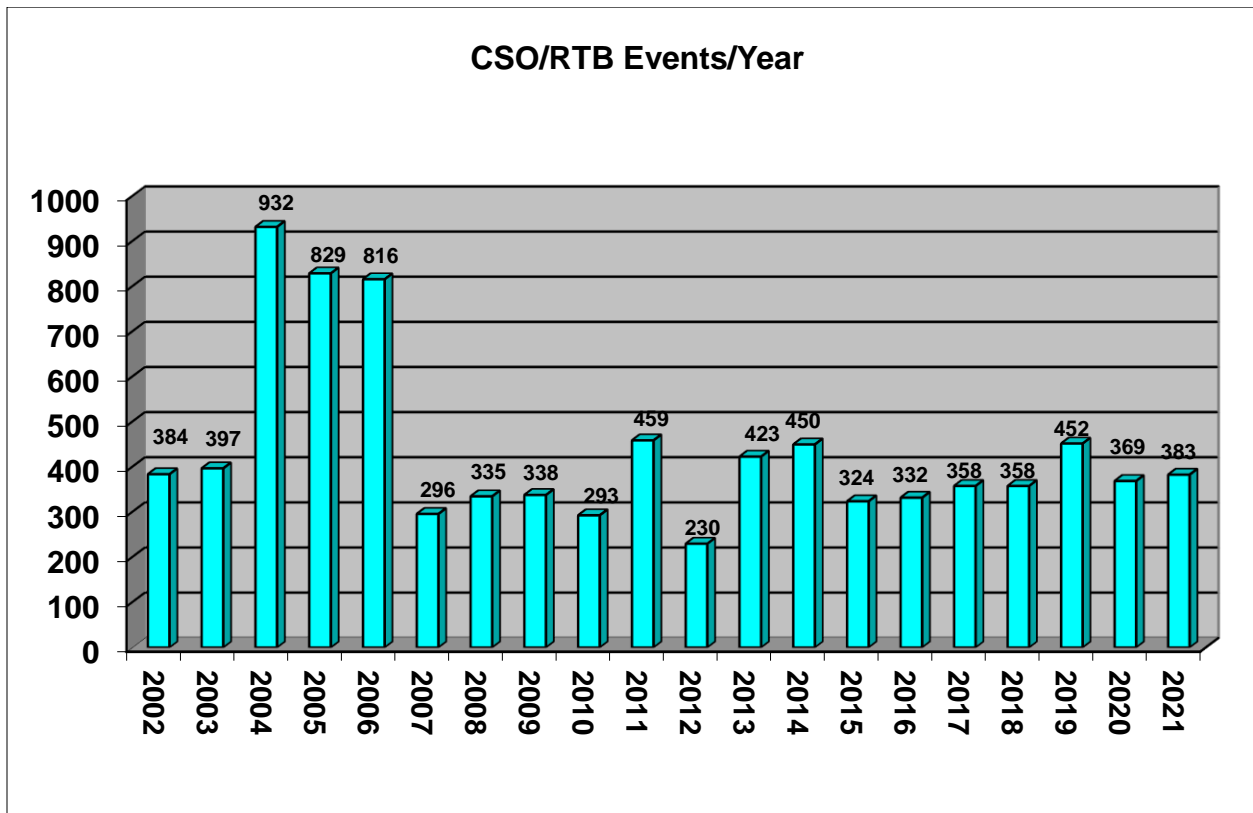
**Figure 2: Number of Uncontrolled CSO Outfalls by Year**



In general, with respect to the number of uncontrolled CSO overflow and RTB discharge events, an event refers to the storm that caused the discharge, even if it is from multiple outfalls (so outfalls are grouped for the purposes of counting an event). This inconsistent reporting methodology was the basis for the relatively high number of events in 2004 to 2006. This reporting methodology was made consistent in the 2007 annual report. In 2021 there were 383 overflow events.

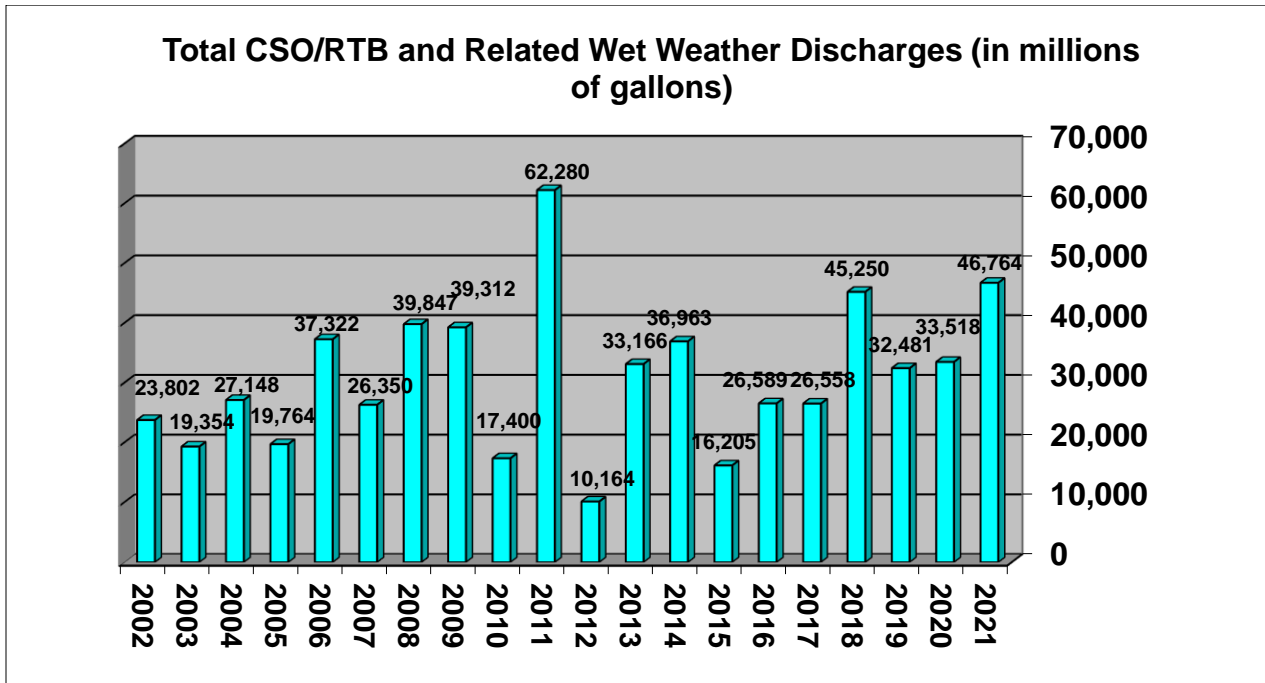


**Figure 3: Number of Reported CSO and RTB Discharge Events/Year  
(Years 2004 – 2006 Explained Above)**

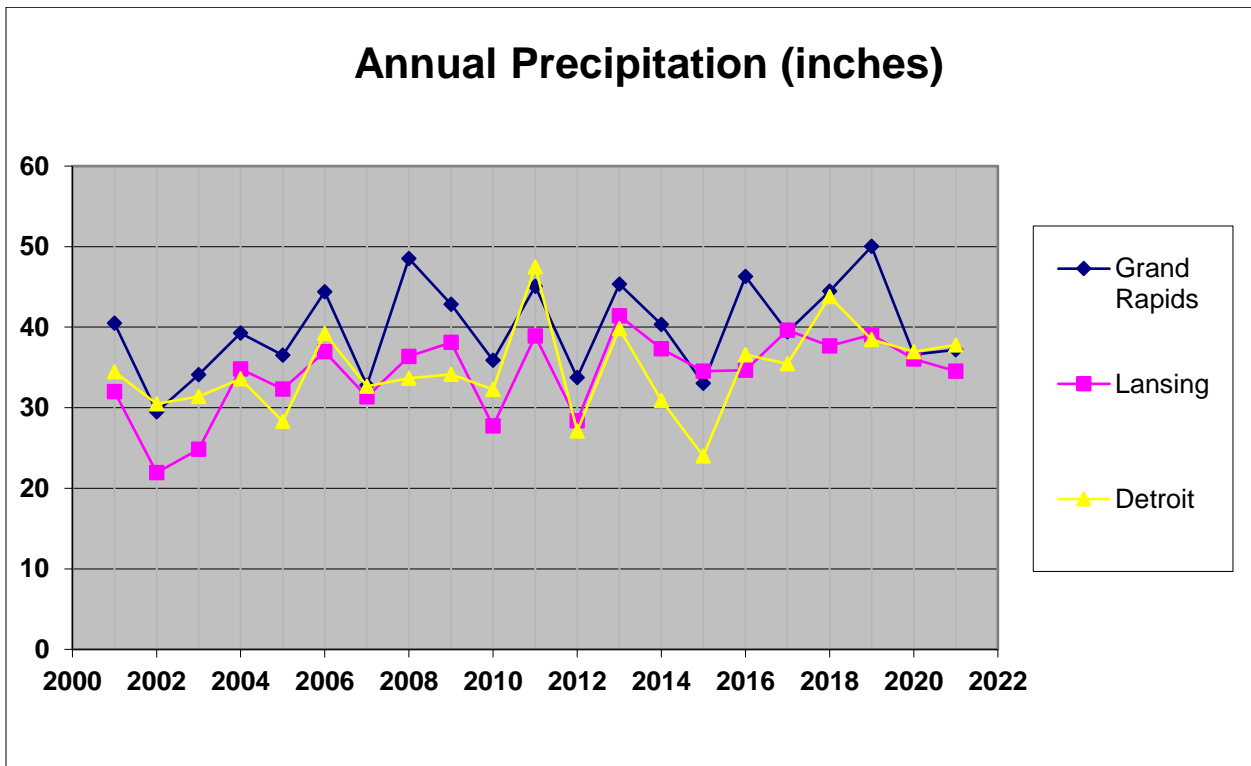


Total volume is also an indicator of success with respect to CSO control, because even a negligible volume of overflow triggers an “event” to be registered consistent with statute. Annual precipitation level variances directly affect the total overflow volume. As with previous years, the total CSO and RTB discharge volume for calendar year 2021 (46,764 MG, Figure 4) reflects the annual precipitation rates (Figure 5).

**Figure 4: Total CSO, RTB, and Related Wet-Weather Discharges Reported Volume (MG/Year)**

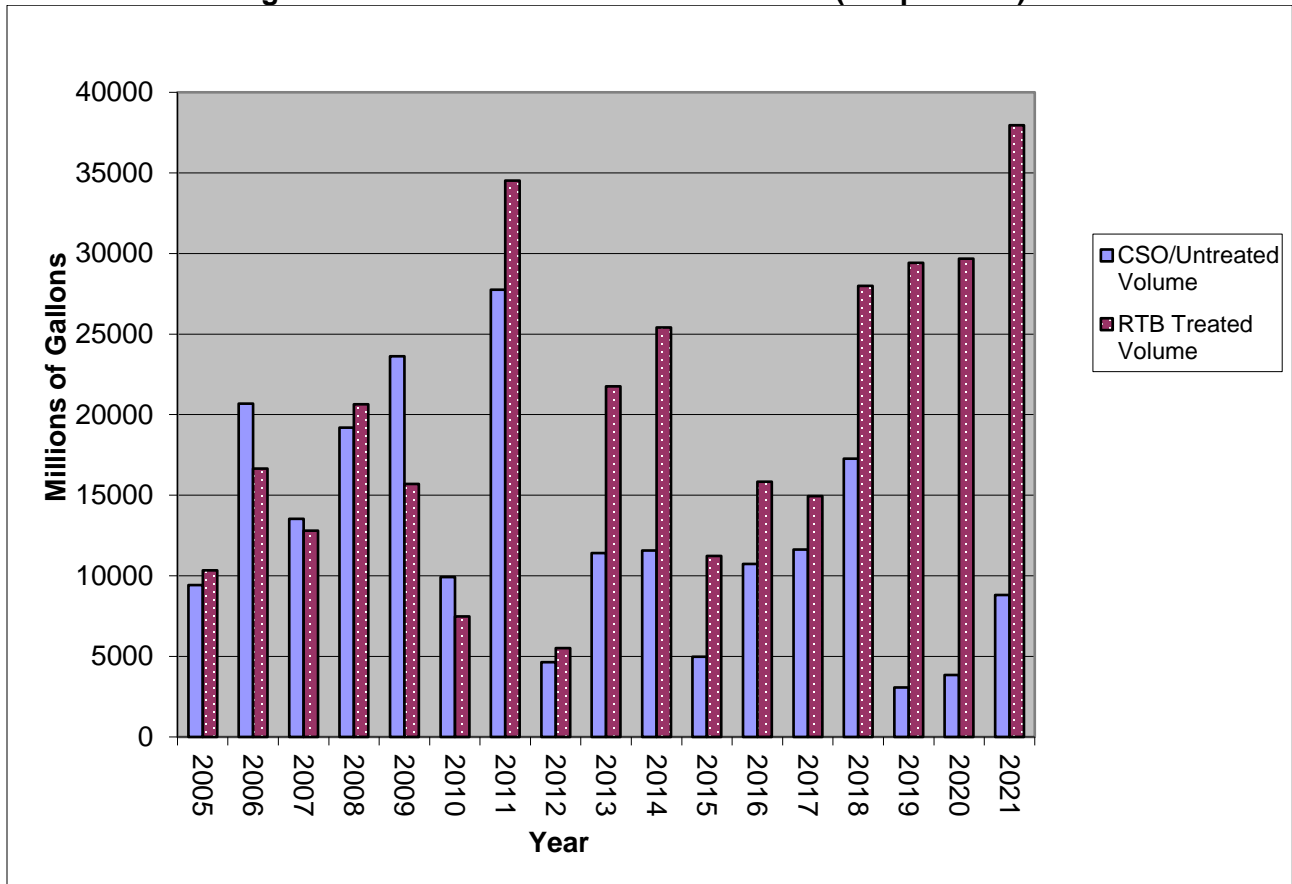


**Figure 5: Annual Precipitation (Inches) for Various Michigan Cities/Year**



More important, in terms of volume trends, is the volume of CSO discharges versus the volume of discharge from RTBs. This is because the goal of the LTCP is to provide adequate treatment of CSO overflows to meet WQS through treatment at an RTB. When comparing annual volume of CSO discharges to the volume of treated RTB, statewide progress is evident (Figure 6). It is expected that as LTCPs are implemented, the component of the total overflow volume, that is the treated RTB volume, will continue to increase in the coming years.

**Figure 6: CSO/Untreated and RTB Volume (MG per Year)**



## 2021 CSO Progress Report

The summaries below illustrate some statewide projects aimed at controlling CSO discharges. These examples further demonstrate the ongoing progress that communities are making toward achieving the goals of the state and federal CSO Programs.

- Great Lakes Water Authority (GLWA)/Detroit Water and Sewerage Department (DWSD)

The city of Detroit has made significant progress implementing the LTCP that was first submitted in 1996. Revisions to the LTCP plans and scheduled projects were made and included in the 2003 NPDES Permit, the 2007 NPDES Permit, and the 2013 NPDES Permit. To date, well over \$1.4 billion has been spent on the control of CSO discharges from Detroit outfalls.

Detroit's LTCP has focused on: (1) bringing as much wet-weather flow as is feasible to the wastewater treatment plant (WWTP) for treatment; flows receive secondary treatment up to the capacity of the secondary units, and primary treatment for higher flows up to the capacity of the primary facilities; (2) using in-system storage in the combined collection system; and (3) storing/treating priority CSOs in the collection system using RTBs and screening and disinfection facilities.

Significant progress to-date includes completion of:

- Additional facilities at the WWTP that have increased the capacity to treat combined wet-weather flows to primary treatment levels as required by the NPDES Permit.
- Five CSO Storage/Treatment Facilities along the Rouge River.
- Four CSO Storage/Treatment Facilities along the Detroit River peak.
- Six in-system storage gates at CSO outfalls along the Rouge River.
- Thirteen in-system storage devices within the collection system.
- Rehabilitation of pump stations and regulators along the Detroit River.
- Completion of additional control facilities or elimination of outfalls for five CSOs in the lower Rouge River.
- Completion of the Rouge River Outfall (RRO) Disinfection Project.

Since the completion of the RRO Disinfection Project in April 2019, all excess wet-weather flow from the Water Resource Recovery Facility (WRRF) is fully disinfected and dechlorinated. Additionally, with the completion of the RRO Disinfection Project, GLWA/DWSD has completed its core CSO correction program. It is estimated that the completed CSO controls will provide treatment for about 95 percent of the annual wet-weather volume generated in Detroit and around 90 percent or more of the previously discharged untreated CSO volume from the city of Detroit.

The NPDES Permit includes Green Infrastructure (GI) requirements in both the Upper Rouge area of the Rouge District and the near east-side area of the Central District. The DWSD is required to spend an average of \$2 million per year during the life of this permit on GI. Additionally, requirements to build grey infrastructure have been removed from the current permit and replaced with an evaluation of potential GI projects and the associated flow reductions that may be achieved. There is potential for extensive GI implementation based on the large amounts of vacant land in this area.

- City of Port Huron

In July 2021 the city completed separation of the last CSO outfall and has successfully completed their Long-Term CSO Control Program. The city has eliminated all 19 CSO outfalls that existed in the city. The city has also completed its project performance certification (PPC) and successfully demonstrated that the city has the capacity to transport and treat the flow generated by EGLE's remedial design standard.

- City of Lansing

An Administrative Consent Order (ACO) was entered on December 19, 2019, with integrated plan requirements to correct CSO and SSO discharges. The city is currently conducting various sewer separation and sewer rehabilitation projects. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under an adaptive management approach.

- City of Wakefield

The city has completed Phase IV of the sewer upgrade projects, and the reissued NPDES Permit requires a PPC to demonstrate transmission capacity within flows created at the 25-year, 24-hour event. The city was awarded \$0.613 million for wastewater asset management planning to further study potential inflow and infiltration sources. Approximately \$21 million in grants and loans from the United States Department of Agriculture Rural Development (\$15 million), the United States Army Corps of Engineers (\$6 million), the Michigan Economic Development Corporation (\$0.2 million), and user fees from the citizens of Wakefield were used to eliminate the CSOs to Planter Creek in 2015. After the CSOs were eliminated, *E. coli* geometric mean concentrations declined substantially (year 2015 study) in Planter Creek from 338 to 39 colony-forming units/100 milliliter (mL) (88 percent) at Wertanen Road and 258 to 148 CFUs/100 mL (43 percent) at Thomaston Road. Planter Creek now meets the state's partial body contact recreation criteria of 1,000 CFUs/100 mL but does not yet meet the full body contact criteria of 300 CFUs/100 mL.

- City of Grand Rapids

The city has completed all construction activities necessary to complete their LTCP. This includes elimination of all untreated CSO outfalls. The city is conducting a verification PPC as required by their NPDES permit, which will confirm that the construction activities associated with the LTCP have met state and federal requirements for CSO separation. The city continues to proactively maintain the sewer system to minimize discharges resulting from pipe blockages, etc.

- City of Dearborn

In the late 1990s the city of Dearborn began implementing a CSO project with a construction of an underground tunnel. The execution of the project was unsuccessful because of a groundwater condition. Since then, a study was performed to embark on a joint tunnel project with Detroit, which did not come to fruition.

CSO control with construction of a treatment shaft (sinking caisson) concept was implemented between 2004 and 2010. The construction contracts for the six treatment shafts were bid out. The construction at three of the treatment shafts was successfully completed. Two treatment shaft locations have failed due to construction issues and have since been backfilled and abandoned. Another treatment shaft has issues with groundwater, and an alternate design is in progress. The city of Dearborn has spent approximately \$270 million thus far for the caissons projects and approximately \$30 million for the failed tunnel project.

In 2009 the city of Dearborn made a decision to forego the treatment shaft concept and aggressively embarked on sewer separation projects. Since 2009, the city has constructed more than 258,963 feet of new storm and sanitary sewers to separate wastewater from storm water at a cost of approximately \$162.6 million.

- Milk River Retention Treatment Basin

An ACO was agreed to by EGLE and the Wayne County Drain Commissioner and issued on February 7, 2014, covering upgrades to the Milk River RTB. These include upgrades to the automated flushing/dewatering system, the river recirculation system, aeration system, pumping systems, disinfection system, and other necessary repairs. The construction began in 2016 at a cost of more than \$30 million.

- Martin Retention Treatment Basin

The reissued NPDES permit issued in September 2019 reclassifies this RTB as treating wet-weather flow from a combined system. When this RTB was first constructed, it was classified as a facility that stored and treated flow from a system that was regulated as combined. In the mid-2000s, EGLE evaluated the percentage of the tributary area that was served by separated sanitary sewers and combined sewers. The level of separate sanitary sewers moved past a level that EGLE then saw as significant (90 percent) and made a policy decision to then reclassify this facility as a treatment facility serving a separate sanitary system. Over the last decade, EGLE has reevaluated this decision that proved to not provide a greater degree of treatment from the RTB, nor encourage the permittee to further separate their sewers. EGLE has decided to reclassify this RTB as a facility that stores and treats combined sewage, as it was originally designed.

## 2021 PROGRESS: SANITARY SEWER OVERFLOWS

### Did We Make Progress in 2021?

During calendar year 2021, low interest loan funding was awarded for many projects through the SRF to address system reliability and SSOs. Examples of projects aimed at controlling SSOs are summarized in the '2021 SSO Progress Report' section below.

### What Data Does the Detailed SSO Report (Appendix G) Contain?

The data contained in the attached SSO Detail Report (Appendix G) was reported (as required by law) to EGLE by the responsible entities. During the report period from January 1, 2021, through December 31, 2021, there were 294 events reported, for a total SSO volume of approximately 293.48 MG (see Figures 8 and 9). SSOs for the past year are summarized and listed by volume in the following table.

Sanitary Sewer Overflow (SSO) Summary Report

January 1, 2021 - December 31, 2021 (by Volume)

Entity Name	Total Volume (MG)	Reported Events	County	Appendix Page #
<b>Lincoln Park CM</b>	74.92	5	Wayne	G-228
<b>Rouge Valley Sewage Disposal System CM</b>	65.08	6	Wayne	G-234
<b>Dearborn CSO</b>	47.28	10	Wayne	G-222
<b>Evergreen-Farmington CM (Oakland Co)</b>	36.92	5	Oakland	G-160
<b>Lansing WWTP</b>	20.86	2	Ingham	G-66
<b>East Lansing WRRF</b>	11.82	2	Ingham	G-64
<b>Lansing WWTP</b>	7.38	3	Oakland	G-167
<b>Flint CM</b>	6.11	14	Genesee	G-41
<b>Grosse Pointe Shores CM</b>	3.75	2	Wayne	G-228
<b>Manistee CM</b>	3.10	3	Manistee	G-134
<b>Melvindale CM</b>	2.45	2	Wayne	G-233
<b>Warren WWTP</b>	2.42	2	Macomb	G-132
<b>Center Line CM</b>	2.38	1	Macomb	G-130
<b>Westland CM</b>	1.96	1	Wayne	G-245
<b>City of Troy</b>	1.10	2	Oakland	G-158
<b>George W Kuhn Dr Dist CSO RTB</b>	1	1	Oakland	G-170
<b>Crockery MHP</b>	0.82	3	Ottawa	G-190
<b>Rockwood WWTP</b>	0.74	1	Wayne	G-150
<b>Howell WWTP</b>	0.51	1	Livingston	G-36
<b>Allen Park CM</b>	0.48	1	Wayne	G-220
<b>West Bloomfield Township CM</b>	0.30	1	Oakland	G-187
<b>Grand Ledge WWTP</b>	0.24	1	Eaton	G-37
<b>Lakewood WW Auth CM</b>	0.16	3	Ionia	G-79
<b>Hillsdale CM</b>	0.15	1	Hillsdale	G-59
<b>Bangor WWSL</b>	0.12	3	Van Buren	G-206
<b>Chassell Twp WWSL</b>	0.12	1	Houghton	G-60
<b>Durand WWTP</b>	0.10	1	Shiawassee	G-202
<b>Sault Ste Marie WWTP</b>	0.10	1	Chippewa	G-31
<b>Sylvan Township CM</b>	0.097	4	Washtenaw	G-217
<b>Western Townships Utilities Authority</b>	0.096	3	Wayne	G-243
<b>Niles WWTP</b>	0.095	1	Berrien	G-20
<b>Goodrich CM</b>	0.068	1	Genesee	G-51
<b>Novi CM</b>	0.060	1	Oakland	G-173
<b>West Bay Co Regional WWTP</b>	0.055	2	Bay	G-11
<b>Adrian WWTP</b>	0.051	2	Lenawee	G-115
<b>Flint WWTP</b>	0.050	3	Genesee	G-49
<b>Monroe Metro WWTP</b>	0.05	1	Monroe	G-149
<b>Mesick WWTP</b>	0.045	1	Wexford	G-251



Entity Name	Total Volume (MG)	Reported Events	County	Appendix Page #
Livingston County Drain Commission	0.0405	3	Livingston	G-127
KI Sawyer WWTP-Marquette Co	0.04	1	Marquette	G-138
DeWitt Township CM	0.03784	2	Clinton	G-35
Riverview Estates MHC	0.03	3	Kent	G-105
Howell CM	0.021	1	Livingston	G-125
Frankenmuth WWTP	0.02	1	Saginaw	G-199
Owosso/Mid Shiawassee Co WWTP	0.02	2	Shiawassee	G-203
Harbor Springs Area Sewage	0.0151	2	Emmet	G-38
Alpine Township CM	0.013	2	Kent	G-96
Gull Lake Sewer & Water Authority CM	0.012	1	Kalamazoo	G-84
Ann Arbor CM	0.01127	7	Washtenaw	G-210
Portage CM	0.011125	4	Kalamazoo	G-89
Traverse City CM	0.010045	5	Grand Traverse	G-56
Port Austin WWTP	0.01	1	Huron	G-63
South Haven Area Water Sewer Authority WWTP	0.01	1	Van Buren	G-208
Hamburg Township CM	0.00911	6	Livingston	G-122
Chikaming Township CM	0.00704	1	Berrien	G-16
Constantine CM	0.006	1	St Joseph	G-205
Manistee Township CM	0.006	1	Manistee	G-136
Staybridge Suites Auburn Hills	0.006	1	Oakland	G-185
Big Creek/Mentor Utility Auth	0.0054	1	Oscoda	G-189
Southwest Barry Co SWA	0.0053	2	Barry	G-7
Franklin CM	0.00513	1	Oakland	G-169
Billings Twp WWTP	0.005	1	Gladwin	G-52
Cadillac CM	0.005	1	Wexford	G-246
Meijer Store 30	0.005	1	Jackson	G-81
Cass Co-Lakes Area SA WWTP	0.00451	2	Cass	G-26
Pontiac CM	0.004315	13	Oakland	G-176
Portage-Baseline Lakes WWTP	0.00405	3	Washtenaw	G-214
Lake Mitchell Sewer Authority (former Wexford Co DPW) CM	0.00394	4	Wexford	G-247
Muskegon Co WWMS Metro WWTP	0.0035	2	Muskegon	G-151
Midland WWTP	0.0034	2	Midland	G-145
Kalamazoo CM	0.00314	8	Kalamazoo	G-85
Buena Vista Twp WWTP	0.003	1	Saginaw	G-198
Flint Charter Township CM	0.003	1	Genesee	G-40
Black Bear Farms WWTP	0.0025	1	Grand Traverse	G-53
Moline WWTP	0.0025	1	Allegan	G-252
Westrock BOD Battle Creek	0.0025	2	Calhoun	G-24
Grand Rapids CM	0.002288	8	Kent	G-99
Dow Silicones Corporation-Midland Site	0.00201	4	Midland	G-142

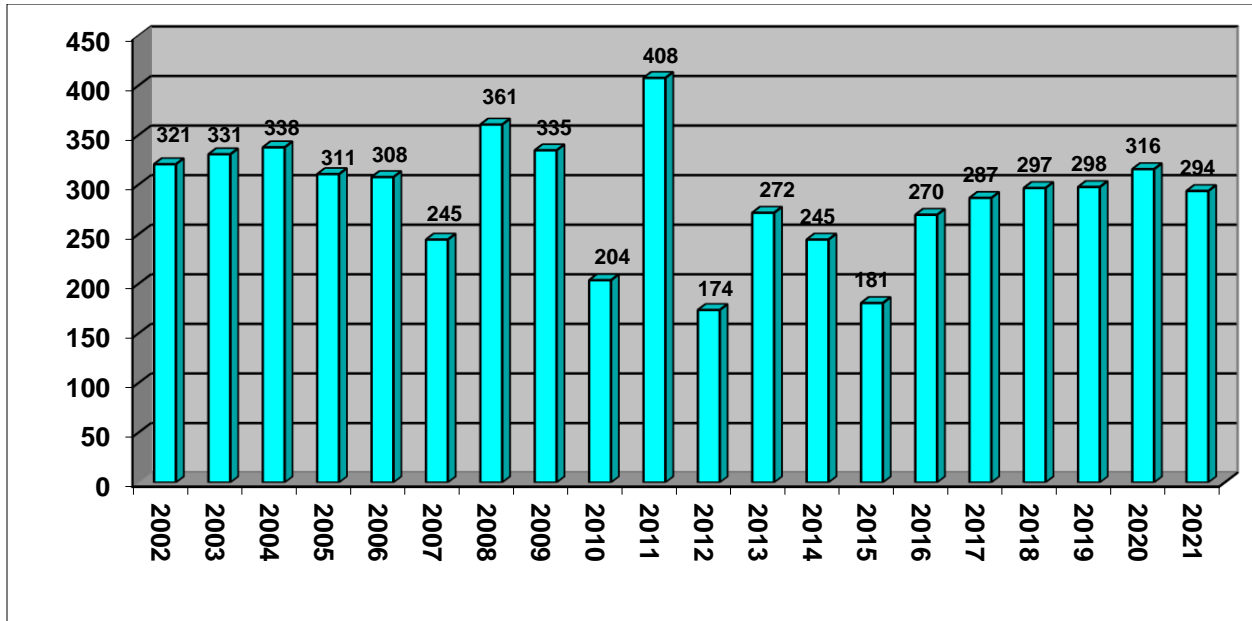
Entity Name	Total Volume (MG)	Reported Events	County	Appendix Page #
Cassopolis CM	0.002	1	Cass	G-28
Saline WWTP	0.002	1	Washtenaw	G-216
Waverly Shores Village MHC	0.002	2	Ottawa	G-196
Sunny Brook RV Resort	0.001902	1	Van Buren	G-209
Battle Creek CM	0.00182	4	Calhoun	G-22
Croswell WWTP	0.00175	1	Sanilac	G-200
Commerce Township CM	0.001375	3	Oakland	G-157
Clark Twp WWSL	0.0012	1	Mackinac	G-129
Dow Silicones Corporation-Auburn	0.00115	3	Bay	G-9
Brighton Twp WWTP	0.0011	3	Livingston	G-117
Bad Axe WWTP	0.00075	1	Huron	G-61
Brighton Village MHP CM	0.0007	1	Livingston	G-119
Rives Township CM	0.00056	1	Jackson	G-83
Bellaire WWTP	0.0005	1	Antrim	G-5
Benton Charter Township CM	0.0005	1	Berrien	G-13
Bloomfield Township CM	0.0005	1	Oakland	G-155
Northport Pointe WWTP	0.0005	1	Leelanau	G-113
Northport/Leelanau Township Utilities Authority CM	0.0005	1	Leelanau	G-114
Springrove MHC	0.0005	1	Oakland	G-184
Sunrise Senior Living	0.00048	1	Oakland	G-186
Holland CM	0.0004	1	Ottawa	G-193
Napoleon Township CM	0.0004	1	Jackson	G-82
Alpine Meadows MHC	0.000315	4	Kent	G-94
St Joseph CM	0.0003	1	Berrien	G-21
Windsor Woods Village	0.0003	1	Allegan	G-2
Marquette CM	0.00028	3	Marquette	G-139
Genoa Twp-Lake Edgewood WWTP	0.00025	1	Livingston	G-121
Hesperia WWTP	0.00025	1	Newaygo	G-153
Benton Harbor CM	0.00024	1	Berrien	G-14
East Bay Township CM	0.0002	1	Grand Traverse	G-54
Harrison WWTP	0.0002	1	Clare	G-34
Oxford Township CM	0.0002	1	Oakland	G-175
Orchard Lake Village CM	0.00017	2	Oakland	G-174
Carlton Township CM	0.00016	1	Barry	G-6
GRSD Sewer Authority WRRF	0.00015	2	Berrien	G-19
DECO-Fermi-2 Pit	0.00015	1	Monroe	G-148
Leland Township CM	0.00014	2	Leelanau	G-111
Ada Township CM	0.0001	1	Kent	G-92
Alpena Township CM	0.0001	1	Alpena	G-4
Belle-Ann Falls	0.0001	1	Oakland	G-154

Entity Name	Total Volume (MG)	Reported Events	County	Appendix Page #
Byron Center Village MHC	0.0001	1	Kent	G-97
Clare WWTP	0.0001	1	Clare	G-33
Creekside Estates MHC	0.0001	1	Wayne	G-221
Ebels Family Center	0.0001	1	Missaukee	G-147
GM-CPC-Romulus Engine	0.0001	1	Wayne	G-227
Kinross Twp WWTP	0.0001	1	Chippewa	G-30
Lake Orion CM	0.0001	1	Oakland	G-172
Metamora WWSL	0.0001	1	Lapeer	G-110
New Haven CM	0.0001	1	Macomb	G-131
Richmond Twp WWTP-Marquette Co	0.0001	1	Marquette	G-141
Woodlands MHP	0.0001	1	Oakland	G-188
Caledonia Township CM-Kent Co	0.000085	1	Kent	G-98
Deerfield Township CM	0.00008	1	Livingston	G-120
Pinebrook Village MHC	0.00007	2	Kent	G-104
Port Sanilac WWSL	0.000055	1	Sanilac	G-201
Algoma Township CM	0.00005	1	Kent	G-93
Alpena CM	0.00005	2	Alpena	G-3
Grand Haven-Spring Lake WWTP	0.00005	1	Ottawa	G-192
Grattan Township CM	0.00005	1	Kent	G-103
Green Lake Township - Bush Road Community Sewer System	0.00005	1	Grand Traverse	G-55
Highland Hills of Highland	0.00005	1	Oakland	G-171
MDNR-Port Crescent SP WWSL	0.00005	1	Huron	G-62
Presidential Estates	0.00005	1	Ottawa	G-194
Wyoming CM	0.00003	1	Kent	G-108
Chocolay Township CM	0.00002	1	Marquette	G-137
Yates Township CM	0.00002	1	Lake	G-109
Bridgman CM	0.00001	1	Berrien	G-15
River Haven MHP WWTP	0.000005	1	Ottawa	G-195
Southwood Village MHC	0.000005	1	Kent	G-107
Rochester University	0.000002	1	Oakland	G-183
Dowagiac CM	0.000001	1	Cass	G-29
<b>Total SSO</b>	<b>293.48</b>	<b>294</b>		

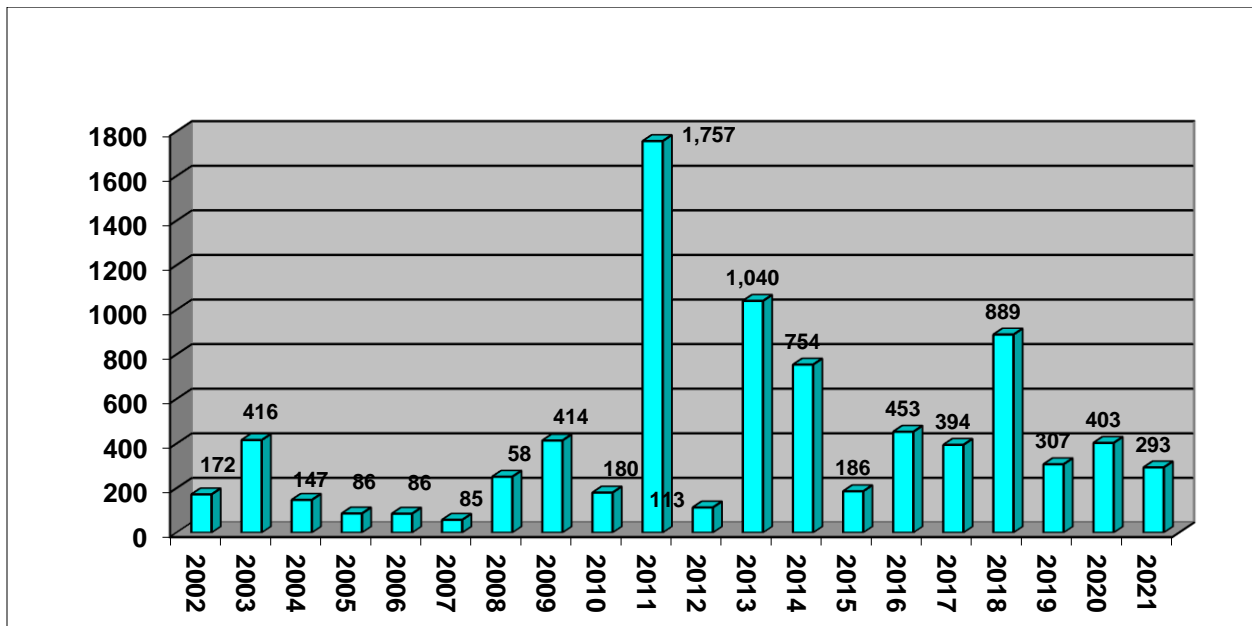
## How Does 2021 Compare to Previous Years?

A summary of the number of annual SSO events and the annual discharge volume for the past seventeen years are represented below.

**Figure 7: Number of SSO Events/Year**



**Figure 8: SSO Total Volume/Year (in Millions of Gallons)**



As discussed in the CSO/RTB section, above, above average precipitation totals in 2021 resulted in a marked increase in discharges compared to the relatively dry years, such as 2015.

EGLE continues to review SSO events to determine where corrective actions are needed to ensure that sewer systems are able to handle a 25-year, 24-hour storm event without having SSOs, in accordance with EGLE's [SSO Policy Statement and Clarification Statement](#).

### 2021 SSO Progress Report

The summaries, below, illustrate some statewide projects aimed at controlling SSO discharges. These examples further demonstrate the ongoing progress that communities are making toward achieving the goals of the state SSO Program and complying with associated state and federal laws.

- Macomb Interceptor Drain (MID)

In December 2016 a section of the 11-foot diameter interceptor of the MID collapsed in the city of Fraser. The collapse severely restricted the capacity of the interceptor, resulting in an SSO to prevent sewage from backing up in basements.

The MID entered into an ACO with EGLE on September 18, 2017. The ACO required the MID to conduct a detailed inspection of the collection system, which has been completed. As a result of the inspection results, the MID is currently rehabilitating over 12,000 feet of interceptor at an estimated cost of \$40.5 million.

- City of Warren

The city of Warren has a history of SSOs and blending at the WWTP. The city has installed relief sewers to increase the capacity of the collection system. The NPDES Permit requires the city to eliminate SSOs and stop blending at the WWTP, in accordance with the SSO Policy, by October 1, 2023.

The city has started construction of upgrades to the 9 Mile pump station, additional relief sewers, and a wet-weather detention basin, at an estimated cost of \$81 million, to meet EGLE's SSO Policy.

- Gogebic-Iron Wastewater Authority (GIWA) WWTP

This facility has worked to eliminate overflows to the Montreal River and bypassing of the secondary treatment process. The GIWA allocates their design capacity of 3.4 million gallons to the contributing municipalities of Ironwood, Michigan (2.46 million gallons per day [MGD]); Hurley, Wisconsin (0.624 MGD); and Ironwood Township, Michigan (0.316 MGD). During the 10-year period from 2001-2010, the annual average flow conveyed to the GIWA WWTP was reduced by 25 percent. Since 2006, the city of Hurley replaced 25,000 feet of sanitary sewer and installed 6,000 feet of sewer lining. During years 2011 and 2012, Ironwood Township completed sewer upgrades with two projects at a cost of \$1.5 million and \$0.3 million, respectively. The city of Ironwood sewer upgrade projects 1-3 since 2010 included over \$10 million in improvements. The NPDES Permit requires a PPC to be completed by October 1, 2024, to demonstrate conformance with EGLE's SSO Policy. The city of Ironwood was awarded \$0.726 million and Ironwood Township received \$0.279 million in SAW funding to

evaluate sewer integrity and prioritize upgrades through an asset management program. The city of Ironwood received funding from the United States Department of Agriculture Rural Development (\$1.685 million) for sewer upgrade 4.

- Clinton Township

The township has been working to eliminate SSOs from seven overflow pumps in two sewer districts since the early 2000s. They have completed all projects associated with the ACO (infiltration and inflow reduction projects, including sewer lining, manhole rehabilitation, and footing drain disconnection pilot projects) and have conducted a PPC to determine if they meet the EGLE SSO Policy. The township spent over \$30 million to date to eliminate SSOs.

- City of Centerline

The city of Centerline in Macomb County reported SSOs in their sewerage system starting in 2000. On August 24, 2001, Administrative Consent Order ACO-SW01-006 was entered for the city to eliminate their SSOs at various locations and also to remain within their total peak flow contract capacity with the GLWA. The city first invested \$9.14 million to eliminate SSOs and convert their 24" gravity outlet sewer to a force main. In 2015 the city installed an electric valve actuator at the SSO gate to further reduce SSO volumes to the Lorraine Drain. The city did not certify the project, and they are currently working on a Corrective Action Program to further reduce flow to meet EGLE's SSO Policy.

This Report was Prepared by:



## **Water Resources Division**

**Internet Address:**  
[Michigan.gov/EGLE](http://Michigan.gov/EGLE)

**Liesl Eichler Clark, Director**

Special thanks to the following technical staff and managers that contribute annually towards the development of this report: Phil Argiroff, Dennis Ryan, and the many staff in field operations that review the data and populate the database throughout the year.

Report Coordinator: Dan Beauchamp

**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (EXCERPT)**  
**Act 451 of 1994**

**324.3112a Discharge of untreated sewage from sewer system; notification; duties of municipality; legal action by state not limited; penalties and fines; definitions.**

Sec. 3112a.

(1) Except for sewer systems described in subsection (8), if untreated sewage or partially treated sewage is directly or indirectly discharged from a sewer system onto land or into the waters of the state, the person responsible for the sewer system shall immediately, but not more than 24 hours after the discharge begins, notify the department; local health departments as defined in section 1105 of the public health code, 1978 PA 368, MCL 333.1105; a daily newspaper of general circulation in the county or counties in which a municipality notified pursuant to subsection (4) is located; and a daily newspaper of general circulation in the county in which the discharge occurred or is occurring of all of the following:

(a) Promptly after the discharge starts, by telephone or in another manner required by the department, that the discharge is occurring.

(b) At the conclusion of the discharge, in writing or in another manner required by the department, all of the following:

(i) The volume and quality of the discharge as measured pursuant to procedures and analytical methods approved by the department.

(ii) The reason for the discharge.

(iii) The waters or land area, or both, receiving the discharge.

(iv) The time the discharge began and ended as measured pursuant to procedures approved by the department.

(v) Verification of the person's compliance status with the requirements of its national pollutant discharge elimination system permit or groundwater discharge permit and applicable state and federal statutes, rules, and orders.

(2) Upon being notified of a discharge under subsection (1), the department shall promptly post the notification on its website.

(3) Each time a discharge to surface waters occurs under subsection (1), the person responsible for the sewer system shall test the affected waters for E. coli to assess the risk to the public health as a result of the discharge and shall provide the test results to the affected local county health departments and to the department. The testing shall be done at locations specified by each affected local county health department but shall not exceed 10 tests for each separate discharge event. The requirement for this testing may be waived by the affected local county health department if the affected local county health department determines that such testing is not needed to assess the risk to the public health as a result of the discharge event.

(4) A person responsible for a sewer system that may discharge untreated sewage or partially treated sewage into the waters of the state shall annually contact each municipality whose jurisdiction contains waters that may be affected by the discharge. If those contacted municipalities wish to be notified in the same manner as provided in subsection (1), the person responsible for the sewer system shall provide that notification.

(5) A person who is responsible for a discharge of untreated sewage or partially treated sewage from a sewer system into the waters of the state shall comply with the requirements of its



national pollutant discharge elimination system permit or groundwater discharge permit and applicable state and federal statutes, rules, and orders.

(6) This section does not authorize the discharge of untreated sewage or partially treated sewage into the waters of the state or limit the state from bringing legal action as otherwise authorized by this part.

(7) The penalties and fines provided for in section 3115 apply to a violation of this section.

(8) For sewer systems that discharge to the groundwater via a subsurface disposal system, that do not have a groundwater discharge permit issued by the department, and the discharge of untreated sewage or partially treated sewage is not to surface waters, the person responsible for the sewer system shall notify the local health department in accordance with subsection (1)(a) and (b), but the requirements of subsections (2), (3), (4), and (5) do not apply.

(9) As used in this section:

(a) "Partially treated sewage" means any sewage, sewage and storm water, or sewage and wastewater, from domestic or industrial sources that meets 1 or more of the following:

(i) Is not treated to national secondary treatment standards for wastewater or that is treated to a level less than that required by the person's national pollutant discharge elimination system permit.

(ii) Is treated to a level less than that required by the person's groundwater discharge permit.

(iii) Is found on the ground surface.

(b) "Sewer system" means a public or privately owned sewer system designed and used to convey or treat sanitary sewage or sanitary sewage and storm water. Sewer system does not include an on-site wastewater treatment system serving 1 residential unit or duplex.

(c) "Surface water" means all of the following, but does not include drainage ways and ponds used solely for wastewater conveyance, treatment, or control:

(i) The Great Lakes and their connecting waters.

(ii) Inland lakes.

(iii) Rivers.

(iv) Streams.

(v) Impoundments.

(vi) Open drains.

(vii) Other surface bodies of water.

**History:** 1994, Act 451, Eff. Mar. 30, 1995 ;-- Am. 1998, Act 3, Imd. Eff. Jan. 30, 1998 ;-- Am. 2000, Act 286, Imd. Eff. July 10, 2000 ;-- Am. 2004, Act 72, Imd. Eff. Apr. 20, 2004

**Popular Name:** Act 451

**324.3112c Discharges of untreated or partially treated sewage from sewer systems; list of occurrences; “partially treated sewage” and “sewer system” defined.**

Sec. 3112c.

(1) The department shall compile and maintain a list of occurrences of discharges of untreated or partially treated sewage from sewer systems onto land or into the waters of the state that have been reported to the department or are otherwise known to the department. This list shall be made available on the department's website on an ongoing basis. In addition, the department shall annually publish this list and make it available to the general public. The list shall include all of the following:

- (a) The entity responsible for the discharge.
- (b) The waters or land area, or both, receiving the discharge.
- (c) The volume and quality of the discharge.
- (d) The time the discharge began and ended.
- (e) A description of the actions the department has taken to address the discharge.
- (f) Whether the entity responsible for the discharge is subject to a schedule of compliance approved by the department.
- (g) Any other information that the department considers relevant.

(2) As used in this section:

- (a) “Partially treated sewage” means any sewage, sewage and storm water, or sewage and wastewater, from domestic or industrial sources that is not treated to national secondary treatment standards for wastewater or that is treated to a level less than that required by a national pollutant discharge elimination system permit.
- (b) “Sewer system” means a sewer system designed and used to convey sanitary sewage or storm water, or both.

**History:** Add. 2000, Act 287, Imd. Eff. July 10, 2000

**Popular Name:** Act 451

## BACKGROUND INFORMATION ON DISCHARGES

### Introduction

Raw and inadequately treated sewage discharged from municipal and privately-owned sewer systems is an environmental and public health problem that has plagued Michigan for decades. The State of Michigan took a more aggressive approach to address these discharges in 1988 by initiating an aggressive Combined Sewer Overflow (CSO) control strategy and, in the year 2000, by adopting a Sanitary Sewer Overflow (SSO) control strategy. Detailed information about the Michigan CSO control strategy and its history and progress can be found in the [2007 CSO/SSO Annual Report](#). Regarding SSO control, local units of government were called upon to help protect Michigan's waters as part of the 2000 initiative. With significant stakeholder participation, EGLE adopted the [SSO Policy Statement](#) in 2002, which establishes criteria for SSO correction. This report is one step in addressing these types of discharges for the people of Michigan. Specifically, it defines and publicizes the extent of this statewide problem and the actions being taken to control these discharges.

#### What Is the Difference between a Sanitary Sewer System and a Combined Sewer System?

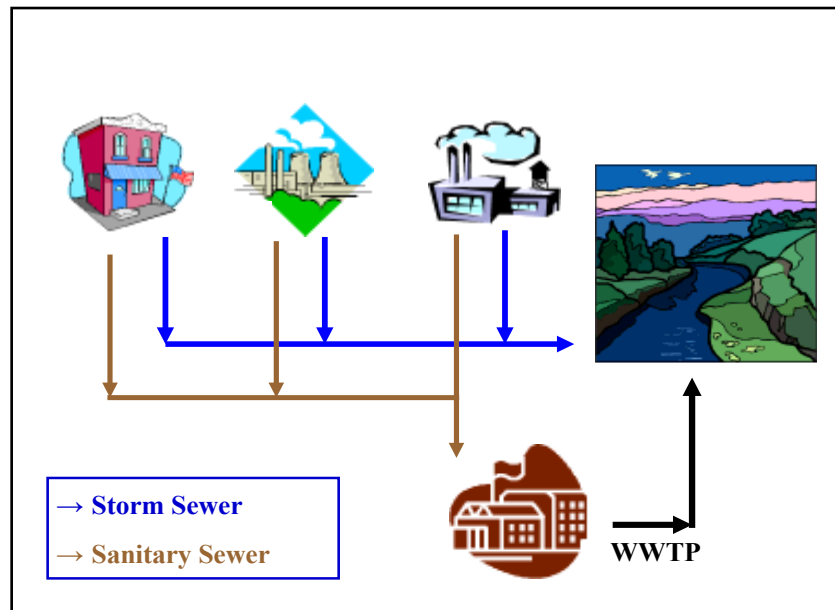
In order to understand the difference between a CSO and an SSO, it is necessary to understand some basics of sewer system design. Separate sanitary sewers are designed to carry only sanitary sewage to a wastewater treatment plant (WWTP) (see Figure 1); storm water is directed to a nearby river, lake, or stream via storm sewers. In urbanized areas, efforts are underway to address pollution issues related to discharges from separate storm water systems. For more information related to the Municipal Separate Storm Sewer System (MS4) Permit Program, please visit: [Michigan.gov/EGLEStormWater](http://Michigan.gov/EGLEStormWater). Combined sewer systems are generally older sewer systems designed to convey both sewage and storm water (combined in one pipe) to a WWTP (see Figure 2). Generally, combined sewer systems were designed with overflow points in the sewer system and/or at the WWTP. This is because the system cannot handle the entire volume of water that is associated with some larger storm water events.

The corrective action to address wet weather-related SSOs is to eliminate the discharge up to a specified rain event by drying up the system, installing retention facilities, and/or to increase transportation and/or treatment capacity of the sewerage system. The corrective action to address CSOs is to separate the sewer system and/or to install an adequate capture and treatment system. As part of final corrective action programs, many combined sewer systems have installed or are installing Retention Treatment Basins (RTB), which are designed to capture the combined sewage and rainwater that would otherwise flow to surface waters untreated. These basins hold the combined sewage long enough to provide treatment and disinfection before the combined sewage is discharged into waters of the state during periods of intense precipitation (see Figure 3). These basins also capture sewer system releases during smaller rainfall events and return all the captured sewage and rainwater back to the system to be routed to the WWTP for treatment.

In general, what are SSOs, CSOs, and RTB discharges?

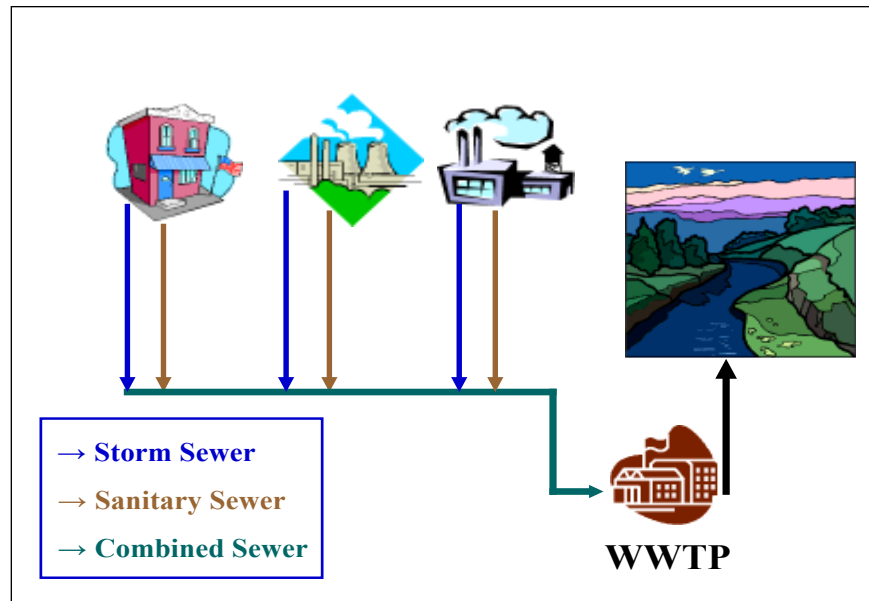
SSOs are releases of raw sewage from separate sanitary sewer collection systems, which are designed to carry sanitary sewage but not storm water. CSOs (untreated discharge) are releases of raw sewage from older combined sewer collection systems designed to carry both sanitary sewage and storm water. Both CSO and SSO events can discharge untreated human and industrial waste, toxic materials, debris, and disease-causing organisms onto the ground or into our rivers, lakes, or streams. RTB discharges are treated discharges from facilities installed to collect and treat combined sewer system overflows. RTBs are designed to meet wastewater discharge permit requirements and be protective of water quality and public health.

**Figure 1: Separate Sewer System**



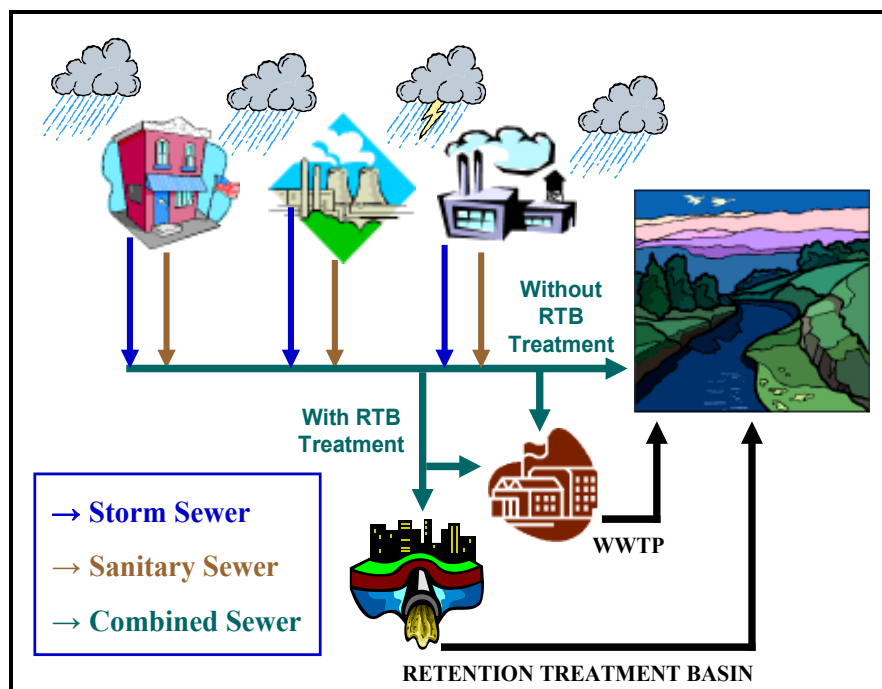
WWTP = wastewater treatment plant

**Figure 2: Combined Sewer System—Dry Weather Conditions**



WWTP = wastewater treatment plant

**Figure 3: Combined Sewer System—Wet Weather Conditions**



RTB = retention treatment basin

WWTP = wastewater treatment plant

### What Laws Require Reporting of Releases?

Section 324.3112(a) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), requires responsible parties to report releases of untreated or partially treated sanitary sewage. Section 324.3112(c) of the NREPA requires an annual reporting of these releases. This section was added in July 2000. EGLE has produced this report as a means of providing the public with information regarding known discharges of untreated and partially treated sewage to land and waters of the state.

Although discharges from RTBs are required to be reported as a “partially treated” discharge, these discharges are designed to be fully compliant with permit requirements and protect water quality and public health.

Prior to 2004, only releases from municipalities were required to be reported. However, in 2004, Section 324.3112a was amended to include reporting of treated and partially treated sewage releases from private systems (system serving more than a duplex).

Additionally, on January 8, 2018, the United States Environmental Protection Agency published the final [Public Notification Requirements](#) for Combined Sewer Overflows to the Great Lakes. The new rule requires all CSO permittees to develop a notification plan, to provide public notification of CSOs within four hours of becoming aware of the discharge, to submit supplemental notification within seven days, and to provide an annual report with information about all CSOs.

### Who Will Let Me Know Whether the Water Is Safe for Swimming, Fishing, or Canoeing?

When raw or partially treated sewage is released into a river, lake, or stream, the responsible party is required to notify the local health department and others as specified in the law. The local health department may sample, or may require the responsible party to sample, the water body that received the sewage discharge. If the discharge poses a public health threat, then the local health department is responsible for issuing a public health advisory to notify people of the dangers associated with river or lake water contact.

Additionally, the local health department gathers information related to health aspects of water pollution for public and semi-public beaches (this activity may not be specifically related to untreated or partially treated releases). They issue swimming advisories and track reported illnesses related to waterborne organisms. Some local health departments provide citizens with information and resources to do their own beach monitoring.

More information about water quality monitoring related to health aspects of water pollution, including a list of local health departments with phone numbers can be found through the State of Michigan Beach Monitoring Web site at: [www.egle.state.mi.us/beach](http://www.egle.state.mi.us/beach). Phone books and the Michigan Department of Health and Human Services' [Local Health Department Maps](#) web page also contain local health department contact information. When searching the phone book, look for either the county health department or the district health department for your area.

### How Does Intergovernmental Cooperation Help Fund Infrastructure Improvements?

The Clean Water State Revolving Fund (CWSRF or SRF) and the Strategic Water Quality Initiatives Fund (SWQIF) remain the primary sources of financial assistance for local units of government facing wastewater infrastructure investment needs. The SRF was created in 1989 and capitalized with federal grant funds and a required state match. The SRF has tendered over \$5 billion in loan assistance to Michigan communities for the construction, expansion, and upgrade of publicly owned sewers and wastewater treatment facilities.

The passage of the \$1 billion Great Lakes Water Quality Bond referendum in November 2002 (Proposal 2) provides additional capital into the SRF. That vote also created the SWQIF, another revolving loan fund that provides low interest loan assistance for wastewater system improvements that remain in private ownership. The portion of Proposal 2 monies dedicated to the SWQIF is available for projects that remove clear water from sewer leads on private property (often a component of successful SSO projects) or for projects to upgrade or replace failing on-site wastewater systems. A portion of these funds (\$80 million) was used to provide grants to assist loan applicants with completing the planning and design of their projects. The revolving funds will operate in perpetuity and result in significant cost savings for system owners and users compared to open market financing alternatives, while remaining the primary source of funding for water quality protection efforts in the state.

Passage of Proposal 2 also resulted in funding for the Storm Water, Asset Management, and Wastewater (SAW) Program. The SAW Program was created in January 2013 from legislation enacted to establish grants for asset management plan development, storm water plan development, testing and demonstration of innovative technology, sewage collection and treatment plan development, and state-funded loans to construct projects identified in the asset management plans and implementation of successful innovative technology. A total of \$450 million is allocated to provide grants and loans under SAW. A grant recipient must proceed with a project for which grant funding is provided within three years of grant award. For the asset management grant, this means significant progress as determined by EGLE toward achieving the funding structure to implement the asset management program. SAW funding will aid in planning and constructing projects that will further protect Michigan's valuable water resources. In December 2013, the SAW grant and loan applications were received, and in April 2014 it was announced that over 92 recipients throughout the State were selected for a total of over \$97 million in grants and loans. Additionally, in October 2014, \$94 million in SAW grants and loans were awarded to over 117 recipients, in October 2015, \$100 million in SAW grants and loans were awarded to 134 recipients, in October 2016, \$97 million in SAW grants and loans were awarded to 137 recipients and in in December 2017, \$65 million in SAW grants were awarded to 83 recipients, May 2018, \$8.2 million in SAW grants were awarded to 13 recipients and in in in April 2020, \$8.6 million in SAW grants were awarded to 19 recipients.

#### Who Do I Contact for More Information?

While compiling the information in this report, EGLE identified some data integrity issues and other related problems. These problems and issues were eliminated whenever possible. EGLE has made sincere efforts to assure the accuracy of this report, which is intended for informational purposes only. If you believe the information is inaccurate or if you have any questions or concerns regarding the information contained in the report, please contact the appropriate [district office](#) for your area.

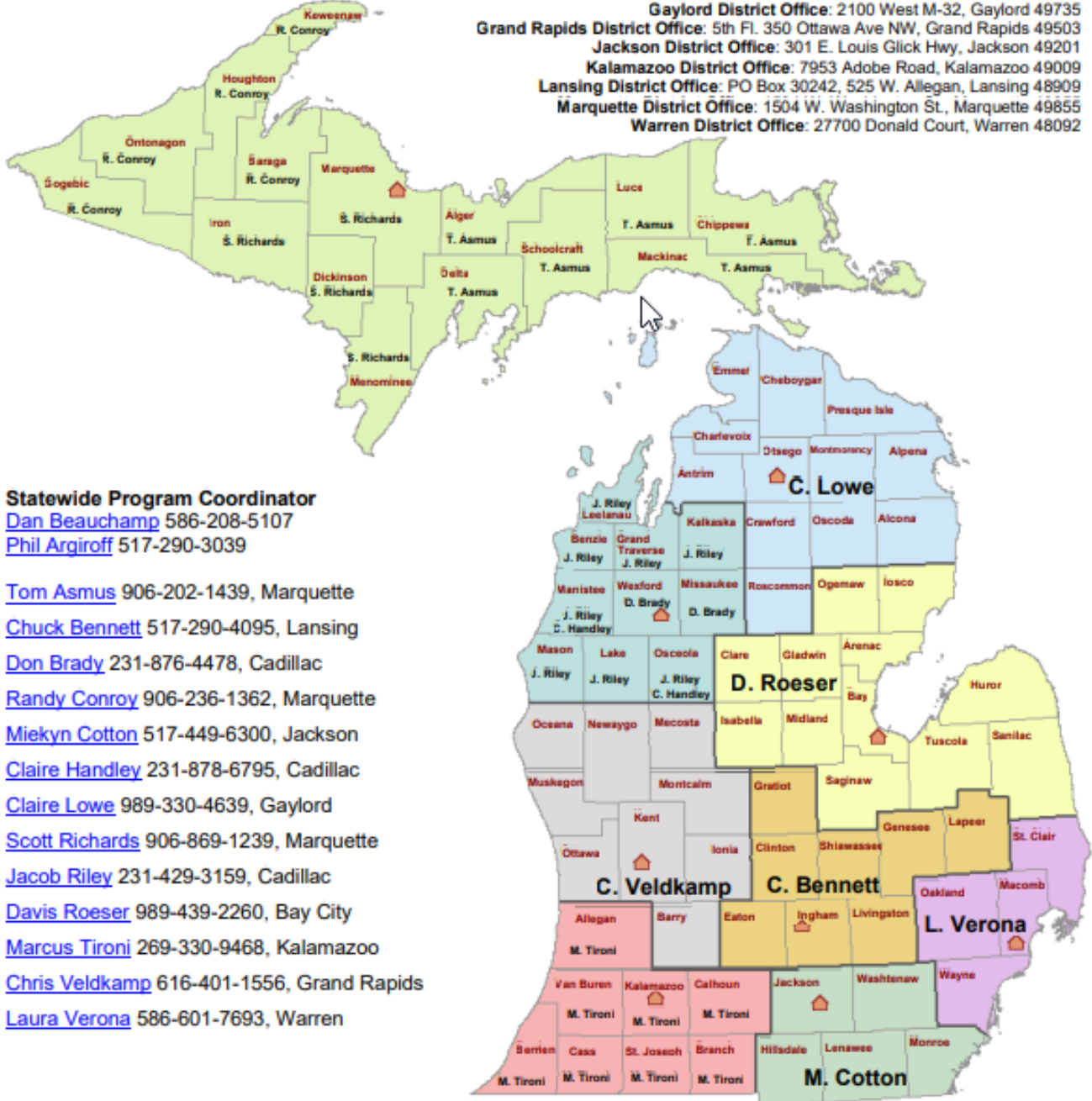
For additional information regarding the State of Michigan's overall CSO/SSO control strategies and policies, or questions regarding specific events, please contact the appropriate [district office](#) for your area. More information, including a continually updated database of reported events can be found on-line at [Michigan.gov/SewageDischarge](http://Michigan.gov/SewageDischarge).



# Retention Treatment Basin (RTB), Combined Sewer Overflow (CSO), Sanitary Sewer Overflow (SSO) Staff

[www.mi.gov/sewagedischarge](http://www.mi.gov/sewagedischarge)

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 Gaylord District Office: 2100 West M-32, Gaylord 49735  
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 Jackson District Office: 301 E. Louis Glick Hwy, Jackson 49201  
 Kalamazoo District Office: 7953 Adobe Road, Kalamazoo 49009  
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MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## Water Resources Division

[www.michigan.gov/wrd](http://www.michigan.gov/wrd) ↔ 517-284-5567

3/7/2022

## Report Terms and Acronyms

For the purposes of this report, the following terms and acronyms are described below:

### **Explanation of Report Headings:**

**EventID:** A unique internal EGLE tracking number assigned to an event. If you have questions about a specific event, or need additional information, providing this number to EGLE district office staff in your area will assist them in finding the correct information.

**Start Date/Time:** The date and time the discharge event began. If there were multiple discharge locations associated with a single event, all discharging at different dates/times, then this is the date/time of the earliest discharge.

**End Date/Time:** The date and time the discharge event ended. If there were multiple discharge locations associated with a single event, all discharging at different dates/times, then this is the date/time of the latest discharge.

**Event Volume:** Total discharge volume for the event (in MG) reported by the responsible party. This value *can* be an estimated value as is often the case with SSOs. When the report lists 'Not Specified,' no volume information was reported to EGLE.

**Discharge Quality:** Description of the quality of the wastewater discharged. See *Acronym/Definitions* section below for detailed explanations.

**Point(s) of Discharge:** Narrative description of wastewater discharge location(s). It provides information about receiving waters and/or land areas impacted by the discharge. A three-digit number preceding a receiving water name is the permittee's outfall discharge location as listed in their National Pollutant Discharge Elimination System (NPDES) permit. When the report lists "Not Specified," discharge information was not reported to EGLE for the land area or water body impacted. Note that this term is used in the appendix.

**Control Program:** This area of the report provides information and status of the permittee's long-term control program corrective actions as contained in their NPDES permit.

**Outfall Corrective Actions:** For SSOs, this area of the report provides information regarding corrective actions taken to reduce/eliminate future discharges from a particular SSO outfall discharge location (Note: These corrective actions do not pertain to a specific discharge event or to the owner of the sewer system as a whole). The specific locations where these corrective actions have taken place are listed under "Associated Outfall(s)."

### **Definitions/Acronyms:**

**Adequately Treated:** RTB discharges that have been demonstrated to meet Water Quality Standards or discharges from an RTB that was designed to meet the presumptive regulatory approach.

**Clear Water:** Clear Water is non-sanitary or nonindustrial wastewater that may enter the sewer system. It includes, but is not limited to: groundwater that seeps in through cracks in the sewer pipes; rainwater or snowmelt that flows into the sanitary system through improperly connected roof drains; groundwater that enters from footing drains and sump pumps; and storm water that enters when storm sewers are inadvertently connected to the sanitary sewer.

**Collection System:** System of subsurface sewer pipes designed and used to convey either sanitary sewage or both sanitary sewage and storm water to a wastewater treatment plant.

**Combined Sewer:** Sanitary sewage and storm water are conveyed in the same (combined) sewer pipe.

**CSO:** Combined Sewer Overflow (untreated discharge), a wet weather-related, untreated discharge from a combined sewer collection system.

**Demonstrative Regulatory Approach:** For RTBs that are built based on approved designs that are less conservative than the “presumptive approach” and, therefore, require an evaluation upon completion of construction to demonstrate that the treated discharges meet Water Quality Standards.

**EGLE:** Michigan Department of Environment, Great Lakes, and Energy.

**Diluted Sanitary Sewage:** Sanitary sewage diluted with rainwater, snowmelt, or groundwater.

**Infiltration/Inflow (I/I):** Rainwater, snowmelt, or groundwater flowing into separate sanitary or combined sewers, typically introduced via connected roof downspouts and/or building footing drains or infiltrating into the pipe through cracks in the pipe walls or joints.

**MG:** Million Gallons, e.g., 24,000 gallons = 0.024 MG

**NPDES Permit:** National Pollutant Discharge Elimination System Permit. A permit issued by EGLE, authorized under the federal Clean Water Act, to discharge treated wastewater to waters of the United States.

**Outfall:** Point of discharge of treated, partially treated, or untreated wastewaters to surface waters of the state.

**Partially Treated Sewage:** Any sewage, sewage and storm water, or sewage and wastewater, from domestic or industrial sources that meets one or more of the following: (1) Is not treated to national secondary treatment standards for wastewater or that is treated to a level less than that required by the person’s NPDES Permit; (2) Is treated to a level less than that required by the person’s Groundwater Discharge Permit; and (3) Is found on the ground surface (Section 324.3112c of the NREPA).

**Presumptive Regulatory Approach:** For RTBs that are designed using a conservative engineering approach. In this approach, meeting Water Quality Standards (WQS) is assumed and there is no need for a demonstration following completion of construction.

**Raw Sewage:** Untreated sanitary sewage.

**RTB:** Retention Treatment Basin or equivalent facility used for control and treatment of CSOs.

**Separate Sanitary Sewer:** Separate sanitary sewer pipe, designed to convey only sanitary sewage and minor amounts of I/I to a wastewater treatment facility.

**Sewer System:** A public or privately-owned wastewater collection facility designed and used to convey or treat sanitary sewage or sanitary sewage and storm water. Sewer system does not include an on-site wastewater treatment system serving one residential unit or duplex.

**SSO:** Sanitary Sewer Overflow (raw or inadequately treated discharge), a discharge from the sanitary sewer collection system, and a dry weather discharge from a combined sewer collection system.

**Surface Waters of the State:** e.g., rivers, streams, creeks, lakes, some open ditches, and wetlands (as opposed to groundwaters, i.e., aquifers).

**Twp:** Township

**WQS:** Water Quality Standards are regulations that establish the uses for which surface waters of the state are protected and include numeric and narrative criteria to protect those uses.

**WWTP:** Wastewater Treatment Plant or other treatment facility such as a treatment lagoon.

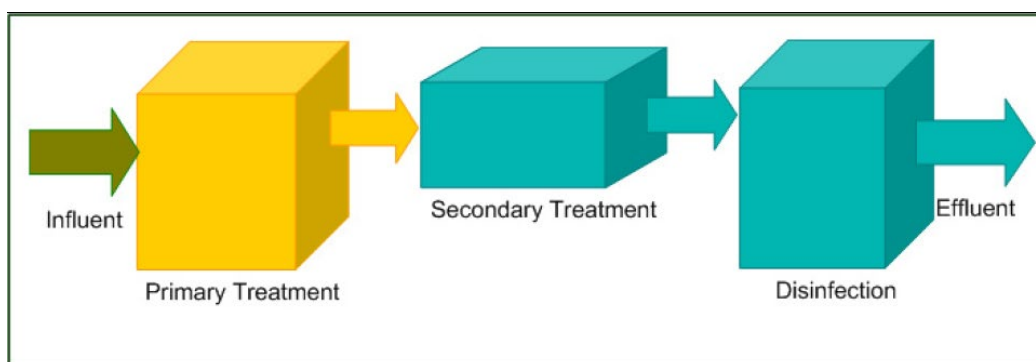
## Wastewater Treatment

### How is Wastewater Treated?

Sanitary wastewater treatment involves various stages; generally there is primary and secondary treatment, then a disinfecting stage. During the first stage, called primary treatment, 40 percent to 50 percent of the solids in the influent (wastewater from homes and businesses) are removed from the waste stream. The technology often used in the primary treatment stage includes bar screens (that remove trash), grit chambers (that slow down the flow to let sand, grit, and solids settle and be removed), and sedimentation tanks (that allow particles to settle and be removed).

During the secondary treatment stage, the treatment process continues to remove pollutants such that, following secondary treatment, 85 percent to 90 percent of the influent pollutants have been removed from the waste stream. One method of this type of treatment includes an aeration tank followed by a secondary sedimentation tank. In the aeration tank, air is mixed into the waste stream and microorganism concentrations are kept high to speed the consumption of the organic matter. In the secondary sedimentation tank, the microorganisms and other solids settle to the bottom so they can be removed. After secondary treatment, a disinfectant such as chlorine is often used to kill disease-causing organisms before the wastewater leaves the treatment plant.

**Figure 4: Wastewater Treatment Process**



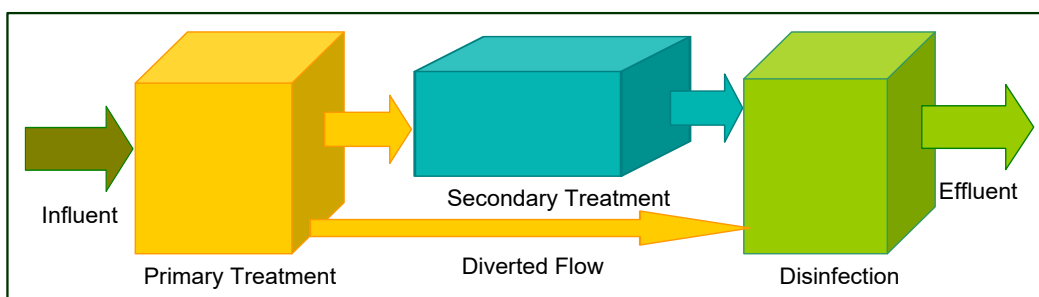
This report summarizes the discharge events of untreated or partially treated sewage from sewer systems. Most of these discharge events are classified as CSOs, RTBs, or SSOs, which are discussed at length elsewhere in this report. Other types of events that are reported are from blending and bypassing which happens at the wastewater treatment facility. These types of discharges are discussed below.

### What is Blending?

As a result of wet weather events, some WWTPs experience higher influent flows due to significant levels of I/I (see definition on page B-8) in the associated separate sanitary sewer system. In order to accommodate these higher influent flows in their wastewater treatment

operations, some WWTPs have a “blending” option at their facilities (“blending” used in this discussion does not include combined sewer systems). Generally during blending, the wastewater receives primary treatment and disinfection but a portion of the wastewater will not receive secondary treatment. The term blending generally refers to the mixing of the wastewater that received full (i.e., secondary) treatment with a component of primary-treated wastewater that has been diverted around the secondary treatment process (see Figure 5 below). This mixed wastewater is disinfected and then discharged from the facility.

**Figure 5: Wastewater Treatment Process - Blending Condition**



The term “blending” is used specifically for an anticipated wet weather treatment scenario approved by EGLE through issuance of an NPDES permit. The approval is an interim means to address higher influent flows as a result of wet weather conditions during storms at or below EGLE remedial design standard. Currently, there are very few approved blending scenarios in Michigan, and EGLE is working with these municipalities to eliminate these remaining blending authorizations. It is important to note that the discharges associated with these approved blending scenarios are required by the NPDES permit to produce effluent quality that complies with the Michigan WQS. Although Michigan has a small percentage of facilities that have approved blending through an NPDES permit, in other states many facilities engage in this practice under their NPDES permits.

Data in Appendix C contains blended effluent discharges reported in 2021 for facilities with approved blending scenarios in their NPDES permit. There were 9 blending events reported in 2021 representing a volume of 512.8 MG.

#### What is Bypassing?

Bypassing is the diversion of waste streams from any portion of a treatment facility other than approved blending described above. Similar to blending, bypassing can be the result of elevated influent flows due to wet weather events. However, bypassing may occur in the absence of a wet weather event due to equipment failure or some other difficulties at the WWTP. In contrast to blending, bypassing is not a preapproved treatment scenario and is not authorized in NPDES permits except to prevent loss of life, personal injury, or severe property damage. Further, unlike the approved blending scenarios, the discharges associated with bypassing events may or may not be compliant with the Michigan WQS. Instead, this wastewater is variable and often partially treated (usually through the treatment train up to the

process unit that failed). For example, using the wastewater process shown in Figure 4, if a malfunction shut down the mechanical disinfection system, then the wastewater would have received secondary treatment (Figure 4) but not disinfection, and this would be considered a bypass. In general, EGLE requires that the factors contributing to the occurrence of the bypass event be corrected as soon and as aggressively as is feasible.

Data in Appendix D contains bypass effluent discharges reported in 2021. There were 68 bypass events reported in 2021 representing a volume of 217.8 MG.

## **Combined Sewer Overflows and Retention Treatment Basins**

### What are Combined Sewer Overflows and What Causes Them?

Combined sewer systems are sewers that are designed to collect snowmelt, rainwater runoff, domestic sewage, and industrial wastewater in the same pipe. Most of the time, combined sewer systems transport all of their wastewater to a sewage treatment plant where it is treated and then discharged to a water body. During periods of heavy rainfall or snowmelt, however, the wastewater flow rate in a combined sewer system can exceed the capacity of the sewer system or treatment plant. For this reason, combined sewer systems were designed to overflow occasionally during wet weather and discharge excess wastewater directly to nearby streams, rivers, or other water bodies. Historically, CSOs were among the major sources for beach closings and other water quality impairments.

### How are CSOs Addressed?

CSOs are a problem nationwide. Michigan initiated a CSO Control Program in 1988, and in 1994 the federal government developed a nationwide CSO Control Policy. This policy suggested that states use an enforceable mechanism, preferably the permit program that was initiated by the federal Clean Water Act (called the National Pollutant Discharge Elimination System) to require CSO communities to implement interim measures referred to as “nine minimum controls” by January 1, 1997, and to develop CSO Long-Term Control Plans (LTCP). The “nine minimum controls” basically included interim measures that could be undertaken to begin addressing the CSOs before major sewer system construction activities would be undertaken as part of the LTCP. Once the state and the community reach agreement on the LTCP, the community would then implement the CSO controls as soon as practicable. In Michigan, these LTCPs are contained in various legal documents, including state issued NPDES permits, Administrative Consent Orders, Abatement Orders, and other legal documents. In Michigan, all municipalities with CSOs have completed the necessary interim control measures and have developed LTCPs. You can learn the entire history of Michigan’s CSO control in the [2007 CSO SSO Annual Report](#).



The LTCP must assess a range of control options, including costs and benefits, and lead to selection of an alternative that would achieve appropriate water quality objectives and compliance with the federal Clean Water Act and state laws. Since the cause of CSOs is an excess of rain or snowmelt runoff entering the sewer system, some municipalities decide to separate their combined sewers, thereby redirecting the clean runoff to lakes, rivers, and streams via storm sewers. Sewer separation projects are expensive and time consuming because they involve extensive utility and road reconstruction. Sewers typically run under roads; therefore, roads need to be torn up and repaved in order to gain access to and redirect the sewers.



While separating the sewer system is a common practice to eliminate CSOs, other communities may choose to build additional treatment or storage basins to contain a portion of the volume and provide treatment of any resulting discharge to meet WQS at times of discharge. Specifically, as part of the final corrective program, many owners of combined sewer systems have installed or are installing treatment facilities called retention treatment basins (RTBs) or equivalent structures, which are designed to capture the combined sewage and runoff long enough to provide treatment and disinfection. Treatment often involves allowing solids to settle, the skimming of floatable materials such as sanitary trash and oils; and disinfection of disease-causing organisms, often accomplished through the addition of chlorine. This is the typical RTB design in the State of Michigan. The treatment provided significantly reduces the amount of pollutants discharged. It is important to note that the fully implemented LTCP requires the permittee to provide enough treatment to result in full protection of WQS and the public health.

There are two different regulatory approaches related to review, approval, and oversight of RTBs, namely presumptive and demonstrative. With the presumptive approach, the RTB is designed in a conservative manner where established engineering design criteria are met. In this approach, meeting WQS is assumed because of the conservative design and there is no need for a demonstration that WQS are met. Alternatively, sometimes economics and other factors preclude the building of such facilities, namely because of the very large size, and instead the RTB is designed less conservatively, and therefore, an evaluation is required upon completion of construction to demonstrate that discharges meet WQS. This latter scenario is considered the demonstrative approach. Most RTBs in Michigan are designed following the demonstrative regulatory approach.



Additionally, in 2018, EGLE issued an [addendum to the 1994 CSO Control Manual](#) (Addendum). One objective of the Addendum was to align the CSO control program with the other related wet weather programs. Specifically, the post-construction program requirements MS4 permits and the 2002 SSO Policy and associated 2003 Clarification Statement.

Site control measures, when used to address storm water runoff, have the potential to positively impact areas served by both separated and combined sewers. As a result, EGLE intends to reissue NPDES permits with additional control measures for combined sewer areas, where treatment was previously implemented and deemed to be adequate (either presumptive or demonstrative), and that are embedded in or directly adjacent to urbanized areas.

In addition to the MS4 Program alignment, the Addendum also aligns CSO discharge standards with the 2002 SSO Policy and 2003 Clarification Statement. The Addendum provides consistency between the SSO and CSO programs by introducing the concept of enforcement discretion for certain discharges from combined sewer systems. Enforcement discretion will be considered for untreated CSOs that discharge only during extreme events. Extreme event discharges are defined as: (1) no more than 1 untreated discharge in ten years from a CSO outfall during the April 1 through October 31 growth period; or (2) modeled to not discharge during the 3.9 inch in 24-hour storm event (during growth period, with normal soil moisture, rainfall distributed to a SCS Type II distribution).

#### What is the Main Challenge for Communities to Address in Controlling CSOs?

Several challenges exist in controlling CSOs, the most significant being the costs associated with mounting wastewater infrastructure improvements and the financial resource-intensive nature of CSO controls. CSO LTCPs typically involve major infrastructure investments that compete with other community financial needs.

There are several ways a community can fund CSO controls including federal grant programs and the use of bonds and user fees. However, the SRF has been a major source of financial assistance to communities addressing CSO problems and this involvement is particularly evident when reviewing the 2007 CSO/SSO Annual Report, and specifically, the CSO Summary Report within that report.

## Sanitary Sewer Overflows

### What are Sanitary Sewer Overflows?

Sanitary sewer overflows, or SSOs, are discharges of raw sewage from separate sanitary sewer collection systems. These systems are designed to carry sanitary sewage but not storm water. When an SSO occurs, sewage is released into areas such as the ground, streets, and/or streams, rather than being transported to a treatment facility. They are illegal and usually constitute a serious environmental and public health threat. Sewage discharges into basements may also occur, but these events are not required to be reported to EGLE for entry in this report under Section 324.3112(a) of the NREPA.

### What causes an SSO?

For the purposes of this report, SSOs can be categorized in three general categories, those being chronic SSOs, site specific SSOs, and SSOs due to mechanical/electrical failure or emergency.

Chronic SSOs can occur when too much water enters into a sanitary sewer system. This water, known as “clear water,” includes, but is not limited to, the following sources:

- Groundwater that seeps in through cracks in the sewer pipes;
- Rainwater or snowmelt that flows into the sanitary system through improperly connected roof drains or other inflow sources;
- Groundwater that enters from footing drains and sump pumps; and
- Storm water that enters when storm sewers are inadvertently connected to the sanitary sewer.

Chronic SSOs can also occur when sanitary systems are too small to contain all the sanitary wastewater that is in the sewer system. Specifically, if the sewers and pumps that transport the sewage through the system are undersized, SSOs can result. Factors that can lead to chronic SSOs include: increased development in a community to the point where there is not enough sewer system capacity to handle the population; or, more likely, system deterioration due to the age of the sewer system and resulting excessive clear water inputs to the system.

Site-specific SSOs occur when blockages in the sewer cause sewage to back up in the sewer system. Some examples of blockages include tree roots growing into the sewer, when a sewer partially or totally collapses, when sediments build up in the sewers, or when grease or trash block the sewer.

Finally, SSOs occur due to power outages, emergency conditions, and equipment or mechanical failures. Examples include: faulty valves within the sewer pipes, lightning strikes to pump stations, the breaking of a sewer pipe, power failures that shut down pumps (which are installed to force sewage to higher points in the system), and even car accidents that damage sewer system pump stations.

### How Does the Sewage End Up in the Environment?

Sewage may escape from a sewer system in many different ways. For example, SSO events include direct releases of sewage from a broken sewer pipe and releases of sewage through a manhole, generally in low areas of the sewer system. Sometimes sewage has been intentionally released from a sewer system into the environment to prevent basement flooding within the system. Additionally, some sewer systems have emergency storage basins (either retention or equalization basins) that hold excess sewage in an overflow scenario. These basins can provide some treatment of the sewage, and during extreme rain events, unauthorized overflow releases of sewage may occur.

### How are SSOs Addressed?

Since SSOs have different causes, there are various ways that SSOs can be addressed. When SSOs are a chronic problem in a community, EGLE will require the responsible entity to implement corrective action programs within a defined schedule (“schedule of compliance” or SOC). The corrective action program outlines how the SSOs will be eliminated or treated, and the SOC will be embodied in a compliance document. Frequently, EGLE works to achieve a voluntary settlement. These settlements are often embodied in documents called District Compliance Agreements, permits, or Administrative Consent Orders. If a voluntary settlement is not achieved, then an SOC will often be sought through litigation resulting in a court order or court judgment.

For site-specific SSOs caused by sewer blockages, a response is usually undertaken by the responsible entity. The response activity will usually include the removal of the sewer blockage to restore the proper function of the sewer system, along with cleanup and/or disinfection of the areas where sewage was spilled to limit public exposure. The emergency response for SSOs due to equipment failures are handled in a similar way. The power is restored or the mechanical problem is fixed (i.e., the cracked sewer is repaired or the faulty pump is replaced); and the area is similarly cleaned up or disinfected. Such problems are addressed in the long-term through routine inspection and preventative maintenance programs.

While this report is intended to provide the public with an overview of the issues surrounding SSOs and how they are addressed, other documents may be useful for professionals in the environmental field that would like to learn more about EGLE’s policy in addressing SSOs. On December 27, 2002, a policy statement was issued and a subsequent clarification statement was issued on October 23, 2003, to address chronic SSOs due to wet weather capacity issues. The policy statement was the result of consultation with a stakeholder group to develop guidance for implementing the May 2000 “*Strategy for the Regulatory Control and Correction of Illegal Overflows from Separate Sanitary Sewer Systems in Michigan.*” These documents can be found on our Web site at: [Michigan.gov/SewageDischarge](http://Michigan.gov/SewageDischarge)

### What Factors Might Justify Longer-Term Plans for Stopping Chronic SSOs?

Sewer systems are frequently complex and expensive to fix. Consider that sewer pipes are buried with other utility lines, oftentimes under roads, making access to them difficult. This limited access not only makes repair difficult, but it also makes the identification of extra sources of water to the sewer system a challenge. In addition, many sewer systems that were built over 30 years ago are reaching the end of their design life and are in need of rehabilitation or replacement. Additional costs could include engineering to study and design system improvements, upgrades to the WWTP to handle additional flow, and replacement of pumps and other equipment that make up the sewage system. Monies may or may not be available via grants, low rate loans, or rate increases; therefore, many communities and private sewer system owners need time to secure funding. Sewer system owners usually need time to find the cause of large systemic problems such as identifying the sources of “clear water” infiltrating and inflowing into the system or identifying the components in the system that are undersized. In addition, the system owners often need considerable time to review financing alternatives, design construction improvements, and to implement the project.



## **Detailed Discharge Report**

**January 1, 2021 - December 31, 2021**

Appendix C	<u>Blended Report</u>
Appendix D	<u>Bypass Report</u>
Appendix E	<u>Combined Sewer Overflow Report</u>
Appendix F	<u>Retention Treatment Basin Report</u>
Appendix G	<u>Sanitary Sewer Overflow Report</u>

## 'Blended' Detail Report January 1 - December 31, 2021

### Macomb

#### Warren WWTP

#### Warren WWTP

Submission ID. HPB-YGJY-AKSVZ

Start Day	Start Time	End Day	End Time
9/22/2021	1:35:00 PM	9/24/2021	4:00:00 PM

Rain(in.) = 5.24

Waterbody: Red Run Drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**103.60000**

Cause: 25 year rain storm event. Major rain began falling at 7 pm on 9/21 by 7 pm on 9/22 we had already accumulated 4.24 inches of; rain.

EGLE Action: The NPDES permit contains schedule to eliminate blending at the WWTP and collection system SSOs

#### Warren WWTP

Submission ID. HPC-RF4V-2E4FY

Start Day	Start Time	End Day	End Time
10/25/2021	9:50:00 PM	10/26/2021	8:00:00 PM

Rain(in.) = 2.22

Waterbody: Red Run Drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**11.89000**

Cause: Rain Event

EGLE Action: The NPDES permit contains schedule to eliminate blending at the WWTP and collection system SSOs



# 'Blended' Detail Report January 1 - December 31, 2021

## Warren WWTP

Submission ID. HPC-VSRJ-K17XW

Start Day	Start Time	End Day	End Time
10/29/2021	11:28:00 PM	10/30/2021	4:00:00 AM

Rain(in.) = 1.31  
Waterbody: Red Run Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>36.02000</b>	

Cause: Rain fall. We have had excessive rainfall this week. The ground is saturated. We were still emptying basin from previous rain event during the week.

EGLE Action: The NPDES permit contains schedule to eliminate blending at the WWTP and collection system SSOs

## Totals Warren WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>151.51000</b>	

## County Totals Macomb

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>151.51000</b>	



# 'Blended' Detail Report January 1 - December 31, 2021

## Wayne

### Downriver WTF

#### Downriver WTF

Submission ID. HP9-REAH-ZE08Q

Start Day	Start Time	End Day	End Time
6/26/2021	2:40:00 AM	6/27/2021	12:49:00 AM

Rain(in.) = 2.36  
Waterbody: Trenton Channel

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>16.46000</b>	

Cause: Secondary Blended Bypass event started due to excessive rainfall

EGLE Action: Evaluation of this event confirms discharge is consistent with terms of current NPDES permit.

#### Downriver WTF

Submission ID. HPA-8HHC-X8BT9

Start Day	Start Time	End Day	End Time
7/16/2021	2:30:00 PM	7/18/2021	3:58:00 PM

Rain(in.) = 2.3  
Waterbody: Detroit River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>89.04000</b>	

Cause: Excessive rainfall over the last two days

EGLE Action: Evaluation of this event confirms discharge is consistent with terms of current NPDES permit.





# 'Blended' Detail Report January 1 - December 31, 2021

## Downriver WTF

Submission ID. HPA-FE0T-TAKF8

Start Day	Start Time	End Day	End Time
7/25/2021	2:01:00 AM	7/25/2021	10:00:00 PM

Rain(in.) = 1.77  
Waterbody: Detroit River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>18.63000</b>	

Cause: 1.77"s of rain in a very short period

EGLE Action: Evaluation of this event confirms discharge is consistent with terms of current NPDES permit.

## Downriver WTF

Submission ID. HPA-XKE2-0Z28Q

Start Day	Start Time	End Day	End Time
8/12/2021	7:50:00 AM	8/13/2021	8:00:00 PM

Rain(in.) = 2.3  
Waterbody: Detroit River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>65.96000</b>	

Cause: Excessive rainfall

EGLE Action: Evaluation of this event confirms discharge is consistent with terms of current NPDES permit.



# 'Blended' Detail Report January 1 - December 31, 2021

## Downriver WTF

Submission ID. HPB-YRFZ-A0M3Z

Start Day	Start Time	End Day	End Time
9/22/2021	4:00:00 PM	9/25/2021	6:55:00 AM

Rain(in.) = 3.3  
Waterbody: Detroit River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>115.25000</b>	

Cause: Excessive rainfall

EGLE Action: Evaluation of this event confirms discharge is consistent with terms of current NPDES permit.

## Downriver WTF

Submission ID. HPC-R2P5-D22HF

Start Day	Start Time	End Day	End Time
10/25/2021	3:00:00 PM	10/27/2021	6:00:00 AM

Rain(in.) = 2.5  
Waterbody: Detroit River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>55.92000</b>	

Cause: Rain fall over the last two days exceeded plant capacity

EGLE Action: Evaluation of this event confirms discharge is consistent with terms of current NPDES permit.

## Totals Downriver WTF

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>361.26000</b>	



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Blended' Detail Report January 1 - December 31, 2021

County Totals

Wayne

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**361.26000**

Report Totals

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**512.77000**

## 'Bypass' Detail Report January 1 - December 31, 2021

**Allegan**

**Moline WWTP**

**Moline WWTP**

Submission ID.

HP9-9RWT-  
NJDMM

Start Day	Start Time	End Day	End Time
6/6/2021	6:00:00 AM	6/6/2021	10:00:00 AM

Waterbody: Green lake stream

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00000**

Cause: Discharging as normal thru treatment plant. Blowers not running due to new construction programming.

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.



# 'Bypass' Detail Report January 1 - December 31, 2021

## Moline WWTP

Submission ID. HP9-TDHK-GTC3N

Start Day	Start Time	End Day	End Time
6/26/2021	8:00:00 PM	6/27/2021	2:30:00 AM

Rain(in.) = 5  
Waterbody: Green lake stream

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.23754</b>	

Cause: Plant received 1,077,561 gallons of water in 30 hr. period. From Friday 3:00 pm 6/25/2021 to 2:30am 6/27/2021. Partial Treatment occurred Saturday 6/26/2021 at 8:00 pm and ended at 2:30 am. on 6/27/2021 with 237,540 gallons being Partial Treated. Our normal average flow is about 180,000 GPD.

EGLE Action: Event reviewed. Facility is performing corrective actions.

## Totals Moline WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.23754</b>	

## County Totals Allegan

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.23754</b>	



## 'Bypass' Detail Report January 1 - December 31, 2021

**Baraga**

**LAnse WWTP**

**LAnse WWTP**

Submission ID. HP7-67E0-Z9EGK

Start Day	Start Time	End Day	End Time
3/13/2021	8:30:00 AM	3/13/2021	10:00:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: A primary tank that was once repaired from a crack failed. The water slowly made its way along the building and was noticed by the operator an area that was unusually wet. Once the leak was noticed, the operator dug a hole and put a bucket in the hole with a sump pump to keep the water from going further across the parking lot, that water was pumped into the aeration tank. We isolated the primary clarifier and the leak stopped.

EGLE Action: Compliance communication sent

**Totals LAnse WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

**County Totals Baraga**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Berrien

### Andrews University WWTP

#### Andrews University WWTP

Submission ID. HP5-P8VR-GV7GF

Start Day	Start Time	End Day	End Time
1/8/2021	12:15:00 PM	1/8/2021	1:15:00 PM

Waterbody: Lemon Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	

Cause: Equipment failure and operator error resulted Waste Activated Sludge overflowing a digester. Supernatant from the WAS flowed into Lemon Creek

EGLE Action: No Additional Action taken at this time.

#### Totals Andrews University WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	

#### County Totals Berrien

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	



# 'Bypass' Detail Report January 1 - December 31, 2021

## Calhoun

### Battle Creek WWTP

#### Battle Creek WWTP

Submission ID. HPD-JKCG-FW50D

Start Day	Start Time	End Day	End Time
11/27/2021	1:30:00 PM	11/28/2021	12:00:00 PM

Rain(in.) = 1

Waterbody: Kalamazoo River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.02000**

Cause: Lime stabilized biosolids from storage tank. Overflow of storage structure

EGLE Action: Event reviewed and appears to be remediated.

#### Totals Battle Creek WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.02000**

#### County Totals Calhoun

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.02000**



## 'Bypass' Detail Report January 1 - December 31, 2021

Cass

Cass Co-Lakes Area SA WWTP

Cass Co-Lakes Area SA WWTP

Submission ID. HPC-RK52-ZQQSS

Start Day	Start Time	End Day	End Time
10/22/2021	9:30:00 AM	10/22/2021	10:00:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00000**

Cause: The spill came from 2" lay flat discharge tubing that had small holes in it from abrasion. The discharge tubing was transferring mostly treated wastewater out of a treatment basin to perform maintenance. The spill lasted for approximately 20-30 minutes. Staff's initial attempt to patch the holes was not effective. Staff were instructed to shut down the equipment by the onsite supervisor until a proper patch could be applied. Staff hosed down the area after work was completed.

EGLE Action: Event reviewed and evaluated. Actions taken appear to be adequate to prevent a similar issue occurring.



# 'Bypass' Detail Report January 1 - December 31, 2021

## Cass Co-Lakes Area SA WWTP

Submission ID. HPC-ZJ3P-9D188

Start Day	Start Time	End Day	End Time
11/3/2021	1:30:00 AM	11/3/2021	1:31:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00003**

Cause: Staff were pumping rainwater from a basin that was not in service via a sludge line attached to the bottom of the basin. Earlier in the day, a staff member had been exercising valves onsite at the facility. This staff member had left a valve in the wrong position resulting in the rainwater/sludge mixture being sent to the wrong location. Staff caught the overflow almost immediately when it occurred and returned things to normal.

EGLE Action: Event and SOP reviewed. Adequate actions at this time.

## Totals Cass Co-Lakes Area SA WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00003**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Dowagiac WWTP

### Dowagiac WWTP

Submission ID. HP6-YJTC-0X9D1

Start Day	Start Time	End Day	End Time
3/3/2021	11:30:00 AM	3/3/2021	11:30:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00002**

Cause: City staff dumping City jetting / vacuum truck and accidently allowed raw sewage to spill on the ground.

EGLE Action: No Further Action Taken at this Time

### Totals Dowagiac WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00002**

### County Totals Cass

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00004**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Charlevoix

### East Jordan WWTP

#### East Jordan WWTP

Submission ID. HPE-1BK1-3VJ6C

Start Day	Start Time	End Day	End Time
12/17/2021	5:00:00 AM	12/17/2021	5:30:00 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	

Cause: System wide power outage. Plant is running on generator, but lift stations are having to be cycled on using portable generators. This is causing the flow into the plant to come in large surges instead of more frequent cycles.

EGLE Action: Followed up with the City on generator condition at main lift station for emergency operating capability.

#### Totals East Jordan WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	

#### County Totals Charlevoix

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	



## 'Bypass' Detail Report January 1 - December 31, 2021

### Cheboygan

#### Cheboygan WWTP

#### Cheboygan WWTP

Submission ID. HPC-RJBC-77EG0

Start Day	Start Time	End Day	End Time
10/26/2021	10:00:00 AM	11/11/2021	9:00:00 AM

Waterbody: Cheboygan River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**5.92900**

Cause: Cheboygan WWTP is currently (10-26-21) out of Chlorine due to a driver shortage. Delivery arrived 11-11-21 at 9am.; Volume was totaled from days when fecal count was TNTC

EGLE Action: ACO entered to address needed facility upgrade

#### Totals Cheboygan WWTP

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**5.92900**

#### County Totals Cheboygan

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**5.92900**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Chippewa

### Sault Ste Marie WWTP

#### Sault Ste Marie WWTP

Submission ID. HP7-EXV1-C2C8X

Start Day	Start Time	End Day	End Time
3/24/2021	1:30:00 PM	3/25/2021	6:30:00 AM

Rain(in.) = 0.56

Waterbody: St Marys River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**4.89000**

Cause: Primary effluent, which received screening, grit removal, chemical addition, and settling prior to blending with flow receiving complete secondary treatment. All flow was disinfected prior to discharge to the st mary. Reason for discharge was flow entering plant exceeded the capacity of secondary treatment.

EGLE Action: The facility NPDES permit requires sanitary sewer system investment to minimize inflow and infiltration of stormwater into sanitary sewer.

## 'Bypass' Detail Report January 1 - December 31, 2021

### Sault Ste Marie WWTP

Submission ID. HPA-7GZP-VTZAT

Start Day	Start Time	End Day	End Time
7/15/2021	7:49:00 AM	7/15/2021	10:32:00 AM

Rain(in.) = 1.28  
Waterbody: St Mary's River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.17500**

Cause: Primary effluent, which received screening, grit removal, chemical addition, and settling prior to blending with flow receiving complete secondary treatment. All flow was disinfected prior to discharge to the St Mary's. Reason for discharge was flow entering plant exceeded the capacity of secondary treatment.

EGLE Action: NPDES permit language for sewer separation and I/I reduction.

### Sault Ste Marie WWTP

Submission ID. HPA-JG91-31HHE

Start Day	Start Time	End Day	End Time
7/29/2021	5:30:00 AM	7/29/2021	10:30:00 AM

Rain(in.) = 2.41  
Waterbody: St Mary's River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.71300**

Cause: Primary effluent, which received screening, grit removal, chemical addition, and primary settling prior to blending with flow receiving complete secondary treatment. All flow was disinfected prior to discharge to the St Marys river. Reason for discharge was flow entering into plant exceeded the capacity of secondary treatment.

EGLE Action: I&I reduction efforts incorporated in current and draft NPDES permit.

## 'Bypass' Detail Report January 1 - December 31, 2021

### Sault Ste Marie WWTP

Submission ID. HPA-NAMH-6SGFT

Start Day	Start Time	End Day	End Time
7/31/2021	12:14:00 PM	7/31/2021	2:07:00 PM

Rain(in.) = 0.85  
Waterbody: St Mary River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.13000**

Cause: Primary effluent, which received screening, grit removal, chemical addition, and settling prior to blending with flow receiving; complete secondary treatment. All flow was disinfected prior to discharge to the St Mary's. Reason for discharge was flow; entering plant exceeded the capacity of secondary treatment.

EGLE Action: Draft NPDES permit language requires a process for I&I reduction.

### Sault Ste Marie WWTP

Submission ID. HPD-NQXG-H1ZQH

Start Day	Start Time	End Day	End Time
12/2/2021	5:30:00 AM	12/2/2021	4:06:00 PM

Rain(in.) = 0.45  
Waterbody: St. Mary's River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.39100**

Cause: Primary effluent, which received screening, grit removal, chemical addition and settling prior to blending with flow receiving complete secondary treatment. All flow was disinfected prior to discharge to the St. Mary's river. Reason for discharge was flow entering the plant exceeded the capacity of secondary treatment.

EGLE Action: Corrective actions included in NPDES permit.





## 'Bypass' Detail Report January 1 - December 31, 2021

### Sault Ste Marie WWTP

Submission ID. HPE-OPX2-0MM46

Start Day	Start Time	End Day	End Time
12/16/2021	12:14:00 AM	12/17/2021	3:35:00 AM

Rain(in.) = 0.07  
Waterbody: St Mary's river

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>4.24800</b>	

Cause: Primary effluent, which received screening, grit removal, chemical addition and settling prior to blending with flow receiving complete secondary treatment. All flow was disinfected prior to discharge to the st marys river. Reason for discharge was flow entering the plant exceeded the capacity of secondary treatment.

EGLE Action: Inflow & infiltration reduction requirement schedule of compliance are in NPDES permit.

### Totals Sault Ste Marie WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>10.54700</b>	

### County Totals Chippewa

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>10.54700</b>	



## 'Bypass' Detail Report January 1 - December 31, 2021

### Delta

#### Escanaba WWTP

#### Escanaba WWTP

Submission ID. HP8-E8SR-NMG5V

Start Day	Start Time	End Day	End Time
5/2/2021	12:01:00 PM	5/6/2021	10:30:00 AM

Waterbody: Lake Michigan

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.80000**

Cause: A sudden problem with settling occurred while draining a final created high volumes of solids over the weir, creating very poor effluent. The primary effluent was very clean in comparison. The normal time-proven protocol was followed before taking this tank out of service.

EGLE Action: Violation notice issued. Primary resolution is to use sludge judge sampler to determine the amount of sludge in a secondary clarifier prior to removing that tank from service.

#### Totals Escanaba WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.80000**

#### County Totals Delta

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.80000**



## 'Bypass' Detail Report January 1 - December 31, 2021

### Eaton

#### Grand Ledge WWTP

#### Grand Ledge WWTP

Submission ID. HP9-T6QQ-PN82A

Start Day	Start Time	End Day	End Time
6/26/2021	10:04:00 PM	6/27/2021	12:45:00 PM

Rain(in.) = 5.23

Waterbody: Grand River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.50170**

Cause: Discharged from the wet weather EQ basin due to an excessive amount of rainfall in a short time.

EGLE Action: Investigation for force majeure

#### Totals Grand Ledge WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.50170**

#### County Totals Eaton

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.50170**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Genesee

### Flint WWTP

#### Flint WWTP

Submission ID. HP7-GT63-K8XTT

Start Day	Start Time	End Day	End Time
3/26/2021	3:57:00 PM	3/26/2021	11:00:00 PM

Rain(in.) = 1.57  
Waterbody: Flint River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>1.25000</b>	

Cause: Excessive wet weather resulted in excessive flows beyond the plant's capacity to treat. The discharge was partially treated sanitary sewage.

EGLE Action: Violation Notice sent to address discharge

#### Flint WWTP

Submission ID. HP9-TFK6-NMK8A

Start Day	Start Time	End Day	End Time
6/27/2021	12:49:00 AM	6/27/2021	9:30:00 AM

Rain(in.) = 4.37  
Waterbody: Flint River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>5.94000</b>	

Cause: Excessive wet weather resulted in excessive flows beyond the plant's capacity to treat. The discharge was partially treated sanitary sewage.

EGLE Action: Violation notice issued to address discharge

## 'Bypass' Detail Report January 1 - December 31, 2021

### Flint WWTP

Submission ID. HPB-YGMZ-JVKK3

Start Day	Start Time	End Day	End Time
9/23/2021	6:45:00 AM	9/24/2021	11:50:00 AM

Rain(in.) = 3.55  
Waterbody: Flint River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**31.88000**

Cause: Excessive wet weather resulted in excessive flows beyond the plant's capacity to treat. The discharge was partially treated sanitary sewage.

EGLE Action: Violation notice issued to address discharge

### Flint WWTP

Submission ID. HPC-QTGW-NCYFK

Start Day	Start Time	End Day	End Time
10/25/2021	12:15:00 PM	10/27/2021	1:00:00 AM

Rain(in.) = 1.57  
Waterbody: Flint River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**45.75000**

Cause: Wet weather resulted in excessive flows beyond the plant's greatly reduced (due to large scale repairs) capacity to treat. The discharge was partially treated sanitary sewage.

EGLE Action: Violation notice issued to address discharge



# 'Bypass' Detail Report January 1 - December 31, 2021

## Flint WWTP

Submission ID. HPC-SBQS-ZSZP8

Start Day	Start Time	End Day	End Time
10/27/2021	11:00:00 AM	11/9/2021	5:30:00 AM

Rain(in.) = 1.57  
Waterbody: Flint River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>76.50000</b>	

Cause: Wet weather resulted in excessive flows beyond the plant's capacity to treat due to ongoing large-scale plant-wide improvement projects. The discharge is partially treated sanitary sewage.

EGLE Action: Violation notice issued to address discharge

## Totals Flint WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>161.32000</b>	

## County Totals Genesee

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>161.32000</b>	



# 'Bypass' Detail Report January 1 - December 31, 2021

## Gladwin

### Butman Twp WWTP

#### Butman Twp WWTP

Submission ID. HPA-XRG2-6HCHW

Start Day	Start Time	End Day	End Time
8/12/2021	9:15:00 AM	8/12/2021	9:25:00 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00001</b>	

Cause: Rear hatch on vactor did not fully lock causing a spill during a cleaning event at a lift station. Operators noticed issue immediately, shut down equipment and immediately cleaned effected area.

EGLE Action: No further action taken. Event was isolated and the facility is committed to preventing future SSO's.

#### Totals Butman Twp WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00001</b>	

#### County Totals Gladwin

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00001</b>	

## 'Bypass' Detail Report January 1 - December 31, 2021

### Grand Traverse

#### Gd Traverse Co-Septage Fac

#### Gd Traverse Co-Septage Fac

Submission ID. HPC-1S9H-HPD5J

Start Day	Start Time	End Day	End Time
9/21/2021	11:30:00 PM	9/22/2021	6:30:00 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00015**

Cause: Influent EQ pump did not stop running while in auto and we were receiving some intermittent influent EQ transducer faults.

EGLE Action: Discussed event with their staff, caused by equipment failure

#### Gd Traverse Co-Septage Fac

Submission ID. HPC-KTH1-2MWRD

Start Day	Start Time	End Day	End Time
10/19/2021	11:00:00 PM	10/19/2021	11:30:00 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00014**

Cause: Influent EQ pumps failed to stop and overwhelmed the downstream lift station causing waste to flow from the lift station wet well onto the surrounding ground.

EGLE Action: Discussion with the operators on preventing future occurrences. No further action taken at this time





# 'Bypass' Detail Report January 1 - December 31, 2021

**Totals** **Gd Traverse Co-Septage Fac**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00029**

**Traverse City WWTP**

**Traverse City WWTP**

Submission ID. HPA-NN3S-3S7JB

Start Day	Start Time	End Day	End Time
7/24/2021	11:20:00 AM	7/24/2021	5:15:00 PM

Rain(in.) = 3.25  
Waterbody: Boardman River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00536**

Cause: High flow event caused elevated levels in UV channel to surpass treatment threshold by no more than 0.16ft for no more than 18.62 minutes total.

EGLE Action: Continue to work with the plant and monitor these, but they will be eliminated when the UV system is upgraded per the ACO



# 'Bypass' Detail Report January 1 - December 31, 2021

## Traverse City WWTP

Submission ID. HPA-YF01-XE0G2

Start Day	Start Time	End Day	End Time
8/12/2021	12:14:00 PM	8/12/2021	12:15:00 AM

Waterbody: Boardman River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00750</b>	

Cause: High flow event caused elevated levels in UV channel to surpass treatment threshold by no more than 0.16ft for no more than 56 seconds.

EGLE Action: Will continue to monitor these and they will ultimately be addressed by the UV system upgrades as part of the ACO agreement

## Totals Traverse City WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.01286</b>	

## County Totals Grand Traverse

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.01315</b>	



## 'Bypass' Detail Report January 1 - December 31, 2021

### Ingham

#### East Lansing WRRF

#### East Lansing WRRF

Submission ID. HPA-YFFF-JYJB7

Start Day	Start Time	End Day	End Time
8/12/2021	6:30:00 AM	8/12/2021	11:00:00 PM

Rain(in.) = 4.74

Waterbody: Red Cedar River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**6.93000**

Cause: North Plant aeration tanks overflowed. Hydraulic capacity exceeded.

EGLE Action: Long-term Control Program complete; controls included both sewer separation and construction of a retention treatment basin (RTB) and tunnel.

#### Totals East Lansing WRRF

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**6.93000**

## 'Bypass' Detail Report January 1 - December 31, 2021

### Williamston WWTP

#### Williamston WWTP

Submission ID. HPA-XT1Q-5K6GM

Start Day	Start Time	End Day	End Time
8/12/2021	4:30:00 AM	8/12/2021	8:00:00 AM

Rain(in.) = 3.72

Waterbody: Red Cedar River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.40800**

Cause: There was a major storm event. Blowers were temporarily shut down to retain secondary treatment solids.

EGLE Action: Reviewed circumstances of event. No further actions taken at this time

#### Totals Williamston WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.40800**

#### County Totals Ingham

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**7.33800**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Iosco

### Tawas Utility Authority WWTP

#### Tawas Utility Authority WWTP

Submission ID. HPC-E8PM-ZY3RE

Start Day	Start Time	End Day	End Time
10/12/2021	7:00:00 PM	10/12/2021	8:00:00 PM

Rain(in.) = 0.16

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00000</b>	

Cause: sludge coming out from the top of the primary digester, the seal on the digester mixer unit not working properly.

EGLE Action: No further action taken, event was isolated and the facility is committed to preventing further events.

#### Totals Tawas Utility Authority WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00000</b>	

#### County Totals Iosco

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00000</b>	



## 'Bypass' Detail Report January 1 - December 31, 2021

### Jackson

#### Leoni Twp WWTP

#### Leoni Twp WWTP

Submission ID. HP9-CYPP-AYTKF

Start Day	Start Time	End Day	End Time
6/11/2021	10:45:00 AM	6/11/2021	10:48:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause:      Decant water from the centrifuge is sent to the head works from the Centrate pump station. The lift station pumps failed to operate properly and caused it to over flow.

EGLE Action:      Escalated enforcement pending

#### Totals      Leoni Twp WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

#### County Totals      Jackson

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**



# 'Bypass' Detail Report January 1 - December 31, 2021

Kent

## Riverview Estates MHC

### Riverview Estates MHC

Submission ID. HP6-M7KC-HF1DW

Start Day	Start Time	End Day	End Time
1/4/2021	6:00:00 PM	1/5/2021	8:00:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.01000**

Cause:            The effluent valve chamber suffered a mechanical failure and overflowed treated effluent from the lid and onto the ground.

EGLE Action:    discussed ongoing discharges with contractor and issued VN

### Totals    Riverview Estates MHC

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.01000**

## 'Bypass' Detail Report January 1 - December 31, 2021

### Saddle Ridge Condo-Algoma

#### Saddle Ridge Condo-Algoma

Submission ID. HP6-XVPN-44QY0

Start Day	Start Time	End Day	End Time
3/1/2021	11:30:00 AM	3/1/2021	12:15:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

**Cause:** Appx 50 gallons of Foam escaped from the closed lids of Bioreactors 1 and 2. Foam built up on top of the tanks, and overflowed onto the parking area and down the ravine embankment

**EGLE Action:** The permittee has entered an Administrative Consent Order (ACO-05326) with WRD, effective 12/2/2019, to address alleged violations of NPDES Permit No. MI0056723. The compliance schedule outlined in the ACO is intended to work toward addressing facility operation and maintenance deficiencies leading to events such as this.



## 'Bypass' Detail Report January 1 - December 31, 2021

### Saddle Ridge Condo-Algoma

Submission ID.

HP7-DGMJ-  
1MW5A

Start Day	Start Time	End Day	End Time
3/20/2021	5:30:00 PM	3/20/2021	7:45:00 PM

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00100**

**Cause:** Partially treated raw sewage and Mixed Liquor escaped from the hatches of Reactors 1 and 2. Upon examination, An I/O card in the main PLC appear to be the culprit. This card misread the level in Reactor one, and continued to fill even after the lids were overflowing.

**EGLE Action:** The permittee has entered an Administrative Consent Order (ACO-05326) with WRD, effective 12/2/2019, to address alleged violations of NPDES Permit No. MI0056723. The compliance schedule outlined in the ACO is intended to work toward addressing facility operation and maintenance deficiencies leading to events such as this. The permittee has completed an assessment of facilities and a corrective action workplan. EGLE is currently reviewing the 2nd version of these documents, which were revised to address EGLE's initial review comments.

## 'Bypass' Detail Report January 1 - December 31, 2021

### Saddle Ridge Condo-Algoma

Submission ID. HP7-DGMJ-1MW5A

Start Day	Start Time	End Day	End Time
3/21/2021	6:00:00 AM	3/21/2021	9:30:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00050**

**Cause:** Partially treated raw sewage and Mixed Liquor escaped from the hatches of Reactors 1 and 2. Upon examination, An I/O card in the main PLC appear to be the culprit. This card misread the level in Reactor one, and continued to fill even after the lids were overflowing.

**EGLE Action:** The permittee has entered an Administrative Consent Order (ACO-05326) with WRD, effective 12/2/2019, to address alleged violations of NPDES Permit No. MI0056723. The compliance schedule outlined in the ACO is intended to work toward addressing facility operation and maintenance deficiencies leading to events such as this. The permittee has completed an assessment of facilities and a corrective action workplan. EGLE is currently reviewing the 2nd version of these documents, which were revised to address EGLE's initial review comments.

## 'Bypass' Detail Report January 1 - December 31, 2021

### Saddle Ridge Condo-Algoma

Submission ID. HPB-QPC1-G6ZPV

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.75
9/13/2021	10:00:00 AM	9/15/2021	10:40:00 AM	Waterbody: Rogue River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.05228</b>	

Cause: Partially treated Effluent. Ballast for Ultraviolet disinfection unit not functioning.

EGLE Action: Treatment system condition deficiencies are intended to be resolved through ACO-05326 entered by the permittee on 12/2/2019. The permittee has submitted, and EGLE has approved, its assessment of facilities and workplan for treatment system improvements. Part 41 applications for treatment system upgrades are expected Oct-Dec 2021.

### Totals Saddle Ridge Condo-Algoma

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.05383</b>	

## 'Bypass' Detail Report January 1 - December 31, 2021

### Sparta WWTP

#### Sparta WWTP

Submission ID. HP9-C6PD-4HE03

Start Day	Start Time	End Day	End Time
6/9/2021	11:45:00 AM	6/9/2021	11:46:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: Miscalculated remaining volume in sludge storage tank due to a faulty measuring device. Checked tank around 30 min before the transfer should have been complete and found the level in the tank at the very top but not yet overflowing. Immediately shut down transfer pump and opened decant valve but it was too late.

EGLE Action: Currently under review by EGLE.

#### Sparta WWTP

Submission ID. HPA-DXEQ-497T9

Start Day	Start Time	End Day	End Time
7/22/2021	3:30:00 PM	7/22/2021	11:00:00 PM

Rain(in.) = 0.25

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00250**

Cause: At the completion of stripping the primary clarifier, the operator failed to ensure the valve closed completely. This allowed water to continue to flow into the digester until it overflowed.

EGLE Action: The discharge event is currently under review by EGLE.



# 'Bypass' Detail Report January 1 - December 31, 2021

## Sparta WWTP

Submission ID. HPB-OTDZ-GYM05

Start Day	Start Time	End Day	End Time
8/10/2021	12:15:00 PM	8/10/2021	12:20:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Pump sack failed at hose connection and rapidly released several hundred gallons of concentrated duckweed, most of which returned to the pond.

EGLE Action: Currently under review by EGLE.

## Totals Sparta WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00290**

## County Totals Kent

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.06673**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Livingston

### Greenbrook Estates LLC

#### Greenbrook Estates LLC

Submission ID. HP7-ZAFT-0CJ96

Start Day	Start Time	End Day	End Time
4/7/2021	9:00:00 AM	4/8/2021	10:00:00 AM

Rain(in.) = 1

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	

Cause: Facility owner stated the liquid pump failure causing discharge to land.

EGLE Action: Violation Notice sent to address discharge

#### Totals Greenbrook Estates LLC

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00010</b>	

## 'Bypass' Detail Report January 1 - December 31, 2021

### Howell WWTP

#### Howell WWTP

Submission ID. HP9-JBEC-MWR05

Start Day	Start Time	End Day	End Time
6/8/2021	8:30:00 AM	6/8/2021	8:40:00 AM

Waterbody: Marion and Genoa Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Staff was draining the East primary clarifier for the construction project. The drain pit plugged with rags and backed up, causing primary sludge to overflow at the plant. About 50 gallons made it to the final effluent manhole just upstream of the UV channel. The primary sludge was diluted and went through disinfection.

EGLE Action: Issued CC-003382

#### Howell WWTP

Submission ID. HPC-7Y2V-MW6Q4

Start Day	Start Time	End Day	End Time
8/12/2021	2:00:00 AM	8/13/2021	7:45:00 AM

Rain(in.) = 5.1

Waterbody: Marion Genoa Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.60000**

Cause: The Wastewater Treatment Plant recorded 5 inches of rain on Thursday morning. The increase in flow at the plant maxed out our 900,000-gallon storage tank causing a Sanitary Sewer Overflow to occur on Pulford Street. Once the equilization tank was full, it spilled over onto the plant's yard.

EGLE Action: No further action taken at this time



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Bypass' Detail Report January 1 - December 31, 2021

Totals Howell WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.60005</b>	

County Totals Livingston

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.60015</b>	





# 'Bypass' Detail Report January 1 - December 31, 2021

## Marquette

### DNR-Parks & Rec-Van Riper

### DNR-Parks & Rec-Van Riper

Submission ID. HNT-SE9D-AE6ZV

Start Day	Start Time	End Day	End Time
10/26/2021	8:00:00 AM	10/26/2021	1:00:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.08845**

Cause: Seasonal discharge in campground setting. Buildings were closed for at least 2 weeks prior to discharge, allowing lagoons to dilute down further.

EGLE Action: No further action taken at this time

### Totals DNR-Parks & Rec-Van Riper

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.08845**

### County Totals Marquette

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.08845**

## 'Bypass' Detail Report January 1 - December 31, 2021

### Mecosta

#### Big Rapids WWTP

#### Big Rapids WWTP

Submission ID. HPB-8K GK-R5JRV

Start Day	Start Time	End Day	End Time
8/24/2021	11:07:00 PM	8/25/2021	12:05:00 AM

Rain(in.) = 1.01

Waterbody: Muskegon River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.06000**

**Cause:** At 11:07 pm, another Plant Operator received a U.V alarm call. Upon arrival, he found the U.V. lamps in channel 2 to be off. After cancelling the alarm and re-setting the operational parameters of the U.V. system, the lights in Channel 2 came back on and stayed on. The total length of time that Channel 2 remained off was 58 minutes. Estimated plant effluent flow through Channel 2 during this time period is estimated to be 50,000 to 60,000 gallons. All other treatment processes remained in service and functioned properly. So, the only treatment process that experienced an "Unanticipated Bypass" was U.V. disinfection in Channel 2.; It is our conclusion that the power outage and interruptions caused the U.V. control system to lose some setpoint information. In an effort to prevent this from happening again during and after a plant power interruption, we will double-check all operational parameters and settings of the U.V. control system.

**EGLE Action:** EGLE had the facility submit an explanation for what happened and how to prevent this incident from happening during power outages in the future. Also, EGLE required the facility treat this instance as an SSO.

#### Totals Big Rapids WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.06000**



## 'Bypass' Detail Report January 1 - December 31, 2021

County Totals

Mecosta

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.06000**

Monroe

Dundee WWTP

Dundee WWTP

Submission ID. HPC-2GFN-FDXNT

Start Day	Start Time	End Day	End Time
9/23/2021	2:00:00 AM	9/23/2021	11:45:00 PM

Rain(in.) = 3.7

Waterbody: River Raisin

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.08300**

Cause: 1.083 million gallons of partially treated, blended sewage discharged through outfall 001 to River Raisin due to blockage in raw influent line.

EGLE Action: Violation Notice pending

Totals

Dundee WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.08300**

County Totals

Monroe

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.08300**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Montcalm

### Carson City WWSL

#### Carson City WWSL

Submission ID. HPB-72D3-KDQK0

Start Day	Start Time	End Day	End Time
8/25/2021	7:00:00 AM	8/28/2021	7:15:00 AM

Waterbody: Fish Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**6.73200**

Cause: Due to Operators error during Spring discharge sewer lagoons are full and in need of short discharge to make room until October discharge period.

EGLE Action: EGLE issued Violation Notice VN-012448 to permittee on 11/1/2021.

#### Totals Carson City WWSL

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**6.73200**

## 'Bypass' Detail Report January 1 - December 31, 2021

### Greenville WWTP

#### Greenville WWTP

Submission ID. HPA-WY2P-T2WXH

Start Day	Start Time	End Day	End Time
8/11/2021	5:00:00 AM	8/11/2021	5:45:00 AM

Rain(in.) = 0.03

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.15000**

Cause: The discharge was primary treated waste that backed up and over flowed the clarifiers due to temporary power outage that caused the Trickling Filter Tower pumps to fail.

EGLE Action: Referred for escalated enforcement

#### Greenville WWTP

Submission ID. HPB-7X4B-JB6Z3

Start Day	Start Time	End Day	End Time
8/24/2021	7:15:00 PM	8/24/2021	7:45:00 PM

Rain(in.) = 2

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.01000**

Cause: High amount of rain in short period of time caused a second influent pump to kick on which gave the volume of water necessary to back up the back end of the plant and overflow the primary tanks before an operator could shut off the extra influent pumps that were running.

EGLE Action: Referred for escalated enforcement



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Bypass' Detail Report January 1 - December 31, 2021

**Totals** **Greenville WWTP**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.16000</b>	

**County Totals** **Montcalm**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>6.89200</b>	



# 'Bypass' Detail Report January 1 - December 31, 2021

## Oakland

### Oakland Co-Pontiac WWTP

#### Oakland Co-Pontiac WWTP

Submission ID. HP8-8WDS-6DJ91

Start Day	Start Time	End Day	End Time
4/25/2021	10:53:00 PM	4/26/2021	12:53:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause:      Biosolids processing cake bin #1 overfilled causing diluted raw sewage to overflow onto the asphalt drive and into catch basin 18 (see attached map).

EGLE Action:      No further action required.

#### Oakland Co-Pontiac WWTP

Submission ID.      HP9-TDZ4-83854

Start Day	Start Time	End Day	End Time
6/25/2021	8:53:00 PM	6/26/2021	1:03:00 AM

Rain(in.) = 2.74  
Waterbody: Clinton River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.00000**

Cause:      Blended partially treated sewage with fully treated effluent discharged from Monitoring Point 001A through Outfall 001. Occurred due to excessive rainfall.

EGLE Action:      Facility is under a consent decree

## 'Bypass' Detail Report January 1 - December 31, 2021

### Oakland Co-Pontiac WWTP

Submission ID.

HPA-GDRJ-  
MMCME

Start Day	Start Time	End Day	End Time
7/24/2021	9:47:00 PM	7/25/2021	1:26:00 AM

Rain(in.) = 1.75

Waterbody: Clinton River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**2.00000**

Cause: Blended partially treated sewage with fully treated effluent and was discharged from monitoring point 001A through outfall 001, occurred due to excessive rainfall in a extremely short time frame.

EGLE Action: Facility is under a concent decree

### Oakland Co-Pontiac WWTP

Submission ID.

HPA-R3CB-G7ADY

Start Day	Start Time	End Day	End Time
8/4/2021	10:09:00 PM	8/4/2021	10:14:00 PM

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.01300**

Cause: The discharge was backwashed tertiary wash water (this water is chlorinated plant effluent before the dichlorination process, used to backwash the Tertiary filters). Trash pump was being used to help lower the Wastewater Wash Tank and the discharge line broke.

EGLE Action: Facility is under a concent decree





## 'Bypass' Detail Report January 1 - December 31, 2021

### Oakland Co-Pontiac WWTP

Submission ID. HPB-YMDN-HAE57

Start Day	Start Time	End Day	End Time
9/23/2021	4:15:00 AM	9/23/2021	9:30:00 PM

Rain(in.) = 4.5  
Waterbody: Clinton River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>4.40000</b>	

Cause: Partially treated sewage mixed with fully treated plant effluent is being discharged from monitoring point 001A through outfall 001. Reason is due to excessive amount of rainfall.

EGLE Action: Reviewed Event. Actions in line with Wet Weather Flow Operation.

### Totals Oakland Co-Pontiac WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>8.41400</b>	

### County Totals Oakland

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>8.41400</b>	



# 'Bypass' Detail Report January 1 - December 31, 2021

Ottawa

Coopersville WWTP

Coopersville WWTP

Submission ID. HPA-BT1D-KSH28

Start Day	Start Time	End Day	End Time
7/20/2021	4:00:00 AM	7/20/2021	4:00:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.01100**

Cause: Debris clogged an Effluent grating screen caused a backup of the in-service Clarifiers, which in turn caused a backup and overflow of Aeration Pond #1 which flowed across the WWTP driveway into the internal storm management system and discharging to the WWTP Polishing Pond. We estimate approximately 11,000 gallons of partially treated wastewater was discharged from Aeration Pond #1. Due to the extensive clay layer in this area of Ottawa County, we believe there to be minimal impact to the surrounding area groundwater.

EGLE Action: A Violation Notice will be issued



# 'Bypass' Detail Report January 1 - December 31, 2021

## Coopersville WWTP

Submission ID. HPA-V7AK-VATGA

Start Day	Start Time	End Day	End Time
8/8/2021	8:30:00 AM	8/8/2021	12:30:00 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.15000</b>	

Cause: Sludge Pond 2 became overfilled and overflowed the berm into Sludge Pond 1

EGLE Action: Enforcement action is being evaluated

## Totals Coopersville WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.16100</b>	

## 'Bypass' Detail Report January 1 - December 31, 2021

### Holland WWTP

#### Holland WWTP

Submission ID. HPB-S508-8G6W4

Start Day	Start Time	End Day	End Time
9/15/2021	11:00:00 AM	9/15/2021	12:00:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00008**

Cause:      Foam from the secondary treatment process came up out of a manhole on the WRF west plant. Maintenance and operations staff that were cleaning up the foam inadvertently washed it into a storm drain catch basin on the WRF site. The foam then entered a ditch that runs to the main stormwater discharge point at the WRF West plant. This foam was found later in the evening sitting in the ditch as there was no water flow in the ditch as no precipitation occurred. The foam was intercepted and stopped prior to flowing down the ditch to the main discharge point.

EGLE Action:      No further action taken at this time

#### Totals      Holland WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00008**

#### County Totals      Ottawa

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.16108**

## 'Bypass' Detail Report January 1 - December 31, 2021

**Sanilac**

**Croswell WWTP**

**Croswell WWTP**

Submission ID. HPD-ZW8V-CK11M

Start Day	Start Time	End Day	End Time
12/13/2021	10:00:00 AM	12/13/2021	10:30:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

Cause: It appears that during the a wind storm on 12/12/21, there were electrical "brown outs" which burned out a start capacitor to one of the pump at the lift station, limiting this lift station to one pump. During this time, on 12-13-21, the station was Inundated with water greater than the pumping capacity of the pump, The wetwell filed spilling about 150 gallons in a shallow ditch, where it remained contained until we vactored it out on 12/13/21. There was no evidence that the sewage left that area. It was a short event as when the operator arrived to check the station, the wetwell was pump down.

EGLE Action: Compliance communication issued to addressed notification requirements for local health departments and local news agencies.

**Totals Croswell WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

**County Totals Sanilac**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Shiawassee

### Durand WWTP

#### Durand WWTP

Submission ID. HPB-66T3-TSXJE

Start Day	Start Time	End Day	End Time
8/12/2021	7:00:00 AM	8/12/2021	8:20:00 AM

Rain(in.) = 1.85  
Waterbody: Holly Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.06000</b>	

Cause: Partially treated wastewater due to heavy overnight rain. Most of the rain fell between 4-6 AM. We totaled 1.85" of rain

EGLE Action: Referred for escalated enforcement

#### Durand WWTP

Submission ID. HPC-DGR6-NEF68

Start Day	Start Time	End Day	End Time
8/27/2021	5:00:00 AM	8/27/2021	6:00:00 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00200</b>	

Cause: The discharge was raw sewage. It occurred when the auger float failed.

EGLE Action: Referred for escalated enforcement



## 'Bypass' Detail Report January 1 - December 31, 2021

### Durand WWTP

Submission ID. HPC-2HPM-F6C1F

Start Day	Start Time	End Day	End Time
9/23/2021	6:00:00 AM	9/23/2021	3:00:00 PM

Rain(in.) = 4.67  
Waterbody: Holly Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.17500**

Cause: The discharge was due to high rain fall totals over 5 days. Totaling 4.67" of rain. When the discharge started occurring; (9/23/2021), we had had 3.54" of rain.

EGLE Action: Referred for escalated enforcement

### Durand WWTP

Submission ID. HPC-Y5PG-9MQVX

Start Day	Start Time	End Day	End Time
10/25/2021	3:00:00 PM	10/25/2021	9:00:00 PM

Rain(in.) = 1.74  
Waterbody: Holly Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.06000**

Cause: Overflow was due to 1.74" of rain Sunday night into Monday. The ground in the area is still very saturated from previous heavy rains.

EGLE Action: Referred for escalated enforcement

### Totals Durand WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.29700**



MICHIGAN DEPARTMENT OF  
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## 'Bypass' Detail Report January 1 - December 31, 2021

County Totals

Shiawassee

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.29700**





# 'Bypass' Detail Report January 1 - December 31, 2021

## Tuscola

### Dairy Farmers of America-Cass

#### Dairy Farmers of America-Cass

Submission ID. HNN-QKTC-4EYW1

Start Day	Start Time	End Day	End Time
6/12/2021	7:00:00 AM	6/12/2021	7:25:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.07000**

Cause: Discharge was partially treated waste water (mixed liquor from bio-reactor). An underground pipe had broken and caused the mixed liquor to flow backwards out of the system and up to the ground surface. The pipe break occurred where the pipe exits the building.

EGLE Action: VN issued

#### Totals Dairy Farmers of America-Cass

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.07000**

#### County Totals Tuscola

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.07000**



## 'Bypass' Detail Report January 1 - December 31, 2021

### Van Buren

#### South Haven Area Water Sewer Authority WWTP

#### South Haven Area Water Sewer Authority WWTP

Submission ID. HP9-TA8V-Z6P9G

Start Day	Start Time	End Day	End Time
6/26/2021	9:00:00 PM	6/27/2021	12:30:00 AM

Rain(in.) = 7  
Waterbody: Black River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.10000**

Cause: Flow to the WWTP reached 11 MGD and stayed above 10 mgd long enough for the Final clarifiers to overflow. Due collection system I&I and 7" of rain in much of the collection system area over 2 days

EGLE Action: Event reviewed. Facility is looking into corrective actions. Violation Notice sent

#### Totals South Haven Area Water Sewer Authority WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.10000**

#### County Totals Van Buren

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.10000**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Wayne

### GLWA WRRF

### GLWA WRRF

Submission ID. HP6-YD07-SVRYT

Start Day	Start Time	End Day	End Time
2/23/2021	3:15:00 PM	2/23/2021	4:59:00 PM

Waterbody: Detroit River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.14000</b>	

Cause: Primary treated, chlorinated and dechlorinated effluent discharged out the Detroit River Outfall due to a control switch to primary effluent gates that malfunctioned.

EGLE Action: EGLE sent a compliance communication on 16 APR 21 addressing this discharge. No action required in the compliance communication.

### Totals GLWA WRRF

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.14000</b>	

## 'Bypass' Detail Report January 1 - December 31, 2021

### Grosse Ile Twp WWTP

#### Grosse Ile Twp WWTP

Submission ID. HPA-B3AG-CVBW6

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.1
7/17/2021	12:09:00 AM	7/17/2021	5:05:00 PM	Waterbody: Detroit River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**12.20000**

**Cause:** A total of 3.1 inches of rain fell on Friday 7-16-21 into Saturday 7-17-21 on Grosse Ile. The rain came very quickly and filled the sewer collection system to maximum capacity. The EQ Basin pumps were running at max pumping rate to keep the sewer system from endangering residents on Grosse Ile. The velocity of the water coming to the WWTP was unlike anything we have seen before. The plant wet well reached a height of 23 ft. Normal sewer height is 5.5 ft.

**EGLE Action:** Sixth Amended AACO-000023 is in effect. Per paragraph 3.23 of this Order, completion of construction to upgrade the sewerage system to meet the SSO Policy is 10/31/25.

#### Totals Grosse Ile Twp WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**12.20000**

## 'Bypass' Detail Report January 1 - December 31, 2021

### S Huron Valley UA WWTP

#### S Huron Valley UA WWTP

Submission ID. HP7-T2MX-84Z8T

Start Day	Start Time	End Day	End Time
4/5/2021	8:00:00 PM	4/5/2021	8:05:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: Class B Biosolids. Spill started at 1170 Hubbard Road and ended at Strasburg Road to the East (~3,696'). The spill was 0 to 2-foot wide (1' average), approximately 1/4" deep or less, and was sporadically on and off down the road (~1,848'). Contractor performing sludge hauling did not secure valve prior to driving away from the permitted farm field which was receiving the biosolids application.

EGLE Action: Enforcement Discretion

#### Totals S Huron Valley UA WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

#### County Totals Wayne

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**12.34030**



# 'Bypass' Detail Report January 1 - December 31, 2021

## Wexford

### Haring Twp WWTP

#### Haring Twp WWTP

Submission ID. HPC-8SWX-D6E75

Start Day	Start Time	End Day	End Time
10/6/2021	8:30:00 AM	10/6/2021	8:30:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: A discharge hose from a transfer pump shifted and fell off the edge of the treatment tank onto the ground. The pump was immediately shut off and the hose was returned to the treatment tank.

EGLE Action: No further action taken at this time

#### Totals Haring Twp WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

#### County Totals Wexford

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Bypass' Detail Report January 1 - December 31, 2021

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### Report Totals

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>217.88070</b>	



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Berrien

#### St Joseph CSO

#### St Joseph CSO

Start Day	Start Time	End Day	End Time
6/25/2021	8:00:00 AM	6/25/2021	10:29:00 AM

Rain(in.) = 1.7

Waterbody: Morrison Channel

Dilute Raw Sewage (MG)

**0.00050**

Cause Heavy Rainfall

Submission ID. HP9-QTW4-YAGDA

Permit MI0026735

Outfall 5

#### St Joseph CSO

Start Day	Start Time	End Day	End Time
6/26/2021	9:41:00 AM	6/27/2021	3:31:00 AM

Rain(in.) = 4.54

Waterbody: Morrison Channel

Dilute Raw Sewage (MG)

**0.00630**

Cause Heavy Rainfall

Submission ID. HP9-RQ37-BM79R

Permit MI0026735

Outfall 5

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## St Joseph CSO

Start Day	Start Time	End Day	End Time
6/29/2021	1:24:00 PM	6/29/2021	2:40:00 PM

Rain(in.) = 0.71  
Waterbody: Morrison Channel

Dilute Raw Sewage (MG)  
**0.00050**

Cause Heavy rain, rain.

Submission ID. HP9-V4Q7-5BSW3  
Permit MI0026735  
Outfall 5

## St Joseph CSO

Start Day	Start Time	End Day	End Time
8/10/2021	12:32:00 AM	8/10/2021	2:29:00 AM

Rain(in.) = 1.28  
Waterbody: Lake Michigan

Dilute Raw Sewage (MG)  
**0.00050**

Cause Heavy rainfall (1.21" over 1.5 hours)

Submission ID. HPA-VSV2-0DRCO  
Permit MI0026735  
Outfall 5

## St Joseph CSO

Start Day	Start Time	End Day	End Time
8/24/2021	8:49:00 PM	8/25/2021	10:02:00 PM

Rain(in.) = 2.26  
Waterbody: Morrison Channel

Dilute Raw Sewage (MG)  
**0.00050**

Cause Heavy rainfall. 1.21" over 2 hours and 45 minutes; 2.26" measured between 7:30 pm on 8/24 and 3:00 am on 8/25 at the Hawthorne Lift Station.

Submission ID. HPB-7D1F-VNP5F  
Permit MI0026735  
Outfall 5



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## St Joseph CSO

Start Day	Start Time	End Day	End Time
9/7/2021	6:02:00 PM	9/7/2021	7:47:00 PM

Rain(in.) = 2.52  
Waterbody: Morrison Channel

Submission ID. HPB-J9TK-PMD3W  
Permit MI0026735  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00050**

Cause High Intensity Rain Event

## St Joseph CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:15:00 AM	10/25/2021	12:53:00 PM

Rain(in.) = 2.71  
Waterbody: Morrison Channel

Submission ID. HPC-QRE4-51NJT  
Permit MI0026735  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00050**

Cause Heavy rainfall, high antecedent soil moisture content., and high Morrison Channel levels on the downstream side of the CSO 005 chamber.

## Totals St Joseph CSO

Dilute Raw Sewage (MG)  
**0.00930**

SOC: Permit requires completion of LTCP by dec 31, 2027

EGLE Action: Long-term Control Program being implemented. The City will complete ?I/I removal and construction of the wet weather storage on or before December 31, 2027.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

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County Totals

**Berrien**

Dilute Raw Sewage (MG)

**0.00930**

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MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

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contact Dan Beauchamp for further information: [beauchampd@michigan.gov](mailto:beauchampd@michigan.gov)



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Ingham

### Lansing WWTP

#### Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:00:00 PM	3/26/2021	10:00:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall 16

Dilute Raw Sewage (MG)

**0.43600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

#### Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:00:00 PM	3/26/2021	10:00:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall 24

Dilute Raw Sewage (MG)

**1.20400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

#### Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:00:00 PM	3/26/2021	9:30:00 AM

Rain(in.) = 1.12  
Waterbody: Red Cedar River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall 26

Dilute Raw Sewage (MG)

**0.29600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:00:00 PM	3/26/2021	11:15:00 AM

Rain(in.) = 1.12  
Waterbody: Red Cedar River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.27400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:00:00 PM	3/26/2021	9:00:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.17100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:15:00 PM	3/26/2021	9:15:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.11200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:30:00 PM	3/26/2021	10:45:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**1.18900**

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **15**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	8:30:00 PM	3/26/2021	9:45:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.59700**

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **9**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	9:00:00 PM	3/26/2021	10:00:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.46700**

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **17**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	9:15:00 PM	3/26/2021	9:45:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.26700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	9:15:00 PM	3/26/2021	11:15:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**2.57300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	9:15:00 PM	3/26/2021	10:30:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**3.15600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	9:30:00 PM	3/26/2021	10:30:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.74500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/25/2021	9:45:00 PM	3/26/2021	8:00:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.65000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
3/26/2021	2:00:00 AM	3/26/2021	6:00:00 AM

Rain(in.) = 1.12  
Waterbody: Grand River

Submission ID. HP7-GA6R-1RA53  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.18400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	8:00:00 AM	4/5/2021	2:45:00 PM

Rain(in.) = 0.21  
Waterbody: Red Cedar River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.00800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	8:00:00 AM	4/5/2021	12:00:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.02500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	8:15:00 AM	4/5/2021	1:00:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.06400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	8:30:00 AM	4/5/2021	12:45:00 PM

Rain(in.) = 0.21  
Waterbody: Red Cedar River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.04300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:00:00 AM	4/5/2021	12:15:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.01600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:00:00 AM	4/5/2021	1:00:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.17500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:00:00 AM	4/5/2021	12:45:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.08600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:15:00 AM	4/5/2021	2:00:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.17500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:30:00 AM	4/5/2021	1:00:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.06800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:30:00 AM	4/5/2021	12:45:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.03900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:45:00 AM	4/5/2021	1:30:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.10900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:45:00 AM	4/5/2021	2:45:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.35300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	9:45:00 AM	4/5/2021	1:45:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.44800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/5/2021	10:00:00 AM	4/5/2021	12:00:00 PM

Rain(in.) = 0.21  
Waterbody: Grand River

Submission ID. HP7-RZ1Z-2TPJ0  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.08500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	3:15:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.09200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	4:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.35600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	4:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.97900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	3:45:00 AM

Rain(in.) = 0.92  
Waterbody: Red Cedar River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.24200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	5:45:00 AM

Rain(in.) = 0.92  
Waterbody: Red Cedar River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.09900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	3:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.14000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:00:00 PM	4/11/2021	3:45:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.48800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:15:00 PM	4/11/2021	5:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.97200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:15:00 PM	4/11/2021	4:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.38100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:15:00 PM	4/11/2021	3:45:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.21800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:15:00 PM	4/11/2021	5:45:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**2.10200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:15:00 PM	4/11/2021	4:45:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**2.57300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:30:00 PM	4/11/2021	4:30:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.60900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	5:30:00 PM	4/11/2021	3:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.52300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/10/2021	6:00:00 PM	4/11/2021	2:00:00 AM

Rain(in.) = 0.92  
Waterbody: Grand River

Submission ID. HP7-XP9X-4FSK6  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.16300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	9:00:00 AM	4/29/2021	4:15:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.05500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	9:00:00 AM	4/29/2021	4:00:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.15100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	9:00:00 AM	4/29/2021	3:45:00 PM

Rain(in.) = 0.2  
Waterbody: Red Cedar River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.03700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	9:00:00 AM	4/29/2021	5:45:00 PM

Rain(in.) = 0.2  
Waterbody: Red Cedar River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.00700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	9:00:00 AM	4/29/2021	3:00:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.02200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	9:15:00 AM	4/29/2021	3:30:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.01400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	10:00:00 AM	4/29/2021	5:15:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.15200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:00:00 PM	4/29/2021	4:00:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.07400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:15:00 PM	4/29/2021	4:45:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall 12

Dilute Raw Sewage (MG)  
**0.09400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:15:00 PM	4/29/2021	4:15:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.05800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:15:00 PM	4/29/2021	3:45:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.03300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:15:00 PM	4/29/2021	5:45:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.29900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:15:00 PM	4/29/2021	4:45:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.38300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
4/29/2021	12:30:00 PM	4/29/2021	3:15:00 PM

Rain(in.) = 0.2  
Waterbody: Grand River

Submission ID. HP8-BTZE-JP1Y6  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.06200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	1:00:00 AM	5/26/2021	12:45:00 PM

Rain(in.) = 0.39  
Waterbody: Red Cedar River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	1:00:00 AM	5/26/2021	10:00:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.05300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	1:15:00 AM	5/26/2021	11:15:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall 16

Dilute Raw Sewage (MG)  
**0.13600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	1:30:00 AM	5/26/2021	11:00:00 AM

Rain(in.) = 0.39  
Waterbody: Red Cedar River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall 26

Dilute Raw Sewage (MG)  
**0.09200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:00:00 AM	5/26/2021	10:30:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall 11

Dilute Raw Sewage (MG)  
**0.03500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:00:00 AM	5/26/2021	11:00:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.37400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:00:00 AM	5/26/2021	11:00:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.18700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	11:45:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.23300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	12:15:00 PM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.37600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	11:15:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.14500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	10:15:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall 19

Dilute Raw Sewage (MG)  
**0.19300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	11:00:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.08300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	12:45:00 PM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.78500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:15:00 AM	5/26/2021	12:00:00 PM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.97200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/26/2021	6:30:00 AM	5/26/2021	7:15:00 AM

Rain(in.) = 0.39  
Waterbody: Grand River

Submission ID. HP9-08R7-KYMW4  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.06200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	10:00:00 PM	5/28/2021	2:45:00 PM

Rain(in.) = 0.45  
Waterbody: Red Cedar River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	10:00:00 PM	5/28/2021	1:00:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.05800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	10:15:00 PM	5/28/2021	1:15:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.14600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	10:30:00 PM	5/28/2021	1:00:00 PM

Rain(in.) = 0.45  
Waterbody: Red Cedar River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.08800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:00:00 PM	5/28/2021	12:30:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.03800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:00:00 PM	5/28/2021	1:00:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.40000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:00:00 PM	5/28/2021	1:15:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:15:00 PM	5/28/2021	2:15:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.39400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:15:00 PM	5/28/2021	1:00:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.08600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:30:00 PM	5/28/2021	1:30:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.15400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:30:00 PM	5/28/2021	2:45:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.79200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:30:00 PM	5/28/2021	2:00:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.99400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:45:00 PM	5/28/2021	2:00:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.24300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
5/27/2021	11:45:00 PM	5/28/2021	12:30:00 PM

Rain(in.) = 0.45  
Waterbody: Grand River

Submission ID. HP9-1W7Q-B81YP  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.14800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/12/2021	10:45:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.01200**

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **11**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/12/2021	11:30:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.04700**

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **16**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/13/2021	12:00:00 AM

Rain(in.) = 0.16  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.12800**

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **24**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/12/2021	11:15:00 PM

Rain(in.) = 0.16  
Waterbody: Red Cedar River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.03200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/13/2021	1:30:00 AM

Rain(in.) = 0.16  
Waterbody: Red Cedar River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.00600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/12/2021	11:00:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.01900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:00:00 PM	6/12/2021	11:15:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.06600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:15:00 PM	6/13/2021	12:00:00 AM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall 12

Dilute Raw Sewage (MG)  
**0.08100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:15:00 PM	6/13/2021	12:30:00 AM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.13400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:15:00 PM	6/12/2021	11:45:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:15:00 PM	6/12/2021	11:00:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.02900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:15:00 PM	6/13/2021	1:30:00 AM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.25800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:15:00 PM	6/13/2021	12:15:00 AM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.33200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:30:00 PM	6/12/2021	10:45:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.06400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/12/2021	9:45:00 PM	6/12/2021	10:00:00 PM

Rain(in.) = 0.16  
Waterbody: Grand River

Submission ID. HP9-F7RY-1R1ZD  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.00200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	6:00:00 AM	6/18/2021	12:30:00 PM

Rain(in.) = 0.32  
Waterbody: Red Cedar River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	6:00:00 AM	6/18/2021	10:00:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.04400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	6:15:00 AM	6/18/2021	10:30:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.11200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	10:15:00 AM

Rain(in.) = 0.32  
Waterbody: Red Cedar River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.07600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:00:00 AM	6/18/2021	9:45:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.02900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:00:00 AM	6/18/2021	11:30:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.31200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:00:00 AM	6/18/2021	11:00:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.30700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:00:00 AM	6/18/2021	10:15:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.15600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:15:00 AM	6/18/2021	11:00:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.19300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:15:00 AM	6/18/2021	10:45:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:15:00 AM	6/18/2021	9:45:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.16900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:15:00 AM	6/18/2021	10:00:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.06900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:15:00 AM	6/18/2021	12:30:00 PM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.64800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:15:00 AM	6/18/2021	11:15:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.80700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	7:30:00 AM	6/18/2021	8:15:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.04100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	8:16:00 AM	6/18/2021	10:43:00 AM

Rain(in.) = 0.32  
Waterbody: Grand River

Submission ID. HP9-JC6Y-6FY0X  
Permit MI0023400  
Outfall **10**

Dilute Raw Sewage (MG)  
**0.02520**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted. Overflow observed by field crew.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	4:45:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.04900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	5:30:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	6:00:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.52100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	5:15:00 AM

Rain(in.) = 0.52  
Waterbody: Red Cedar River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.12900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	7:45:00 AM

Rain(in.) = 0.52  
Waterbody: Red Cedar River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.02100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	5:00:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.07400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:00:00 PM	6/21/2021	5:15:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.26100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:15:00 PM	6/21/2021	6:30:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.52200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:15:00 PM	6/21/2021	5:45:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.20200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:15:00 PM	6/21/2021	5:00:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.11600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:30:00 PM	6/21/2021	6:15:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.32400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:30:00 PM	6/21/2021	4:45:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.27400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:30:00 PM	6/21/2021	7:45:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**1.09200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/20/2021	9:30:00 PM	6/21/2021	6:30:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.35300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/21/2021	3:15:00 AM	6/21/2021	4:15:00 AM

Rain(in.) = 0.52  
Waterbody: Grand River

Submission ID. HP9-MQGF-T4NQ1  
Permit MI0023400  
Outfall 8

Dilute Raw Sewage (MG)  
**0.06000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	4:45:00 PM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall 11

Dilute Raw Sewage (MG)  
**0.82200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	5:30:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall 16

Dilute Raw Sewage (MG)  
**2.68500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	5:30:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**3.63500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/26/2021	10:00:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**4.15900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	5:15:00 AM

Rain(in.) = 5.18  
Waterbody: Red Cedar River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**2.30300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	7:15:00 AM

Rain(in.) = 5.18  
Waterbody: Red Cedar River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**5.04100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	9:00:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.61000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:00:00 AM	6/27/2021	5:15:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**5.70700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:15:00 AM	6/27/2021	6:00:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**5.18300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:15:00 AM	6/27/2021	6:30:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**5.64000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:15:00 AM	6/27/2021	4:45:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**4.32300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:15:00 AM	6/27/2021	5:00:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**2.54300**

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **21**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:15:00 AM	6/27/2021	7:15:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**19.00000**

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **22**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:15:00 AM	6/27/2021	6:15:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**18.40000**

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **34**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	4:30:00 AM	6/26/2021	7:30:00 PM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**5.62500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	8:40:00 AM	6/26/2021	7:45:00 PM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **10**

Dilute Raw Sewage (MG)  
**0.57000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	9:25:00 AM	6/26/2021	9:00:00 AM

Rain(in.) = 5.18  
Waterbody: Grand River

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **47**

Dilute Raw Sewage (MG)  
**0.49600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	5:00:00 PM	6/26/2021	8:15:00 PM

Rain(in.) = 5.18  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**5.03400**

Submission ID. HP9-QWJ6-ZF98F  
Permit MI0023400  
Outfall **14**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	4:00:00 PM	6/29/2021	3:15:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.16800**

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **16**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	4:00:00 PM	6/29/2021	3:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.46100**

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **24**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	4:00:00 PM	6/29/2021	3:00:00 PM

Rain(in.) = 0.53  
Waterbody: Red Cedar River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.11500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	4:00:00 PM	6/29/2021	5:00:00 PM

Rain(in.) = 0.53  
Waterbody: Red Cedar River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	4:00:00 PM	6/29/2021	2:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.06600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	4:15:00 PM	6/29/2021	2:30:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.04400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	5:00:00 PM	6/29/2021	4:15:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.46600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:00:00 PM	6/29/2021	3:30:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.17900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:00:00 PM	6/29/2021	3:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.23000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:15:00 PM	6/29/2021	3:45:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall 12

Dilute Raw Sewage (MG)  
**0.28600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:15:00 PM	6/29/2021	2:15:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall 19

Dilute Raw Sewage (MG)  
**0.23400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:15:00 PM	6/29/2021	3:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.10300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:15:00 PM	6/29/2021	5:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.94200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:15:00 PM	6/29/2021	4:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.18900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	7:30:00 PM	6/29/2021	1:00:00 PM

Rain(in.) = 0.53  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.09200**

Submission ID. HP9-VXZW-QE25K  
Permit MI0023400  
Outfall **8**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:00:00 AM	7/8/2021	4:45:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.02400**

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **11**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:00:00 AM	7/8/2021	5:30:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.09200**

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **16**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:00:00 AM	7/8/2021	6:00:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.25200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:00:00 AM	7/8/2021	5:15:00 AM

Rain(in.) = 0.27  
Waterbody: Red Cedar River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.06300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:00:00 AM	7/8/2021	5:00:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.03600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:15:00 AM	7/8/2021	5:15:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.12800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:30:00 AM	7/8/2021	6:30:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.25600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:30:00 AM	7/8/2021	5:45:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.09800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:30:00 AM	7/8/2021	5:00:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.05700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:45:00 AM	7/8/2021	7:45:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.52500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	2:45:00 AM	7/8/2021	6:30:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.65900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	3:00:00 AM	7/8/2021	6:15:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.15800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	3:00:00 AM	7/8/2021	4:45:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.13900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	3:00:00 AM	7/8/2021	7:45:00 AM

Rain(in.) = 0.27  
Waterbody: Red Cedar River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	3:15:00 AM	7/8/2021	4:45:00 AM

Rain(in.) = 0.27  
Waterbody: Grand River

Submission ID. HPA-27QF-C1Y0J  
Permit MI0023400  
Outfall 8

Dilute Raw Sewage (MG)  
**0.06900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:00:00 PM	7/13/2021	10:30:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall 11

Dilute Raw Sewage (MG)  
**0.03300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:00:00 PM	7/13/2021	11:15:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall 16

Dilute Raw Sewage (MG)  
**0.12800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:00:00 PM	7/13/2021	11:00:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.35300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:00:00 PM	7/13/2021	10:45:00 PM

Rain(in.) = 0.38  
Waterbody: Red Cedar River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.08700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:00:00 PM	7/13/2021	10:00:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.05100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:15:00 PM	7/13/2021	11:00:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.17200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:30:00 PM	7/14/2021	12:15:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.35300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:30:00 PM	7/13/2021	11:15:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.13600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:30:00 PM	7/13/2021	10:45:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.07700**

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **21**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:45:00 PM	7/14/2021	1:00:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.71600**

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **22**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	2:45:00 PM	7/13/2021	11:45:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.90500**

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **34**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	3:00:00 PM	7/13/2021	11:45:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.21700**

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **12**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	3:00:00 PM	7/13/2021	10:15:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.16600**

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **19**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	3:00:00 PM	7/14/2021	1:00:00 AM

Rain(in.) = 0.38  
Waterbody: Red Cedar River

Dilute Raw Sewage (MG)  
**0.01500**

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **32**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	8:30:00 PM	7/13/2021	9:15:00 PM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-6TT2-7GGQM  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.03700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	1:00:00 PM	7/23/2021	11:30:00 PM

Rain(in.) = 0.19  
Waterbody: Red Cedar River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.00700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	1:00:00 PM	7/23/2021	9:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.02200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	1:15:00 PM	7/23/2021	9:30:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.05600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	1:30:00 PM	7/23/2021	9:15:00 PM

Rain(in.) = 0.19  
Waterbody: Red Cedar River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.03800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:00:00 PM	7/23/2021	8:45:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.01400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:00:00 PM	7/23/2021	10:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.15200**

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **24**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:00:00 PM	7/23/2021	9:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.07800**

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **9**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	10:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.09600**

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **12**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	10:30:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.15800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	9:45:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.05900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	8:45:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall 19

Dilute Raw Sewage (MG)  
**0.07900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	9:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.03400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	11:30:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.30900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:15:00 PM	7/23/2021	10:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.39400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/23/2021	7:45:00 PM	7/23/2021	8:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.01400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

Submission ID. HPA-GD3A-6P1H6  
Permit MI0023400  
Outfall **8**

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	8:45:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.05800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **11**

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	10:15:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.38400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **12**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	10:30:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.41900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:45:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall 16

Dilute Raw Sewage (MG)  
**0.22200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:45:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.23900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:00:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.37400**

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **19**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:15:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.14400**

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **21**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/25/2021	12:00:00 AM

Rain(in.) = 0.57  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**1.31600**

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **22**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	10:00:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.77700**

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **24**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:15:00 PM

Rain(in.) = 0.57  
Waterbody: Red Cedar River

Dilute Raw Sewage (MG)  
**0.15200**

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **26**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/25/2021	12:00:00 AM

Rain(in.) = 0.57  
Waterbody: Red Cedar River

Dilute Raw Sewage (MG)  
**0.02500**

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **32**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	10:30:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.62300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:00:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:00:00 PM	7/24/2021	9:15:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.30500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:15:00 PM	7/24/2021	8:15:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **10**

Dilute Raw Sewage (MG)  
**0.00600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:15:00 PM	7/24/2021	8:15:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.54200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	7:30:00 PM	7/24/2021	8:30:00 PM

Rain(in.) = 0.57  
Waterbody: Grand River

Submission ID. HPA-KCKK-JRDGN  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.20200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	4:30:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.01100**

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **11**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	5:15:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.04100**

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **16**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	5:00:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.11200**

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **24**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	5:00:00 AM

Rain(in.) = 0.15  
Waterbody: Red Cedar River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.02800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	6:45:00 AM

Rain(in.) = 0.15  
Waterbody: Red Cedar River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.00500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	4:00:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.01600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:00:00 AM	8/1/2021	5:00:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.05600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:15:00 AM	8/1/2021	6:15:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.11500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:15:00 AM	8/1/2021	5:30:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.04400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:15:00 AM	8/1/2021	5:00:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.02500**

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **21**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:15:00 AM	8/1/2021	6:45:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.21900**

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **22**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:15:00 AM	8/1/2021	6:00:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.28500**

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **34**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:30:00 AM	8/1/2021	5:45:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.07000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:30:00 AM	8/1/2021	4:15:00 AM

Rain(in.) = 0.15  
Waterbody: Grand River

Submission ID. HPA-NQ7F-VEYZJ  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.04800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:00:00 AM	8/10/2021	5:45:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.13900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:00:00 AM	8/10/2021	6:00:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.38500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:00:00 AM	8/10/2021	5:15:00 AM

Rain(in.) = 0.38  
Waterbody: Red Cedar River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.09500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:00:00 AM	8/10/2021	7:45:00 AM

Rain(in.) = 0.38  
Waterbody: Red Cedar River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:00:00 AM	8/10/2021	5:00:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.05600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **46**

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:15:00 AM	8/10/2021	4:45:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.03600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **11**

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:30:00 AM	8/10/2021	6:30:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.35000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **15**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	2:30:00 AM	8/10/2021	5:15:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.19500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:00:00 AM	8/10/2021	6:15:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall 12

Dilute Raw Sewage (MG)  
**0.24000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:00:00 AM	8/10/2021	5:45:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.14900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:00:00 AM	8/10/2021	4:45:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.22500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:00:00 AM	8/10/2021	5:15:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.08600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:00:00 AM	8/10/2021	7:45:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.81500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:00:00 AM	8/10/2021	6:30:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.00900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:15:00 AM	8/10/2021	4:15:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.23700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/10/2021	3:30:00 AM	8/10/2021	4:30:00 AM

Rain(in.) = 0.38  
Waterbody: Grand River

Submission ID. HPA-W1V5-RK094  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	2:00:00 PM	8/12/2021	9:15:00 AM

Rain(in.) = 3.72  
Waterbody: Red Cedar River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**7.27100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	2:00:00 PM	8/12/2021	6:00:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**1.17400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	2:15:00 PM	8/12/2021	6:45:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**3.04400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	2:30:00 PM	8/12/2021	6:15:00 AM

Rain(in.) = 3.72  
Waterbody: Red Cedar River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**3.15600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:00:00 PM	8/12/2021	5:45:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.99400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:00:00 PM	8/12/2021	7:00:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**8.52700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:00:00 PM	8/12/2021	8:00:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**7.77900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	7:15:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall 12

Dilute Raw Sewage (MG)  
**6.19300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	12:45:00 PM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**5.51300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	11:00:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**5.28100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	6:00:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall 19

Dilute Raw Sewage (MG)  
**4.08400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	6:15:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall 21

Dilute Raw Sewage (MG)  
**3.41100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	9:15:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**22.29000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:15:00 PM	8/12/2021	7:30:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**20.72000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/11/2021	10:45:00 PM	8/12/2021	5:15:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**8.90100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/12/2021	12:15:00 AM	8/12/2021	6:00:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**8.00400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/12/2021	1:00:00 PM	8/12/2021	5:15:00 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Submission ID. HPA-XSB3-Q3GNJ  
Permit MI0023400  
Outfall **10**

Dilute Raw Sewage (MG)  
**1.17400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	8:45:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.05100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	10:15:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.34000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	10:30:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.39700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:45:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.19700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:45:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.21100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:00:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.32900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:15:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.12200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/25/2021	12:00:00 AM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**1.16600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	10:00:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.64300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:15:00 PM

Rain(in.) = 0.51  
Waterbody: Red Cedar River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.13400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/25/2021	12:00:00 AM

Rain(in.) = 0.51  
Waterbody: Red Cedar River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.02200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	10:30:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.42800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:00:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.09900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:00:00 PM	8/24/2021	9:15:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.27300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:15:00 PM	8/24/2021	8:15:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall 10

Dilute Raw Sewage (MG)  
**0.00200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:15:00 PM	8/24/2021	8:15:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall 8

Dilute Raw Sewage (MG)  
**0.45100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/24/2021	7:30:00 PM	8/24/2021	8:30:00 PM

Rain(in.) = 0.51  
Waterbody: Grand River

Submission ID. HPB-7RF9-AG7K8  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.15200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	6:45:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.02100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	8:30:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.23000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	7:45:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.08100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	7:45:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.08700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	8:00:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.22200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	7:15:00 PM

Rain(in.) = 0.24  
Waterbody: Red Cedar River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.05500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	9:45:00 PM

Rain(in.) = 0.24  
Waterbody: Red Cedar River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	7:00:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.03200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:00:00 PM	8/29/2021	7:15:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.11400**

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **9**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:15:00 PM	8/29/2021	8:15:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.14000**

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **12**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:15:00 PM	8/29/2021	6:45:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.12400**

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **19**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:15:00 PM	8/29/2021	7:15:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:15:00 PM	8/29/2021	9:45:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.46500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:15:00 PM	8/29/2021	8:30:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.58300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:30:00 PM	8/29/2021	6:15:00 PM

Rain(in.) = 0.24  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.07500**

Submission ID. HPB-BQRX-ZP39J  
Permit MI0023400  
Outfall **8**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	5:00:00 PM	9/7/2021	11:30:00 PM

Rain(in.) = 0.19  
Waterbody: Red Cedar River

Dilute Raw Sewage (MG)  
**0.00700**

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **32**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	5:00:00 PM	9/7/2021	9:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.02200**

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **46**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	5:15:00 PM	9/7/2021	10:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.05500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	5:30:00 PM	9/7/2021	10:00:00 PM

Rain(in.) = 0.19  
Waterbody: Red Cedar River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.03700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:00:00 PM	9/7/2021	9:30:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.01400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:00:00 PM	9/7/2021	10:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.14900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:00:00 PM	9/7/2021	10:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.07400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	10:45:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.09200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	11:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.15200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	10:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.05800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	9:15:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall 19

Dilute Raw Sewage (MG)  
**0.06300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	10:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.03300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	11:30:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.29700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	11:00:00 PM

Rain(in.) = 0.19  
Waterbody: Grand River

Submission ID. HPB-JRJF-E05XA  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.37800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	2:45:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.09600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	3:45:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.35500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	4:00:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**1.36800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	3:15:00 PM

Rain(in.) = 0.89  
Waterbody: Red Cedar River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.26600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	6:00:00 PM

Rain(in.) = 0.89  
Waterbody: Red Cedar River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.08600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	3:00:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.20700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:00:00 AM	9/13/2021	3:30:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.61700**

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **9**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:15:00 AM	9/13/2021	4:30:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.59000**

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **15**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:15:00 AM	9/13/2021	3:15:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.31800**

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **21**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:30:00 AM	9/13/2021	3:45:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.41700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:30:00 AM	9/13/2021	6:00:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**2.07200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:30:00 AM	9/13/2021	4:30:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**2.52000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:45:00 AM	9/13/2021	4:15:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.62700**

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **12**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	7:45:00 AM	9/13/2021	3:00:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.57300**

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **19**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	1:00:00 PM	9/13/2021	2:15:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.04200**

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **10**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	1:00:00 PM	9/13/2021	2:15:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.85200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/13/2021	1:15:00 PM	9/13/2021	2:45:00 PM

Rain(in.) = 0.89  
Waterbody: Grand River

Submission ID. HPB-QFAX-3XMF6  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.37100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 AM	9/23/2021	9:45:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.73400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 AM	9/22/2021	5:00:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.88200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 AM	9/23/2021	9:30:00 PM

Rain(in.) = 2.01  
Waterbody: Red Cedar River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.49600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 AM	9/23/2021	10:45:00 PM

Rain(in.) = 2.01  
Waterbody: Red Cedar River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.93500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 AM	9/22/2021	5:00:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.12700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	11:15:00 AM	9/23/2021	9:15:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	12:00:00 PM	9/23/2021	10:45:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**1.98200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:00:00 PM	9/23/2021	9:45:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall 9

Dilute Raw Sewage (MG)  
**0.97200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:15:00 PM	9/23/2021	10:30:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall 12

Dilute Raw Sewage (MG)  
**1.23400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:15:00 PM	9/23/2021	10:00:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.77700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:15:00 PM	9/23/2021	6:15:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.88200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:15:00 PM	9/23/2021	9:45:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.43900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:15:00 PM	9/23/2021	10:45:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**4.18900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/21/2021	7:15:00 PM	9/23/2021	10:30:00 PM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**5.16100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	1:15:00 AM	9/23/2021	3:15:00 AM

Rain(in.) = 2.01  
Waterbody: Grand River

Submission ID. HPB-ZCFP-8AH6Z  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.16300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	4:00:00 AM	10/4/2021	6:30:00 PM

Rain(in.) = 0.69  
Waterbody: Red Cedar River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.02500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	4:00:00 AM	10/4/2021	10:00:00 AM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.07300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	4:15:00 AM	10/4/2021	5:15:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.22100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	4:30:00 AM	10/4/2021	5:00:00 PM

Rain(in.) = 0.69  
Waterbody: Red Cedar River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.15000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	1:00:00 PM	10/4/2021	10:00:00 AM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.47500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	1:15:00 PM	10/4/2021	4:30:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.05700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	1:45:00 PM	10/4/2021	6:15:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.60200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:00:00 PM	10/4/2021	5:30:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.23400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:00:00 PM	10/4/2021	5:15:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.29600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:15:00 PM	10/4/2021	6:00:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.37100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:15:00 PM	10/4/2021	4:15:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.26800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:15:00 PM	10/4/2021	5:00:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.13300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:15:00 PM	10/4/2021	6:30:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**1.21100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/3/2021	2:15:00 PM	10/4/2021	6:00:00 PM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.52600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/4/2021	9:15:00 AM	10/4/2021	10:15:00 AM

Rain(in.) = 0.69  
Waterbody: Grand River

Submission ID. HPC-78J8-9HCEB  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.03200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	8:00:00 AM	10/9/2021	1:15:00 AM

Rain(in.) = 1.01  
Waterbody: Red Cedar River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.16400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	8:00:00 AM	10/8/2021	11:00:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.20400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	8:15:00 AM	10/8/2021	11:30:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.38600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	8:30:00 AM	10/8/2021	11:15:00 PM

Rain(in.) = 1.01  
Waterbody: Red Cedar River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.26400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons  
CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/8/2021	10:45:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.10000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/9/2021	12:30:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.81500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/8/2021	11:45:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.41400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/8/2021	11:00:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.25000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/9/2021	1:15:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**2.26600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/9/2021	12:00:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**1.35300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/9/2021	12:15:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**2.78200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:00:00 AM	10/8/2021	11:15:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.53000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:15:00 AM	10/9/2021	12:00:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.66000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:15:00 AM	10/8/2021	10:45:00 PM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.61100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:15:00 AM	10/8/2021	11:15:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.74200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	9:45:00 AM	10/8/2021	11:30:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.24700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/8/2021	10:15:00 AM	10/8/2021	11:15:00 AM

Rain(in.) = 1.01  
Waterbody: Grand River

Submission ID. HPC-CQJE-86ZPE  
Permit MI0023400  
Outfall **10**

Dilute Raw Sewage (MG)  
**0.00200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	4:45:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.02800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	5:45:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.10600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	5:45:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.11500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	7:45:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.62000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	5:15:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.06600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	6:00:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.29300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	5:15:00 PM

Rain(in.) = 0.3  
Waterbody: Red Cedar River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.07300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	7:45:00 PM

Rain(in.) = 0.3  
Waterbody: Red Cedar River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	6:30:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.77000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	5:00:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.04200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:00:00 PM	10/14/2021	5:15:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.15000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:15:00 PM	10/14/2021	6:15:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.18500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:15:00 PM	10/14/2021	6:30:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.29000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:15:00 PM	10/14/2021	4:45:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.16900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:30:00 PM	10/14/2021	4:15:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.15100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/14/2021	3:45:00 PM	10/14/2021	4:30:00 PM

Rain(in.) = 0.3  
Waterbody: Grand River

Submission ID. HPC-FVC4-1V0X4  
Permit MI0023400  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:00:00 PM	10/16/2021	5:30:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.02700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:00:00 PM	10/16/2021	6:15:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.10600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:00:00 PM	10/16/2021	6:00:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.29100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:00:00 PM	10/16/2021	5:45:00 AM

Rain(in.) = 0.35  
Waterbody: Red Cedar River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.07200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:00:00 PM	10/16/2021	7:15:00 AM

Rain(in.) = 0.35  
Waterbody: Red Cedar River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:00:00 PM	10/16/2021	5:00:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.04200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:15:00 PM	10/16/2021	6:00:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.13900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:30:00 PM	10/16/2021	7:15:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall 15

Dilute Raw Sewage (MG)  
**0.28700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:30:00 PM	10/16/2021	5:45:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall 21

Dilute Raw Sewage (MG)  
**0.06300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	4:45:00 PM	10/16/2021	6:15:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall 17

Dilute Raw Sewage (MG)  
**0.11200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	5:00:00 PM	10/16/2021	6:45:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.17800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	5:00:00 PM	10/16/2021	7:15:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.57100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	5:00:00 PM	10/16/2021	6:45:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.72800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/15/2021	5:30:00 PM	10/16/2021	5:00:00 AM

Rain(in.) = 0.35  
Waterbody: Grand River

Submission ID. HPC-J6JQ-A6HZN  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.11500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:00:00 AM	10/21/2021	7:15:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.08600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:00:00 AM	10/21/2021	7:00:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.23800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:00:00 AM	10/21/2021	6:45:00 AM

Rain(in.) = 0.26  
Waterbody: Red Cedar River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.05900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:00:00 AM	10/21/2021	9:00:00 AM

Rain(in.) = 0.26  
Waterbody: Red Cedar River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:00:00 AM	10/21/2021	6:00:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.03400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:00:00 AM	10/21/2021	6:00:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.06200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	3:15:00 AM	10/21/2021	6:30:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.02200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:00:00 AM	10/21/2021	8:15:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.24300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:00:00 AM	10/21/2021	7:15:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.09200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:00:00 AM	10/21/2021	6:45:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.05300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:00:00 AM	10/21/2021	9:00:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**0.49700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:00:00 AM	10/21/2021	8:00:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**0.62100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:00:00 AM	10/21/2021	7:00:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:15:00 AM	10/21/2021	7:45:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.14900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/21/2021	4:15:00 AM	10/21/2021	6:15:00 AM

Rain(in.) = 0.26  
Waterbody: Grand River

Submission ID. HPC-NCCY-P85QC  
Permit MI0023400  
Outfall 19

Dilute Raw Sewage (MG)  
**0.12800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:00:00 PM	10/25/2021	5:15:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall 11

Dilute Raw Sewage (MG)  
**0.17500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:00:00 PM	10/25/2021	10:15:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall 16

Dilute Raw Sewage (MG)  
**0.68100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:00:00 PM	10/25/2021	6:00:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**1.87700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:00:00 PM	10/25/2021	10:00:00 PM

Rain(in.) = 1.74  
Waterbody: Red Cedar River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.46300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:00:00 PM	10/25/2021	7:00:00 PM

Rain(in.) = 1.74  
Waterbody: Red Cedar River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.80700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:00:00 PM	10/25/2021	10:00:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.26800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:15:00 PM	10/25/2021	5:45:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.92700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:30:00 PM	10/25/2021	6:45:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**1.84700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:30:00 PM	10/25/2021	5:45:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.41500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	8:45:00 PM	10/25/2021	6:00:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.73000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	9:00:00 PM	10/25/2021	6:30:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**1.16600**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	9:00:00 PM	10/25/2021	7:00:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**4.03900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	9:00:00 PM	10/25/2021	6:30:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**4.93700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	9:15:00 PM	10/25/2021	3:30:00 PM

Rain(in.) = 1.74  
Waterbody: Grand River

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.99400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	11:00:00 PM	10/25/2021	12:30:00 AM

Rain(in.) = 1.74  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.19500**

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **8**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
10/24/2021	11:30:00 PM	10/25/2021	12:15:00 AM

Rain(in.) = 1.74  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.00700**

Submission ID. HPC-QR7K-8V9S7  
Permit MI0023400  
Outfall **14**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	11:00:00 AM	11/17/2021	11:30:00 PM

Rain(in.) = 0.54  
Waterbody: Red Cedar River

Dilute Raw Sewage (MG)  
**0.02200**

Submission ID. HPD-ANQG-8KQ55  
Permit MI0023400  
Outfall **32**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	11:00:00 AM	11/17/2021	9:00:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **46**

Dilute Raw Sewage (MG)  
**0.07800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	11:15:00 AM	11/17/2021	9:30:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **16**

Dilute Raw Sewage (MG)  
**0.19800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	11:30:00 AM	11/17/2021	9:15:00 PM

Rain(in.) = 0.54  
Waterbody: Red Cedar River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **26**

Dilute Raw Sewage (MG)  
**0.13400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	3:00:00 PM	11/17/2021	10:00:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **24**

Dilute Raw Sewage (MG)  
**0.54400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	3:15:00 PM	11/17/2021	8:45:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.05100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	3:45:00 PM	11/17/2021	10:30:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.54400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	4:15:00 PM	11/17/2021	9:30:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.21200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	4:15:00 PM	11/17/2021	9:00:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.12100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	4:15:00 PM	11/17/2021	11:30:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**1.15900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	4:15:00 PM	11/17/2021	10:15:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**1.42800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	4:30:00 PM	11/17/2021	10:00:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.34000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	4:30:00 PM	11/17/2021	8:45:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **19**

Dilute Raw Sewage (MG)  
**0.30100**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	6:00:00 PM	11/17/2021	7:15:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **8**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
11/17/2021	6:00:00 PM	11/17/2021	9:15:00 PM

Rain(in.) = 0.54  
Waterbody: Grand River

Submission ID. HPD-ANQG-8KQS5  
Permit MI0023400  
Outfall **9**

Dilute Raw Sewage (MG)  
**0.27300**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	7:00:00 PM	12/11/2021	6:00:00 AM

Rain(in.) = 0.82  
Waterbody: Red Cedar River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **32**

Dilute Raw Sewage (MG)  
**0.03500**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	7:00:00 PM	12/11/2021	8:00:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.14800**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **46**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	7:15:00 PM	12/11/2021	8:30:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.30800**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **16**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	7:30:00 PM	12/11/2021	8:15:00 AM

Rain(in.) = 0.82  
Waterbody: Red Cedar River

Dilute Raw Sewage (MG)  
**0.21000**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **26**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:00:00 PM	12/11/2021	3:15:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.08000**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **11**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:00:00 PM	12/11/2021	8:00:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.97900**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **24**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:00:00 PM	12/11/2021	3:45:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.42400**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **9**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:15:00 PM	12/11/2021	4:30:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **12**

Dilute Raw Sewage (MG)  
**0.52800**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:15:00 PM	12/11/2021	5:00:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **15**

Dilute Raw Sewage (MG)  
**0.69200**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:15:00 PM	12/11/2021	8:30:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **17**

Dilute Raw Sewage (MG)  
**0.33000**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:15:00 PM	12/11/2021	3:45:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **21**

Dilute Raw Sewage (MG)  
**0.19400**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:15:00 PM	12/11/2021	6:00:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **22**

Dilute Raw Sewage (MG)  
**1.81700**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:15:00 PM	12/11/2021	4:45:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **34**

Dilute Raw Sewage (MG)  
**2.22900**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/10/2021	8:30:00 PM	12/11/2021	3:00:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.48000**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **19**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/11/2021	1:00:00 AM	12/11/2021	2:15:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.47200**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **8**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

### Lansing WWTP

Start Day	Start Time	End Day	End Time
12/11/2021	1:15:00 AM	12/11/2021	2:30:00 AM

Rain(in.) = 0.82  
Waterbody: Grand River

Dilute Raw Sewage (MG)  
**0.15400**

Submission ID. HPD-Y8WY-5HBAX  
Permit MI0023400  
Outfall **14**

Cause Combined stormwater and sewage. CSO was due to rainfall. Discharge was not disinfected. Only the surface water was impacted.

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

**Totals** | **Lansing WWTP**

Dilute Raw Sewage (MG)

**376.03020**

SOC: CSO/SSO elimination

EGLE Action: Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

**County Totals** | **Ingham**

Dilute Raw Sewage (MG)

**376.03020**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## St. Clair

### Port Huron WWTP

#### Port Huron WWTP

Start Day	Start Time	End Day	End Time
1/1/2021	7:30:00 PM	1/1/2021	8:30:00 PM

Rain(in.) = 0.29  
Waterbody: Black River

Submission ID. HP5-HMAK-GRN1K  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)

**0.00600**

Cause Combined sewer overflow due to rain event. 6,000 gallons of combined wastewater was discharged, of which approximately 363 gallons was sanitary wastewater.

#### Port Huron WWTP

Start Day	Start Time	End Day	End Time
1/3/2021	2:30:00 PM	1/3/2021	3:30:00 PM

Rain(in.) = 0.34  
Waterbody: Black River

Submission ID. HP5-HMRY-4JVVH  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)

**0.00800**

Cause Combined sewer overflow due to rain event. 8,000 gallons of combined wastewater was discharged, of which approximately 298 gallons was sanitary wastewater.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
1/27/2021	11:00:00 AM	1/27/2021	12:00:00 PM

Rain(in.) = 0.23  
Waterbody: Black River

Submission ID. HP6-4G5E-FS8HP  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00400**

Cause Combined sewer overflow due to snow melt. 4,000 gallons of combined wastewater was discharged, of which approximately 805 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
2/15/2021	10:00:00 AM	2/15/2021	11:00:00 AM

Rain(in.) = 0.28  
Waterbody: Black River

Submission ID. HP6-QA37-XG25Y  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00600**

Cause Combined sewer overflow due to snow melt. 6,000 gallons of combined wastewater was discharged, of which approximately 350 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
2/21/2021	1:00:00 PM	2/21/2021	2:00:00 PM

Rain(in.) = 0.22  
Waterbody: Black River

Submission ID. HP6-QAHH-A3Z13  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00400**

Cause Combined sewer overflow due to snow melt. 4,000 gallons of combined wastewater was discharged, of which approximately 660 gallons was sanitary wastewater.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
2/23/2021	3:30:00 PM	2/23/2021	6:00:00 PM

Rain(in.) = 0.3  
Waterbody: Black River

Submission ID. HP6-TGC4-NFHJV  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00700**

Cause Combined sewer overflow due to snow melt. 7,000 gallons of combined wastewater was discharged, of which approximately 1,050 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
3/26/2021	3:30:00 AM	3/27/2021	3:00:00 AM

Rain(in.) = 2.04  
Waterbody: Black River

Submission ID. HP7-S103-P6JWB  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.19500**

Cause Combined sewer overflow due to rain event. 195,000 gallons of combined wastewater was discharged, of which approximately 2,000 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
3/28/2021	1:00:00 AM	3/29/2021	3:00:00 AM

Rain(in.) = 0.65  
Waterbody: Black River

Submission ID. HP7-S1BK-JMX6K  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.02600**

Cause Combined sewer overflow due to rain event. 26,000 gallons of combined wastewater was discharged, of which approximately 1,544 gallons was sanitary wastewater.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Submission ID. HP8-BWQ7-383XC  
Permit MI0023833  
Outfall 5

Start Day	Start Time	End Day	End Time
4/29/2021	1:00:00 PM	4/29/2021	7:00:00 PM

Rain(in.) = 0.33  
Waterbody: Black River

Dilute Raw Sewage (MG)  
**0.00800**

Cause Combined sewer overflow due to rain event. 8,000 gallons of combined wastewater was discharged, of which approximately 908 gallons was sanitary wastewater.

## Port Huron WWTP

Submission ID. HP8-YPEW-3GN1S  
Permit MI0023833  
Outfall 5

Start Day	Start Time	End Day	End Time
5/22/2021	12:00:00 PM	5/22/2021	2:30:00 PM

Rain(in.) = 0.32  
Waterbody: Black River

Dilute Raw Sewage (MG)  
**0.00800**

Cause Combined sewer overflow due to rain event. 8,000 gallons of combined wastewater was discharged, of which approximately 320 gallons was sanitary wastewater.

## Port Huron WWTP

Submission ID. HP9-5ZNK-JCAHF  
Permit MI0023833  
Outfall 5

Start Day	Start Time	End Day	End Time
5/28/2021	11:00:00 AM	5/28/2021	5:30:00 PM

Rain(in.) = 0.7  
Waterbody: Black River

Dilute Raw Sewage (MG)  
**0.05200**

Cause Combined sewer overflow due to rain event. 52,000 gallons of combined wastewater was discharged, of which approximately 6,720 gallons was sanitary wastewater.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	11:00:00 PM

Rain(in.) = 0.41  
Waterbody: Black River

Submission ID. HP9-6QXE-3S1MP  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.01200**

Cause Combined sewer overflow due to rain event. 12,000 gallons of combined wastewater was discharged, of which approximately 1,435 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/14/2021	8:00:00 AM	6/14/2021	3:00:00 PM

Rain(in.) = 0.26  
Waterbody: Black River

Submission ID. HP9-MMJ2-03FYH  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00500**

Cause Combined sewer overflow due to rain event. 5,000 gallons of combined wastewater was discharged, of which approximately 455 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/18/2021	11:00:00 AM	6/18/2021	12:30:00 PM

Rain(in.) = 0.26  
Waterbody: Black River

Submission ID. HP9-MQ6F-YZBS3  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00500**

Cause Combined sewer overflow due to rain event. 5,000 gallons of combined wastewater was discharged, of which approximately 520 gallons was sanitary wastewater.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/21/2021	6:00:00 AM	6/21/2021	9:00:00 AM

Rain(in.) = 1.57  
Waterbody: Black River

Submission ID. HP9-R01M-ACX63  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.12300**

Cause Combined sewer overflow due to rain event. 123,000 gallons of combined wastewater was discharged, of which approximately 2,000 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	12:30:00 PM	6/26/2021	4:00:00 AM

Rain(in.) = 1.83  
Waterbody: Black River

Submission ID. HP9-T6QM-AM96K  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.16100**

Cause Combined sewer overflow due to rain event. 161,000 gallons of combined wastewater was discharged, of which approximately 6,000 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/26/2021	7:00:00 AM	6/27/2021	1:00:00 AM

Rain(in.) = 0.37  
Waterbody: Black River

Submission ID. HP9-T8K8-V5CCG  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.01000**

Cause Combined sewer overflow due to rain event. 10,000 gallons of combined wastewater was discharged, of which approximately 925 gallons was sanitary wastewater.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
6/28/2021	8:30:00 PM	6/29/2021	1:00:00 AM

Rain(in.) = 0.33  
Waterbody: Black River

Submission ID. HP9-TYP2-7AXA2  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00800**

Cause Combined sewer overflow due to rain event. 8,000 gallons of combined wastewater was discharged, of which approximately 413 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
7/7/2021	3:30:00 PM	7/7/2021	5:00:00 PM

Rain(in.) = 0.31  
Waterbody: Black River

Submission ID. HPA-2ZDQ-5901R  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00700**

Cause Combined sewer overflow due to rain event. 7,000 gallons of combined wastewater was discharged, of which approximately 853 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
7/8/2021	9:00:00 AM	7/8/2021	11:00:00 PM

Rain(in.) = 0.32  
Waterbody: Black River

Submission ID. HPA-2ZS7-69GY1  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00800**

Cause Combined sewer overflow due to rain event. 8,000 gallons of combined wastewater, of which approximately 1,040 was sanitary wastewater.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
7/11/2021	11:30:00 AM	7/11/2021	6:30:00 PM

Rain(in.) = 0.26  
Waterbody: Black River

Submission ID. HPA-58YG-MK4M0  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00500**

Cause Combined sewer overflow due to rain event. 5,000 gallons of combined wastewater was discharged, of which approximately 1,560 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
7/13/2021	4:00:00 PM	7/13/2021	11:00:00 PM

Rain(in.) = 0.32  
Waterbody: Black River

Submission ID. HPA-8GZ6-B2MRC  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.00800**

Cause Combined sewer overflow due to rain event 8,000 gallons of combined wastewater was discharged, of which approximately 800 gallons was sanitary wastewater.

## Port Huron WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	11:00:00 AM	7/24/2021	11:30:00 PM

Rain(in.) = 0  
Waterbody: Black River

Submission ID. HPA-GC3A-8CV1W  
Permit MI0023833  
Outfall 5

Dilute Raw Sewage (MG)  
**0.01400**

Cause combined sewer overflow due to rain event. 14,000 gallons of combined wastewater was discharged, of which approximately 563 gallons was sanitary wastewater.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

**Totals** **Port Huron WWTP**

Dilute Raw Sewage (MG)  
**0.69000**

SOC: The NPDES Permit requires elimination of all overflow outfalls by December 31, 2022

EGLE Action: Long-term Control Program (sewer separation project) being implemented; Director's Final Order (issued 2/19/98) & permit include schedule requiring elimination of all overflow outfalls by Dec. 31, 2012. The City requested a 4 year schedule extension in April, 2007, due to economic hardship. The Department approved the City's request and issued a schedule in the modified permit requiring elimination of all overflow outfalls by December 31, 2022; several outfalls and the associated overflows have already been eliminated through sewer separation construction.

**County Totals** **St. Clair**

Dilute Raw Sewage (MG)  
**0.69000**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne

### Dearborn CSO

#### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.33
1/1/2021	8:50:00 PM	1/2/2021	3:21:00 AM	Waterbody: Rouge River

Dilute Raw Sewage (MG)

**0.10000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP5-ERYM-ZHA3M  
Permit MI0025542  
Outfall **1**

#### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.33
1/1/2021	8:50:00 PM	1/2/2021	3:21:00 AM	Waterbody: Rouge River

Dilute Raw Sewage (MG)

**1.10000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP5-ERYM-ZHA3M  
Permit MI0025542  
Outfall **13**

#### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.33
1/1/2021	8:50:00 PM	1/2/2021	3:21:00 AM	Waterbody: Rouge River

Dilute Raw Sewage (MG)

**0.58000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP5-ERYM-ZHA3M  
Permit MI0025542  
Outfall **3**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
1/3/2021	8:00:00 AM	1/3/2021	11:08:00 AM

Rain(in.) = 0.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP5-FZXP-J10VX  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
1/3/2021	8:00:00 AM	1/3/2021	11:08:00 AM

Rain(in.) = 0.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.24000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP5-FZXP-J10VX  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
1/3/2021	8:00:00 AM	1/3/2021	11:08:00 AM

Rain(in.) = 0.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.13000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP5-FZXP-J10VX  
Permit MI0025542  
Outfall **3**



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
1/15/2021	2:23:00 PM	1/15/2021	4:01:00 PM

Rain(in.) = 0.17  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain water in combined sewers crested weir walls and spilled to river

Submission ID. HP5-SJ54-1PDCF  
Permit MI0025542  
Outfall **1**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
1/15/2021	2:23:00 PM	1/15/2021	4:01:00 PM

Rain(in.) = 0.17  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.12000**

Cause Rain water in combined sewers crested weir walls and spilled to river

Submission ID. HP5-SJ54-1PDCF  
Permit MI0025542  
Outfall **13**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
1/15/2021	2:23:00 PM	1/15/2021	4:01:00 PM

Rain(in.) = 0.17  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain water in combined sewers crested weir walls and spilled to river

Submission ID. HP5-SJ54-1PDCF  
Permit MI0025542  
Outfall **3**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
3/26/2021	12:52:00 AM	3/26/2021	8:42:00 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.02000**

Cause Rain water caused sewer levels to crest weir walls and spill to river

Submission ID. HP7-G3FP-RZPYK  
Permit MI0025542  
Outfall **1**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
3/26/2021	12:52:00 AM	3/26/2021	8:42:00 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**8.49000**

Cause Rain water caused sewer levels to crest weir walls and spill to river

Submission ID. HP7-G3FP-RZPYK  
Permit MI0025542  
Outfall **13**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
3/26/2021	12:52:00 AM	3/26/2021	8:42:00 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**5.94000**

Cause Rain water caused sewer levels to crest weir walls and spill to river

Submission ID. HP7-G3FP-RZPYK  
Permit MI0025542  
Outfall **14**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
3/26/2021	12:52:00 AM	3/26/2021	8:42:00 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain water caused sewer levels to crest weir walls and spill to river

Submission ID. HP7-G3FP-RZPYK  
Permit MI0025542  
Outfall **2**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
3/26/2021	12:52:00 AM	3/26/2021	8:42:00 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.88000**

Cause Rain water caused sewer levels to crest weir walls and spill to river

Submission ID. HP7-G3FP-RZPYK  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
3/26/2021	12:52:00 AM	3/26/2021	8:42:00 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.55000**

Cause Rain water caused sewer levels to crest weir walls and spill to river

Submission ID. HP7-G3FP-RZPYK  
Permit MI0025542  
Outfall **4**



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
3/27/2021	10:28:00 PM	3/28/2021	9:54:00 AM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**15.24000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-HM8D-8ZAVK  
Permit MI0025542  
Outfall **1**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
3/27/2021	10:28:00 PM	3/28/2021	9:54:00 AM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**6.37000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-HM8D-8ZAVK  
Permit MI0025542  
Outfall **13**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
3/27/2021	10:28:00 PM	3/28/2021	9:54:00 AM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.35000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-HM8D-8ZAVK  
Permit MI0025542  
Outfall **14**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
3/27/2021	10:28:00 PM	3/28/2021	9:54:00 AM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-HM8D-8ZAVK  
Permit MI0025542  
Outfall **2**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
3/27/2021	10:28:00 PM	3/28/2021	9:54:00 AM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.01000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-HM8D-8ZAVK  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
3/27/2021	10:28:00 PM	3/28/2021	9:54:00 AM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.77000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-HM8D-8ZAVK  
Permit MI0025542  
Outfall **4**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/5/2021	12:42:00 PM	4/5/2021	1:43:00 PM

Rain(in.) = 0.16  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Submission ID. HP7-RAVP-RW3M9  
Permit MI0025542  
Outfall **1**

Cause Rain water caused the combined sewers to overflow designated weir walls to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/5/2021	12:42:00 PM	4/5/2021	1:43:00 PM

Rain(in.) = 0.16  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Submission ID. HP7-RAVP-RW3M9  
Permit MI0025542  
Outfall **13**

Cause Rain water caused the combined sewers to overflow designated weir walls to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/5/2021	12:42:00 PM	4/5/2021	1:43:00 PM

Rain(in.) = 0.16  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Submission ID. HP7-RAVP-RW3M9  
Permit MI0025542  
Outfall **3**

Cause Rain water caused the combined sewers to overflow designated weir walls to the Rouge River per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/8/2021	4:40:00 PM	4/9/2021	7:47:00 AM

Rain(in.) = 0.5  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.26000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-TT3A-EZ5NH  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/8/2021	4:40:00 PM	4/9/2021	7:47:00 AM

Rain(in.) = 0.5  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.65000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-TT3A-EZ5NH  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/8/2021	4:40:00 PM	4/9/2021	7:47:00 AM

Rain(in.) = 0.5  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-TT3A-EZ5NH  
Permit MI0025542  
Outfall **14**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/8/2021	4:40:00 PM	4/9/2021	7:47:00 AM

Rain(in.) = 0.5  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-TT3A-EZ5NH  
Permit MI0025542  
Outfall **2**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/8/2021	4:40:00 PM	4/9/2021	7:47:00 AM

Rain(in.) = 0.5  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.35000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-TT3A-EZ5NH  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/8/2021	4:40:00 PM	4/9/2021	7:47:00 AM

Rain(in.) = 0.5  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Rain water caused levels in sewers to crest weir walls and spill to river

Submission ID. HP7-TT3A-EZ5NH  
Permit MI0025542  
Outfall **4**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/10/2021	9:33:00 PM	4/11/2021	3:16:00 AM

Rain(in.) = 0.43  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.16000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP7-WJ17-CWMHY  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/10/2021	9:33:00 PM	4/11/2021	3:16:00 AM

Rain(in.) = 0.43  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.76000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP7-WJ17-CWMHY  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/10/2021	9:33:00 PM	4/11/2021	3:16:00 AM

Rain(in.) = 0.43  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP7-WJ17-CWMHY  
Permit MI0025542  
Outfall **14**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/10/2021	9:33:00 PM	4/11/2021	3:16:00 AM

Rain(in.) = 0.43  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.91000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP7-WJ17-CWMHY  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/10/2021	9:33:00 PM	4/11/2021	3:16:00 AM

Rain(in.) = 0.43  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.07000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river

Submission ID. HP7-WJ17-CWMHY  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/29/2021	3:40:00 PM	4/29/2021	6:35:00 PM

Rain(in.) = 0.26  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP8-B99T-VWF9Q  
Permit MI0025542  
Outfall **1**





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/29/2021	3:40:00 PM	4/29/2021	6:35:00 PM

Rain(in.) = 0.26  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.66000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP8-B99T-VWF9Q  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
4/29/2021	3:40:00 PM	4/29/2021	6:35:00 PM

Rain(in.) = 0.26  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.36000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP8-B99T-VWF9Q  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/3/2021	2:00:00 PM	5/3/2021	9:00:00 PM

Rain(in.) = 0.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

Submission ID. HP8-EC07-1BN1V  
Permit MI0025542  
Outfall **1**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/3/2021	2:00:00 PM	5/3/2021	9:00:00 PM

Rain(in.) = 0.21  
Waterbody: Rouge River

Submission ID. HP8-EC07-1BN1V  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**0.36000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/3/2021	2:00:00 PM	5/3/2021	9:00:00 PM

Rain(in.) = 0.21  
Waterbody: Rouge River

Submission ID. HP8-EC07-1BN1V  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/7/2021	6:09:00 PM	5/7/2021	11:25:00 PM

Rain(in.) = 0.23  
Waterbody: Rouge River

Submission ID. HP8-HMYP-YGXD6  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain fall caused combined sewers to overflow weir walls to the Rouge River at designated sites per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/7/2021	6:09:00 PM	5/7/2021	11:25:00 PM

Rain(in.) = 0.23  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.48000**

Submission ID. HP8-HMYP-YGXD6  
Permit MI0025542  
Outfall **13**

Cause Rain fall caused combined sewers to overflow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/7/2021	6:09:00 PM	5/7/2021	11:25:00 PM

Rain(in.) = 0.23  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.26000**

Submission ID. HP8-HMYP-YGXD6  
Permit MI0025542  
Outfall **3**

Cause Rain fall caused combined sewers to overflow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/9/2021	1:49:00 PM	5/10/2021	12:09:00 AM

Rain(in.) = 0.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Submission ID. HP8-K2PK-DN6Z0  
Permit MI0025542  
Outfall **1**

Cause Rain fall caused combined sewers to overflow weir walls to the Rouge River at designated sites per city of Dearborn Permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/9/2021	1:49:00 PM	5/10/2021	12:09:00 AM

Rain(in.) = 0.21  
Waterbody: Rouge River

Submission ID. HP8-K2PK-DN6Z0  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**0.36000**

Cause Rain fall caused combined sewers to overflow weir walls to the Rouge River at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/9/2021	1:49:00 PM	5/10/2021	12:09:00 AM

Rain(in.) = 0.21  
Waterbody: Rouge River

Submission ID. HP8-K2PK-DN6Z0  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Rain fall caused combined sewers to overflow weir walls to the Rouge River at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/23/2021	8:56:00 PM	5/23/2021	10:35:00 PM

Rain(in.) = 0.25  
Waterbody: Rouge River

Submission ID. HP8-YACR-23M02  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain fall caused combined sewers to overflow weir walls at designated site and discharge to the Rouge River per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/23/2021	8:56:00 PM	5/23/2021	10:35:00 PM

Rain(in.) = 0.25  
Waterbody: Rouge River

Submission ID. HP8-YACR-23M02  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**0.60000**

Cause Rain fall caused combined sewers to overflow weir walls at designated site and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/23/2021	8:56:00 PM	5/23/2021	10:35:00 PM

Rain(in.) = 0.25  
Waterbody: Rouge River

Submission ID. HP8-YACR-23M02  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**0.32000**

Cause Rain fall caused combined sewers to overflow weir walls at designated site and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/26/2021	9:29:00 AM	5/26/2021	1:30:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Submission ID. HP9-OATJ-MDYH6  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.10000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/26/2021	9:29:00 AM	5/26/2021	1:30:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.10000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP9-0ATJ-MDYH6  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/26/2021	9:29:00 AM	5/26/2021	1:30:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.58000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP9-0ATJ-MDYH6  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/28/2021	5:56:00 AM	5/28/2021	3:43:00 PM

Rain(in.) = 0.81  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.48000**

Cause Rain water in combined sewers caused levels crest weir walls and spill to the river.

Submission ID. HP9-1SE3-BJBFN  
Permit MI0025542  
Outfall **1**



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
5/28/2021	5:56:00 AM	5/28/2021	3:43:00 PM

Rain(in.) = 0.81  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**4.51000**

Cause Rain water in combined sewers caused levels crest weir walls and spill to the river.

Submission ID. HP9-1SE3-BJBFN  
Permit MI0025542  
Outfall **13**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
5/28/2021	5:56:00 AM	5/28/2021	3:43:00 PM

Rain(in.) = 0.81  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.54000**

Cause Rain water in combined sewers caused levels crest weir walls and spill to the river.

Submission ID. HP9-1SE3-BJBFN  
Permit MI0025542  
Outfall **14**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
5/28/2021	5:56:00 AM	5/28/2021	3:43:00 PM

Rain(in.) = 0.81  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain water in combined sewers caused levels crest weir walls and spill to the river.

Submission ID. HP9-1SE3-BJBFN  
Permit MI0025542  
Outfall **2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/28/2021	5:56:00 AM	5/28/2021	3:43:00 PM

Rain(in.) = 0.81  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.20000**

Cause Rain water in combined sewers caused levels crest weir walls and spill to the river.

Submission ID. HP9-1SE3-BJBFN  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
5/28/2021	5:56:00 AM	5/28/2021	3:43:00 PM

Rain(in.) = 0.81  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.08000**

Cause Rain water in combined sewers caused levels crest weir walls and spill to the river.

Submission ID. HP9-1SE3-BJBFN  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/2/2021	5:57:00 PM	6/2/2021	11:20:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.34000**

Cause Rian fall caused combined sewers to overflow weir walls at designated sites and discharge to the Rouge River per city of Dearborn Permit.

Submission ID. HP9-630X-8BAAC  
Permit MI0025542  
Outfall **1**





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/2/2021	5:57:00 PM	6/2/2021	11:20:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Submission ID. HP9-630X-8BAAC  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**3.37000**

Cause Rian fall caused combined sewers to overflow weir walls at designated sites and discharge to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/2/2021	5:57:00 PM	6/2/2021	11:20:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Submission ID. HP9-630X-8BAAC  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.73000**

Cause Rian fall caused combined sewers to overflow weir walls at designated sites and discharge to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/2/2021	5:57:00 PM	6/2/2021	11:20:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Submission ID. HP9-630X-8BAAC  
Permit MI0025542  
Outfall **2**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rian fall caused combined sewers to overflow weir walls at designated sites and discharge to the Rouge River per city of Dearborn Permit.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/2/2021	5:57:00 PM	6/2/2021	11:20:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Submission ID. HP9-630X-8BAAC  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**1.69000**

Cause Rian fall caused combined sewers to overflow weir walls at designated sites and discharge to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/2/2021	5:57:00 PM	6/2/2021	11:20:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Submission ID. HP9-630X-8BAAC  
Permit MI0025542  
Outfall **4**

Dilute Raw Sewage (MG)  
**0.66000**

Cause Rian fall caused combined sewers to overflow weir walls at designated sites and discharge to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	11:06:00 AM

Rain(in.) = 0.67  
Waterbody: Rouge River

Submission ID. HP9-J908-5EYMW  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites to the Rouge River per city of Dearborn Permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	11:06:00 AM

Rain(in.) = 0.67  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.44000**

Submission ID. HP9-J908-5EYMW  
Permit MI0025542  
Outfall **13**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	11:06:00 AM

Rain(in.) = 0.67  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.78000**

Submission ID. HP9-J908-5EYMW  
Permit MI0025542  
Outfall **14**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	11:06:00 AM

Rain(in.) = 0.67  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Submission ID. HP9-J908-5EYMW  
Permit MI0025542  
Outfall **2**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites to the Rouge River per city of Dearborn Permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	11:06:00 AM

Rain(in.) = 0.67  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.72000**

Submission ID. HP9-J908-5EYMW  
Permit MI0025542  
Outfall **3**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/18/2021	6:30:00 AM	6/18/2021	11:06:00 AM

Rain(in.) = 0.67  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.69000**

Submission ID. HP9-J908-5EYMW  
Permit MI0025542  
Outfall **4**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites to the Rouge River per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/20/2021	10:33:00 PM	6/21/2021	6:47:00 AM

Rain(in.) = 1.46  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.27000**

Submission ID. HP9-MC8J-Z9SDX  
Permit MI0025542  
Outfall **1**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/20/2021	10:33:00 PM	6/21/2021	6:47:00 AM

Rain(in.) = 1.46  
Waterbody: Rouge River

Submission ID. HP9-MC8J-Z9SDX  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**10.18000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/20/2021	10:33:00 PM	6/21/2021	6:47:00 AM

Rain(in.) = 1.46  
Waterbody: Rouge River

Submission ID. HP9-MC8J-Z9SDX  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**8.37000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/20/2021	10:33:00 PM	6/21/2021	6:47:00 AM

Rain(in.) = 1.46  
Waterbody: Rouge River

Submission ID. HP9-MC8J-Z9SDX  
Permit MI0025542  
Outfall **2**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/20/2021	10:33:00 PM	6/21/2021	6:47:00 AM

Rain(in.) = 1.46  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**4.55000**

Submission ID. HP9-MC8J-Z9SDX  
Permit MI0025542  
Outfall **3**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/20/2021	10:33:00 PM	6/21/2021	6:47:00 AM

Rain(in.) = 1.46  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.18000**

Submission ID. HP9-MC8J-Z9SDX  
Permit MI0025542  
Outfall **4**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/26/2021	5:11:00 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**24.47000**

Submission ID. HP9-ROC3-XWJRM  
Permit MI0025542  
Outfall **1**

Cause Rain water in combined sewers caused levels to raise and spill to river.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/26/2021	5:11:00 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**123.58000**

Cause Rain water in combined sewers caused levels to raise and spill to river.

Submission ID. HP9-ROC3-XWJRM  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/26/2021	5:11:00 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**335.32000**

Cause Rain water in combined sewers caused levels to raise and spill to river.

Submission ID. HP9-ROC3-XWJRM  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/26/2021	5:11:00 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.85000**

Cause Rain water in combined sewers caused levels to raise and spill to river.

Submission ID. HP9-ROC3-XWJRM  
Permit MI0025542  
Outfall **2**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/26/2021	5:11:00 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**34.79000**

Cause Rain water in combined sewers caused levels to raise and spill to river.

Submission ID. HP9-ROC3-XWJRM  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/26/2021	5:11:00 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**45.96000**

Cause Rain water in combined sewers caused levels to raise and spill to river.

Submission ID. HP9-ROC3-XWJRM  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:42:00 PM	6/28/2021	11:25:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

Submission ID. HP9-TMD4-KQ4CC  
Permit MI0025542  
Outfall **1**





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:42:00 PM	6/28/2021	11:25:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.42000**

Submission ID. HP9-TMD4-KQ4CC  
Permit MI0025542  
Outfall **13**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:42:00 PM	6/28/2021	11:25:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.23000**

Submission ID. HP9-TMD4-KQ4CC  
Permit MI0025542  
Outfall **3**

Cause Rain fall caused combined sewers to over flow weir walls to the Rouge River at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/29/2021	8:47:00 PM	6/30/2021	1:09:00 PM

Rain(in.) = 0.2  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Submission ID. HP9-VCJV-FBYM7  
Permit MI0025542  
Outfall **1**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/29/2021	8:47:00 PM	6/30/2021	1:09:00 PM

Rain(in.) = 0.2  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP9-VCJV-FBYM7  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/29/2021	8:47:00 PM	6/30/2021	1:09:00 PM

Rain(in.) = 0.2  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.16000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HP9-VCJV-FBYM7  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/11/2021	7:34:00 AM	7/11/2021	9:20:00 PM

Rain(in.) = 0.44  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.17000**

Cause Rain water caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-4JN6-7PCSJ  
Permit MI0025542  
Outfall **1**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/11/2021	7:34:00 AM	7/11/2021	9:20:00 PM

Rain(in.) = 0.44  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.82000**

Cause Rain water caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-4JN6-7PCSJ  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/11/2021	7:34:00 AM	7/11/2021	9:20:00 PM

Rain(in.) = 0.44  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain water caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-4JN6-7PCSJ  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/11/2021	7:34:00 AM	7/11/2021	9:20:00 PM

Rain(in.) = 0.44  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.95000**

Cause Rain water caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-4JN6-7PCSJ  
Permit MI0025542  
Outfall **3**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/11/2021	7:34:00 AM	7/11/2021	9:20:00 PM

Rain(in.) = 0.44  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Rain water caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-4JN6-7PCSJ  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/13/2021	5:43:00 PM	7/13/2021	7:36:00 PM

Rain(in.) = 0.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit

Submission ID. HPA-69M5-5HJW7  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/13/2021	5:43:00 PM	7/13/2021	7:36:00 PM

Rain(in.) = 0.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.24000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit

Submission ID. HPA-69M5-5HJW7  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/13/2021	5:43:00 PM	7/13/2021	7:36:00 PM

Rain(in.) = 0.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.13000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit

Submission ID. HPA-69M5-5HJW7  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:09:00 AM	7/17/2021	8:08:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**8.92000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per City of Dearborn Permit

Submission ID. HPA-8ERG-PFVYZ  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:09:00 AM	7/17/2021	8:08:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**51.38000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per City of Dearborn Permit

Submission ID. HPA-8ERG-PFVYZ  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:09:00 AM	7/17/2021	8:08:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**106.93000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per City of Dearborn Permit

Submission ID. HPA-8ERG-PFVYZ  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:09:00 AM	7/17/2021	8:08:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.15000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per City of Dearborn Permit

Submission ID. HPA-8ERG-PFVYZ  
Permit MI0025542  
Outfall **2**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:09:00 AM	7/17/2021	8:08:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**17.24000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per City of Dearborn Permit

Submission ID. HPA-8ERG-PFVYZ  
Permit MI0025542  
Outfall **3**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:09:00 AM	7/17/2021	8:08:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**18.64000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per City of Dearborn Permit

Submission ID. HPA-8ERG-PFVYZ  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/20/2021	8:04:00 PM	7/21/2021	12:00:00 AM

Rain(in.) = 0.4  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.14000**

Cause Rainfall caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-BX57-RQ1MS  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/20/2021	8:04:00 PM	7/21/2021	12:00:00 AM

Rain(in.) = 0.4  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.56000**

Cause Rainfall caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-BX57-RQ1MS  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/20/2021	8:04:00 PM	7/21/2021	12:00:00 AM

Rain(in.) = 0.4  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.81000**

Cause Rainfall caused combined sewers to over flow weir walls at designated sites per City of Dearborn permit.

Submission ID. HPA-BX57-RQ1MS  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/23/2021	8:07:00 AM	7/23/2021	1:00:00 PM

Rain(in.) = 0  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.11000**

Cause Rain fall caused levels in combined sewers to raise and crest weir walls at designated spill points per City of Dearborn permit

Submission ID. HPA-DVWZ-FRF6Y  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/23/2021	8:07:00 AM	7/23/2021	1:00:00 PM

Rain(in.) = 0  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.23000**

Cause Rain fall caused levels in combined sewers to raise and crest weir walls at designated spill points per City of Dearborn permit

Submission ID. HPA-DVWZ-FRF6Y  
Permit MI0025542  
Outfall **13**





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/23/2021	8:07:00 AM	7/23/2021	1:00:00 PM

Rain(in.) = 0  
Waterbody: Rouge River

Submission ID. HPA-DVWZ-FRF6Y  
Permit MI0025542  
Outfall 3

Dilute Raw Sewage (MG)  
**0.65000**

Cause Rain fall caused levels in combined sewers to raise and crest weir walls at designated spill points per City of Dearborn permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/25/2021	9:03:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 2.8  
Waterbody: Rouge River

Submission ID. HPA-F4MK-7VD02  
Permit MI0025542  
Outfall 1

Dilute Raw Sewage (MG)  
**3.92000**

Cause Rain fall caused levels in combined sewers to crest weir walls and discharge at designated locations per City of Dearborn permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/25/2021	9:03:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 2.8  
Waterbody: Rouge River

Submission ID. HPA-F4MK-7VD02  
Permit MI0025542  
Outfall 13

Dilute Raw Sewage (MG)  
**25.76000**

Cause Rain fall caused levels in combined sewers to crest weir walls and discharge at designated locations per City of Dearborn permit



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/25/2021	9:03:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 2.8  
Waterbody: Rouge River

Submission ID. HPA-F4MK-7VD02  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**39.42000**

Cause Rain fall caused levels in combined sewers to crest weir walls and discharge at designated locations per City of Dearborn permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/25/2021	9:03:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 2.8  
Waterbody: Rouge River

Submission ID. HPA-F4MK-7VD02  
Permit MI0025542  
Outfall **2**

Dilute Raw Sewage (MG)  
**0.38000**

Cause Rain fall caused levels in combined sewers to crest weir walls and discharge at designated locations per City of Dearborn permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/25/2021	9:03:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 2.8  
Waterbody: Rouge River

Submission ID. HPA-F4MK-7VD02  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**9.90000**

Cause Rain fall caused levels in combined sewers to crest weir walls and discharge at designated locations per City of Dearborn permit



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/25/2021	9:03:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 2.8  
Waterbody: Rouge River

Submission ID. HPA-F4MK-7VD02  
Permit MI0025542  
Outfall 4

Dilute Raw Sewage (MG)  
**9.00000**

Cause Rain fall caused levels in combined sewers to crest weir walls and discharge at designated locations per City of Dearborn permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/9/2021	2:30:00 PM	8/9/2021	8:14:00 PM

Rain(in.) = 1.44  
Waterbody: Rouge River

Submission ID. HPA-VD2C-X35R0  
Permit MI0025542  
Outfall 1

Dilute Raw Sewage (MG)  
**1.24000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/9/2021	2:30:00 PM	8/9/2021	8:14:00 PM

Rain(in.) = 1.44  
Waterbody: Rouge River

Submission ID. HPA-VD2C-X35R0  
Permit MI0025542  
Outfall 13

Dilute Raw Sewage (MG)  
**9.99000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites and discharge to the Rouge River per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/9/2021	2:30:00 PM	8/9/2021	8:14:00 PM

Rain(in.) = 1.44  
Waterbody: Rouge River

Submission ID. HPA-VD2C-X35R0  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**8.08000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/9/2021	2:30:00 PM	8/9/2021	8:14:00 PM

Rain(in.) = 1.44  
Waterbody: Rouge River

Submission ID. HPA-VD2C-X35R0  
Permit MI0025542  
Outfall **2**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/9/2021	2:30:00 PM	8/9/2021	8:14:00 PM

Rain(in.) = 1.44  
Waterbody: Rouge River

Submission ID. HPA-VD2C-X35R0  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**4.47000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites and discharge to the Rouge River per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/9/2021	2:30:00 PM	8/9/2021	8:14:00 PM

Rain(in.) = 1.44  
Waterbody: Rouge River

Submission ID. HPA-VD2C-X35R0  
Permit MI0025542  
Outfall **4**

Dilute Raw Sewage (MG)  
**3.11000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/11/2021	4:05:00 PM	8/12/2021	10:22:00 AM

Rain(in.) = 3.52  
Waterbody: Rouge River

Submission ID. HPA-X0SF-F8P3B  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**5.91000**

Cause Rain fall caused combined sewer to over flow weir walls at designated sites to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/11/2021	4:05:00 PM	8/12/2021	10:22:00 AM

Rain(in.) = 3.52  
Waterbody: Rouge River

Submission ID. HPA-X0SF-F8P3B  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**36.28000**

Cause Rain fall caused combined sewer to over flow weir walls at designated sites to the Rouge River per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/11/2021	4:05:00 PM	8/12/2021	10:22:00 AM

Rain(in.) = 3.52  
Waterbody: Rouge River

Submission ID. HPA-XOSF-F8P3B  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**65.53000**

Cause Rain fall caused combined sewer to over flow weir walls at designated sites to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/11/2021	4:05:00 PM	8/12/2021	10:22:00 AM

Rain(in.) = 3.52  
Waterbody: Rouge River

Submission ID. HPA-XOSF-F8P3B  
Permit MI0025542  
Outfall **2**

Dilute Raw Sewage (MG)  
**0.67000**

Cause Rain fall caused combined sewer to over flow weir walls at designated sites to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/11/2021	4:05:00 PM	8/12/2021	10:22:00 AM

Rain(in.) = 3.52  
Waterbody: Rouge River

Submission ID. HPA-XOSF-F8P3B  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**13.08000**

Cause Rain fall caused combined sewer to over flow weir walls at designated sites to the Rouge River per city of Dearborn permit.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/11/2021	4:05:00 PM	8/12/2021	10:22:00 AM

Rain(in.) = 3.52  
Waterbody: Rouge River

Submission ID. HPA-XOSF-F8P3B  
Permit MI0025542  
Outfall 4

Dilute Raw Sewage (MG)  
**12.95000**

Cause Rain fall caused combined sewer to over flow weir walls at designated sites to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/24/2021	7:38:00 PM	8/24/2021	11:41:00 PM

Rain(in.) = 0.62  
Waterbody: Rouge River

Submission ID. HPB-7BR4-H3MZ1  
Permit MI0025542  
Outfall 1

Dilute Raw Sewage (MG)  
**0.31000**

Cause Rain fall caused combined sewers to overflow weir walls, at designated sites per the city of Dearborn permit, to the Rouge River.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/24/2021	7:38:00 PM	8/24/2021	11:41:00 PM

Rain(in.) = 0.62  
Waterbody: Rouge River

Submission ID. HPB-7BR4-H3MZ1  
Permit MI0025542  
Outfall 13

Dilute Raw Sewage (MG)  
**3.08000**

Cause Rain fall caused combined sewers to overflow weir walls, at designated sites per the city of Dearborn permit, to the Rouge River.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/24/2021	7:38:00 PM	8/24/2021	11:41:00 PM

Rain(in.) = 0.62  
Waterbody: Rouge River

Submission ID. HPB-7BR4-H3MZ1  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.56000**

Cause Rain fall caused combined sewers to overflow weir walls, at designated sites per the city of Dearborn permit, to the Rouge River.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/24/2021	7:38:00 PM	8/24/2021	11:41:00 PM

Rain(in.) = 0.62  
Waterbody: Rouge River

Submission ID. HPB-7BR4-H3MZ1  
Permit MI0025542  
Outfall **2**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain fall caused combined sewers to overflow weir walls, at designated sites per the city of Dearborn permit, to the Rouge River.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/24/2021	7:38:00 PM	8/24/2021	11:41:00 PM

Rain(in.) = 0.62  
Waterbody: Rouge River

Submission ID. HPB-7BR4-H3MZ1  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**1.55000**

Cause Rain fall caused combined sewers to overflow weir walls, at designated sites per the city of Dearborn permit, to the Rouge River.





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/24/2021	7:38:00 PM	8/24/2021	11:41:00 PM

Rain(in.) = 0.62  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.56000**

Cause Rain fall caused combined sewers to overflow weir walls, at designated sites per the city of Dearborn permit, to the Rouge River.

Submission ID. HPB-7BR4-H3MZ1  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:55:00 PM	8/27/2021	3:23:00 PM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.72000**

Cause Rainfall caused combined sewers to overflow weir walls at designed sites per City of Dearborn Permit

Submission ID. HPB-9J1H-HJ9DT  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:55:00 PM	8/27/2021	3:23:00 PM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**6.37000**

Cause Rainfall caused combined sewers to overflow weir walls at designed sites per City of Dearborn Permit

Submission ID. HPB-9J1H-HJ9DT  
Permit MI0025542  
Outfall **13**



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:55:00 PM	8/27/2021	3:23:00 PM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.35000**

Cause Rainfall caused combined sewers to overflow weir walls at designed sites per City of Dearborn Permit

Submission ID. HPB-9J1H-HJ9DT  
Permit MI0025542  
Outfall **14**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:55:00 PM	8/27/2021	3:23:00 PM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rainfall caused combined sewers to overflow weir walls at designed sites per City of Dearborn Permit

Submission ID. HPB-9J1H-HJ9DT  
Permit MI0025542  
Outfall **2**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:55:00 PM	8/27/2021	3:23:00 PM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.01000**

Cause Rainfall caused combined sewers to overflow weir walls at designed sites per City of Dearborn Permit

Submission ID. HPB-9J1H-HJ9DT  
Permit MI0025542  
Outfall **3**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:55:00 PM	8/27/2021	3:23:00 PM

Rain(in.) = 1.04  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.77000**

Cause Rainfall caused combined sewers to overflow weir walls at designed sites per City of Dearborn Permit

Submission ID. HPB-9J1H-HJ9DT  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/29/2021	7:41:00 PM	8/30/2021	12:15:00 AM

Rain(in.) = 0.37  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.12000**

Cause Rain fall caused combined sewer to overflow weir walls to Rouge River, per city of Dearborn permit.

Submission ID. HPB-B9GE-V0FC9  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/29/2021	7:41:00 PM	8/30/2021	12:15:00 AM

Rain(in.) = 0.37  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.36000**

Cause Rain fall caused combined sewer to overflow weir walls to Rouge River, per city of Dearborn permit.

Submission ID. HPB-B9GE-V0FC9  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
8/29/2021	7:41:00 PM	8/30/2021	12:15:00 AM

Rain(in.) = 0.37  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.72000**

Cause Rain fall caused combined sewer to overflow weir walls to Rouge River, per city of Dearborn permit.

Submission ID. HPB-B9GE-V0FC9  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/7/2021	9:13:00 PM	9/8/2021	4:51:00 AM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.26000**

Cause Rain fall causes combined sewers to overflow weir walls at designated sites, per city of Dearborn permit.

Submission ID. HPB-JDBJ-JCKQT  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/7/2021	9:13:00 PM	9/8/2021	4:51:00 AM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.65000**

Cause Rain fall causes combined sewers to overflow weir walls at designated sites, per city of Dearborn permit.

Submission ID. HPB-JDBJ-JCKQT  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/7/2021	9:13:00 PM	9/8/2021	4:51:00 AM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain fall causes combined sewers to overflow weir walls at designated sites, per city of Dearborn permit.

Submission ID. HPB-JDBJ-JCKQT  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/7/2021	9:13:00 PM	9/8/2021	4:51:00 AM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain fall causes combined sewers to overflow weir walls at designated sites, per city of Dearborn permit.

Submission ID. HPB-JDBJ-JCKQT  
Permit MI0025542  
Outfall **2**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/7/2021	9:13:00 PM	9/8/2021	4:51:00 AM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.35000**

Cause Rain fall causes combined sewers to overflow weir walls at designated sites, per city of Dearborn permit.

Submission ID. HPB-JDBJ-JCKQT  
Permit MI0025542  
Outfall **3**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/7/2021	9:13:00 PM	9/8/2021	4:51:00 AM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Rain fall causes combined sewers to overflow weir walls at designated sites, per city of Dearborn permit.

Submission ID. HPB-JDBJ-JCKQT  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/14/2021	8:28:00 PM	9/14/2021	9:47:00 PM

Rain(in.) = 0.73  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPB-QXXA-T2QQP  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/14/2021	8:28:00 PM	9/14/2021	9:47:00 PM

Rain(in.) = 0.73  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.89000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPB-QXXA-T2QQP  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/14/2021	8:28:00 PM	9/14/2021	9:47:00 PM

Rain(in.) = 0.73  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.07000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPB-QXXA-T2QQP  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/14/2021	8:28:00 PM	9/14/2021	9:47:00 PM

Rain(in.) = 0.73  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPB-QXXA-T2QQP  
Permit MI0025542  
Outfall **2**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/14/2021	8:28:00 PM	9/14/2021	9:47:00 PM

Rain(in.) = 0.73  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.93000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPB-QXXA-T2QQP  
Permit MI0025542  
Outfall **3**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/14/2021	8:28:00 PM	9/14/2021	9:47:00 PM

Rain(in.) = 0.73  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.86000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPB-QXXA-T2QQP  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/21/2021	8:03:00 PM	9/23/2021	8:31:00 PM

Rain(in.) = 4.97  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**11.12000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPB-XC4P-RRT2V  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/21/2021	8:03:00 PM	9/23/2021	8:31:00 PM

Rain(in.) = 4.97  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**62.06000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPB-XC4P-RRT2V  
Permit MI0025542  
Outfall **13**





MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
9/21/2021	8:03:00 PM	9/23/2021	8:31:00 PM

Rain(in.) = 4.97  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**62.06000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPB-XC4P-RRT2V  
Permit MI0025542  
Outfall **14**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
9/21/2021	8:03:00 PM	9/23/2021	8:31:00 PM

Rain(in.) = 4.97  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**20.10000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPB-XC4P-RRT2V  
Permit MI0025542  
Outfall **3**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
9/21/2021	8:03:00 PM	9/23/2021	8:31:00 PM

Rain(in.) = 4.97  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**22.67000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPB-XC4P-RRT2V  
Permit MI0025542  
Outfall **4**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Submission ID. HPC-09XS-A7H42

Start Day	Start Time	End Day	End Time
9/25/2021	10:51:00 AM	9/25/2021	12:06:00 PM

Rain(in.) = 0.17  
Waterbody: Rouge River

Outfall **1**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per city permit

### Dearborn CSO

Submission ID. HPC-09XS-A7H42

Start Day	Start Time	End Day	End Time
9/25/2021	10:51:00 AM	9/25/2021	12:06:00 PM

Rain(in.) = 0.17  
Waterbody: Rouge River

Outfall **13**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per city permit

### Dearborn CSO

Submission ID. HPC-09XS-A7H42

Start Day	Start Time	End Day	End Time
9/25/2021	10:51:00 AM	9/25/2021	12:06:00 PM

Rain(in.) = 0.17  
Waterbody: Rouge River

Outfall **3**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rainfall caused combined sewers to overflow weir walls at designated sites per city permit

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/2/2021	11:44:00 PM	10/3/2021	9:19:00 AM

Rain(in.) = 0.57  
Waterbody: Rouge River

Submission ID. HPC-65PG-45D0X  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.27000**

Cause Rain water in combined sewers caused levels to crest weir walls and discharge at designated spill points per city permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/2/2021	11:44:00 PM	10/3/2021	9:19:00 AM

Rain(in.) = 0.57  
Waterbody: Rouge River

Submission ID. HPC-65PG-45D0X  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**2.72000**

Cause Rain water in combined sewers caused levels to crest weir walls and discharge at designated spill points per city permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/2/2021	11:44:00 PM	10/3/2021	9:19:00 AM

Rain(in.) = 0.57  
Waterbody: Rouge River

Submission ID. HPC-65PG-45D0X  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.38000**

Cause Rain water in combined sewers caused levels to crest weir walls and discharge at designated spill points per city permit

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/2/2021	11:44:00 PM	10/3/2021	9:19:00 AM

Rain(in.) = 0.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.38000**

Cause Rain water in combined sewers caused levels to crest weir walls and discharge at designated spill points per city permit

Submission ID. HPC-65PG-45D0X  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/2/2021	11:44:00 PM	10/3/2021	9:19:00 AM

Rain(in.) = 0.57  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.43000**

Cause Rain water in combined sewers caused levels to crest weir walls and discharge at designated spill points per city permit

Submission ID. HPC-65PG-45D0X  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/8/2021	1:53:00 PM	10/8/2021	3:07:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river at designated points per city permit

Submission ID. HPC-AJ49-DKYTP  
Permit MI0025542  
Outfall **1**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/8/2021	1:53:00 PM	10/8/2021	3:07:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Submission ID. HPC-AJ49-DKYTP  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river at designated points per city permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/8/2021	1:53:00 PM	10/8/2021	3:07:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Submission ID. HPC-AJ49-DKYTP  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill to river at designated points per city permit

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/14/2021	6:40:00 PM	10/16/2021	8:23:00 AM

Rain(in.) = 0.92  
Waterbody: Rouge River

Submission ID. HPC-FEHC-9C84K  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.59000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill at designated points per city permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/14/2021	6:40:00 PM	10/16/2021	8:23:00 AM

Rain(in.) = 0.92  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**5.38000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill at designated points per city permit.

Submission ID. HPC-FEHC-9C84K  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/14/2021	6:40:00 PM	10/16/2021	8:23:00 AM

Rain(in.) = 0.92  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.32000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill at designated points per city permit.

Submission ID. HPC-FEHC-9C84K  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/14/2021	6:40:00 PM	10/16/2021	8:23:00 AM

Rain(in.) = 0.92  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.59000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill at designated points per city permit.

Submission ID. HPC-FEHC-9C84K  
Permit MI0025542  
Outfall **3**



MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
10/14/2021	6:40:00 PM	10/16/2021	8:23:00 AM

Rain(in.) = 0.92  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.40000**

Cause Rain water in combined sewers caused levels to crest weir walls and spill at designated points per city permit.

Submission ID. HPC-FEHC-9C84K  
Permit MI0025542  
Outfall **4**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
10/21/2021	7:04:00 AM	10/21/2021	10:02:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.09000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPC-MGH0-78BE5  
Permit MI0025542  
Outfall **1**

### Dearborn CSO

Start Day	Start Time	End Day	End Time
10/21/2021	7:04:00 AM	10/21/2021	10:02:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.04000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPC-MGH0-78BE5  
Permit MI0025542  
Outfall **13**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/21/2021	7:04:00 AM	10/21/2021	10:02:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.55000**

Cause Rain fall caused combined sewers to over flow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPC-MGH0-78BE5  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/24/2021	7:40:00 PM	10/25/2021	10:14:00 PM

Rain(in.) = 2.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.59000**

Cause Rain fall in combined sewers caused levels to raise and spill to river at designated sites per city permit

Submission ID. HPC-Q9PJ-GSANY  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/24/2021	7:40:00 PM	10/25/2021	10:14:00 PM

Rain(in.) = 2.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**18.26000**

Cause Rain fall in combined sewers caused levels to raise and spill to river at designated sites per city permit

Submission ID. HPC-Q9PJ-GSANY  
Permit MI0025542  
Outfall **13**





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/24/2021	7:40:00 PM	10/25/2021	10:14:00 PM

Rain(in.) = 2.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**22.93000**

Cause Rain fall in combined sewers caused levels to raise and spill to river at designated sites per city permit

Submission ID. HPC-Q9PJ-GSANY  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/24/2021	7:40:00 PM	10/25/2021	10:14:00 PM

Rain(in.) = 2.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**7.46000**

Cause Rain fall in combined sewers caused levels to raise and spill to river at designated sites per city permit

Submission ID. HPC-Q9PJ-GSANY  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/24/2021	7:40:00 PM	10/25/2021	10:14:00 PM

Rain(in.) = 2.21  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**6.19000**

Cause Rain fall in combined sewers caused levels to raise and spill to river at designated sites per city permit

Submission ID. HPC-Q9PJ-GSANY  
Permit MI0025542  
Outfall **4**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/29/2021	4:03:00 AM	10/30/2021	12:53:00 AM

Rain(in.) = 0.97  
Waterbody: Rouge River

Submission ID. HPC-TS7K-3QV0P  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.64000**

Cause Rain fall cause combined sewers to overflow weir walls and discharge to Rouge River at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/29/2021	4:03:00 AM	10/30/2021	12:53:00 AM

Rain(in.) = 0.97  
Waterbody: Rouge River

Submission ID. HPC-TS7K-3QV0P  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**5.79000**

Cause Rain fall cause combined sewers to overflow weir walls and discharge to Rouge River at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/29/2021	4:03:00 AM	10/30/2021	12:53:00 AM

Rain(in.) = 0.97  
Waterbody: Rouge River

Submission ID. HPC-TS7K-3QV0P  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**2.73000**

Cause Rain fall cause combined sewers to overflow weir walls and discharge to Rouge River at designated sites per city of Dearborn Permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/29/2021	4:03:00 AM	10/30/2021	12:53:00 AM

Rain(in.) = 0.97  
Waterbody: Rouge River

Submission ID. HPC-TS7K-3QV0P  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**2.77000**

Cause Rain fall cause combined sewers to overflow weir walls and discharge to Rouge River at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
10/29/2021	4:03:00 AM	10/30/2021	12:53:00 AM

Rain(in.) = 0.97  
Waterbody: Rouge River

Submission ID. HPC-TS7K-3QV0P  
Permit MI0025542  
Outfall **4**

Dilute Raw Sewage (MG)  
**1.56000**

Cause Rain fall cause combined sewers to overflow weir walls and discharge to Rouge River at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/11/2021	6:54:00 PM	11/11/2021	9:57:00 PM

Rain(in.) = 0.43  
Waterbody: Rouge River

Submission ID. HPD-5EC4-JAE93  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.16000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit and discharge to Rouge River.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/11/2021	6:54:00 PM	11/11/2021	9:57:00 PM

Rain(in.) = 0.43  
Waterbody: Rouge River

Submission ID. HPD-5EC4-JAE93  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**1.76000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit and discharge to Rouge River.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/11/2021	6:54:00 PM	11/11/2021	9:57:00 PM

Rain(in.) = 0.43  
Waterbody: Rouge River

Submission ID. HPD-5EC4-JAE93  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit and discharge to Rouge River.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/11/2021	6:54:00 PM	11/11/2021	9:57:00 PM

Rain(in.) = 0.43  
Waterbody: Rouge River

Submission ID. HPD-5EC4-JAE93  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**0.91000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit and discharge to Rouge River.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/11/2021	6:54:00 PM	11/11/2021	9:57:00 PM

Rain(in.) = 0.43  
Waterbody: Rouge River

Submission ID. HPD-5EC4-JAE93  
Permit MI0025542  
Outfall **4**

Dilute Raw Sewage (MG)  
**0.07000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit and discharge to Rouge River.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/17/2021	11:53:00 PM	11/18/2021	12:53:00 AM

Rain(in.) = 0.17  
Waterbody: Rouge River

Submission ID. HPD-AJP9-TSG8M  
Permit MI0025542  
Outfall **1**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/17/2021	11:53:00 PM	11/18/2021	12:53:00 AM

Rain(in.) = 0.17  
Waterbody: Rouge River

Submission ID. HPD-AJP9-TSG8M  
Permit MI0025542  
Outfall **13**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/17/2021	11:53:00 PM	11/18/2021	12:53:00 AM

Rain(in.) = 0.17  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPD-AJP9-TSG8M  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/21/2021	1:55:00 PM	11/21/2021	10:21:00 PM

Rain(in.) = 0.24  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain water in combined sewers crested weir walls and spilled to river at designated points per city permit.

Submission ID. HPD-D6PN-CVH3K  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/21/2021	1:55:00 PM	11/21/2021	10:21:00 PM

Rain(in.) = 0.24  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.54000**

Cause Rain water in combined sewers crested weir walls and spilled to river at designated points per city permit.

Submission ID. HPD-D6PN-CVH3K  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/21/2021	1:55:00 PM	11/21/2021	10:21:00 PM

Rain(in.) = 0.24  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.29000**

Cause Rain water in combined sewers crested weir walls and spilled to river at designated points per city permit.

Submission ID. HPD-D6PN-CVH3K  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/25/2021	3:56:00 AM	11/25/2021	6:34:00 PM

Rain(in.) = 0.54  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.24000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPD-FYVN-GNCNJ  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/25/2021	3:56:00 AM	11/25/2021	6:34:00 PM

Rain(in.) = 0.54  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.51000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPD-FYVN-GNCNJ  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/25/2021	3:56:00 AM	11/25/2021	6:34:00 PM

Rain(in.) = 0.54  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.29000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPD-FYVN-GNCNJ  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/25/2021	3:56:00 AM	11/25/2021	6:34:00 PM

Rain(in.) = 0.54  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.28000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPD-FYVN-GNCNJ  
Permit MI0025542  
Outfall **3**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
11/25/2021	3:56:00 AM	11/25/2021	6:34:00 PM

Rain(in.) = 0.54  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn permit.

Submission ID. HPD-FYVN-GNCNJ  
Permit MI0025542  
Outfall **4**





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/5/2021	6:08:00 PM	12/6/2021	1:45:00 AM

Rain(in.) = 0.52  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.23000**

Submission ID. HPD-RW26-4HB7M  
Permit MI0025542  
Outfall **1**

Cause Rain fall caused combined sewers to overflow weir walls and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/5/2021	6:08:00 PM	12/6/2021	1:45:00 AM

Rain(in.) = 0.52  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.37000**

Submission ID. HPD-RW26-4HB7M  
Permit MI0025542  
Outfall **13**

Cause Rain fall caused combined sewers to overflow weir walls and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/5/2021	6:08:00 PM	12/6/2021	1:45:00 AM

Rain(in.) = 0.52  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.23000**

Submission ID. HPD-RW26-4HB7M  
Permit MI0025542  
Outfall **14**

Cause Rain fall caused combined sewers to overflow weir walls and discharge to the Rouge River per city of Dearborn permit.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/5/2021	6:08:00 PM	12/6/2021	1:45:00 AM

Rain(in.) = 0.52  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.21000**

Submission ID. HPD-RW26-4HB7M  
Permit MI0025542  
Outfall **3**

Cause Rain fall caused combined sewers to overflow weir walls and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/5/2021	6:08:00 PM	12/6/2021	1:45:00 AM

Rain(in.) = 0.52  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Submission ID. HPD-RW26-4HB7M  
Permit MI0025542  
Outfall **4**

Cause Rain fall caused combined sewers to overflow weir walls and discharge to the Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/10/2021	9:39:00 PM	12/11/2021	4:29:00 AM

Rain(in.) = 1.29  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.03000**

Submission ID. HPD-WC7R-53Z8V  
Permit MI0025542  
Outfall **1**

Cause Rainfall in combined sewers crested weir walls and spilled at designated areas per city permit



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/10/2021	9:39:00 PM	12/11/2021	4:29:00 AM

Rain(in.) = 1.29  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**8.58000**

Cause Rainfall in combined sewers crested weir walls and spilled at designated areas per city permit

Submission ID. HPD-WC7R-53Z8V  
Permit MI0025542  
Outfall **13**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/10/2021	9:39:00 PM	12/11/2021	4:29:00 AM

Rain(in.) = 1.29  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**6.07000**

Cause Rainfall in combined sewers crested weir walls and spilled at designated areas per city permit

Submission ID. HPD-WC7R-53Z8V  
Permit MI0025542  
Outfall **14**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/10/2021	9:39:00 PM	12/11/2021	4:29:00 AM

Rain(in.) = 1.29  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**3.92000**

Cause Rainfall in combined sewers crested weir walls and spilled at designated areas per city permit

Submission ID. HPD-WC7R-53Z8V  
Permit MI0025542  
Outfall **3**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/10/2021	9:39:00 PM	12/11/2021	4:29:00 AM

Rain(in.) = 1.29  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.59000**

Cause Rainfall in combined sewers crested weir walls and spilled at designated areas per city permit

Submission ID. HPD-WC7R-53Z8V  
Permit MI0025542  
Outfall **4**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/25/2021	3:07:00 AM	12/25/2021	1:10:00 PM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.26000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPE-7GNC-4APX7  
Permit MI0025542  
Outfall **1**

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/25/2021	3:07:00 AM	12/25/2021	1:10:00 PM

Rain(in.) = 0.56  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.65000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

Submission ID. HPE-7GNC-4APX7  
Permit MI0025542  
Outfall **13**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/25/2021	3:07:00 AM	12/25/2021	1:10:00 PM

Rain(in.) = 0.56  
Waterbody: Rouge River

Submission ID. HPE-7GNC-4APX7  
Permit MI0025542  
Outfall **14**

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
12/25/2021	3:07:00 AM	12/25/2021	1:10:00 PM

Rain(in.) = 0.56  
Waterbody: Rouge River

Submission ID. HPE-7GNC-4APX7  
Permit MI0025542  
Outfall **3**

Dilute Raw Sewage (MG)  
**1.35000**

Cause Rain fall caused combined sewers to overflow weir walls at designated sites per city of Dearborn Permit.

## Totals Dearborn CSO

Dilute Raw Sewage (MG)  
**1495.05000**

SOC: The NPDES Permit requires elimination of all uncontrolled CSO outfalls by December 31, 2027

EGLE Action: Long-term Control Program being implemented; the Department reissued a permit that recognizes a modified LTCP. The permittee submitted a revised basis of design report in late 2009 followed by a financial capability assessment. The City requested a modified LTCP (and NPDES permit), to extend the construction schedule due to economic hardship. The modified LTCP will 1) correct existing construction issues with some shafts by using sewer separation and/or reconfigured use of shafts, and 2) revise some of the additional shaft projects to sewer separation projects. The Department approved the City's request and issued a schedule in the modified permit requiring elimination of all untreated overflow outfalls by December 31, 2027; several outfalls and the associated overflows have already been eliminated.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

### GLWA WRRF

Start Day	Start Time	End Day	End Time
2/23/2021	1:42:00 PM	2/24/2021	4:04:00 PM

Rain(in.) = 0.02  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.16000**

Cause Melting Snow

Submission ID. HP6-REF0-5W8XP

Outfall **63**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
2/23/2021	2:28:00 PM	2/23/2021	5:47:00 PM

Rain(in.) = 0.02  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.46000**

Cause Snow melt

Submission ID. HP6-REF0-5W8XP

Outfall **66**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	12:06:00 AM	3/28/2021	4:17:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.32000**

Cause Rain

Submission ID. HP7-G5JP-9EXB9

Outfall **63**



MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	12:08:00 AM	3/26/2021	10:05:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **66**

Dilute Raw Sewage (MG)  
**0.47000**

Cause Rain

### GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	12:18:00 AM	3/28/2021	1:17:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain

### GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	1:24:00 AM	3/26/2021	4:36:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	1:27:00 AM	3/26/2021	1:55:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	1:36:00 AM	3/28/2021	3:30:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**1.26000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	1:37:00 AM	3/26/2021	3:48:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**2.84000**

Cause Rain





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	1:44:00 AM	3/26/2021	5:15:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**23.64000**

Cause Rain

Submission ID. HP7-G5JP-9EXB9

Outfall **74**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	1:53:00 AM	3/26/2021	4:55:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**7.88000**

Cause Rain

Submission ID. HP7-G5JP-9EXB9

Outfall **7**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	2:03:00 AM	3/26/2021	4:19:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**1.51000**

Cause Rain

Submission ID. HP7-G5JP-9EXB9

Outfall **16**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:05:00 AM	3/26/2021	3:34:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**3.98000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:11:00 AM	3/26/2021	5:45:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:17:00 AM	3/26/2021	6:21:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**62.55000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:20:00 AM	3/26/2021	3:36:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**0.55000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:20:00 AM	3/26/2021	3:36:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:27:00 AM	3/26/2021	4:40:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.17000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:28:00 AM	3/26/2021	5:05:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**6.62000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:38:00 AM	3/26/2021	2:53:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**0.65000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:38:00 AM	3/26/2021	3:59:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**1.65000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:43:00 AM	3/26/2021	4:08:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Outfall **65**

Dilute Raw Sewage (MG)  
**1.91000**

Cause Rain

### GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:44:00 AM	3/26/2021	5:35:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**3.09000**

Cause Rain

### GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:49:00 AM	3/26/2021	2:54:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **27**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	2:52:00 AM	3/26/2021	4:21:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **31**

Dilute Raw Sewage (MG)  
**4.37000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	3:00:00 AM	3/28/2021	12:11:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	3:21:00 AM	3/26/2021	5:33:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**64.80000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	4:20:00 AM	3/26/2021	7:08:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **6**

Dilute Raw Sewage (MG)  
**23.23000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-G5JP-9EXB9

Start Day	Start Time	End Day	End Time
3/26/2021	4:44:00 AM	3/26/2021	5:54:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP7-TXCC-CPP1Z

Start Day	Start Time	End Day	End Time
4/8/2021	3:53:00 PM	4/8/2021	6:20:00 PM

Rain(in.) = 0.28  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-TXCC-CPP1Z

Start Day	Start Time	End Day	End Time
4/8/2021	4:16:00 PM	4/8/2021	4:35:00 PM

Rain(in.) = 0.28  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.43000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-TXCC-CPP1Z

Start Day	Start Time	End Day	End Time
4/8/2021	5:36:00 PM	4/8/2021	6:10:00 PM

Rain(in.) = 0.28  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.76000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-WS0Z-CWF99

Start Day	Start Time	End Day	End Time
4/10/2021	8:37:00 PM	4/11/2021	1:58:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP7-WS0Z-CWF99

Start Day	Start Time	End Day	End Time
4/10/2021	8:45:00 PM	4/11/2021	3:07:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.54000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-WS0Z-CWF99

Start Day	Start Time	End Day	End Time
4/11/2021	1:26:00 AM	4/11/2021	2:06:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.90000**

Cause Rain

## GLWA WRRF

Submission ID. HP7-WS0Z-CWF99

Start Day	Start Time	End Day	End Time
4/11/2021	1:30:00 AM	4/11/2021	1:40:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP7-WS0Z-CWF99

Start Day	Start Time	End Day	End Time
4/11/2021	2:51:00 AM	4/11/2021	2:56:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	4:29:00 PM	5/23/2021	7:30:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	4:37:00 PM	5/23/2021	6:00:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**0.55000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	5:12:00 PM	5/23/2021	11:10:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.73000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	5:18:00 PM	5/23/2021	10:52:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**31.20000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	5:19:00 PM	5/23/2021	5:52:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.15000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	5:24:00 PM	5/23/2021	6:00:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.56000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	5:28:00 PM	5/23/2021	5:58:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**0.09000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-13YT-084HZ

Start Day	Start Time	End Day	End Time
5/23/2021	5:41:00 PM	5/23/2021	7:01:00 PM

Rain(in.) = 0.3  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**0.75000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-1XRQ-4X0VE

Start Day	Start Time	End Day	End Time
5/28/2021	9:27:00 AM	5/28/2021	1:16:00 PM

Rain(in.) = 0.49  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.10000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-1XRQ-4X0VE

Start Day	Start Time	End Day	End Time
5/28/2021	9:51:00 AM	5/28/2021	10:52:00 AM

Rain(in.) = 0.49  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-1XRQ-4X0VE

Start Day	Start Time	End Day	End Time
5/28/2021	1:31:00 PM	5/28/2021	4:31:00 PM

Rain(in.) = 0.49  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**10.00000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-66J3-50FJV

Start Day	Start Time	End Day	End Time
6/2/2021	6:10:00 PM	6/2/2021	6:31:00 PM

Rain(in.) = 0.53  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-66J3-50FJV

Start Day	Start Time	End Day	End Time
6/2/2021	6:12:00 PM	6/2/2021	7:32:00 PM

Rain(in.) = 0.53  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.15000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-66J3-50FJV

Start Day	Start Time	End Day	End Time
6/2/2021	6:42:00 PM	6/2/2021	6:46:00 PM

Rain(in.) = 0.53  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	2:26:00 PM	6/8/2021	2:48:00 PM

Rain(in.) = 0.37  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**0.44000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	2:46:00 PM	6/8/2021	3:20:00 PM

Rain(in.) = 0.37  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**0.83000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	3:23:00 PM	6/8/2021	4:03:00 PM

Rain(in.) = 0.37  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	3:23:00 PM	6/8/2021	4:14:00 PM

Rain(in.) = 0.37  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**1.35000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	3:27:00 PM	6/8/2021	3:55:00 PM

Rain(in.) = 0.37  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.34000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	3:30:00 PM	6/8/2021	4:15:00 PM

Rain(in.) = 0.37  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**0.68000**

Cause Rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	3:36:00 PM	6/8/2021	4:26:00 PM

Rain(in.) = 0.37  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**2.14000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-ATDD-2233N

Start Day	Start Time	End Day	End Time
6/8/2021	4:42:00 PM	6/8/2021	6:22:00 PM

Rain(in.) = 0.37  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**51.67000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-JEZ2-FC628

Start Day	Start Time	End Day	End Time
6/18/2021	8:10:00 AM	6/18/2021	8:26:00 AM

Rain(in.) = 0.51  
Waterbody: Detroit River

Outfall **27**

Dilute Raw Sewage (MG)  
**0.41000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-JEZ2-FC628

Start Day	Start Time	End Day	End Time
6/18/2021	8:51:00 AM	6/18/2021	8:57:00 AM

Rain(in.) = 0.51  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	8:56:00 PM	6/20/2021	9:01:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **27**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:01:00 PM	6/21/2021	12:44:00 AM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**11.56000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:01:00 PM	6/21/2021	12:44:00 AM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:08:00 PM	6/20/2021	10:00:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**2.09000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:10:00 PM	6/20/2021	11:00:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**5.21000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:14:00 PM	6/20/2021	11:20:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **16**

Dilute Raw Sewage (MG)  
**1.10000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:14:00 PM	6/21/2021	7:51:00 AM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:34:00 PM	6/20/2021	9:50:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **18**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:38:00 PM	6/21/2021	5:19:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.21000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:39:00 PM	6/20/2021	11:04:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.08000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:39:00 PM	6/21/2021	4:30:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.57000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/20/2021	9:39:00 PM	6/21/2021	4:00:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.18000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:42:00 PM	6/20/2021	9:59:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **31**

Dilute Raw Sewage (MG)  
**0.61000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:47:00 PM	6/21/2021	12:01:00 AM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**66.64000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:49:00 PM	6/21/2021	4:49:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**0.72000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	9:59:00 PM	6/20/2021	10:51:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**8.35000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/20/2021	10:07:00 PM	6/21/2021	5:09:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**13.05000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/20/2021	10:18:00 PM	6/21/2021	12:47:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**1.93000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/20/2021	10:20:00 PM	6/20/2021	11:06:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**2.06000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/20/2021	10:30:00 PM	6/21/2021	6:11:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**13.79000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-MBJD-BX0BC

Start Day	Start Time	End Day	End Time
6/21/2021	12:01:00 AM	6/21/2021	5:54:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**71.91000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/21/2021	4:11:00 AM	6/21/2021	5:11:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**0.35000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/21/2021	3:52:00 PM	6/21/2021	5:08:00 AM

Rain(in.) = 1.1  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.11000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	9:06:00 AM	6/29/2021	3:05:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**1.56000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	9:49:00 AM	6/29/2021	2:16:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.88000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	9:56:00 AM	6/29/2021	7:06:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**197.37000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:03:00 AM	6/29/2021	2:59:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.55000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:04:00 AM	6/29/2021	3:56:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.53000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:06:00 AM	6/29/2021	3:07:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**20.83000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/29/2021	2:44:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**1.92000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:09:00 AM	6/28/2021	8:37:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**4.04000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:11:00 AM	6/25/2021	11:01:00 AM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**1.11000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:34:00 AM	6/25/2021	8:20:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**90.48000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:43:00 AM	6/26/2021	12:26:00 AM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**9.67000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:51:00 AM	6/25/2021	8:00:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**20.66000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	6:41:00 PM	6/29/2021	2:46:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**8.53000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	6:42:00 PM	6/29/2021	2:27:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**89.81000**

Cause Rain

### GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	6:43:00 PM	6/25/2021	7:29:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **69**

Dilute Raw Sewage (MG)  
**1.81000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	6:44:00 PM	6/29/2021	3:27:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**46.91000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	6:45:00 PM	6/26/2021	6:53:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **18**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	6:46:00 PM	6/26/2021	4:08:00 AM

Rain(in.) = 2.52  
Waterbody: Rouge River

Outfall **65**

Dilute Raw Sewage (MG)  
**78.48000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	7:22:00 PM	6/26/2021	10:49:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**339.86000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	7:29:00 PM	6/26/2021	11:05:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**251.37000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	7:47:00 PM	6/26/2021	8:10:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**599.99000**

Cause Rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	9:29:00 PM	6/26/2021	9:27:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	10:02:00 PM	6/26/2021	5:41:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **27**

Dilute Raw Sewage (MG)  
**10.43000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	10:07:00 PM	6/28/2021	2:48:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **21**

Dilute Raw Sewage (MG)  
**32.96000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	10:12:00 PM	6/30/2021	5:55:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**19.34000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	10:14:00 PM	6/26/2021	6:02:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **32**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	10:16:00 PM	6/26/2021	7:32:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **43**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	10:17:00 PM	6/26/2021	11:53:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**452.36000**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **12**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	10:43:00 PM	6/27/2021	8:06:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HP9-XG49-54C72

Outfall **38**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:01:00 PM	6/26/2021	4:10:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **34**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:07:00 PM	6/28/2021	7:50:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **24**

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:10:00 PM	6/26/2021	4:33:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**2.68000**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **31**

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:11:00 PM	6/26/2021	2:20:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**1.68000**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **29**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:17:00 PM	6/26/2021	1:19:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**2.43000**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **30**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:27:00 PM	6/26/2021	1:56:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**2.75000**

Cause Rain

Submission ID. HP9-XEJH-X14P7

Outfall **33**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:33:00 PM	6/26/2021	2:11:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HP9-XG49-54C72

Outfall **39**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/25/2021	11:39:00 PM	6/26/2021	2:43:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **6**

Dilute Raw Sewage (MG)  
**11.09000**

Cause Rain

## GLWA WRRF

Submission ID. HP9-XG49-54C72

Start Day	Start Time	End Day	End Time
6/25/2021	11:50:00 PM	6/26/2021	3:37:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **44**

Dilute Raw Sewage (MG)  
**2.05000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-R7DJ-8YGSZ

Start Day	Start Time	End Day	End Time
6/26/2021	12:04:00 AM	6/26/2021	8:46:00 AM

Rain(in.) = 7  
Waterbody: Rouge River

Permit MI0022802  
Outfall **107**

Dilute Raw Sewage (MG)  
**88.30000**

Cause Due to heavy and sustained rainfall in the tributary area (approximately 5" - 8" of precipitation), elevations in the upstream sewer were high posing a potential for basement backups. The bypass gates were opened when the influent level reached 99.23 feet.



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-XEJH-X14P7

Start Day	Start Time	End Day	End Time
6/26/2021	12:04:00 AM	6/26/2021	4:05:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Outfall **80**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-5ACT-VSRWSW

Start Day	Start Time	End Day	End Time
7/6/2021	5:43:00 PM	7/6/2021	6:30:00 PM

Rain(in.) = 0.16  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-2KCV-83HN1

Start Day	Start Time	End Day	End Time
7/8/2021	8:58:00 AM	7/8/2021	9:02:00 AM

Rain(in.) = 0.28  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.21000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-2KCV-83HN1

Start Day	Start Time	End Day	End Time
7/8/2021	9:20:00 AM	7/8/2021	9:30:00 AM

Rain(in.) = 0.28  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-2KCV-83HN1

Start Day	Start Time	End Day	End Time
7/8/2021	4:56:00 PM	7/8/2021	5:16:00 PM

Rain(in.) = 0.28  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**0.21000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/12/2021	12:34:00 PM	7/12/2021	1:00:00 PM

Rain(in.) = 0.32  
Waterbody: Detroit River

Outfall **44**

Dilute Raw Sewage (MG)  
**4.19000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	12:35:00 PM	7/13/2021	12:51:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.07000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	12:40:00 PM	7/13/2021	1:20:00 PM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.18000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	12:47:00 PM	7/13/2021	1:16:00 PM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	1:11:00 PM	7/13/2021	5:02:00 PM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**0.00000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	1:15:00 PM	7/13/2021	1:45:00 PM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.67000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	1:22:00 PM	7/13/2021	3:50:00 PM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**3.32000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-5DA3-41WV2

Start Day	Start Time	End Day	End Time
7/13/2021	2:30:00 PM	7/13/2021	2:35:00 PM

Rain(in.) = 0.32  
Waterbody: Detroit River

Outfall **33**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	8:34:00 AM	7/16/2021	9:59:00 AM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**1.91000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	8:45:00 AM	7/16/2021	1:59:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**2.42000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	8:46:00 AM	7/16/2021	11:00:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**40.97000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	8:52:00 AM	7/16/2021	8:15:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**9.75000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	9:00:00 AM	7/16/2021	5:21:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	9:06:00 AM	7/16/2021	9:48:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**6.23000**

Cause Rain

Submission ID. HPA-E6TJ-5YA3N

Outfall **5**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	9:19:00 AM	7/16/2021	3:33:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**28.10000**

Cause Rain

Submission ID. HPA-E8S2-E066K

Outfall **60**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	9:28:00 AM	7/16/2021	3:38:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**9.60000**

Cause Rain

Submission ID. HPA-E6TJ-5YA3N

Outfall **31**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	9:31:00 AM	7/16/2021	7:07:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**165.83000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	9:49:00 AM	7/17/2021	10:24:00 AM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **21**

Dilute Raw Sewage (MG)  
**3.96000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	9:49:00 AM	7/16/2021	1:24:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **27**

Dilute Raw Sewage (MG)  
**3.75000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	9:52:00 AM	7/16/2021	10:22:00 AM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **20**

Dilute Raw Sewage (MG)  
**0.39000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	9:55:00 AM	7/16/2021	11:00:00 AM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **29**

Dilute Raw Sewage (MG)  
**0.30000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	9:56:00 AM	7/16/2021	10:06:00 AM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **34**

Dilute Raw Sewage (MG)  
**0.03000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	9:56:00 AM	7/16/2021	3:20:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**2.41000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	10:12:00 AM	7/16/2021	11:59:00 AM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.16000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	10:14:00 AM	7/16/2021	3:38:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**9.44000**

Cause Rain





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-E6TJ-5YA3N

Start Day	Start Time	End Day	End Time
7/16/2021	10:16:00 AM	7/16/2021	10:26:00 AM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **40**

Dilute Raw Sewage (MG)  
**0.69000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	10:20:00 AM	7/16/2021	12:59:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**4.00000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	10:35:00 AM	7/16/2021	4:10:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**60.24000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	10:36:00 AM	7/16/2021	12:29:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **65**

Dilute Raw Sewage (MG)  
**2.50000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	11:00:00 AM	7/16/2021	1:28:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **69**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VB8Z-A19J4

Start Day	Start Time	End Day	End Time
7/16/2021	11:20:00 AM	7/16/2021	4:40:00 PM

Rain(in.) = 4.5  
Waterbody: Rouge River

Permit MI0022802

Outfall **107**

Dilute Raw Sewage (MG)  
**11.40000**

Cause Due to heavy and sustained rainfall in the tributary area (approximately 2.4"-4.5" of precipitation), elevations in the upstream sewer were high posing a potential for basement backups. The bypass gates were opened when the influent level reached 100.06 f



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	11:28:00 AM	7/16/2021	12:08:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.25000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	11:34:00 AM	7/16/2021	12:29:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **72**

Dilute Raw Sewage (MG)  
**6.51000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	9:00:00 PM	7/16/2021	3:11:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.22000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	9:48:00 PM	7/16/2021	9:59:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**2.43000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-E8S2-E066K

Start Day	Start Time	End Day	End Time
7/16/2021	10:19:00 PM	7/16/2021	2:26:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**28.36000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-BVR5-F8NKX

Start Day	Start Time	End Day	End Time
7/20/2021	7:12:00 PM	7/20/2021	7:22:00 PM

Rain(in.) = 1.56  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**2.41000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-BVR5-F8NKX

Start Day	Start Time	End Day	End Time
7/20/2021	7:16:00 PM	7/20/2021	7:31:00 PM

Rain(in.) = 1.56  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-BVR5-F8NKX

Start Day	Start Time	End Day	End Time
7/20/2021	7:16:00 PM	7/20/2021	9:21:00 PM

Rain(in.) = 1.56  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.58000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-BVR5-F8NKX

Start Day	Start Time	End Day	End Time
7/20/2021	7:20:00 PM	7/20/2021	8:15:00 PM

Rain(in.) = 1.56  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**2.50000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	7:41:00 PM	7/24/2021	8:22:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.19000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	7:48:00 PM	7/25/2021	1:14:00 AM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**15.15000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	7:50:00 PM	7/24/2021	11:30:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.15000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-NWFZ-8CW0Z

Start Day	Start Time	End Day	End Time
7/24/2021	7:56:00 PM	7/24/2021	8:26:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**2.41000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:04:00 PM	7/24/2021	8:28:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.44000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:04:00 PM	7/24/2021	11:06:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**9.39000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:07:00 PM	7/25/2021	5:08:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**26.09000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:10:00 PM	7/25/2021	5:07:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**4.19000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:11:00 PM	7/25/2021	7:42:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**12.23000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-NWFZ-8CW0Z

Start Day	Start Time	End Day	End Time
7/24/2021	8:11:00 PM	7/24/2021	9:56:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **65**

Dilute Raw Sewage (MG)  
**7.37000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:13:00 PM	7/24/2021	10:51:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**0.33000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:13:00 PM	7/24/2021	10:40:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**20.26000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	8:14:00 PM	7/24/2021	8:54:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.77000**

Cause Rain

Submission ID. HPA-NT49-1QVQY

Outfall **19**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	8:17:00 PM	7/24/2021	9:17:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**1.17000**

Cause Rain

Submission ID. HPA-NT49-1QVQY

Outfall **21**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	8:17:00 PM	7/25/2021	1:11:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPA-NT49-1QVQY

Outfall **22**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:18:00 PM	7/24/2021	10:48:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **27**

Dilute Raw Sewage (MG)  
**2.97000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:20:00 PM	7/25/2021	3:00:00 AM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**3.58000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:21:00 PM	7/24/2021	8:41:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **29**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:25:00 PM	7/25/2021	1:11:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**66.91000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:25:00 PM	7/25/2021	3:32:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**279.82000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-NWFZ-8CW0Z

Start Day	Start Time	End Day	End Time
7/24/2021	8:46:00 PM	7/24/2021	8:59:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	8:58:00 PM	7/24/2021	11:23:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **40**

Dilute Raw Sewage (MG)  
**9.22000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	9:45:00 PM	7/24/2021	10:00:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**2.55000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VBNF-641VR

Start Day	Start Time	End Day	End Time
7/24/2021	10:00:00 PM	7/25/2021	12:00:00 AM

Rain(in.) = 3.4  
Waterbody: Rouge River

Permit MI0022802  
Outfall **107**

Dilute Raw Sewage (MG)  
**4.20000**

Cause Due to heavy and sustained rainfall in the tributary area (approximately 3.4"), elevations in the upstream sewer were high posing a potential for basement backups. The bypass gates were opened when the influent level reached 99.8 feet. The opening of the



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/25/2021	12:24:00 AM	7/25/2021	12:29:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**0.22000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-TQ5F-RQNE9

Start Day	Start Time	End Day	End Time
8/8/2021	6:25:00 AM	8/8/2021	7:10:00 AM

Rain(in.) = 0.02  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**0.33000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-TQ5F-RQNE9

Start Day	Start Time	End Day	End Time
8/8/2021	7:01:00 AM	8/8/2021	7:20:00 AM

Rain(in.) = 0.02  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-TQ5F-RQNE9

Start Day	Start Time	End Day	End Time
8/8/2021	7:06:00 AM	8/8/2021	7:28:00 AM

Rain(in.) = 0.02  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**0.71000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-TQ5F-RQNE9

Start Day	Start Time	End Day	End Time
8/8/2021	7:09:00 AM	8/8/2021	7:49:00 AM

Rain(in.) = 0.02  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**0.30000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-0Q08-3X1GW

Start Day	Start Time	End Day	End Time
8/9/2021	1:36:00 PM	8/9/2021	1:47:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	1:44:00 PM	8/9/2021	2:34:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.22000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	1:45:00 PM	8/9/2021	2:46:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	1:49:00 PM	8/9/2021	2:29:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.90000**

Cause Rain





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	1:56:00 PM	8/9/2021	2:40:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.49000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **62**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	2:11:00 PM	8/9/2021	2:32:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPB-0Q08-3X1GW

Outfall **18**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	2:12:00 PM	8/9/2021	2:27:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.31000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **19**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	2:13:00 PM	8/9/2021	2:38:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	2:13:00 PM	8/9/2021	2:38:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**4.40000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	2:13:00 PM	8/9/2021	4:12:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **24**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	2:14:00 PM	8/9/2021	2:49:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**0.66000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-0Q08-3X1GW

Start Day	Start Time	End Day	End Time
8/9/2021	2:14:00 PM	8/9/2021	2:19:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **21**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	2:17:00 PM	8/9/2021	3:36:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.10000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	2:19:00 PM	8/9/2021	3:44:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**3.63000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **7**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	2:21:00 PM	8/9/2021	2:49:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.46000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **31**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	2:21:00 PM	8/9/2021	4:47:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**2.22000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **64**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-0Q08-3X1GW

Start Day	Start Time	End Day	End Time
8/9/2021	2:26:00 PM	8/9/2021	3:01:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	3:02:00 PM	8/9/2021	5:22:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**24.33000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-VFQC-APZZE

Start Day	Start Time	End Day	End Time
8/9/2021	3:09:00 PM	8/9/2021	3:55:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**1.99000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	3:10:00 PM	8/9/2021	4:12:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**20.12000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **25**

## GLWA WRRF

Start Day	Start Time	End Day	End Time
8/9/2021	3:24:00 PM	8/9/2021	4:03:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.45000**

Cause Rain

Submission ID. HPA-VFQC-APZZE

Outfall **9**

## GLWA WRRF

Start Day	Start Time	End Day	End Time
8/11/2021	3:05:00 PM	8/11/2021	3:37:00 PM

Rain(in.) = 3.14  
Waterbody: River Rouge

Dilute Raw Sewage (MG)  
**0.04000**

Cause Rain

Submission ID. HPA-X2JE-K1349

Outfall **63**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/11/2021	3:08:00 PM	8/12/2021	7:40:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Dilute Raw Sewage (MG)  
**1.55000**

Cause Rain

Submission ID. HPA-X2JE-K1349

Outfall **67**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/12/2021	1:54:00 AM	8/12/2021	2:28:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

Submission ID. HPA-X2JE-K1349

Outfall **68**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/12/2021	1:55:00 AM	8/12/2021	6:41:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Dilute Raw Sewage (MG)  
**31.92000**

Cause Rain

Submission ID. HPA-X2JE-K1349

Outfall **79**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:04:00 AM	8/12/2021	2:38:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **74**

Dilute Raw Sewage (MG)  
**78.04000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:04:00 AM	8/12/2021	5:15:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **75**

Dilute Raw Sewage (MG)  
**0.22000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:09:00 AM	8/12/2021	5:36:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **77**

Dilute Raw Sewage (MG)  
**2.58000**

Cause Rain





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:11:00 AM	8/12/2021	10:37:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**11.86000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:12:00 AM	8/12/2021	2:38:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **60**

Dilute Raw Sewage (MG)  
**6.07000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:12:00 AM	8/12/2021	3:06:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **61**

Dilute Raw Sewage (MG)  
**9.29000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:12:00 AM	8/12/2021	6:56:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **64**

Dilute Raw Sewage (MG)  
**33.69000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:13:00 AM	8/12/2021	7:37:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **20**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:13:00 AM	8/12/2021	5:39:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **65**

Dilute Raw Sewage (MG)  
**2.89000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:15:00 AM	8/12/2021	7:22:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **18**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:15:00 AM	8/12/2021	7:44:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**6.05000**

Cause Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:16:00 AM	8/12/2021	9:45:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**86.13000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:16:00 AM	8/12/2021	9:45:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **24**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:16:00 AM	8/12/2021	8:34:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **31**

Dilute Raw Sewage (MG)  
**6.86000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:23:00 AM	8/12/2021	8:50:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.67000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:40:00 AM	8/12/2021	9:09:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**205.13000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:58:00 AM	8/12/2021	8:02:00 PM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	3:09:00 AM	8/12/2021	9:33:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	3:38:00 AM	8/12/2021	7:33:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **40**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	3:52:00 AM	8/12/2021	3:14:00 PM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**22.76000**

Cause Rain

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	5:30:00 AM	8/12/2021	8:00:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall **107**

Dilute Raw Sewage (MG)  
**4.50000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	7:06:00 AM	8/12/2021	7:43:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall **43**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPB-7QYY-7NRGG

Start Day	Start Time	End Day	End Time
8/24/2021	6:45:00 PM	8/24/2021	7:15:00 PM

Rain(in.) = 0.42  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.67000**

Cause Rain

### GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:22:00 AM	8/27/2021	12:20:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.13000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:22:00 AM	8/27/2021	12:27:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.07000**

Cause Rain

### GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:26:00 AM	8/27/2021	2:42:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.38000**

Cause Rain

### GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:26:00 AM	8/27/2021	12:05:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**2.55000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:28:00 AM	8/27/2021	12:12:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.87000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:29:00 AM	8/27/2021	2:14:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**8.22000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:40:00 AM	8/27/2021	1:02:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**3.68000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:42:00 AM	8/27/2021	12:13:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**6.63000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:43:00 AM	8/27/2021	12:39:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**8.34000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	11:50:00 AM	8/27/2021	2:01:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**45.58000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	12:17:00 PM	8/27/2021	2:36:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **65**

Dilute Raw Sewage (MG)  
**5.92000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	12:19:00 PM	8/27/2021	1:52:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall **69**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	12:35:00 PM	8/27/2021	3:15:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.49000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	12:35:00 PM	8/27/2021	3:22:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**7.29000**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **7**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	12:42:00 PM	8/27/2021	4:32:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**8.87000**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **11**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	12:42:00 PM	8/27/2021	4:32:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **12**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	12:43:00 PM	8/27/2021	1:03:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **19**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	12:57:00 PM	8/27/2021	2:44:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **23**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	12:57:00 PM	8/27/2021	3:57:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **24**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	12:58:00 PM	8/27/2021	3:21:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	1:11:00 PM	8/27/2021	3:57:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPB-9J3D-QKZCJ

Start Day	Start Time	End Day	End Time
8/27/2021	1:25:00 PM	8/27/2021	3:08:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	1:39:00 PM	8/27/2021	1:59:00 PM

Rain(in.) = 0.22  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.48000**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **9**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	11:25:00 PM	8/27/2021	2:03:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.71000**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **67**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	11:36:00 PM	8/27/2021	3:17:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**21.21000**

Cause Rain

Submission ID. HPB-9J3D-QKZCJ

Outfall **64**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	6:46:00 PM	8/29/2021	7:56:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.31000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	6:47:00 PM	8/29/2021	7:02:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	6:48:00 PM	8/29/2021	8:38:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.23000**

Cause Rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	6:49:00 PM	8/29/2021	8:15:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**1.90000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:01:00 PM	8/29/2021	8:15:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**6.64000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:09:00 PM	8/29/2021	7:44:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**0.91000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:09:00 PM	8/29/2021	9:06:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**1.28000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:10:00 PM	8/29/2021	10:06:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**8.02000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:12:00 PM	8/29/2021	7:47:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **18**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:17:00 PM	8/29/2021	9:28:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**2.75000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:17:00 PM	8/29/2021	7:43:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**2.33000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:20:00 PM	8/29/2021	10:00:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.49000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:28:00 PM	8/29/2021	9:39:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:34:00 PM	8/29/2021	9:58:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**6.35000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:38:00 PM	8/29/2021	10:38:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**43.64000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:41:00 PM	8/29/2021	11:12:00 PM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**18.86000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:44:00 PM	8/29/2021	8:59:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:48:00 PM	8/29/2021	9:26:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **24**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:48:00 PM	8/29/2021	9:26:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**34.15000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:58:00 PM	8/29/2021	8:36:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**4.32000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	8:07:00 PM	8/29/2021	8:22:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**1.34000**

Cause Rain



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	8:46:00 PM	8/29/2021	9:43:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPB-JE6T-KYDVH

Start Day	Start Time	End Day	End Time
9/7/2021	7:46:00 PM	9/8/2021	12:31:00 AM

Rain(in.) = 0.34  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**7.50000**

Cause Rain

### GLWA WRRF

Submission ID. HPB-JE6T-KYDVH

Start Day	Start Time	End Day	End Time
9/7/2021	8:05:00 PM	9/8/2021	12:10:00 AM

Rain(in.) = 0.34  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.22000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-JE6T-KYDVH

Start Day	Start Time	End Day	End Time
9/7/2021	11:33:00 PM	9/7/2021	11:43:00 PM

Rain(in.) = 0.34  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-JE6T-KYDVH

Start Day	Start Time	End Day	End Time
9/7/2021	11:42:00 PM	9/8/2021	12:22:00 AM

Rain(in.) = 0.34  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.08000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:34:00 PM	9/14/2021	7:40:00 PM

Rain(in.) = 0.29  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.01000**

Cause Rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:42:00 PM	9/14/2021	8:03:00 PM

Rain(in.) = 0.29  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.09000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:44:00 PM	9/14/2021	8:14:00 PM

Rain(in.) = 0.29  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.08000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:48:00 PM	9/14/2021	9:14:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **18**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:51:00 PM	9/14/2021	8:01:00 PM

Rain(in.) = 0.29  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.22000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:55:00 PM	9/14/2021	8:34:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**1.91000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:56:00 PM	9/14/2021	8:12:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **20**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:57:00 PM	9/14/2021	8:20:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**1.62000**

Cause Rain

### GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	7:57:00 PM	9/14/2021	8:17:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**3.08000**

Cause Rain

### GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	8:00:00 PM	9/14/2021	8:29:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **31**

Dilute Raw Sewage (MG)  
**0.50000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	8:01:00 PM	9/14/2021	8:56:00 PM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**1.80000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	8:04:00 PM	9/14/2021	9:45:00 PM

Rain(in.) = 0.29  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.27000**

Cause Rain

## GLWA WRRF

Submission ID. HPB-WXVH-Y94XF

Start Day	Start Time	End Day	End Time
9/14/2021	8:34:00 PM	9/15/2021	12:59:00 AM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	7:27:00 PM	9/22/2021	12:37:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**5.07000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **64**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	7:37:00 PM	9/23/2021	4:22:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**46.28000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **7**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	7:37:00 PM	9/23/2021	4:22:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **8**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	8:15:00 PM	9/23/2021	2:26:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**1.24000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	8:26:00 PM	9/23/2021	3:16:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.75000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	8:30:00 PM	9/21/2021	11:00:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**3.36000**

Cause RAIN



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	8:35:00 PM	9/21/2021	8:48:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.03000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	8:36:00 PM	9/22/2021	3:40:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**2.51000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	8:39:00 PM	9/23/2021	1:12:00 PM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	8:40:00 PM	9/23/2021	2:23:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**8.29000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **31**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	8:46:00 PM	9/22/2021	12:27:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**14.39000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **79**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	8:50:00 PM	9/23/2021	1:54:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**14.75000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **19**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	8:54:00 PM	9/22/2021	9:37:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**89.37000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **23**

## GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	8:54:00 PM	9/23/2021	2:48:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **24**

## GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	9:08:00 PM	9/23/2021	2:48:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**440.33000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **25**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:08:00 PM	9/23/2021	2:48:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **26**

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:10:00 PM	9/22/2021	12:02:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**22.44000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:12:00 PM	9/23/2021	4:34:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**27.55000**

Cause RAIN



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:12:00 PM	9/23/2021	4:34:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:12:00 PM	9/23/2021	1:37:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**142.72000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:37:00 PM	9/22/2021	1:38:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**57.90000**

Cause RAIN



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	9:44:00 PM	9/22/2021	12:35:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **40**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	10:15:00 PM	9/22/2021	12:57:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**12.88000**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **61**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	10:55:00 PM	9/21/2021	11:25:00 PM

Rain(in.) = 4.64  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

Submission ID. HPC-3E48-03ZZT

Outfall **20**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	10:58:00 PM	9/22/2021	12:19:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **43**

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	11:17:00 PM	9/23/2021	12:42:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**0.83000**

Cause RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	11:19:00 PM	9/21/2021	11:34:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.01000**

Cause RAIN



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	11:21:00 PM	9/21/2021	11:27:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **69**

Dilute Raw Sewage (MG)  
**0.08000**

Cause RAIN

### GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	11:26:00 PM	9/21/2021	11:31:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**0.06000**

Cause RAIN

### GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/22/2021	6:52:00 AM	9/23/2021	5:14:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**0.00100**

Cause RAIN

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPC-CVBM-4CSD8

Start Day	Start Time	End Day	End Time
10/8/2021	12:23:00 PM	10/8/2021	12:53:00 PM

Rain(in.) = 0.36  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.07000**

Cause Rain

### GLWA WRRF

Submission ID. HPC-CVBM-4CSD8

Start Day	Start Time	End Day	End Time
10/8/2021	12:29:00 PM	10/8/2021	12:55:00 PM

Rain(in.) = 0.36  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Rain

### GLWA WRRF

Submission ID. HPC-CVBM-4CSD8

Start Day	Start Time	End Day	End Time
10/8/2021	12:40:00 PM	10/8/2021	2:01:00 PM

Rain(in.) = 0.36  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**1.63000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-FD5G-RQT0V

Start Day	Start Time	End Day	End Time
10/14/2021	5:32:00 PM	10/16/2021	3:10:00 AM

Rain(in.) = 0.88  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.06000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-FD5G-RQT0V

Start Day	Start Time	End Day	End Time
10/14/2021	5:40:00 PM	10/14/2021	6:05:00 PM

Rain(in.) = 0.88  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.11000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-FD5G-RQT0V

Start Day	Start Time	End Day	End Time
10/15/2021	10:04:00 AM	10/15/2021	10:09:00 AM

Rain(in.) = 0.88  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.09000**

Cause Rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-MG96-D7C25

Start Day	Start Time	End Day	End Time
10/21/2021	6:20:00 AM	10/21/2021	6:56:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.16000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-MG96-D7C25

Start Day	Start Time	End Day	End Time
10/21/2021	6:24:00 AM	10/21/2021	6:58:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.02000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-MG96-D7C25

Start Day	Start Time	End Day	End Time
10/21/2021	6:27:00 AM	10/21/2021	7:07:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**5.40000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-MG96-D7C25

Start Day	Start Time	End Day	End Time
10/21/2021	6:36:00 AM	10/21/2021	7:11:00 AM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**0.79000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/24/2021	9:52:00 PM	10/25/2021	12:40:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**1.30000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/24/2021	9:55:00 PM	10/25/2021	1:09:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**3.58000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/24/2021	9:58:00 PM	10/25/2021	1:41:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**2.94000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/24/2021	10:08:00 PM	10/25/2021	3:00:00 AM

Rain(in.) = 2.13  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**2.78000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/24/2021	11:29:00 PM	10/25/2021	6:55:00 AM

Rain(in.) = 2.13  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**19.59000**

Cause Rain



MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPC-YSEA-FXRZW

Start Day	Start Time	End Day	End Time
10/25/2021	12:12:00 AM	10/25/2021	2:54:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/25/2021	12:14:00 AM	10/25/2021	3:19:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**7.81000**

Cause Rain

### GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/25/2021	12:17:00 AM	10/25/2021	3:20:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**8.70000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	12:17:00 AM	10/26/2021	9:53:00 AM

Rain(in.) = 2.13  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPC-YSEA-FXRZW

Outfall **8**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	12:32:00 AM	10/25/2021	5:33:00 AM

Rain(in.) = 2.13  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**62.05000**

Cause Rain

Submission ID. HPC-QCJP-CPX85

Outfall **60**

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	9:40:00 AM	10/25/2021	5:31:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

Submission ID. HPC-YSEA-FXRZW

Outfall **38**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/25/2021	11:24:00 AM	10/25/2021	3:53:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **23**

Dilute Raw Sewage (MG)  
**33.15000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-YSEA-FXRZW

Start Day	Start Time	End Day	End Time
10/25/2021	11:24:00 AM	10/25/2021	3:53:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **24**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/25/2021	11:30:00 AM	10/26/2021	9:53:00 AM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**11.92000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/25/2021	11:54:00 AM	10/25/2021	3:45:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**5.56000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-QCJP-CPX85

Start Day	Start Time	End Day	End Time
10/25/2021	12:37:00 PM	10/25/2021	2:36:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.54000**

Cause Rain

## GLWA WRRF

Submission ID. HPC-YSEA-FXRZW

Start Day	Start Time	End Day	End Time
10/26/2021	6:30:00 AM	10/26/2021	6:35:00 AM

Rain(in.) = 2.13  
Waterbody: Detroit River

Outfall **40**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/29/2021	6:51:00 PM	10/29/2021	9:07:00 PM

Rain(in.) = 1.11  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.59000**

Cause Rain

### GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/29/2021	6:58:00 PM	10/29/2021	10:20:00 PM

Rain(in.) = 1.11  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**4.24000**

Cause Rain

### GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/29/2021	10:08:00 PM	10/30/2021	2:27:00 AM

Rain(in.) = 1.11  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**9.59000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/29/2021	10:08:00 PM	10/30/2021	2:27:00 AM

Rain(in.) = 1.11  
Waterbody: Detroit River

Outfall **8**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

### GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/29/2021	10:36:00 PM	10/30/2021	2:56:00 AM

Rain(in.) = 1.11  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**2.35000**

Cause Rain

### GLWA WRRF

Submission ID. HPD-5EX0-7EPT8

Start Day	Start Time	End Day	End Time
11/11/2021	3:49:00 PM	11/11/2021	10:28:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**8.34000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPD-5EX0-7EPT8

Start Day	Start Time	End Day	End Time
11/11/2021	7:20:00 PM	11/11/2021	9:33:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.59000**

Cause Rain

## GLWA WRRF

Submission ID. HPD-5EX0-7EPT8

Start Day	Start Time	End Day	End Time
11/11/2021	8:02:00 PM	11/11/2021	10:21:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**0.12000**

Cause Rain

## GLWA WRRF

Submission ID. HPD-5EX0-7EPT8

Start Day	Start Time	End Day	End Time
11/11/2021	8:04:00 PM	11/11/2021	8:34:00 PM

Rain(in.) = 0.33  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.13000**

Cause Rain

MG = million gallons  
CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	6:03:00 PM	12/5/2021	9:54:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.78000**

Cause Rain

### GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	6:24:00 PM	12/5/2021	10:21:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**1.35000**

Cause Rain

### GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	6:25:00 PM	12/5/2021	10:06:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**4.74000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	6:26:00 PM	12/5/2021	9:47:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.42000**

Cause Rain

### GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	6:47:00 PM	12/5/2021	7:22:00 PM

Rain(in.) = 0.66  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**0.39000**

Cause Rain

### GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	6:59:00 PM	12/5/2021	11:25:00 PM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**6.76000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/5/2021	9:20:00 PM	12/6/2021	12:22:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**39.37000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/10/2021	8:42:00 PM	12/11/2021	3:28:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**4.98000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/10/2021	9:31:00 PM	12/11/2021	8:00:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**2.10000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/10/2021	10:03:00 PM	12/11/2021	4:44:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.87000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:23:00 AM	12/11/2021	3:35:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **68**

Dilute Raw Sewage (MG)  
**0.05000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:24:00 AM	12/11/2021	4:29:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **79**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:34:00 AM	12/11/2021	4:48:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **62**

Dilute Raw Sewage (MG)  
**1.50000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:38:00 AM	12/11/2021	3:28:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **75**

Dilute Raw Sewage (MG)  
**0.07000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:39:00 AM	12/11/2021	6:04:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **74**

Dilute Raw Sewage (MG)  
**9.18000**

Cause Rain



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:41:00 AM	12/11/2021	3:57:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **77**

Dilute Raw Sewage (MG)  
**1.07000**

Cause Rain

### GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:44:00 AM	12/11/2021	5:33:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **61**

Dilute Raw Sewage (MG)  
**30.41000**

Cause Rain

### GLWA WRRF

Submission ID. HPE-0SCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	2:47:00 AM	12/11/2021	8:28:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **7**

Dilute Raw Sewage (MG)  
**15.12000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	2:58:00 AM	12/11/2021	5:43:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **60**

Dilute Raw Sewage (MG)  
**27.61000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0SCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	2:59:00 AM	12/11/2021	3:25:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **20**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0SCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	2:59:00 AM	12/11/2021	7:55:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **5**

Dilute Raw Sewage (MG)  
**0.44000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:02:00 AM	12/11/2021	4:38:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **31**

Dilute Raw Sewage (MG)  
**2.25000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:04:00 AM	12/11/2021	11:05:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **11**

Dilute Raw Sewage (MG)  
**12.16000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:04:00 AM	12/11/2021	11:05:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **12**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-OTZ0-HEV7B

Start Day	Start Time	End Day	End Time
12/11/2021	3:06:00 AM	12/11/2021	8:49:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **22**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	3:09:00 AM	12/11/2021	4:28:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **69**

Dilute Raw Sewage (MG)  
**3.02000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-0SCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:16:00 AM	12/11/2021	6:52:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **9**

Dilute Raw Sewage (MG)  
**3.28000**

Cause Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:18:00 AM	12/11/2021	3:43:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **19**

Dilute Raw Sewage (MG)  
**0.40000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:20:00 AM	12/11/2021	9:24:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **25**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	3:49:00 AM	12/11/2021	8:37:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **38**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	4:04:00 AM	12/11/2021	4:57:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **40**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPE-OSCW-AD7PJ

Start Day	Start Time	End Day	End Time
12/11/2021	6:43:00 AM	12/11/2021	7:19:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall **47**

Dilute Raw Sewage (MG)  
**0.00100**

Cause Rain

## GLWA WRRF

Submission ID. HPE-OT7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	3:07:00 PM	12/11/2021	5:02:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **65**

Dilute Raw Sewage (MG)  
**2.59000**

Cause Rain



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-0T7P-20DR4

Start Day	Start Time	End Day	End Time
12/11/2021	3:09:00 PM	12/11/2021	4:59:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall **64**

Dilute Raw Sewage (MG)  
**6.88000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-25XM-AMN3P

Start Day	Start Time	End Day	End Time
12/18/2021	8:50:00 AM	12/18/2021	1:21:00 PM

Rain(in.) = 0.32  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**1.21000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-7AW2-YFVG4

Start Day	Start Time	End Day	End Time
12/25/2021	5:30:00 AM	12/25/2021	8:23:00 AM

Rain(in.) = 0.38  
Waterbody: Rouge River

Outfall **63**

Dilute Raw Sewage (MG)  
**0.78000**

Cause Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPE-7AW2-YFVG4

Start Day	Start Time	End Day	End Time
12/25/2021	6:52:00 AM	12/25/2021	7:37:00 AM

Rain(in.) = 0.38  
Waterbody: Rouge River

Outfall **59**

Dilute Raw Sewage (MG)  
**1.01000**

Cause Rain

## GLWA WRRF

Submission ID. HPE-7AW2-YFVG4

Start Day	Start Time	End Day	End Time
12/25/2021	6:52:00 AM	12/25/2021	7:12:00 AM

Rain(in.) = 0.38  
Waterbody: Rouge River

Outfall **67**

Dilute Raw Sewage (MG)  
**0.09000**

Cause Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

**Totals**    **GLWA WRRF**

Dilute Raw Sewage (MG)

**5908.12100**

SOC:        The NPDES Permit requires elimination of all high priority CSO outfalls by 2037.

EGLE Action:    Long-term Control Program being implemented; controls include retention/treatment basins (6 on-line), CSO Screening/Disinfection Facilities (3 on-line), and 13 in-system storage dams in the collection system sewers (on-line) for temporary storing and subsequent transport of combined flow to the wastewater treatment plant; expansion of primary treatment capacity at the WWTP to 1700 MGD (on-line). To date, 14 CSOs have been eliminated, and construction of the Oakwood RTB has been completed. In addition to these 14 outfalls, 5 untreated Rouge River CSOs downstream of the turning basin are now controlled. An amended LTCP was submitted in late 2008 that proposed control projects and associated schedules for 3 untreated CSOs to the Old Channel of the Rouge River, and the 39 remaining untreated CSOs to the Detroit River. However in 2009, due to its deteriorating financial condition, Detroit terminated construction of the Upper Rouge CSO Capture Tunnel (URT). A financial capability assessment (FCA) was submitted and approved by the Department. The alternative LTCP was included in the 2011 permit modification. Another FCA was submitted by Detroit in 2012 as required by the Permit. The FCA again documented that costs associated with continued implementation of the CSO correction program were a high burden to the City of Detroit residents. Reflecting the 2012 FCA and updated costs for effectively operating the WWTP and other facilities, and taking into account opportunities to use Green Infrastructure and apply adaptive management, the permit again revised the LTCP.

**Inkster/Dearborn Heights CSO**

**Inkster/Dearborn Heights CSO**

Start Day	Start Time	End Day	End Time
3/26/2021	4:00:00 AM	3/29/2021	4:00:00 AM

Rain(in.) = 1.2  
Waterbody: Lower Rouge River

Submission ID.    HP7-G6Z4-5EPE0  
Permit              MI0051837  
Outfall              **11**

Dilute Raw Sewage (MG)

**0.30000**

Cause        Untreated Combined Sewer Overflow resulting from precipitation which exceeded one inch, resulting in overflow of regulator into receiving stream





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/21/2021	4:00:00 AM	6/21/2021	2:00:00 PM

Rain(in.) = 1.1  
Waterbody: Lower Rouge River

Submission ID. HP9-MJP5-VQ200  
Permit MI0051837  
Outfall 11

Dilute Raw Sewage (MG)  
**0.78000**

Cause Untreated Combined Sewer Overflow resulting from precipitation which exceeded one inch, resulting in overflow of regulator into receiving stream

## Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/25/2021	5:00:00 PM	6/28/2021	12:00:00 PM

Rain(in.) = 5.38  
Waterbody: Lower Rouge River

Submission ID. HP9-R88N-B7RF0  
Permit MI0051837  
Outfall 11

Dilute Raw Sewage (MG)  
**0.58000**

Cause Untreated Combined Sewer Overflow resulting from precipitation which exceeded one inch resulting in overflow of regulator into receiving stream

## Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/16/2021	10:00:00 AM	7/18/2021	7:00:00 AM

Rain(in.) = 2.94  
Waterbody: Lower Rouge River

Submission ID. HPA-8G9B-F7KK9  
Permit MI0051837  
Outfall 11

Dilute Raw Sewage (MG)  
**3.08000**

Cause Untreated Combined Sewer Overflow resulting from precipitation which exceeded one inch resulting in overflow of regulator into receiving stream

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:30:00 PM	7/25/2021	11:00:00 AM

Rain(in.) = 1.58  
Waterbody: Lower Rouge River

Submission ID. HPA-F2VR-SA301  
Permit MI0051837  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.62000**

Cause Untreated Combined sewer overflow resulting from precipitation which exceeded one inch resulting in overflow of regulator into receiving stream

## Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/12/2021	12:45:00 AM	8/14/2021	12:00:00 PM

Rain(in.) = 3.21  
Waterbody: Lower Rouge River

Submission ID. HPB-ORG0-62FAA  
Permit MI0051837  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.23708**

Cause Untreated Combined sewer overflow resulting from precipitation which exceeded one inch resulting in overflow of regulator into receiving stream

## Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 PM	9/25/2021	9:30:00 AM

Rain(in.) = 4.33  
Waterbody: Lower Rouge River

Submission ID. HPB-XGF7-FR9XE  
Permit MI0051837  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.35724**

Cause Untreated Combined Sewer Overflow resulting from precipitation which exceeded one inch, resulting in overflow of regulator into receiving stream

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/25/2021	2:36:00 AM	10/26/2021	11:45:00 PM

Rain(in.) = 2.05  
Waterbody: Lower Rouge River

Submission ID. HPC-QM79-F1J1D  
Permit MI0051837  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.11264**

Cause Untreated combined sewer overflow resulting from precipitation which exceeded one inch resulting in overflow of regulator into receiving stream

### Inkster/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
12/11/2021	2:00:00 AM	12/12/2021	12:00:00 AM

Rain(in.) = 1.09  
Waterbody: Lower Rouge River

Submission ID. HPD-WJRF-CN234  
Permit MI0051837  
Outfall **11**

Dilute Raw Sewage (MG)  
**0.00966**

Cause Untreated Combined Sewer Overflow resulting from precipitation which exceeded one inch resulting in overflow of regulator into receiving stream

### Totals Inkster/Dearborn Heights CSO

Dilute Raw Sewage (MG)  
**6.07662**

SOC: The reissued NPDES permit will include a revised LTCP schedule

EGLE Action: Long-term Control Program has been modified; the program addresses one "uncontrolled" (i.e., untreated) CSO outfall; permit requires completion of construction of an approved program for facilities to meet criteria for elimination of raw sewage discharges & protection of public health, and to assure compliance with Water Quality Standards. The Department agreed to a revised correction schedule for this outfall based on the City of Inkster's financial capability demonstration. It's the Departments intent to negotiate a revised schedule for implementation of the remaining LTCP in the reissued permit in 2022



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Redford Twp CSO

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.25  
Waterbody: Ashcroft Drain

Dilute Raw Sewage (MG)

**0.04375**

Cause Diluted, combined sewer overflow due to recent rain event

Submission ID. HP7-JQHH-N33MV  
Permit M10051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.3  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)

**0.07000**

Cause Diluted, combined sewer overflow due to Heavy Rain

Submission ID. HP8-YBS4-HC87F  
Permit M10051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.03  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)

**0.40000**

Cause Diluted raw sewerage due to heavy rain

Submission ID. HP9-MTZR-ZD5X5  
Permit M10051829  
Outfall **45A**



MICHIGAN DEPARTMENT OF  
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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.4  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**2.56000**

Cause diluted raw sewerage due to heavy rain

Submission ID. HP9-R8A3-SGXBC  
Permit MI0051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.13  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**0.73000**

Cause Diluted raw sewage due to heavy rain

Submission ID. HP9-TMH7-38E8D  
Permit MI0051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 1.64  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**3.90000**

Cause Diluted Raw sewage due to heavy rain

Submission ID. HPA-8HTD-5J2M9  
Permit MI0051829  
Outfall **45A**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.5  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**3.20000**

Cause diluted raw sewage due to heavy rain

Submission ID. HPA-F5WX-1F9PS  
Permit MI0051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
8/12/2021	6:00:00 AM	8/12/2021	3:40:00 PM

Rain(in.) = 2.48  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**0.14000**

Cause diluted raw sewage due to heavy rain

Submission ID. HPA-XNQT-B74NR  
Permit MI0051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**1.80000**

Cause diluted raw sewage due to heavy rain

Submission ID. HPB-9JDW-PT3PZ  
Permit MI0051829  
Outfall **45A**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 3  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**5.40000**

Cause Diluted raw sewage due to heavy rain

Submission ID. HPB-XRDF-FKTCX  
Permit MI0051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.96  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**1.80000**

Cause Diluted raw sewerage due to heavy rain

Submission ID. HPC-RFKY-28QH7  
Permit MI0051829  
Outfall **45A**

### Redford Twp CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.07  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**0.95000**

Cause Diluted raw sewage due to heavy rain

Submission ID. HPC-VZM3-5G8C8  
Permit MI0051535  
Outfall **45A**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Redford Twp CSO

Submission ID. HPD-XK7H-DM5GK  
Permit MI0051829  
Outfall **45A**

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.38  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**0.78000**

Cause Diluted raw sewage due to heavy rains

## Totals Redford Twp CSO

Dilute Raw Sewage (MG)  
**21.77375**

SOC: NPDES permit require elimination/adequate treatment by 2025

EGLE Action: Long-term Control Program being implemented. The reissued permit will require independent control of the remaining untreated outfall or alternatively work with GLWA on a regional plan by 2025.

## Southgate-Wyandotte CSO RTF

## Southgate-Wyandotte CSO RTF

Submission ID. HP7-G6QK-KNBC4  
Permit MI0036072  
Outfall **2**

Start Day	Start Time	End Day	End Time
3/26/2021	3:35:00 AM	3/26/2021	4:52:00 AM

Rain(in.) = 1.25  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**9.96300**

Cause rain





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
6/25/2021	11:22:00 PM	6/26/2021	12:08:00 AM

Rain(in.) = 1.82  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**19.93000**

Cause rain

Submission ID. HP9-RBRZ-RBWA6  
Permit MI0036072  
Outfall **2**

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
6/29/2021	3:40:00 PM	6/29/2021	4:07:00 PM

Rain(in.) = 1.82  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**7.97000**

Cause rain

Submission ID. HP9-TMZ5-X1HQT  
Permit MI0036072  
Outfall **2**

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
7/8/2021	3:30:00 PM	7/8/2021	4:05:00 PM

Rain(in.) = 0  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**4.98000**

Cause rain

Submission ID. HPA-2EYG-6CCHQ  
Permit MI0036072  
Outfall **2**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
7/16/2021	10:15:00 AM	7/16/2021	3:29:00 PM

Rain(in.) = 1.79  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**22.91000**

Cause rain

Submission ID. HPA-8EJW-4JT1X  
Permit MI0036072  
Outfall **2**

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
7/24/2021	9:45:00 PM	7/24/2021	11:15:00 AM

Rain(in.) = 1.77  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**53.80000**

Cause rain

Submission ID. HPA-F2W3-812A8  
Permit MI0036072  
Outfall **2**

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
8/12/2021	3:25:00 AM	8/12/2021	10:58:00 AM

Rain(in.) = 2.27  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**65.75000**

Cause rain

Submission ID. HPA-XERY-3H4KM  
Permit MI0036072  
Outfall **2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
8/24/2021	8:50:00 PM	8/24/2021	11:12:00 PM

Rain(in.) = 1.01  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**32.80000**

Cause rain

Submission ID. HPB-7DP1-1A40H  
Permit MI0036072  
Outfall **2**

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
8/29/2021	9:01:00 PM	8/29/2021	9:25:00 PM

Rain(in.) = 0.67  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**3.98000**

Cause Rain

Submission ID. HPB-BBXS-5RX0B  
Outfall **NUL**

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
9/21/2021	10:36:00 PM	10/23/2021	2:53:00 AM

Rain(in.) = 2.11  
Waterbody: Detroit River

Dilute Raw Sewage (MG)  
**43.83700**

Cause rain

Submission ID. HPB-XEH6-WDQS1  
Permit MI0036072  
Outfall **2**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
10/25/2021	1:07:00 AM	10/25/2021	1:57:00 AM

Rain(in.) = 2.33  
Waterbody: Detroit River

Submission ID. HPC-QMMC-ED8EA  
Permit MI0036072  
Outfall 2

Dilute Raw Sewage (MG)  
**10.90000**

Cause rain

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
12/5/2021	8:17:00 PM	12/5/2021	8:58:00 PM

Rain(in.) = 1.11  
Waterbody: Detroit River - Trenton Channel

Submission ID. HPD-RVYS-W68VD  
Permit MI0036072  
Outfall 2

Dilute Raw Sewage (MG)  
**1.99260**

Cause Wet weather event exceeded capacity of this CSO station dewatering pumps to the system and required discharge to the Detroit River. Rainfall locally totaled 1.11".

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
12/11/2021	3:15:00 AM	12/11/2021	4:29:00 AM

Rain(in.) = 1.61  
Waterbody: Detroit River - Trenton Channel

Submission ID. HPD-WJW2-YY15Z  
Permit MI0036072  
Outfall 2

Dilute Raw Sewage (MG)  
**9.96300**

Cause Rain event of 1.61" exceeded the capacity of the local sewer.



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

**Totals** Southgate-Wyandotte CSO RTF

Dilute Raw Sewage (MG)  
**288.77560**

SOC: Long-term Control Program being implemented (existing retention/treatment facility); reissued permit requires a Water Quality Study for a determination of whether the facility provides adequate treatment of all overflows; Long-term Control Program for f

EGLE Action: Long-term Control Program being implemented (existing retention/treatment facility); reissued permit requires a Water Quality Study for a determination of whether the facility provides adequate treatment of all overflows; Long-term Control Program for facility upgrade and provisions for adequate treatment may be required in the future. The NPDES permit also requires the permittee to submit a Hydraulic Capacity Study for the Pine St PS. The study will be used to determine if any improvements can be made to eliminate CSO discharges from the Pine St PS.

**Wayne Co/Dearborn Heights CSO**

**Wayne Co/Dearborn Heights CSO**

Start Day	Start Time	End Day	End Time
3/26/2021	2:35:00 AM	3/26/2021	4:00:00 AM

Rain(in.) = 1.33  
Waterbody: Lower Rouge River

Submission ID. HP7-G71Q-4PG5Y  
Permit MI0051489  
Outfall **L43**

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/26/2021	2:35:00 AM	3/26/2021	4:00:00 AM

Rain(in.) = 1.33  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-G71Q-4PG5Y  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/26/2021	2:35:00 AM	3/26/2021	4:00:00 AM

Rain(in.) = 1.33  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-G71Q-4PG5Y  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/26/2021	2:35:00 AM	3/26/2021	4:00:00 AM

Rain(in.) = 1.33  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-G71Q-4PG5Y  
Permit MI0051489  
Outfall **U1**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/28/2021	2:16:00 AM	3/28/2021	2:40:00 AM

Rain(in.) = 0.72  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVP6-BVKCH  
Permit MI0051489  
Outfall **L43**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/28/2021	2:16:00 AM	3/28/2021	2:40:00 AM

Rain(in.) = 0.72  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVP6-BVKCH  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/28/2021	2:16:00 AM	3/28/2021	2:40:00 AM

Rain(in.) = 0.72  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVP6-BVKCH  
Permit MI0051489  
Outfall **M14**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
3/28/2021	2:16:00 AM	3/28/2021	2:40:00 AM

Rain(in.) = 0.72  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVP6-BVKCH  
Permit MI0051489  
Outfall **U1**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
5/23/2021	6:25:00 PM	5/23/2021	6:52:00 PM

Rain(in.) = 0.82  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y7NX-EVE93  
Permit MI0051489  
Outfall **L43**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
5/23/2021	6:25:00 PM	5/23/2021	6:52:00 PM

Rain(in.) = 0.82  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y7NX-EVE93  
Permit MI0051489  
Outfall **M13**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
5/23/2021	6:25:00 PM	5/23/2021	6:52:00 PM

Rain(in.) = 0.82  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y7NX-EVE93  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
5/23/2021	6:25:00 PM	5/23/2021	6:52:00 PM

Rain(in.) = 0.82  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y7NX-EVE93  
Permit MI0051489  
Outfall **U1**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	9:15:00 PM

Rain(in.) = 0.61  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-65M8-HW8EZ  
Permit MI0051489  
Outfall **L43**

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	9:15:00 PM

Rain(in.) = 0.61  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-65M8-HW8EZ  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	9:15:00 PM

Rain(in.) = 0.61  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-65M8-HW8EZ  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	9:15:00 PM

Rain(in.) = 0.61  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-65M8-HW8EZ  
Permit MI0051489  
Outfall **U1**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:00:00 PM	6/21/2021	11:30:00 PM

Rain(in.) = 1.2  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MCW4-C62Z7  
Permit MI0051489  
Outfall **L43**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:00:00 PM	6/21/2021	11:30:00 PM

Rain(in.) = 1.2  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MCW4-C62Z7  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:00:00 PM	6/21/2021	11:30:00 PM

Rain(in.) = 1.2  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MCW4-C62Z7  
Permit MI0051489  
Outfall **M14**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:00:00 PM	6/21/2021	11:30:00 PM

Rain(in.) = 1.2  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MCW4-C62Z7  
Permit MI0051489  
Outfall **U1**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:18:00 AM	6/26/2021	2:00:00 PM

Rain(in.) = 5.15  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**3.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY0D-6PS0N  
Permit MI0051489  
Outfall **L43**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:18:00 AM	6/26/2021	2:00:00 PM

Rain(in.) = 5.15  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**9.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY0D-6PS0N  
Permit MI0051489  
Outfall **M13**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:18:00 AM	6/26/2021	2:00:00 PM

Rain(in.) = 5.15  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**7.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY0D-6PS0N  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:18:00 AM	6/26/2021	2:00:00 PM

Rain(in.) = 5.15  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**8.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY0D-6PS0N  
Permit MI0051489  
Outfall **U1**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:25:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8ENA-KAMAP  
Permit MI0051489  
Outfall **L43**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:25:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**2.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8ENA-KAMAP  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:25:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**1.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8ENA-KAMAP  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:25:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8ENA-KAMAP  
Permit MI0051489  
Outfall **U1**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:10:00 PM	7/25/2021	7:35:00 AM

Rain(in.) = 1.71  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F18T-RPBF6  
Permit MI0051489  
Outfall **L43**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:10:00 PM	7/25/2021	7:35:00 AM

Rain(in.) = 1.71  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**1.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F18T-RPBF6  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:10:00 PM	7/25/2021	7:35:00 AM

Rain(in.) = 1.71  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**1.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F18T-RPBF6  
Permit MI0051489  
Outfall **M14**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:10:00 PM	7/25/2021	7:35:00 AM

Rain(in.) = 1.71  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F18T-RPBF6  
Permit MI0051489  
Outfall **U1**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:20:00 PM	8/9/2021	3:40:00 PM

Rain(in.) = 0.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.04000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-VEES-5QHGZ  
Permit MI0051489  
Outfall **L43**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:20:00 PM	8/9/2021	3:40:00 PM

Rain(in.) = 0.4  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-VEES-5QHGZ  
Permit MI0051489  
Outfall **M13**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:20:00 PM	8/9/2021	3:40:00 PM

Rain(in.) = 0.4  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-VEES-5QHGZ  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:20:00 PM	8/9/2021	3:40:00 PM

Rain(in.) = 0.4  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-VEES-5QHGZ  
Permit MI0051489  
Outfall **U1**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:00:00 AM	8/12/2021	7:30:00 PM

Rain(in.) = 2.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XF5C-9HGR2  
Permit MI0051489  
Outfall **L43**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:00:00 AM	8/12/2021	7:30:00 PM

Rain(in.) = 2.4  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**1.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XF5C-9HGR2  
Permit MI0051489  
Outfall **M13**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:00:00 AM	8/12/2021	7:30:00 PM

Rain(in.) = 2.4  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XF5C-9HGR2  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:00:00 AM	8/12/2021	7:30:00 PM

Rain(in.) = 2.4  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XF5C-9HGR2  
Permit MI0051489  
Outfall **U1**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:24:00 PM	8/28/2021	3:09:00 AM

Rain(in.) = 2.19  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H7K-8AZRR  
Permit MI0051489  
Outfall **L43**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:24:00 PM	8/28/2021	3:09:00 PM

Rain(in.) = 2.19  
Waterbody: Middle River Rouge

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H7K-8AZRR  
Permit MI0051489  
Outfall **M13**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:24:00 PM	8/28/2021	3:09:00 AM

Rain(in.) = 2.19  
Waterbody: Middle River Rouge

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H7K-8AZRR  
Permit MI0051489  
Outfall **M14**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:24:00 PM	8/28/2021	3:09:00 AM

Rain(in.) = 2.19  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H7K-8AZRR  
Permit MI0051489  
Outfall **U1**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
9/21/2021	11:45:00 PM	9/23/2021	1:00:00 PM

Rain(in.) = 4.41  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XFTA-1YPJP  
Permit MI0051489  
Outfall **L43**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
9/21/2021	11:45:00 PM	9/23/2021	1:00:00 PM

Rain(in.) = 4.41  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**2.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XFTA-1YPJP  
Permit MI0051489  
Outfall **M13**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
9/21/2021	11:45:00 PM	9/23/2021	1:00:00 PM

Rain(in.) = 4.41  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**1.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XFTA-1YPJP  
Permit MI0051489  
Outfall **M14**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
9/21/2021	11:45:00 PM	9/23/2021	1:00:00 PM

Rain(in.) = 4.41  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**1.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XFTA-1YPJP  
Permit MI0051489  
Outfall **U1**

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/25/2021	12:05:00 AM	10/25/2021	12:17:00 PM

Rain(in.) = 2.18  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QMS6-H7EH3  
Permit MI0051489  
Outfall **L43**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/25/2021	12:05:00 AM	10/25/2021	12:17:00 PM

Rain(in.) = 2.18  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QMS6-H7EH3  
Permit MI0051489  
Outfall **M13**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/25/2021	12:05:00 AM	10/25/2021	12:17:00 PM

Rain(in.) = 2.18  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QMS6-H7EH3  
Permit MI0051489  
Outfall **M14**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/25/2021	12:05:00 AM	10/25/2021	12:17:00 PM

Rain(in.) = 2.18  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QMS6-H7EH3  
Permit MI0051489  
Outfall **U1**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:00:00 PM	10/30/2021	5:38:00 AM

Rain(in.) = 1.12  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.04000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WESN-RTYA5  
Permit MI0051489  
Outfall **L43**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:00:00 PM	10/30/2021	5:38:00 AM

Rain(in.) = 1.12  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WESN-RTYA5  
Permit MI0051489  
Outfall **M13**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:00:00 PM	10/30/2021	5:38:00 AM

Rain(in.) = 1.12  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WESN-RTYA5  
Permit MI0051489  
Outfall **M14**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:00:00 PM	10/30/2021	5:38:00 AM

Rain(in.) = 1.12  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WESN-RTYA5  
Permit MI0051489  
Outfall **U1**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:10:00 AM	12/11/2021	4:51:00 PM

Rain(in.) = 1.06  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-WJQP-CVG23  
Permit MI0051489  
Outfall **L43**

## Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:10:00 AM	12/11/2021	4:51:00 PM

Rain(in.) = 1.06  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-WJQP-CVG23  
Permit MI0051489  
Outfall **M13**



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:10:00 AM	12/11/2021	4:51:00 PM

Rain(in.) = 1.06  
Waterbody: Middle Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Submission ID. HPD-WJQP-CVG23  
Permit MI0051489  
Outfall **M14**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:10:00 AM	12/11/2021	4:51:00 PM

Rain(in.) = 1.06  
Waterbody: Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Submission ID. HPD-WJQP-CVG23  
Permit MI0051489  
Outfall **U1**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Totals Wayne Co/Dearborn Heights CSO

Dilute Raw Sewage (MG)  
**57.48000**

SOC: The reissued NPDES permit will include a revised LTCP schedule

EGLE Action: Long-term Control Program revised in reissued permit; construction of retention/treatment basin is complete & facility is "on-line" and the Department agrees that the RTB protects public health, eliminates raw sewage, protects the physical characteristics standard, and does not impact biological communities. An evaluation of the RTB discharges on the dissolved oxygen standard has been submitted and is under Department review. Outfalls M18 & M19 have been eliminated and certified by December, 2005 (flow has been directed to the existing RTB). It's the Departments intent to negotiate a revised schedule for implementation of the remaining LTCP in the reissued permit in 2022

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster CSO

#### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
3/26/2021	2:30:00 AM	3/26/2021	7:23:00 AM

Rain(in.) = 1.32  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-G4AW-TSVB6  
Permit MI0051471  
Outfall **10**

#### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
3/27/2021	11:40:00 PM	3/28/2021	10:55:00 AM

Rain(in.) = 0.81  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**1.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVGR-4TFK5  
Permit MI0051471  
Outfall **10**

#### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
6/2/2021	10:00:00 PM	6/2/2021	10:35:00 AM

Rain(in.) = 0.57  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-66KE-78BV2  
Permit MI0051471  
Outfall **10**



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# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:28:00 PM	6/21/2021	10:12:00 AM

Rain(in.) = 1.2  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MD8Q-14D3N  
Permit MI0051471  
Outfall **10**

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:22:00 AM	6/27/2021	12:34:00 PM

Rain(in.) = 5.92  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**39.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY7M-R8F39  
Permit MI0051471  
Outfall **10**

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:42:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**18.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-CG3D-1QWCQ  
Permit MI0051471  
Outfall **10**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:20:00 PM	7/25/2021	4:23:00 AM

Rain(in.) = 1.71  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**7.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F2B4-NX44J  
Permit MI0051471  
Outfall **10**

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:40:00 PM	8/9/2021	4:05:00 PM

Rain(in.) = 0.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**1.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-R8BH-GBN9Y  
Permit MI0051471  
Outfall **10**

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
8/12/2021	2:17:00 AM	8/12/2021	10:18:00 PM

Rain(in.) = 2.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**12.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XE8R-ZWE83  
Permit MI0051471  
Outfall **10**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:10:00 PM	8/27/2021	2:25:00 PM

Rain(in.) = 2.19  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H2Y-HCDVV  
Permit MI0051471  
Outfall **10**

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
9/21/2021	9:55:00 PM	9/23/2021	4:00:00 PM

Rain(in.) = 4.53  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**9.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XDQV-22PEJ  
Permit MI0051471  
Outfall **10**

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
10/24/2021	10:40:00 PM	10/25/2021	9:06:00 AM

Rain(in.) = 2.11  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**5.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QN02-  
Permit WQQWC  
MI0051471  
Outfall **10**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:40:00 PM	10/30/2021	6:12:00 AM

Rain(in.) = 1.02  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WE9V-  
Permit MZAVM  
MI0051471  
Outfall **10**

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
12/11/2021	2:38:00 AM	12/11/2021	4:10:00 PM

Rain(in.) = 1.04  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-WP0R-PMRGX  
Permit MI0051471  
Outfall **10**

## Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
12/25/2021	8:14:00 AM	12/25/2021	8:26:00 AM

Rain(in.) = 0.48  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-7NH7-ATB6H  
Permit MI0051471  
Outfall **10**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Totals Wayne Co/Inkster CSO

Dilute Raw Sewage (MG)  
**105.50000**

SOC: The reissued NPDES permit will include a revised LTCP schedule

EGLE Action: Long-term Control Program revised in permit; construction of retention/treatment basin is complete & facility is "on-line" and the Department agrees that the RTB protects public health, eliminates raw sewage, protects the physical characteristics standard, and does not impact biological communities. An evaluation of the RTB discharges on the dissolved oxygen standard has been submitted and is under Department review. 5 CSOs have been eliminated/bulkheaded following sewer separation. The City recently constructed an RTB to address two west side CSOs. A revised financial demonstration has been submitted and it's the Departments intent to negotiate a revised schedule for implementation of the remaining LTCP in the reissued permit in 2022

## Wayne Co/Inkster/Drbrn Hts CSO

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
2/23/2021	1:25:00 PM	2/23/2021	3:40:00 PM

Rain(in.) = 0  
Waterbody: Lower Rouge River

Submission ID. HP6-R7SZ-18ENR  
Permit MI0051462  
Outfall **L42**

Dilute Raw Sewage (MG)  
**0.00250**

Cause Significant snow melt occurred which caused the flow rate in the sewer to overflow the weir to the outfall.



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
2/24/2021	1:40:00 PM	2/24/2021	4:00:00 PM

Rain(in.) = 0  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00170**

Cause Significant snow melt occurred which caused the flow rate in the sewer to overflow the weir to the outfall.

Submission ID. HP6-TBSH-GOXOK  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
2/27/2021	2:25:00 AM	2/27/2021	3:10:00 AM

Rain(in.) = 0.16  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00380**

Cause Significant snow melt and rain caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP6-WYNJ-GADX0  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
3/26/2021	2:30:00 AM	3/26/2021	7:23:00 AM

Rain(in.) = 1.33  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**3.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-G4E2-V3EVC  
Permit MI0051462  
Outfall **L41**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
3/26/2021	2:30:00 AM	3/26/2021	7:23:00 AM

Rain(in.) = 1.33  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-G4E2-V3EVC  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
3/27/2021	11:40:00 PM	3/28/2021	10:55:00 AM

Rain(in.) = 0.81  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVK9-8WV0T  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
3/27/2021	11:40:00 PM	3/28/2021	10:55:00 AM

Rain(in.) = 0.81  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-HVK9-8WV0T  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
4/3/2021	2:55:00 AM	4/3/2021	10:00:00 AM

Rain(in.) = 0  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.08000**

Cause Flow rate in the sewer exceeded the regulator capacity.

Submission ID. HP7-RE8H-XQ4QZ  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
4/5/2021	10:55:00 AM	4/5/2021	12:25:00 PM

Rain(in.) = 0.13  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00210**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-VDC1-ES19W  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
4/6/2021	3:20:00 PM	4/6/2021	3:30:00 PM

Rain(in.) = 0.13  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00060**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-VDQ8-BDXBD  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
4/8/2021	3:50:00 PM	4/9/2021	12:25:00 AM

Rain(in.) = 0.25  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-VDXX-SYVFZ  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
4/10/2021	8:10:00 PM	4/11/2021	2:05:00 AM

Rain(in.) = 0.5  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP7-YFJN-35A3V  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
5/23/2021	6:25:00 PM	5/23/2021	6:52:00 PM

Rain(in.) = 0.82  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y7SM-D8QGN  
Permit MI0051462  
Outfall **L41**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
5/23/2021	6:25:00 PM	5/23/2021	6:52:00 PM

Rain(in.) = 0.82  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y7SM-D8QGN  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
5/26/2021	8:20:00 AM	5/26/2021	9:30:00 AM

Rain(in.) = 0.3  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-OCTV-4FNZQ  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
5/28/2021	2:30:00 AM	5/28/2021	1:20:00 PM

Rain(in.) = 0.86  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-224P-SVYN9  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	10:35:00 PM

Rain(in.) = 0.61  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**1.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-65RT-BYCTQ  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/2/2021	9:00:00 PM	6/2/2021	10:35:00 PM

Rain(in.) = 0.61  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-65RT-BYCTQ  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/11/2021	8:00:00 PM	6/11/2021	8:45:00 PM

Rain(in.) = 0.27  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-F5WN-4E9RK  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/18/2021	5:40:00 AM	6/18/2021	9:30:00 AM

Rain(in.) = 0.46  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-JSAJ-120C0  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:00:00 PM	6/21/2021	10:12:00 AM

Rain(in.) = 1.2  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**3.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MD5J-R99Z0  
Permit MI0051462  
Outfall **L41**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/20/2021	11:00:00 PM	6/21/2021	10:12:00 AM

Rain(in.) = 1.2  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MD5J-R99Z0  
Permit MI0051462  
Outfall **L42**

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:18:00 AM	6/27/2021	12:34:00 PM

Rain(in.) = 5.92  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**78.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY5Q-QZ2WC  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:18:00 AM	6/27/2021	12:34:00 PM

Rain(in.) = 5.92  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**11.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-QY5Q-QZ2WC  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/27/2021	10:50:00 PM	6/28/2021	2:25:00 AM

Rain(in.) = 0.05  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-VQN6-DTS72  
Permit MI0051462  
Outfall **L42**

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/28/2021	7:40:00 PM	6/28/2021	9:45:00 PM

Rain(in.) = 0.22  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-VSDJ-C7J5X  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
6/29/2021	2:00:00 PM	6/29/2021	3:15:00 PM

Rain(in.) = 0.3  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.07000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-VST5-B5QJB  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/8/2021	5:05:00 AM	7/8/2021	5:55:00 AM

Rain(in.) = 0.08  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-2HD2-HQ7XJ  
Permit MI0051462  
Outfall **L42**



## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/8/2021	5:40:00 PM	7/8/2021	6:00:00 PM

Rain(in.) = 0.06  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00060**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-2HGN-96EFD  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/11/2021	7:00:00 AM	7/11/2021	7:50:00 AM

Rain(in.) = 0.35  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00500**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-65K9-6YZAC  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/13/2021	12:40:00 PM	7/13/2021	1:35:00 PM

Rain(in.) = 0.37  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.05000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-6S25-V5Q02  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:42:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**29.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8FOJ-XMF42  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/16/2021	9:42:00 AM	7/17/2021	1:48:00 PM

Rain(in.) = 3.29  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8FOJ-XMF42  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/20/2021	7:05:00 PM	7/20/2021	8:15:00 PM

Rain(in.) = 0.55  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-CH1J-ED7FR  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/24/2021	8:00:00 PM	7/26/2021	11:50:00 PM

Rain(in.) = 1.71  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-GZYJ-JQA74  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:10:00 PM	7/25/2021	7:35:00 AM

Rain(in.) = 1.71  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**12.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F1G4-YK7X3  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:10:00 PM	7/25/2021	7:35:00 AM

Rain(in.) = 1.71  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**1.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F1G4-YK7X3  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:20:00 PM	8/9/2021	4:05:00 PM

Rain(in.) = 0.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**1.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-VEK7-7F1SA  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/9/2021	3:20:00 PM	8/9/2021	4:05:00 PM

Rain(in.) = 0.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-VEK7-7F1SA  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/12/2021	2:17:00 AM	8/12/2021	10:18:00 PM

Rain(in.) = 2.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**19.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XEQQ-8Z1MM  
Permit MI0051462  
Outfall **L41**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/12/2021	2:17:00 AM	8/12/2021	10:18:00 PM

Rain(in.) = 2.4  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**19.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XEQQ-8Z1MM  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/24/2021	6:50:00 PM	8/24/2021	7:40:00 PM

Rain(in.) = 0.56  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9CAK-E8D13  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/25/2021	12:05:00 PM	8/25/2021	12:15:00 PM

Rain(in.) = 0.56  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00030**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9CPF-HYVQF  
Permit MI0051462  
Outfall **L42**



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:10:00 PM	8/28/2021	3:09:00 AM

Rain(in.) = 2.19  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H5F-9G97Q  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/27/2021	2:10:00 PM	8/28/2021	3:09:00 AM

Rain(in.) = 2.19  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9H5F-9G97Q  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
8/29/2021	7:00:00 AM	8/29/2021	8:00:00 PM

Rain(in.) = 0.13  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.04000**

Cause Small rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-BY1R-YG4NN  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
9/7/2021	8:15:00 PM	9/8/2021	12:25:00 AM

Rain(in.) = 0.51  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Moderate rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-JSBB-NGGA4  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
9/21/2021	9:55:00 PM	9/23/2021	4:00:00 PM

Rain(in.) = 4.53  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**18.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XDWC-H783W  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
9/21/2021	9:55:00 PM	9/23/2021	4:00:00 PM

Rain(in.) = 4.53  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**2.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XDWC-H783W  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/2/2021	10:35:00 PM	10/3/2021	12:10:00 AM

Rain(in.) = 0.35  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.06000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-7A7W-T7YTY  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/3/2021	10:55:00 PM	10/3/2021	11:15:00 PM

Rain(in.) = 0.3  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00050**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-7AFB-9H2CX  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/4/2021	4:55:00 PM	10/4/2021	6:45:00 PM

Rain(in.) = 0.55  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.04000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-8271-35YG6  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/14/2021	5:35:00 PM	10/14/2021	6:25:00 PM

Rain(in.) = 0.13  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-FVCS-7NFPE  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/15/2021	9:20:00 AM	10/15/2021	10:40:00 AM

Rain(in.) = 0.44  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-J8QA-QVGXK  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/16/2021	2:30:00 AM	10/16/2021	6:25:00 AM

Rain(in.) = 0.84  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-JCNK-6Z0H4  
Permit MI0051462  
Outfall **L42**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/21/2021	2:30:00 AM	10/21/2021	6:25:00 AM

Rain(in.) = 0.22  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-MPH0-5QGEX  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/24/2021	10:40:00 PM	10/25/2021	12:17:00 PM

Rain(in.) = 2.18  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**8.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QMXY-Y5H7M  
Permit MI0051462  
Outfall **L41**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/24/2021	10:40:00 PM	10/25/2021	12:17:00 PM

Rain(in.) = 2.18  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-QMXY-Y5H7M  
Permit MI0051462  
Outfall **L42**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:00:00 PM	10/30/2021	6:12:00 AM

Rain(in.) = 1.12  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEGV-ZSZTV  
Permit MI0051462  
Outfall **L41**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
10/29/2021	1:00:00 PM	10/30/2021	6:12:00 AM

Rain(in.) = 1.12  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEGV-ZSZTV  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
11/17/2021	10:20:00 PM	11/17/2021	10:55:00 PM

Rain(in.) = 0.15  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00400**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-APKB-WGAG1  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
11/21/2021	1:55:00 PM	11/21/2021	9:55:00 PM

Rain(in.) = 0.21  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-E5W1-53SDG  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
11/25/2021	2:20:00 AM	11/25/2021	5:50:00 PM

Rain(in.) = 0.5  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.01000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-KAPB-VZAQH  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/5/2021	5:25:00 PM	12/5/2021	10:00:00 PM

Rain(in.) = 0.62  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-RXB4-JE3PY  
Permit MI0051462  
Outfall **L42**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/11/2021	2:38:00 AM	12/11/2021	4:51:00 PM

Rain(in.) = 1.06  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**4.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-WJVD-3N3G9  
Permit MI0051462  
Outfall **L41**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/11/2021	2:38:00 AM	12/11/2021	4:51:00 PM

Rain(in.) = 1.06  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPD-WJVD-3N3G9  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/15/2021	7:15:00 AM	12/15/2021	8:25:00 AM

Rain(in.) = 0.12  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00700**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-01R1-2KT70  
Permit MI0051462  
Outfall **L42**



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/18/2021	8:40:00 AM	12/18/2021	12:50:00 PM

Rain(in.) = 0.31  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00900**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-3TD3-NDB4J  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/25/2021	3:05:00 AM	12/25/2021	8:00:00 AM

Rain(in.) = 0.48  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.05000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-9D62-V4QNN  
Permit MI0051462  
Outfall **L42**

## Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/25/2021	8:14:00 AM	12/25/2021	8:26:00 AM

Rain(in.) = 0.48  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-7PMJ-RHMTM  
Permit MI0051462  
Outfall **L41**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/25/2021	8:14:00 AM	12/25/2021	8:26:00 AM

Rain(in.) = 0.48  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.00200**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-7PMJ-RHMTM  
Permit MI0051462  
Outfall **L42**

### Wayne Co/Inkster/Drbrn Hts CSO

Start Day	Start Time	End Day	End Time
12/27/2021	8:10:00 AM	12/27/2021	11:35:00 AM

Rain(in.) = 0.26  
Waterbody: Lower Rouge River

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-9DAK-XROEE  
Permit MI0051462  
Outfall **L42**

### Totals Wayne Co/Inkster/Drbrn Hts CSO

Dilute Raw Sewage (MG)  
**231.40910**

SOC: The reissued NPDES permit will include a revised LTCP schedule

EGLE Action: Long-term Control Program revised in reissued permit; the program will address the two remaining "uncontrolled" (i.e., untreated) CSO outfalls. The Department agreed to a revised correction schedule for control of the remaining untreated outfalls based on the City of Inkster's financial demonstration. It's the Departments intent to negotiate a revised schedule for implementation of the remaining LTCP in the reissued permit in 2022

## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

#### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U10**

#### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U11**

#### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**3.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

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## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U3**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.05000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U4**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U5**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
3/26/2021	3:50:00 AM	3/26/2021	6:17:00 AM

Rain(in.) = 1.27  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP2-EV33-GTVWM  
Permit MI0051535  
Outfall **U9**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.03000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U11**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U2**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.02000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.01000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U4**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.04000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
5/23/2021	7:20:00 PM	5/23/2021	7:39:00 PM

Rain(in.) = 0.82  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP8-Y8GE-NRM4T  
Permit MI0051535  
Outfall **U9**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U10**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U11**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**3.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U2**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U3**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.04000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/21/2021	8:00:00 AM	6/21/2021	8:21:00 AM

Rain(in.) = 1.5  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-MNPE-8VNC4  
Permit MI0051535  
Outfall **U9**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**6.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U11**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**21.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**1.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U5**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM

Rain(in.) = 2.59  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**2.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall **U9**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U11**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**6.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U2**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U4**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
6/28/2021	9:22:00 PM	6/28/2021	11:46:00 PM

Rain(in.) = 0.76  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**0.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HP9-TKTF-Z64QH  
Permit MI0051535  
Outfall **U9**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**1.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U10**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**9.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U11**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**32.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U2**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U3**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**2.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/17/2021	7:28:00 PM

Rain(in.) = 2.7  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**4.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-8F2Q-8W82C  
Permit MI0051535  
Outfall **U9**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**1.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**7.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U11**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**27.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**1.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U5**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
7/24/2021	9:21:00 PM	7/25/2021	7:30:00 AM

Rain(in.) = 1.81  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**3.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall **U9**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U10**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**5.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U11**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**18.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U2**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U4**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**1.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U5**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:40:00 AM	8/12/2021	8:37:00 PM

Rain(in.) = 2.36  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**2.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall **U9**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U10**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**4.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U11**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**14.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U2**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U3**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
8/27/2021	12:56:00 PM	8/27/2021	6:25:00 PM

Rain(in.) = 2.12  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-9FMG-FR32Q  
Permit MI0051535  
Outfall **U9**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**2.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**12.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U11**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**44.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**1.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.60000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**2.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U5**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:50:00 PM	9/22/2021	5:00:00 PM

Rain(in.) = 4.41  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**5.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPB-XPPX-Z7A0T  
Permit MI0051535  
Outfall **U9**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.70000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**4.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U11**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**15.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U2**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U3**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U4**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..





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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	9:19:00 AM	10/25/2021	1:25:00 PM

Rain(in.) = 1.98  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-TY6W-7R097  
Permit MI0051535  
Outfall **U9**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U10**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**2.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U11**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**7.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U2**

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U3**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U5**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/29/2021	7:30:00 PM	10/30/2021	8:58:00 AM

Rain(in.) = 1.2  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.00000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPC-WEXV-9HE2G  
Permit MI0051535  
Outfall **U9**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Upper Rouge River

Dilute Raw Sewage (MG)  
**0.30000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U10**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Tarabusi Creek

Dilute Raw Sewage (MG)  
**1.90000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U11**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Ashcroft-Sherwood Drain

Dilute Raw Sewage (MG)  
**6.50000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U2**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.20000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U3**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.10000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U4**

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Bell Branch

Dilute Raw Sewage (MG)  
**0.40000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U5**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

## Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:14:00 AM	12/11/2021	6:18:00 AM

Rain(in.) = 1.25  
Waterbody: Tarabusi Creek

Submission ID. HPE-1JW4-SCCBK  
Permit MI0051535  
Outfall **U9**

Dilute Raw Sewage (MG)  
**0.80000**

Cause Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

## Totals Wayne Co/RDFrd/Livonia CSO

Dilute Raw Sewage (MG)  
**314.09000**

SOC: The NPDES permit requires independent control of the remaining untreated outfall or alternatively work with GLWA on a regional plan by 2025

EGLE Action: Long-term Control Program being implemented; construction of retention/treatment basin (for elimination of raw sewage & protection of public health) complete & facility is "on-line". The Department agrees that the RTB eliminates raw sewage, protects public health, and protects the physical characteristics standard. A report has been submitted to verify that the RTB protects the dissolved oxygen standard, and is currently under review by the Department. The reissued permit will require independent control of the remaining untreated outfall or alternatively work with GLWA on a regional plan by 2025.

## County Totals Wayne

Dilute Raw Sewage (MG)  
**8428.27607**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..



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## 'Combined Sewer Overflow' Detail Report January 1 - December 31, 2021

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### Report Totals

Dilute Raw Sewage (MG)

**8805.00557**

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MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs..

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contact Dan Beauchamp for further information: [beauchampd@michigan.gov](mailto:beauchampd@michigan.gov)

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Bay

#### Bay City WWTP

#### Bay City WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.41
6/26/2021	4:45:00 PM	6/27/2021	8:00:00 AM	Waterbody: Saginaw River

Submission ID. HP9-V3KF-296ME  
Permit MI0022284  
Outfall 48

RTB (MG)  
**6.800**

Cause: Heavy Rain over 3 day period

#### Bay City WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.86
9/23/2021	10:50:00 AM	9/24/2021	2:00:00 PM	Waterbody: Saginaw River

Submission ID. HPC-1RGR-2PH90  
Permit MI0022284  
Outfall 48

RTB (MG)  
**24.900**

Cause: Heavy Rain over a 4 day period

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

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**Totals** Bay City WWTP

RTB (MG)  
**31.70**

Long-term Control Program being implemented; currently collecting flow and rain fall data to conduct an evaluation study (Submitted) and model collection system for each of the 5 retention/treatment basins to determine whether adequate treatment is provided for the discharges; improvements to the retention/treatment basins may be required in the future pending the results of the evaluation studies. The study will evaluate basin 4 as a representative of basins 1 thru 4, and basin 5 separately. Evaluations currently under review for determination of adequate treatment.

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**County Totals** Bay

RTB (MG)  
**31.70**



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Dickinson

### Iron Mountain-Kingsford WWTP

#### Iron Mountain-Kingsford WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.58
6/28/2021	10:20:00 PM	6/29/2021	12:27:00 AM	Waterbody: Menominee River

Submission ID. HP9-TYS9-GJSCZ  
 Permit MI0023205  
 Outfall 002

RTB (MG)  
**0.875**

Cause: Rain event 0.58"

#### Iron Mountain-Kingsford WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.65
6/30/2021	2:35:00 PM	6/30/2021	4:07:00 PM	Waterbody: Menominee River

Submission ID. HP9-W11P-YKEGZ  
 Permit MI0023205  
 Outfall 002

RTB (MG)  
**0.845**

Cause: Heavy Rain 0.65"

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Iron Mountain-Kingsford WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:14:00 AM	9/7/2021	7:35:00 AM

Waterbody: Menominee River

Submission ID. HPB-HZYS-7DSEQ  
Permit MI0023205  
Outfall 002

RTB (MG)  
**0.410**

Cause: Small flow discharge, 0.56" rain

### Totals Iron Mountain-Kingsford WWTP

RTB (MG)  
**2.13**

Long-term Control Program considered complete (an existing retention/treatment basin)

### County Totals Dickinson

RTB (MG)  
**2.13**



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Houghton

### North Houghton Co W&SA CSO

#### North Houghton Co W&SA CSO

Start Day	Start Time	End Day	End Time
3/22/2021	4:00:00 PM	4/27/2021	2:00:00 AM

Waterbody: St Louis Creek

Submission ID. HP7-DDTH-0AX7B  
 Permit MI0043982  
 Outfall 001

RTB (MG)  
**17.470**

Cause: permitted CSO discharge due to snow melt

#### North Houghton Co W&SA CSO

Start Day	Start Time	End Day	End Time
3/22/2021	4:00:00 PM	5/3/2021	8:05:00 AM

Waterbody: Douglas Creek

Submission ID. HP7-DE1S-4S7QM  
 Permit MI0043982  
 Outfall 001

RTB (MG)  
**25.880**

Cause: Permitted CSO discharge due to snow melt



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## North Houghton Co W&SA CSO

Start Day	Start Time	End Day	End Time
12/16/2021	12:00:00 PM	12/16/2021	3:00:00 AM

Rain(in.) = 0.47  
Waterbody: st louis creek

Submission ID. HPE-0S61-C7JBP  
Permit MI0043982  
Outfall 001

RTB (MG)  
**0.011**

Cause: CSO, due to train and snow melt

## Totals North Houghton Co W&SA CSO

RTB (MG)  
**43.36**

Long-term Control Program completed

## County Totals Houghton

RTB (MG)  
**43.36**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Ingham

### East Lansing WRRF

#### East Lansing WRRF

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.7
6/26/2021	6:25:00 PM	6/27/2021	5:30:00 AM	Waterbody: Red Cedar River

Submission ID. HP9-S0D6-YQAD4  
 Permit MI0022853  
 Outfall 15

RTB (MG)  
**13.200**

Cause: RTB discharge due to heavy rain.

#### East Lansing WRRF

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.74
8/12/2021	1:30:00 AM	8/12/2021	3:00:00 PM	Waterbody: Red Cedar River

Submission ID. HPA-XE5F-VPRJX  
 Permit MI0022853  
 Outfall 15

RTB (MG)  
**65.090**

Cause: RTB discharge due to heavy rain.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### East Lansing WRRF

Start Day	Start Time	End Day	End Time
9/13/2021	1:50:00 PM	9/13/2021	4:00:00 PM

Rain(in.) = 1.23  
Waterbody: Red Cedar River

Submission ID. HPB-PZKD-T916M  
Permit MI0022853  
Outfall 15

RTB (MG)  
**6.220**

Cause: RTB discharge due to heavy rain in a very short period of time.

### Totals East Lansing WRRF

RTB (MG)  
**84.51**

Long-term Control Program complete; controls included both sewer separation and construction of a retention treatment basin (RTB) and tunnel.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Lansing WWTP

#### Lansing WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.72
8/12/2021	8:15:00 AM	8/12/2021	4:15:00 PM	Waterbody: Grand River

Submission ID. HPA-XMFT-0Z8BT  
 Permit MI0023400  
 Outfall 003

RTB (MG)  
**3.980**

Cause: CSO Discharge--South Retention Basin 003 (discharges through the outfall for Regulator 008). Overflow was due to a heavy rainfall event which lead to a high influent flow to the plant. Discharge was disinfected with sodium hypochlorite. Only the surface w

#### Totals Lansing WWTP

RTB (MG)  
**3.98**

Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

#### County Totals Ingham

RTB (MG)  
**88.49**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.





# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Macomb

### Chapaton RTB

#### Chapaton RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.78
3/26/2021	4:50:00 AM	3/26/2021	2:50:00 PM	Waterbody: Lake St. Clair

Submission ID. HP7-GF0T-PM3M9  
 Permit MI0025585  
 Outfall 001

RTB (MG)  
**21.500**

Cause: Rain and Runoff

#### Chapaton RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.61
6/26/2021	1:55:00 AM	6/26/2021	4:00:00 PM	Waterbody: Lake St. Clair

Submission ID. HP9-RD4P-2XXTV  
 Permit MI0025585  
 Outfall 001

RTB (MG)  
**70.900**

Cause: Heavy rain and Runoff. Significant rainfall downstream and Conner Pump Station failures resulted in SEMSD/MCPWO having to shutdown Marter Road Booster Pumping Station. All flow was then diverted to Chapaton.

## 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

### Chapaton RTB

Start Day	Start Time	End Day	End Time
6/26/2021	2:30:00 AM	6/26/2021	7:40:00 AM

Rain(in.) = 3.61  
Waterbody: Lake St. Clair

Submission ID. HP9-RGRT-E998K  
Permit MI0025585  
Outfall 001

RTB (MG)

**25.800**

Cause: Heavy rain and Runoff. Significant rainfall downstream and Conner Pump Station failures resulted in SEMSD/MCPWO having to shutdown Marter Road Booster Pumping Station. All flow was then diverted to Chapaton.

### Chapaton RTB

Start Day	Start Time	End Day	End Time
7/16/2021	1:10:00 PM	7/17/2021	1:00:00 PM

Rain(in.) = 3.23  
Waterbody: Lake St. Clair

Submission ID. HPA-8FWK-PZQMD  
Permit MI0025585  
Outfall 001

RTB (MG)

**76.500**

Cause: Chapaton RTB discharge due rain fall and downstream conveyance issues.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Chapaton RTB

Start Day	Start Time	End Day	End Time
9/22/2021	1:15:00 AM	9/23/2021	2:00:00 PM

Rain(in.) = 4.62  
Waterbody: Lake St. Clair

Submission ID. HPB-XGFA-PAVFN  
Permit MI0025585  
Outfall 001

RTB (MG)  
**104.100**

Cause: Heavy rain and runoff

### Chapaton RTB

Start Day	Start Time	End Day	End Time
10/25/2021	10:30:00 AM	10/26/2021	10:50:00 PM

Rain(in.) = 2.37  
Waterbody: Lake St. Clair

Submission ID. HPC-QSCH-HWEBS  
Permit MI0025585  
Outfall 001

RTB (MG)  
**47.900**

Cause: Rain and runoff

### Chapaton RTB

Start Day	Start Time	End Day	End Time
12/11/2021	5:30:00 AM	12/11/2021	9:20:00 AM

Rain(in.) = 1.19  
Waterbody: Lake St. Clair

Submission ID. HPD-WJ5M-DJ67K  
Permit MI0025585  
Outfall 001

RTB (MG)  
**7.100**

Cause: heavy rain and runoff

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

**Totals**   **Chapaton RTB**

RTB (MG)  
**353.80**

Long-term Control Program has been completed; program & permit required 3-phase sewer construction project designed to reduce wet-weather flow quantities directed to the retention/treatment basin (RTB); permit also required submittal of RTB Evaluation Study to determine whether adequate treatment is provided to meet Water Quality Standards (the results of the study were ultimately approved on Jan. 31, 2007); the actual construction phase of the current project is complete; there are no "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program. The permit required a "Total Residual Chlorine Mixing Zone/Plume Definition Study" which has been submitted and is currently under review by the Department. The report evaluates whether or not the Total Residual Chlorine (TRC) discharges from the RTB cause violations of Water Quality Standards.

**Martin RTB**

**Martin RTB**

Start Day	Start Time	End Day	End Time
3/26/2021	5:50:00 AM	3/26/2021	4:05:00 PM

Rain(in.) = 1.85  
Waterbody: Lake St. Clair

Submission ID.   HP7-GF6R-SDV6R  
Permit            MI0025453  
Outfall            001

RTB (MG)  
**16.000**

Cause: Rain & Runoff

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.6
3/28/2021	12:30:00 PM	3/28/2021	6:00:00 PM	Waterbody: Lake St. Clair

Submission ID. HP7-JONE-A045P  
 Permit MI0025453  
 Outfall 001

RTB (MG)  
**7.100**

Cause: Rain & Runoff. The system has not been able to completely dewater from the previous rain event on 3/26/21. GLWA requested stoppage of dewatering for 3 hours on 3/27/2021.

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.46
6/25/2021	10:40:00 PM	6/26/2021	4:30:00 PM	Waterbody: Lake St. Clair

Submission ID. HP9-R96X-Y0GE3  
 Permit MI0025453  
 Outfall 001

RTB (MG)  
**48.500**

Cause: Heavy rain and runoff.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.68
7/16/2021	1:50:00 PM	7/17/2021	3:05:00 PM	Waterbody: Lake St. Clair

Submission ID. HPA-8GAY-V7M3K  
Permit MI0025453  
Outfall 001

RTB (MG)  
**62.900**

Cause: Martin RTB discharge due to rain fall and downstream conveyance issues.

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.57
7/25/2021	12:35:00 AM	7/25/2021	5:50:00 AM	Waterbody: Lake St. Clair

Submission ID. HPA-F5BV-FTPGW  
Permit MI0025453  
Outfall 001

RTB (MG)  
**4.400**

Cause: Heavy rain and runoff

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.07
8/12/2021	6:15:00 AM	8/12/2021	9:15:00 PM	Waterbody: Lake St. Clair

Submission ID. HPA-G8GM-2RNNT  
Permit MI0025453  
Outfall 001

RTB (MG)  
**56.500**

Cause: Heavy rain and runoff

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.87
9/22/2021	1:05:00 AM	9/24/2021	2:30:00 AM	Waterbody: Lake St. Clair

Submission ID. HPB-XGXS-WFQ45  
Permit MI0025453  
Outfall 001

RTB (MG)  
**118.200**

Cause: Rain and runoff

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.34
10/25/2021	8:15:00 AM	10/26/2021	2:45:00 AM	Waterbody: Lake St. Clair

Submission ID. HPC-QP4K-W8895  
Permit MI0025453  
Outfall 001

RTB (MG)  
**50.400**

Cause: Rain and runoff

### Martin RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.02
10/29/2021	8:10:00 PM	10/30/2021	1:45:00 PM	Waterbody: Lake Saint Clair

Submission ID. HPC-V7AG-31YQY  
Permit MI0025453  
Outfall 001

RTB (MG)  
**23.294**

Cause: heavy rain and runoff

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Martin RTB

Submission ID. HPD-WHV3-50SVJ  
Permit MI0025453  
Outfall 001

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.15
12/11/2021	5:05:00 AM	12/11/2021	4:15:00 PM	Waterbody: Lake St Clair

RTB (MG)  
**18.400**

Cause: heavy rain and runoff

### Totals Martin RTB

RTB (MG)  
**405.69**

Long-term Control Program has been completed; program & permit required 3-phase sewer construction project designed to reduce wet-weather flow quantities directed to the retention/treatment basin (RTB); permit also required submittal of RTB Evaluation Study to determine whether adequate treatment is provided to meet Water Quality Standards (the results of the study were ultimately approved on Jan. 31, 2007); the actual construction phase of the ; current project is complete; there are no "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program. Now considered a discharge from a separate sanitary sewer system subject to Federal Secondary Treatment Requirements.

### County Totals Macomb

RTB (MG)  
**759.49**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.





# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Oakland

### Birmingham CSO RTB

#### Birmingham CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.82
6/25/2021	6:20:00 PM	6/27/2021	9:15:00 AM	Waterbody: Rouge River

Submission ID. HP2-KZ8X-75304  
 Permit MI0025534  
 Outfall 101

RTB (MG)  
**31.900**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

#### Birmingham CSO RTB

Start Day	Start Time	End Day	End Time	Waterbody: Rouge River
7/24/2021	9:10:00 PM	7/25/2021	11:40:00 PM	

Submission ID. HP9-V6J5-H3A3V  
 Permit MI0025534  
 Outfall 101

RTB (MG)  
**11.000**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Birmingham CSO RTB

Start Day	Start Time	End Day	End Time
9/21/2021	7:30:00 PM	9/24/2021	6:30:00 PM

Rain(in.) = 6.2  
Waterbody: Rouge River

Submission ID. HPA-JQQ1-XFPM3  
Permit MI0025534  
Outfall 101

RTB (MG)  
**36.539**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Totals Birmingham CSO RTB

RTB (MG)  
**79.44**

Long-term Control Program complete; Permittee has successfully demonstrated that the Birmingham CSO RTB effectively provides adequate treatment of combined sewage discharges and complies with Water Quality Standards at times of discharge (i.e., meets in-stream dissolved oxygen standard, eliminates raw sewage, protects public health, satisfies the biosurvey requirement, and satisfies the TRC requirement without the need for dechlorination equipment).

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Bloomfield Village CSO RTB

#### Bloomfield Village CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.82
6/25/2021	6:10:00 PM	6/27/2021	5:45:00 AM	Waterbody: Rouge River

Submission ID. HP2-KZ9F-2CTWG  
Permit MI0048046  
Outfall 102

RTB (MG)  
**45.630**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

#### Bloomfield Village CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.93
7/24/2021	9:15:00 PM	7/25/2021	3:32:00 PM	Waterbody: Rouge River

Submission ID. HP9-V6KP-7QYNJ  
Permit MI0048046  
Outfall 102

RTB (MG)  
**13.884**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Bloomfield Village CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.43
8/12/2021	6:38:00 AM	8/12/2021	10:26:00 PM	Waterbody: Rouge River

Submission ID. HPA-JQNP-11X45  
Permit MI0048046  
Outfall 102

RTB (MG)  
**3.690**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Bloomfield Village CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 6.18
9/21/2021	7:25:00 PM	9/23/2021	11:25:00 PM	Waterbody: Rouge River

Submission ID. HPB-1GFD-2PB8F  
Permit MI0048046  
Outfall 102

RTB (MG)  
**48.290**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Bloomfield Village CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.98
10/25/2021	2:20:00 PM	10/26/2021	12:20:00 AM	Waterbody: Rouge River

Submission ID. HPC-2HHJ-ZZZN3  
 Permit MI0048046  
 Outfall 102

RTB (MG)  
**13.690**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Bloomfield Village CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.54
10/30/2021	2:00:00 AM	10/30/2021	5:00:00 PM	Waterbody: Rouge River

Submission ID. HPC-SF8P-HQWPW  
 Permit MI0048046  
 Outfall 102

RTB (MG)  
**3.190**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

**Totals** **Bloomfield Village CSO RTB**

RTB (MG)  
**128.37**

Long-term Control Program complete; Permittee has successfully demonstrated that the Birmingham CSO RTB effectively provides adequate treatment of combined sewage discharges and complies with Water Quality Standards at times of discharge (i.e., meets in-stream dissolved oxygen standard, eliminates raw sewage, protects public health, satisfies the biosurvey requirement, and satisfies the TRC requirement without the need for dechlorination equipment).

**George W Kuhn Dr Dist CSO RTB**

**George W Kuhn Dr Dist CSO RTB**

Start Day	Start Time	End Day	End Time
3/26/2021	4:35:00 AM	3/26/2021	10:50:00 AM

Rain(in.) = 1.31  
Waterbody: Red Run Drain

Submission ID. HP2-KZAP-DNGDW  
Permit MI0026115  
Outfall 001

RTB (MG)  
**69.400**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in an attempt to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time
6/21/2021	6:00:00 AM	6/21/2021	9:25:00 AM

Rain(in.) = 0.91  
Waterbody: Red Run Drain

Submission ID. HP7-R8AK-5MTWZ  
Permit MI0026115  
Outfall 001

RTB (MG)  
**37.400**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time
6/25/2021	3:58:00 PM	6/26/2021	3:18:00 PM

Rain(in.) = 2.29  
Waterbody: Red Run Drain

Submission ID. HP9-NJPD-9WXB7  
Permit MI0026115  
Outfall 001

RTB (MG)  
**519.790**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time
7/16/2021	12:55:00 PM	7/17/2021	8:45:00 AM

Rain(in.) = 1.85  
Waterbody: Red Run Drain

Submission ID. HP9-V6DN-QSXZJ  
Permit MI0026115  
Outfall 001

RTB (MG)  
**433.900**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time
7/24/2021	9:35:00 PM	7/25/2021	6:30:00 AM

Rain(in.) = 1.83  
Waterbody: Red Run Drain

Submission ID. HPA-BM6N-ZXJ9M  
Permit MI0026115  
Outfall 001

RTB (MG)  
**406.060**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.4
8/12/2021	5:57:00 AM	8/12/2021	3:45:00 PM	Waterbody: Red Run Drain

Submission ID. HPA-JQJE-DBFTS  
Permit MI0026115  
Outfall 001

RTB (MG)  
**535.340**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.55
8/27/2021	2:06:00 PM	8/27/2021	5:40:00 PM	Waterbody: Red Run Drain

Submission ID. HPB-1GGR-5CJBK  
Permit MI0026115  
Outfall 001

RTB (MG)  
**70.000**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.36
9/21/2021	11:05:00 PM	9/23/2021	11:35:00 PM	Waterbody: Red Run

Submission ID. HPB-BRDA-P6V11  
 Permit MI0026115  
 Outfall 001

RTB (MG)  
**637.100**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.06
10/25/2021	7:45:00 AM	10/26/2021	12:35:00 AM	Waterbody: Red Run Drain

Submission ID. HPC-QPRR-AKGV3  
 Permit MI0026115  
 Outfall 001

RTB (MG)  
**199.900**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time
10/29/2021	8:14:00 PM	10/30/2021	8:15:00 AM

Rain(in.) = 1.32  
Waterbody: Red Run Drain

Submission ID. HPC-SF76-K55P3  
Permit MI0026115  
Outfall 001

RTB (MG)  
**92.600**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### George W Kuhn Dr Dist CSO RTB

Start Day	Start Time	End Day	End Time
12/11/2021	3:50:00 AM	12/11/2021	1:35:00 PM

Rain(in.) = 1.09  
Waterbody: Red Run Drain

Submission ID. HPC-X9CK-ERE8X  
Permit MI0026115  
Outfall 001

RTB (MG)  
**99.800**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

**Totals** **George W Kuhn Dr Dist CSO RTB**

RTB (MG)  
**3101.29**

Long-term Control Program has been completed; permit & program required construction project to upgrade the George W. Kuhn (formerly "12 Towns") Retention Treatment Facility to assure facility provides adequate treatment of discharges; upgrades included capacity/volume increase and disinfection improvements; construction of facility upgrades was completed on Dec. 22, 2005; presumptive basin; there are no "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program.

**Oakland Co-Acacia Park CSO RTB**

**Oakland Co-Acacia Park CSO RTB**

Start Day	Start Time	End Day	End Time	
6/25/2021	6:30:00 PM	6/27/2021	3:10:00 AM	Rain(in.) = 3.82 Waterbody: Rouge River

Submission ID. HP9-V6GP-S27PF  
Permit MI0037427  
Outfall 103

RTB (MG)  
**20.530**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.99
7/16/2021	1:00:00 PM	7/17/2021	2:34:00 AM	Waterbody: Rouge River

Submission ID. HP9-WPHH-PT8K9  
 Permit MI0037427  
 Outfall 103

RTB (MG)  
**5.910**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.93
7/24/2021	9:08:00 PM	7/25/2021	7:20:00 AM	Waterbody: Rouge River

Submission ID. HPA-BM87-FFGA4  
 Permit MI0037427  
 Outfall 103

RTB (MG)  
**10.070**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.43
8/12/2021	5:56:00 AM	8/12/2021	3:30:00 PM	Waterbody: Rouge River

Submission ID. HPA-JQM1-7VA6Q  
 Permit MI0037427  
 Outfall 103

RTB (MG)  
**6.720**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 6.2
9/21/2021	7:10:00 PM	9/24/2021	4:19:00 AM	Waterbody: Rouge River

Submission ID. HPB-1GCW-4R8R5  
 Permit MI0037427  
 Outfall 103

RTB (MG)  
**43.200**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time
10/25/2021	12:38:00 PM	10/25/2021	6:30:00 PM

Rain(in.) = 1.98  
Waterbody: Rouge River

Submission ID. HPC-2HJR-0HM18  
Permit MI0037427  
Outfall 103

RTB (MG)  
**3.260**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time
10/29/2021	10:20:00 PM	10/30/2021	4:35:00 AM

Rain(in.) = 1.52  
Waterbody: Rouge River

Submission ID. HPC-S934-X5WBM  
Permit MI0037427  
Outfall 103

RTB (MG)  
**2.510**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Oakland Co-Acacia Park CSO RTB

Start Day	Start Time	End Day	End Time
12/11/2021	3:50:00 AM	12/11/2021	8:35:00 AM

Rain(in.) = 1.14  
Waterbody: Rouge River

Submission ID. HPC-X9BF-J5DMA  
Permit MI0037427  
Outfall 103

RTB (MG)  
**1.940**

Cause: A Permitted Treated Discharge has occurred due to rainfall and surcharged sewer levels. This discharge has been fine screened, settled, and disinfected in order to meet NPDES permitted requirements.

### Totals Oakland Co-Acacia Park CSO RTB

RTB (MG)  
**94.14**

Long-term Control Program complete; Permittee has successfully demonstrated that the Acacia Park CSO RTB effectively provides adequate treatment of combined sewage discharges and complies with Water Quality Standards at times of discharge (i.e., meets in-stream dissolved oxygen standard, eliminates raw sewage, protects public health, satisfies the biosurvey requirement, and satisfies the TRC requirement without the need for dechlorination equipment). The goal of the approved TRC Minimization Program is operation of the CSO RTB in a manner which will provide consistent, effective disinfection while minimizing the discharge of TRC.

### County Totals Oakland

RTB (MG)  
**3403.24**





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Saginaw

### Saginaw Twp WWTP

#### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.26
6/26/2021	6:30:00 AM	6/27/2021	4:00:00 PM	Waterbody: Tittabawasee River

Submission ID. HP9-T7HE-11MET  
 Permit MI0023973  
 Outfall 003

RTB (MG)  
**17.334**

Cause: Heavy Rain

#### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.74
7/8/2021	7:48:00 AM	7/8/2021	6:00:00 PM	Waterbody: Tittabawasee River

Submission ID. HPA-2YZW-Z715E  
 Permit MI0023973  
 Outfall 003

RTB (MG)  
**6.228**

Cause: Intense Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	11:15:00 AM	8/30/2021	2:00:00 AM

Rain(in.) = 2.58  
Waterbody: Tittabawasee River

Submission ID. HPB-BVXY-TVFQY  
Permit MI0023973  
Outfall 003

RTB (MG)

**12.080**

Cause: 3 intense rain storm came through the area starting Friday morning, then late Saturday afternoon, and again Saturday evening.

### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:02:00 PM	9/9/2021	6:00:00 AM

Rain(in.) = 1.76  
Waterbody: Tittabawasee River

Submission ID. HPB-KSAP-6X0JN  
Permit MI0023973  
Outfall 003

RTB (MG)

**9.077**

Cause: Intense rain late Tuesday afternoon, combine sewer system, RTB quality outfall

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.36
9/23/2021	7:00:00 AM	9/27/2021	7:00:00 AM	Waterbody: Tittabawassee River

Submission ID. HPC-1V60-DMWS6  
Permit MI0023973  
Outfall 003

RTB (MG)

**34.691**

Cause: RTB discharge, because of the significant rainfall that has fallen in our service area.

### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.98
10/4/2021	11:50:00 PM	10/5/2021	8:00:00 PM	Waterbody: Tittabawassee River

Submission ID. HPC-ACH5-D85ZW  
Permit MI0023973  
Outfall 003

RTB (MG)

**5.096**

Cause: Intense rain in our already wet service area.

### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.03
10/9/2021	12:05:00 AM	10/13/2021	2:00:00 AM	Waterbody: Tittabawassee River

Submission ID. HPC-G3KQ-KXASJ  
Permit MI0023973  
Outfall 003

RTB (MG)

**8.711**

Cause: Normal RTB discharge, intense rain in our already soaked service area.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw Twp WWTP

Start Day	Start Time	End Day	End Time
10/30/2021	6:00:00 AM	11/1/2021	7:00:00 AM

Rain(in.) = 0.8  
Waterbody: Tittabawassee River

Submission ID. HPC-YV1B-HQHVV  
Permit MI0023973  
Outfall 003

RTB (MG)  
**8.456**

Cause: Normal discharge up to RTB standards. Basin not fully empty, more rain on already soaked service area,

### Totals Saginaw Twp WWTP

RTB (MG)  
**101.67**

Long-term Control Program complete; existing retention/treatment basin provides adequate treatment to meet Water Quality Standards at times of discharge.

### Saginaw WWTP

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/8/2021	5:12:00 PM	6/8/2021	6:08:00 PM

Rain(in.) = 0.75  
Waterbody: Saginaw River

Submission ID. HP9-ATYB-PHBXS  
Permit MI0025577  
Outfall R06

RTB (MG)  
**0.160**

Cause: RTB Discharge, of partially treated water, was discharged due to rain totals of .75. Water had floatables and settleable solids removed and was chlorinated prior to discharge



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# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	6:20:00 PM	6/27/2021	6:10:00 AM

Rain(in.) = 2.62  
Waterbody: Saginaw River

Submission ID. HP9-R89R-HSZPJ  
Permit MI0025577  
Outfall R03

RTB (MG)  
**49.800**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching 3.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/25/2021	6:42:00 PM	6/27/2021	12:10:00 AM

Rain(in.) = 2.88  
Waterbody: Saginaw River

Submission ID. HP9-R89R-HSZPJ  
Permit MI0025577  
Outfall R05

RTB (MG)  
**5.070**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching 3.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/26/2021	9:58:00 PM	6/27/2021	12:42:00 AM

Rain(in.) = 2.95  
Waterbody: Saginaw River

Submission ID. HP9-R89R-HSZPJ  
Permit MI0025577  
Outfall R37

RTB (MG)  
**6.440**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching 3.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/26/2021	10:52:00 PM	6/27/2021	1:44:00 AM

Rain(in.) = 3.32  
Waterbody: Saginaw River

Submission ID. HP9-R89R-HSZPJ  
Permit MI0025577  
Outfall R06

RTB (MG)  
**4.900**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching 3.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/26/2021	11:15:00 PM	6/27/2021	5:20:00 AM

Rain(in.) = 2.67  
Waterbody: Saginaw River

Submission ID. HP9-R89R-HSZPJ  
Permit MI0025577  
Outfall R07

RTB (MG)  
**6.870**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching 3.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
6/26/2021	11:30:00 PM	6/27/2021	3:20:00 AM

Rain(in.) = 2.59  
Waterbody: Saginaw River

Submission ID. HP9-R89R-HSZPJ  
Permit MI0025577  
Outfall R04

RTB (MG)  
**6.660**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	5:40:00 PM	7/24/2021	8:31:00 PM

Rain(in.) = 2.18  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R11

RTB (MG)  
**2.170**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	6:04:00 PM	7/24/2021	9:34:00 PM

Rain(in.) = 2.24  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R07

RTB (MG)  
**16.190**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	6:05:00 PM	7/24/2021	10:10:00 PM

Rain(in.) = 1.44  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R04

RTB (MG)

**3.640**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	6:10:00 PM	7/24/2021	10:55:00 PM

Rain(in.) = 1.89  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R03

RTB (MG)

**17.580**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	6:22:00 PM	7/24/2021	7:50:00 PM

Rain(in.) = 1.77  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R37

RTB (MG)  
**7.500**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

## Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	6:38:00 PM	7/24/2021	9:37:00 PM

Rain(in.) = 1.77  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R06

RTB (MG)  
**9.160**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.



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## 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
7/24/2021	6:41:00 PM	7/24/2021	9:15:00 PM

Rain(in.) = 1.54  
Waterbody: Saginaw River

Submission ID. HPA-FOJV-GPPBN  
Permit MI0025577  
Outfall R05

RTB (MG)  
**1.270**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals nearing 2.0 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/1/2021	2:14:00 AM	8/1/2021	5:45:00 AM

Rain(in.) = 0.8  
Waterbody: Saginaw River

Submission ID. HPA-MPXC-3JP0Q  
Permit MI0025577  
Outfall R03

RTB (MG)  
**14.980**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of .80 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	8:30:00 AM	8/27/2021	10:18:00 AM

Rain(in.) = 2.2  
Waterbody: Saginaw River

Submission ID. HPB-9EGE-57F0G  
Permit MI0025577  
Outfall R11

RTB (MG)

**1.620**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	8:55:00 AM	8/27/2021	2:28:00 PM

Rain(in.) = 2.28  
Waterbody: Saginaw River

Submission ID. HPB-9EGE-57F0G  
Permit MI0025577  
Outfall R03

RTB (MG)

**29.350**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	9:00:00 AM	8/27/2021	1:05:00 PM

Rain(in.) = 1.82  
Waterbody: Saginaw River

Submission ID. HPB-9EGE-57F0G  
Permit MI0025577  
Outfall R04

RTB (MG)  
**2.100**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	9:25:00 AM	8/27/2021	2:28:00 PM

Rain(in.) = 2.51  
Waterbody: Saginaw River

Submission ID. HPB-9EGE-57F0G  
Permit MI0025577  
Outfall R07

RTB (MG)  
**13.270**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	9:47:00 AM	8/27/2021	12:45:00 PM

Rain(in.) = 1.98  
Waterbody: Saginaw River

Submission ID. HPB-9EGE-57F0G  
Permit MI0025577  
Outfall R05

RTB (MG)  
**4.170**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/27/2021	11:18:00 AM	8/27/2021	1:50:00 PM

Rain(in.) = 1.77  
Waterbody: Saginaw River

Submission ID. HPB-9EGE-57F0G  
Permit MI0025577  
Outfall R37

RTB (MG)  
**2.620**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.5 inches. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/28/2021	7:34:00 PM	8/28/2021	8:50:00 PM

Rain(in.) = 0.94  
Waterbody: Saginaw River

Submission ID. HPB-AJNN-9VPZ5  
Permit MI0025577  
Outfall R11

RTB (MG)

**1.030**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching .75inches after over 2inches of rain the previous day. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/28/2021	8:05:00 PM	8/28/2021	11:44:00 PM

Rain(in.) = 0.75  
Waterbody: Saginaw River

Submission ID. HPB-AJNN-9VPZ5  
Permit MI0025577  
Outfall R03

RTB (MG)

**12.180**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching .75inches after over 2inches of rain the previous day. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/28/2021	8:18:00 PM	8/28/2021	10:25:00 PM

Rain(in.) = 0.62  
Waterbody: Saginaw River

Submission ID. HPB-AJNN-9VPZ5  
Permit MI0025577  
Outfall R05

RTB (MG)  
**1.580**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching .75inches after over 2inches of rain the previous day. Water had floatable and settleable solids removed and was chlorinated prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/28/2021	9:30:00 PM	8/28/2021	10:02:00 PM

Rain(in.) = 0.2  
Waterbody: Saginaw River

Submission ID. HPB-AJNN-9VPZ5  
Permit MI0025577  
Outfall R06

RTB (MG)  
**0.480**

Cause: RTB discharge, of partially treated water, was discharged due to rain totals approaching .75inches after over 2inches of rain the previous day. Water had floatable and settleable solids removed and was chlorinated prior to discharge.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	5:36:00 PM	8/29/2021	6:20:00 PM

Rain(in.) = 0.75  
Waterbody: Saginaw River

Submission ID. HPB-BAAX-VVPNC  
Permit MI0025577  
Outfall R37

RTB (MG)  
**1.310**

Cause: RTB discharge of partially treated water, was discharged due to rain totals near .75 inches plus system being full from past 2 days rain events., reaching near 3.5 inches across the system.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
8/29/2021	6:40:00 PM	8/29/2021	7:40:00 PM

Rain(in.) = 0.69  
Waterbody: Saginaw River

Submission ID. HPB-BAAX-VVPNC  
Permit MI0025577  
Outfall R06

RTB (MG)  
**0.620**

Cause: RTB discharge of partially treated water, was discharged due to rain totals near .75 inches plus system being full from past 2 days rain events., reaching near 3.5 inches across the system.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:15:00 PM	9/7/2021	10:32:00 PM

Rain(in.) = 1.66  
Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R11

RTB (MG)  
**1.190**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:18:00 PM	9/8/2021	9:00:00 AM

Rain(in.) = 2.02  
Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R03

RTB (MG)  
**35.220**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.54
9/7/2021	6:20:00 PM	9/7/2021	10:10:00 PM	Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R05

RTB (MG)  
**5.320**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.69
9/7/2021	6:21:00 PM	9/7/2021	11:15:00 PM	Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R07

RTB (MG)  
**9.730**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:30:00 PM	9/7/2021	10:45:00 PM

Rain(in.) = 1.31  
Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R04

RTB (MG)  
**3.660**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:30:00 PM	9/7/2021	10:08:00 PM

Rain(in.) = 1.45  
Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R37

RTB (MG)  
**3.220**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/7/2021	6:43:00 PM	9/7/2021	8:49:00 PM

Rain(in.) = 1.66  
Waterbody: Saginaw River

Submission ID. HPB-JCYJ-OKD4B  
Permit MI0025577  
Outfall R06

RTB (MG)  
**3.540**

Cause: RTB discharge of partially treated water, was discharged due to rain totals approaching 2.25inches. Water had floatable and settleable solids removed and was disinfected prior to discharge.

## Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	6:20:00 AM	9/24/2021	1:38:00 AM

Rain(in.) = 1.79  
Waterbody: Saginaw River

Submission ID. HPB-YJJ1-BX4FR  
Permit MI0025577  
Outfall R05

RTB (MG)  
**7.300**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.0 inches over the past 3 days. Water had floatable and settleable solids removed and was chlorinated prior to discharge



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	6:38:00 AM	9/23/2021	9:05:00 PM

Rain(in.) = 1.05  
Waterbody: Saginaw River

Submission ID. HPB-YJJ1-BX4FR  
Permit MI0025577  
Outfall R07

RTB (MG)  
**10.020**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.0 inches over the past 3 days. Water had floatable and settleable solids removed and was chlorinated prior to discharge

## Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	7:00:00 AM	9/24/2021	1:28:00 PM

Rain(in.) = 1.4  
Waterbody: Saginaw River

Submission ID. HPB-YJJ1-BX4FR  
Permit MI0025577  
Outfall R03

RTB (MG)  
**63.710**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.0 inches over the past 3 days. Water had floatable and settleable solids removed and was chlorinated prior to discharge

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	7:00:00 AM	9/23/2021	1:47:00 PM

Rain(in.) = 1.76  
Waterbody: Saginaw River

Submission ID. HPB-YJJ1-BX4FR  
Permit MI0025577  
Outfall R06

RTB (MG)

**4.150**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.0 inches over the past 3 days.  
Water had floatable and settleable solids removed and was chlorinated prior to discharge

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	7:27:00 AM	9/24/2021	1:20:00 AM

Rain(in.) = 1.11  
Waterbody: Saginaw River

Submission ID. HPB-YJJ1-BX4FR  
Permit MI0025577  
Outfall R04

RTB (MG)

**8.630**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.0 inches over the past 3 days.  
Water had floatable and settleable solids removed and was chlorinated prior to discharge

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Saginaw WWTP

Start Day	Start Time	End Day	End Time
9/23/2021	8:13:00 AM	9/23/2021	2:20:00 PM

Rain(in.) = 1.94  
Waterbody: Saginaw River

Submission ID. HPB-YJJ1-BX4FR  
Permit MI0025577  
Outfall R37

RTB (MG)

**17.980**

Cause: RTB discharge of partially treated water, was discharged due to rain totals of 2.0 inches over the past 3 days. Water had floatable and settleable solids removed and was chlorinated prior to discharge

### Totals Saginaw WWTP

RTB (MG)

**396.39**

The permittee has implemented a Long-term Control Program to provide for treatment of all combined sewage discharges from the City of Saginaw's Retention Treatment Basins (RTB's). The data provided by the City indicated that two of the 7 RTB's (Weiss Street and 14th Street RTBs) are sized to meet the State's presumptive definition, and thus provide adequate treatment to meet water quality standards at times of discharge. The City has provided enough data to indicate that the other five RTB's facilities located provide adequate treatment of combined sewage discharges and comply with Water Quality Standards at times of discharge for the following criteria; meets in-stream dissolved oxygen standard, protects public health. The City will be conducting a study to determine if all seven RTBs can effectively eliminate identifiable sanitary trash across the range of events monitored and meet the physical characteristics rule (Rule 50 of Michigan's Part 4 WQS). This is the last criteria needed to be demonstrated to ensure that the seven RTBs provide adequate treatment.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

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County Totals

Saginaw

RTB (MG)

**498.06**



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Wayne

### Dearborn CSO

#### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 7.57
6/25/2021	11:39:00 PM	6/27/2021	6:20:00 PM	Waterbody: Rouge River

Submission ID. HP9-RR86-C9304  
 Permit MI0025542  
 Outfall 106

RTB (MG)  
**40.320**

Cause: Rain fall volumes caused combined sewers to overflow into Outer Drive CSO facility. RTB discharge was screened and disinfected with chlorine.

#### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 7.28
6/25/2021	11:40:00 PM	6/27/2021	12:45:00 AM	Waterbody: Rouge River

Submission ID. HP9-RR86-C9304  
 Permit MI0025542  
 Outfall 117

RTB (MG)  
**112.509**

Cause: Rain fall volumes caused combined sewers to overflow into Prospect CSO facility. RTB discharge was screened and disinfected with chlorine.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
6/25/2021	11:55:00 PM	6/26/2021	4:50:00 PM

Rain(in.) = 7.57  
Waterbody: Rouge River

Submission ID. HP9-RR86-C9304  
Permit MI0025542  
Outfall 108

RTB (MG)  
**40.620**

Cause: Rain fall volumes caused combined sewers to overflow into Military CSO facility. RTB discharge was screened and disinfected with chlorine.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	10:40:00 AM	7/17/2021	10:00:00 AM

Rain(in.) = 3.73  
Waterbody: Rouge River

Submission ID. HPA-8FM8-YX9PQ  
Permit MI0025542  
Outfall 117

RTB (MG)  
**120.360**

Cause: RTB facility screens and treats combined sewer system. Due to high volumes of rain, the facility discharged to the river.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:10:00 AM	7/18/2021	9:00:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Submission ID. HPA-8GRE-27ZBZ  
Permit MI0025542  
Outfall 106

RTB (MG)  
**20.920**

Cause: RTB Facility screens and treats combined sewer system. Due to high volumes of rain, the facility discharged to river.

### Dearborn CSO

Start Day	Start Time	End Day	End Time
7/16/2021	11:10:00 AM	7/17/2021	12:00:00 AM

Rain(in.) = 4.41  
Waterbody: Rouge River

Submission ID. HPA-8H9Q-ZTP54  
Permit MI0025542  
Outfall 108

RTB (MG)  
**11.460**

Cause: RTB Facility screens and treats combined sewer system. Due to high volumes of rain, the facility discharged to river.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.92
7/24/2021	9:30:00 PM	7/25/2021	5:38:00 AM	Waterbody: Rouge River

Submission ID. HPA-F4VC-P1W9S  
Permit MI0025542  
Outfall 117

RTB (MG)  
**51.270**

Cause: RTB facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with the City of Dearborn permit

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.8
7/24/2021	9:50:00 PM	7/25/2021	8:15:00 AM	Waterbody: Rouge River

Submission ID. HPA-F4VC-P1W9S  
Permit MI0025542  
Outfall 108

RTB (MG)  
**7.430**

Cause: RTB facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with the City of Dearborn permit

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.8
7/24/2021	10:15:00 PM	7/25/2021	6:30:00 PM	Waterbody: Rouge River

Submission ID. HPA-F4VC-P1W9S  
Permit MI0025542  
Outfall 106

RTB (MG)  
**4.650**

Cause: RTB facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with the City of Dearborn permit

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.51
8/12/2021	3:20:00 AM	8/12/2021	4:50:00 PM	Waterbody: Rouge River

Submission ID. HPA-XH9C-5E65M  
Permit MI0025542  
Outfall 117

RTB (MG)  
**71.250**

Cause: Rain fall caused combined sewer to overflow into CSO facility per city of Dearborn permit.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.52
8/12/2021	4:00:00 AM	8/12/2021	7:00:00 PM	Waterbody: Rouge River

Submission ID. HPA-XH9C-5E65M  
Permit MI0025542  
Outfall 106

RTB (MG)  
**11.090**

Cause: Rain fall caused combined sewer to overflow into CSO facility per city of Dearborn permit.

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.52
8/12/2021	4:00:00 AM	8/12/2021	5:53:00 PM	Waterbody: Rouge River

Submission ID. HPA-XH9C-5E65M  
Permit MI0025542  
Outfall 108

RTB (MG)  
**42.340**

Cause: Rain fall caused combined sewer to overflow into CSO facility per city of Dearborn permit.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.53
8/27/2021	1:30:00 PM	8/27/2021	7:35:00 PM	Waterbody: Rouge River

Submission ID. HPB-9JDQ-T05MJ  
Permit MI0025544  
Outfall 117

RTB (MG)

**61.121**

Cause: RTB Facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with the City of Dearborn Permit

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.04
8/27/2021	2:35:00 PM	8/27/2021	4:45:00 PM	Waterbody: Rouge River

Submission ID. HPB-9JDQ-T05MJ  
Permit MI0025543  
Outfall 108

RTB (MG)

**1.010**

Cause: RTB Facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with the City of Dearborn Permit





# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/21/2021	10:05:00 PM	9/23/2021	8:55:00 PM

Rain(in.) = 4.47  
Waterbody: Rouge River

Submission ID. HPB-XERN-XY1YE  
Permit MI0025542  
Outfall 117

RTB (MG)  
**119.470**

Cause: Rain fall exceeded storage capacity of RTB facility and facility discharged to Rouge River per city of Dearborn permit.

## Dearborn CSO

Start Day	Start Time	End Day	End Time
9/22/2021	8:00:00 AM	9/23/2021	11:10:00 PM

Rain(in.) = 4.97  
Waterbody: Rouge River

Submission ID. HPB-XERN-XY1YE  
Permit MI0025542  
Outfall 106

RTB (MG)  
**13.810**

Cause: Rain fall exceeded storage capacity of RTB facility and facility discharged to Rouge River per city of Dearborn permit.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.97
9/22/2021	8:15:00 AM	9/23/2021	10:15:00 PM	Waterbody: Rouge River

Submission ID. HPB-XERN-XY1YE  
Permit MI0025542  
Outfall 108

RTB (MG)  
**12.530**

Cause: Rain fall exceeded storage capacity of RTB facility and facility discharged to Rouge River per city of Dearborn permit.

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.96
10/25/2021	3:00:00 AM	10/25/2021	8:45:00 PM	Waterbody: Rouge River

Submission ID. HPC-QTMK-5JSVP  
Permit MI0025542  
Outfall 117

RTB (MG)  
**43.280**

Cause: RTB facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with the City of Dearborn permit

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.21
10/25/2021	2:35:00 PM	10/25/2021	7:00:00 PM	Waterbody: Rouge River

Submission ID. HPC-QXAY-NVBAC  
Permit MI0025542  
Outfall 108

RTB (MG)

**0.910**

Cause: RTB facility screens and treats combined sewer system. Due to high volumes of rain, facility discharged to river.

### Dearborn CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.2
12/11/2021	3:00:00 AM	12/11/2021	10:50:00 AM	Waterbody: Rouge River

Submission ID. HPD-WK5V-  
Permit XAWGW  
MI0025542  
Outfall 117

RTB (MG)

**23.550**

Cause: RTB facility screens and treats rain water in the combined sewer system where it discharges to the river in compliance with City of Dearborn permit.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

**Totals** Dearborn CSO

RTB (MG)  
**809.90**

Long-term Control Program being implemented; the Department reissued a permit that recognizes a modified LTCP. The permittee submitted a revised basis of design report in late 2009 followed by a financial capability assessment. The City requested a modified LTCP (and NPDES permit), to extend the construction schedule due to economic hardship. The modified LTCP will 1) correct existing construction issues with some shafts by using sewer separation and/or reconfigured use of shafts, and 2) revise some of the additional shaft projects to sewer separation projects. The Department approved the City's request and issued a schedule in the modified permit requiring elimination of all untreated overflow outfalls by December 31, 2027; several outfalls and the associated overflows have already been eliminated.

**GLWA WRRF**

**GLWA WRRF**

Submission ID. HP6-REF0-5W8XP

Start Day	Start Time	End Day	End Time
2/23/2021	9:01:00 PM	2/25/2021	4:16:00 AM

Rain(in.) = 0.02  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**32.400**

Cause: Snow melting



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	2:51:00 AM	3/29/2021	7:32:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Submission ID. HP7-G5JP-9EXB9

Outfall 49

RTB (MG)  
**704.400**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	3:15:00 AM	3/26/2021	5:30:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Submission ID. HP7-G5JP-9EXB9

Outfall 106

RTB (MG)  
**2.400**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	3:40:00 AM	3/26/2021	4:05:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Submission ID. HP7-G5JP-9EXB9

Outfall 108

RTB (MG)  
**0.300**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	3:52:00 AM	3/29/2021	12:28:00 AM

Rain(in.) = 2.1  
Waterbody: Detroit River

Submission ID. HP7-G5JP-9EXB9

Outfall 104

RTB (MG)  
**375.900**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	4:16:00 AM	3/26/2021	8:57:00 AM

Rain(in.) = 2.1  
Waterbody: Rouge River

Submission ID. HP7-G5JP-9EXB9

Outfall 50

RTB (MG)  
**25.600**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	4:30:00 AM	3/28/2021	1:30:00 PM

Rain(in.) = 2.1  
Waterbody: Rouge River

Submission ID. HP7-G5JP-9EXB9

Outfall 101

RTB (MG)  
**382.000**

Cause: Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
3/26/2021	11:00:00 AM	3/28/2021	11:45:00 PM

Rain(in.) = 2.1  
Waterbody: Rouge River

Submission ID. HP7-G5JP-9EXB9

Outfall 109

RTB (MG)  
**11.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
4/8/2021	10:27:00 PM	4/9/2021	7:36:00 AM

Rain(in.) = 0.28  
Waterbody: Detroit River

Submission ID. HP7-TXCC-CPP1Z

Outfall 49

RTB (MG)  
**33.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
4/11/2021	1:36:00 AM	4/11/2021	2:00:00 PM

Rain(in.) = 0.66  
Waterbody: Detroit River

Submission ID. HP7-WS0Z-CWF99

Outfall 49

RTB (MG)  
**76.500**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
5/8/2021	1:25:00 AM	5/8/2021	5:20:00 AM

Rain(in.) = 0.01  
Waterbody: Detroit River

Submission ID. HP8-JOAD-DBE89

Outfall 49

RTB (MG)  
**13.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
5/23/2021	11:18:00 PM	5/24/2021	4:45:00 AM

Rain(in.) = 0.3  
Waterbody: Detroit River

Submission ID. HP8-YEPF-SNJT7

Outfall 49

RTB (MG)  
**20.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
5/28/2021	10:36:00 AM	5/28/2021	11:24:00 PM

Rain(in.) = 0.49  
Waterbody: Detroit River

Submission ID. HP9-1XRQ-4X0VE

Outfall 49

RTB (MG)  
**141.700**

Cause: Rain





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/2/2021	8:26:00 PM	6/3/2021	7:24:00 AM

Rain(in.) = 0.53  
Waterbody: Detroit River

Submission ID. HP9-66J3-50FJV

Outfall 49

RTB (MG)  
**106.700**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/8/2021	3:35:00 PM	6/8/2021	4:15:00 PM

Rain(in.) = 0.37  
Waterbody: Detroit River

Submission ID. HP9-ATDD-2233N

Outfall 108

RTB (MG)  
**0.500**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/8/2021	5:29:00 PM	6/8/2021	9:50:00 PM

Rain(in.) = 0.37  
Waterbody: Detroit River

Submission ID. HP9-ATDD-2233N

Outfall 49

RTB (MG)  
**31.900**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HP9-JEZ2-FC628

Start Day	Start Time	End Day	End Time
6/18/2021	10:37:00 AM	6/18/2021	5:06:00 PM

Rain(in.) = 0.51  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**47.800**

Cause: Rain

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/20/2021	10:15:00 PM	6/21/2021	7:00:00 AM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall 106

RTB (MG)  
**1.000**

Cause: Rain

## GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/20/2021	10:38:00 PM	6/21/2021	9:04:00 PM

Rain(in.) = 1.1  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**367.200**

Cause: Rain



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/21/2021	1:50:00 AM	6/21/2021	12:45:00 AM

Rain(in.) = 1.1

Waterbody: Detroit River

Outfall 104

RTB (MG)

**125.400**

Cause: Rain

### GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/21/2021	8:15:00 AM	6/21/2021	8:05:00 PM

Rain(in.) = 1.1

Waterbody: Rouge River

Outfall 109

RTB (MG)

**5.300**

Cause: Rain

### GLWA WRRF

Submission ID. HP9-R8MN-7KGPD

Start Day	Start Time	End Day	End Time
6/21/2021	3:30:00 PM	6/21/2021	10:15:00 AM

Rain(in.) = 1.1

Waterbody: Rouge River

Outfall 101

RTB (MG)

**335.000**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	1:05:00 PM	7/1/2021	2:17:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Submission ID. HPA-1FVF-M1NGY

Outfall 49

RTB (MG)  
**1652.400**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	7:30:00 PM	6/26/2021	4:50:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Submission ID. HPA-1FVF-M1NGY

Outfall 106

RTB (MG)  
**20.400**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	8:10:00 PM	6/27/2021	4:28:00 AM

Rain(in.) = 2.52  
Waterbody: Rouge River

Submission ID. HPA-1FVF-M1NGY

Outfall 107

RTB (MG)  
**640.500**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	10:00:00 PM	6/27/2021	9:00:00 PM

Rain(in.) = 2.52  
Waterbody: Rouge River

Submission ID. HPA-1FVF-M1NGY

Outfall 101

RTB (MG)  
**1083.300**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	10:10:00 PM	7/1/2021	2:17:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Submission ID. HPA-1FVF-M1NGY

Outfall 104

RTB (MG)  
**1524.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	10:10:00 PM	6/26/2021	9:10:00 PM

Rain(in.) = 2.52  
Waterbody: Detroit River

Submission ID. HPA-1FVF-M1NGY

Outfall 108

RTB (MG)  
**7.600**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:00:00 PM	6/28/2021	4:00:00 AM

Rain(in.) = 2.52  
Waterbody: Rouge River

Submission ID. HPA-1FVF-M1NGY

Outfall 109

RTB (MG)  
**44.500**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/25/2021	11:23:00 PM	6/26/2021	1:50:00 AM

Rain(in.) = 2.52  
Waterbody: Rouge River

Submission ID. HPA-1FVF-M1NGY

Outfall 50

RTB (MG)  
**4.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
6/26/2021	12:50:00 AM	6/26/2021	11:10:00 AM

Rain(in.) = 2.52  
Waterbody: Detroit River

Submission ID. HPA-1FVF-M1NGY

Outfall 105

RTB (MG)  
**96.700**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/1/2021	2:17:00 AM	7/1/2021	8:35:00 PM

Rain(in.) = 7  
Waterbody: Conner Creek

Submission ID. HPA-W1CG-SEHXV  
Permit MI0022802  
Outfall 104

RTB (MG)  
**9.400**

Cause: The collection system was full. The discharge was disinfected.

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/8/2021	5:39:00 AM	7/8/2021	9:36:00 AM

Rain(in.) = 0.28  
Waterbody: Detroit River

Submission ID. HPA-2KCV-83HN1  
Outfall 49

RTB (MG)  
**8.100**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/13/2021	5:15:00 PM	7/13/2021	11:19:00 PM

Rain(in.) = 0.32  
Waterbody: Detroit River

Submission ID. HPA-5DA3-41WV2  
Outfall 49

RTB (MG)  
**21.700**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	9:29:00 AM	7/18/2021	9:40:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Submission ID. HPA-E6TJ-5YA3N

Outfall 49

RTB (MG)  
**999.100**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	9:50:00 AM	7/16/2021	11:25:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Submission ID. HPA-E6TJ-5YA3N

Outfall 106

RTB (MG)  
**7.600**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	10:05:00 AM	7/17/2021	8:00:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Submission ID. HPA-E6TJ-5YA3N

Outfall 108

RTB (MG)  
**9.900**

Cause: Rain





# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	10:30:00 AM	7/16/2021	10:05:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Submission ID. HPA-E6TJ-5YA3N

Outfall 107

RTB (MG)  
**267.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	10:30:00 AM	7/17/2021	4:20:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Submission ID. HPA-E6TJ-5YA3N

Outfall 109

RTB (MG)  
**40.100**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	10:33:00 AM	7/16/2021	9:40:00 PM

Rain(in.) = 2.37  
Waterbody: Rouge River

Submission ID. HPA-E6TJ-5YA3N

Outfall 50

RTB (MG)  
**48.300**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	10:50:00 AM	7/18/2021	9:40:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Submission ID. HPA-E6TJ-5YA3N

Outfall 104

RTB (MG)  
**959.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	10:50:00 AM	7/16/2021	11:25:00 PM

Rain(in.) = 2.37  
Waterbody: Detroit River

Submission ID. HPA-E6TJ-5YA3N

Outfall 105

RTB (MG)  
**165.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/16/2021	11:00:00 AM	7/18/2021	2:00:00 AM

Rain(in.) = 2.37  
Waterbody: Rouge River

Submission ID. HPA-E6TJ-5YA3N

Outfall 101

RTB (MG)  
**2455.000**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/20/2021	6:35:00 PM	7/20/2021	10:35:00 PM

Rain(in.) = 1.56  
Waterbody: Detroit River

Submission ID. HPA-BVR5-F8NKX

Outfall 104

RTB (MG)  
**15.600**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	8:35:00 PM	7/25/2021	4:30:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Submission ID. HPA-NT49-1QVQY

Outfall 105

RTB (MG)  
**24.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	8:45:00 PM	7/25/2021	5:45:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Submission ID. HPA-NT49-1QVQY

Outfall 106

RTB (MG)  
**0.600**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	8:56:00 PM	7/26/2021	9:09:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Submission ID. HPA-NT49-1QVQY

Outfall 49

RTB (MG)  
**705.800**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	9:20:00 PM	7/26/2021	9:05:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Submission ID. HPA-NT49-1QVQY

Outfall 104

RTB (MG)  
**298.600**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	9:20:00 PM	7/25/2021	3:20:00 AM

Rain(in.) = 0.04  
Waterbody: Rouge River

Submission ID. HPA-NT49-1QVQY

Outfall 107

RTB (MG)  
**142.600**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	9:30:00 PM	7/25/2021	6:10:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Submission ID. HPA-NT49-1QVQY

Outfall 101

RTB (MG)  
**1188.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	9:38:00 PM	7/25/2021	8:57:00 AM

Rain(in.) = 0.04  
Waterbody: Detroit River

Submission ID. HPA-NT49-1QVQY

Outfall 50

RTB (MG)  
**31.100**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
7/24/2021	11:00:00 PM	7/25/2021	3:30:00 PM

Rain(in.) = 0.04  
Waterbody: Rouge River

Submission ID. HPA-NT49-1QVQY

Outfall 109

RTB (MG)  
**29.100**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-NT49-1QVQY

Start Day	Start Time	End Day	End Time
7/24/2021	11:20:00 PM	7/25/2021	12:50:00 PM

Rain(in.) = 0.04  
Waterbody: Detroit River

Outfall 108

RTB (MG)  
**0.800**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-KAV0-9RXJE

Start Day	Start Time	End Day	End Time
7/30/2021	5:00:00 AM	7/30/2021	10:30:00 PM

Waterbody: Detroit River

Outfall 104

RTB (MG)  
**65.700**

Cause: High levels in the eastside collection system due to flow capacity issues at the Fairview pumping station.

## GLWA WRRF

Submission ID. HPB-0Q08-3X1GW

Start Day	Start Time	End Day	End Time
8/9/2021	3:06:00 PM	8/10/2021	2:17:00 AM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**139.800**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-0Q08-3X1GW

Start Day	Start Time	End Day	End Time
8/9/2021	3:30:00 PM	8/9/2021	4:00:00 PM

Rain(in.) = 0.72  
Waterbody: Detroit River

Outfall 108

RTB (MG)  
**0.200**

Cause: Rain

## GLWA WRRF

Submission ID. HPB-0Q08-3X1GW

Start Day	Start Time	End Day	End Time
8/9/2021	4:30:00 PM	8/9/2021	6:50:00 PM

Rain(in.) = 0.72  
Waterbody: Rouge River

Outfall 101

RTB (MG)  
**98.000**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	1:08:00 AM	8/13/2021	10:41:00 PM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**712.200**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:30:00 AM	8/13/2021	12:00:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall 101

RTB (MG)  
**1611.400**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	2:40:00 AM	8/12/2021	10:10:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall 106

RTB (MG)  
**9.700**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	3:00:00 AM	8/12/2021	8:00:00 PM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall 104

RTB (MG)  
**459.500**

Cause: Rain





# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	3:15:00 AM	8/13/2021	10:15:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall 109

RTB (MG)  
**4.400**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	3:20:00 AM	8/12/2021	10:40:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall 107

RTB (MG)  
**137.200**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	4:50:00 AM	8/12/2021	10:35:00 AM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall 108

RTB (MG)  
**1.500**

Cause: Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	5:00:00 AM	8/12/2021	12:15:00 PM

Rain(in.) = 3.14  
Waterbody: Detroit River

Outfall 105

RTB (MG)  
**20.800**

Cause: Rain

## GLWA WRRF

Submission ID. HPA-X2JE-K1349

Start Day	Start Time	End Day	End Time
8/12/2021	5:33:00 AM	8/12/2021	11:48:00 AM

Rain(in.) = 3.14  
Waterbody: River Rouge

Outfall 50

RTB (MG)  
**3.700**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-E7AK-VPBKZ

Start Day	Start Time	End Day	End Time
8/27/2021	12:50:00 PM	8/28/2021	2:00:00 AM

Rain(in.) = 0.22  
Waterbody: Rouge River

Outfall 101

RTB (MG)  
**355.400**

Cause: Rain; 101A-HBS discharge began prior to 049A discharge due to localized heavy rainfall.101A-HBS discharge volume is estimated and may be revised.

## GLWA WRRF

Submission ID. HPB-E7AK-VPBKZ

Start Day	Start Time	End Day	End Time
8/27/2021	1:28:00 PM	8/28/2021	10:33:00 AM

Rain(in.) = 0.22  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**293.100**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	1:30:00 PM	8/27/2021	3:45:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Submission ID. HPB-E7AK-VPBKZ

Outfall 107

RTB (MG)  
**32.400**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	2:00:00 PM	8/28/2021	12:10:00 AM

Rain(in.) = 0.22  
Waterbody: Detroit River

Submission ID. HPB-E7AK-VPBKZ

Outfall 104

RTB (MG)  
**95.400**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
8/27/2021	2:05:00 PM	8/27/2021	7:05:00 PM

Rain(in.) = 0.22  
Waterbody: Rouge River

Submission ID. HPB-E7AK-VPBKZ

Outfall 50

RTB (MG)  
**20.800**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:45:00 PM	8/30/2021	2:10:00 AM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall 106

RTB (MG)  
**2.900**

Cause: Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	7:50:00 PM	8/30/2021	8:00:00 AM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall 104

RTB (MG)  
**98.200**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	8:13:00 PM	8/30/2021	10:28:00 AM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**157.700**

Cause: Rain

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	8:35:00 PM	8/29/2021	9:10:00 PM

Rain(in.) = 0.75  
Waterbody: Detroit River

Outfall 108

RTB (MG)  
**0.100**

Cause: Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-BB9G-QTWWH

Start Day	Start Time	End Day	End Time
8/29/2021	11:15:00 PM	8/30/2021	5:45:00 AM

Rain(in.) = 0.75  
Waterbody: Rouge River

Outfall 101

RTB (MG)  
**35.100**

Cause: Rain

## GLWA WRRF

Submission ID. HPB-JE6T-KYDVH

Start Day	Start Time	End Day	End Time
9/8/2021	1:00:00 AM	9/8/2021	8:37:00 AM

Rain(in.) = 0.34  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**32.400**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPB-QWT0-GPQG3

Start Day	Start Time	End Day	End Time
9/14/2021	8:35:00 PM	9/15/2021	4:23:00 AM

Rain(in.) = 0.29  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**77.000**

Cause: Rain

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:51:00 PM	9/26/2021	6:01:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**1834.600**

Cause: RAIN

## GLWA WRRF

Submission ID. HPC-3E48-03ZZT

Start Day	Start Time	End Day	End Time
9/21/2021	9:55:00 PM	9/23/2021	4:30:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Outfall 107

RTB (MG)  
**311.200**

Cause: RAIN





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	10:00:00 PM	9/23/2021	9:50:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Submission ID. HPC-3E48-03ZZT

Outfall 105

RTB (MG)  
**91.100**

Cause: RAIN

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	10:00:00 PM	9/24/2021	7:45:00 AM

Rain(in.) = 4.64  
Waterbody: Rouge River

Submission ID. HPC-3E48-03ZZT

Outfall 109

RTB (MG)  
**110.400**

Cause: RAIN

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	10:05:00 PM	9/23/2021	12:00:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Submission ID. HPC-3E48-03ZZT

Outfall 108

RTB (MG)  
**3.600**

Cause: RAIN

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	10:30:00 PM	9/24/2021	7:45:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Submission ID. HPC-3E48-03ZZT

Outfall 104

RTB (MG)  
**1415.000**

Cause: RAIN

## GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	11:00:00 PM	9/24/2021	2:30:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Submission ID. HPC-3E48-03ZZT

Outfall 101

RTB (MG)  
**816.000**

Cause: RAIN

## GLWA WRRF

Start Day	Start Time	End Day	End Time
9/21/2021	11:30:00 PM	9/23/2021	7:40:00 AM

Rain(in.) = 4.64  
Waterbody: Detroit River

Submission ID. HPC-3E48-03ZZT

Outfall 106

RTB (MG)  
**15.800**

Cause: RAIN



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
9/22/2021	12:34:00 AM	9/23/2021	2:52:00 PM

Rain(in.) = 4.64  
Waterbody: Rouge River

Submission ID. HPC-3E48-03ZZT

Outfall 50

RTB (MG)  
**99.900**

Cause: RAIN

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/16/2021	6:38:00 AM	10/16/2021	2:44:00 PM

Rain(in.) = 0.88  
Waterbody: Detroit River

Submission ID. HPC-FD5G-RQT0V

Outfall 49

RTB (MG)  
**55.800**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/21/2021	9:50:00 AM	10/21/2021	3:03:00 PM

Rain(in.) = 0.32  
Waterbody: Detroit River

Submission ID. HPC-MG96-D7C25

Outfall 49

RTB (MG)  
**12.800**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/24/2021	11:06:00 PM	10/27/2021	11:08:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Submission ID. HPC-QCJP-CPX85

Outfall 49

RTB (MG)  
**1208.700**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	1:40:00 AM	10/25/2021	7:05:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Submission ID. HPC-QCJP-CPX85

Outfall 50

RTB (MG)  
**69.400**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	2:00:00 AM	10/26/2021	11:00:00 AM

Rain(in.) = 2.13  
Waterbody: Rouge River

Submission ID. HPC-QCJP-CPX85

Outfall 101

RTB (MG)  
**595.400**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	3:30:00 AM	10/26/2021	9:05:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Submission ID. HPC-QCJP-CPX85

Outfall 109

RTB (MG)  
**34.600**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	3:45:00 AM	10/26/2021	4:30:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Submission ID. HPC-QCJP-CPX85

Outfall 104

RTB (MG)  
**502.500**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	10:00:00 AM	10/25/2021	3:40:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Submission ID. HPC-QCJP-CPX85

Outfall 106

RTB (MG)  
**2.100**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	10:10:00 AM	10/25/2021	1:30:00 PM

Rain(in.) = 2.13  
Waterbody: Detroit River

Submission ID. HPC-QCJP-CPX85

Outfall 108

RTB (MG)  
**0.700**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	11:55:00 AM	10/26/2021	7:55:00 AM

Rain(in.) = 2.13  
Waterbody: Detroit River

Submission ID. HPC-QCJP-CPX85

Outfall 105

RTB (MG)  
**24.100**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/25/2021	1:00:00 PM	10/25/2021	5:30:00 PM

Rain(in.) = 2.13  
Waterbody: Rouge River

Submission ID. HPC-QCJP-CPX85

Outfall 107

RTB (MG)  
**74.500**

Cause: Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/29/2021	7:23:00 AM	11/1/2021	8:55:00 PM

Rain(in.) = 1.11  
Waterbody: Detroit River

Submission ID. HPC-TWVR-W1EH8

Outfall 49

RTB (MG)  
**1083.500**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/29/2021	3:10:00 PM	10/31/2021	7:40:00 AM

Rain(in.) = 1.11  
Waterbody: Detroit River

Submission ID. HPC-TWVR-W1EH8

Outfall 104

RTB (MG)  
**217.200**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
10/29/2021	3:55:00 PM	10/30/2021	5:28:00 PM

Rain(in.) = 1.11  
Waterbody: Rouge River

Submission ID. HPC-TWVR-W1EH8

Outfall 50

RTB (MG)  
**39.500**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/29/2021	9:30:00 PM	10/30/2021	10:15:00 AM

Rain(in.) = 1.11  
Waterbody: Rouge River

Outfall 101

RTB (MG)  
**197.400**

Cause: Rain

## GLWA WRRF

Submission ID. HPC-TWVR-W1EH8

Start Day	Start Time	End Day	End Time
10/30/2021	5:00:00 AM	10/31/2021	9:30:00 AM

Rain(in.) = 1.11  
Waterbody: Rouge River

Outfall 109

RTB (MG)  
**19.000**

Cause: Rain

## GLWA WRRF

Submission ID. HPD-5EX0-7EPT8

Start Day	Start Time	End Day	End Time
11/11/2021	10:23:00 PM	11/12/2021	9:05:00 AM

Rain(in.) = 0.33  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**62.800**

Cause: Rain





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# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Start Day	Start Time	End Day	End Time
11/25/2021	11:51:00 AM	11/26/2021	12:36:00 AM

Rain(in.) = 0.49  
Waterbody: Detroit River

Submission ID. HPD-G736-GCRPF

Outfall 49

RTB (MG)  
**48.900**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
12/5/2021	7:56:00 PM	12/6/2021	8:47:00 PM

Rain(in.) = 0.66  
Waterbody: Detroit River

Submission ID. HPD-R93A-W8S8W

Outfall 49

RTB (MG)  
**264.100**

Cause: Rain

### GLWA WRRF

Start Day	Start Time	End Day	End Time
12/6/2021	12:00:00 AM	12/6/2021	3:00:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Submission ID. HPD-R93A-W8S8W

Outfall 101

RTB (MG)  
**5.800**

Cause: Rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Submission ID. HPD-R93A-W8S8W

Start Day	Start Time	End Day	End Time
12/6/2021	6:00:00 AM	12/6/2021	7:55:00 AM

Rain(in.) = 0.66  
Waterbody: Rouge River

Outfall 109

RTB (MG)  
**8.600**

Cause: Rain

## GLWA WRRF

Submission ID. HPE-0TZO-HEV7B

Start Day	Start Time	End Day	End Time
12/11/2021	12:15:00 AM	12/13/2021	9:04:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Outfall 49

RTB (MG)  
**632.400**

Cause: Rain

## GLWA WRRF

Submission ID. HPE-0TZO-HEV7B

Start Day	Start Time	End Day	End Time
12/11/2021	3:23:00 AM	12/11/2021	3:32:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Outfall 50

RTB (MG)  
**0.500**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/11/2021	3:30:00 AM	12/11/2021	5:45:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Submission ID. HPE-OTZO-HEV7B

Outfall 106

RTB (MG)  
**0.300**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/11/2021	3:50:00 AM	12/11/2021	5:00:00 AM

Rain(in.) = 1.38  
Waterbody: Detroit River

Submission ID. HPE-OTZO-HEV7B

Outfall 108

RTB (MG)  
**0.700**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/11/2021	4:00:00 AM	12/11/2021	11:00:00 PM

Rain(in.) = 1.38  
Waterbody: Rouge River

Submission ID. HPE-OTZO-HEV7B

Outfall 101

RTB (MG)  
**150.400**

Cause: Rain



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/11/2021	4:00:00 AM	12/11/2021	9:00:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Submission ID. HPE-OTZO-HEV7B

Outfall 107

RTB (MG)  
**65.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/11/2021	4:45:00 AM	12/12/2021	1:15:00 PM

Rain(in.) = 1.38  
Waterbody: Detroit River

Submission ID. HPE-OTZO-HEV7B

Outfall 104

RTB (MG)  
**214.300**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/11/2021	5:00:00 AM	12/11/2021	12:00:00 AM

Rain(in.) = 1.38  
Waterbody: Rouge River

Submission ID. HPE-OTZO-HEV7B

Outfall 109

RTB (MG)  
**36.200**

Cause: Rain



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/18/2021	2:12:00 PM	12/18/2021	9:43:00 PM

Rain(in.) = 0.32  
Waterbody: Detroit River

Submission ID. HPE-25XM-AMN3P

Outfall 49

RTB (MG)  
**19.000**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/25/2021	8:04:00 AM	12/25/2021	10:10:00 PM

Rain(in.) = 0.38  
Waterbody: Detroit River

Submission ID. HPE-7AW2-YFVG4

Outfall 49

RTB (MG)  
**103.400**

Cause: Rain

## GLWA WRRF

Start Day	Start Time	End Day	End Time
12/27/2021	3:51:00 PM	12/28/2021	4:02:00 AM

Rain(in.) = 0.35  
Waterbody: Detroit River

Submission ID. HPE-9SY5-HB8DP

Outfall 49

RTB (MG)  
**62.700**

Cause: Rain and snow melt

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### GLWA WRRF

Submission ID. HPE-B87B-93YW9

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.22
12/29/2021	8:37:00 PM	12/30/2021	4:00:00 AM	Waterbody: Detroit River

Outfall 49

RTB (MG)

**22.300**

Cause: Snowmelt

### Totals GLWA WRRF

RTB (MG)

**30340.40**

Long-term Control Program being implemented; controls include retention/treatment basins (6 on-line), CSO Screening/Disinfection Facilities (3 on-line), and 13 in-system storage dams in the collection system sewers (on-line) for temporary storing and subsequent transport of combined flow to the wastewater treatment plant; expansion of primary treatment capacity at the WWTP to 1700 MGD (on-line). To date, 14 CSOs have been eliminated, and construction of the Oakwood RTB has been completed. In addition to these 14 outfalls, 5 untreated Rouge River CSOs downstream of the turning basin are now controlled. An amended LTCP was submitted in late 2008 that proposed control projects and associated schedules for 3 untreated CSOs to the Old Channel of the Rouge River, and the 39 remaining untreated CSOs to the Detroit River. However in 2009, due to its deteriorating financial condition, Detroit terminated construction of the Upper Rouge CSO Capture Tunnel (URT). A financial capability assessment (FCA) was submitted and approved by the Department. The alternative LTCP was included in the 2011 permit modification. Another FCA was submitted by Detroit in 2012 as required by the Permit. The FCA again documented that costs associated with continued implementation of the CSO correction program were a high burden to the City of Detroit residents. Reflecting the 2012 FCA and updated costs for effectively operating the WWTP and other facilities, and taking into account opportunities to use Green Infrastructure and apply adaptive management, the permit again revised the LTCP.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Milk River CSO RTB

#### Milk River CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.87
3/26/2021	4:10:00 AM	3/26/2021	6:29:00 AM	Waterbody: Lake Saint Clair

Submission ID. HP7-G776-P2JV8  
 Permit MI0025500  
 Outfall 001

RTB (MG)  
**44.300**

Cause: Heavy rain overwhelmed the collection system and RTB capacity forcing a discharge.

#### Milk River CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.7
3/28/2021	3:40:00 AM	3/28/2021	8:30:00 AM	Waterbody: Lake Saint Clair

Submission ID. HP7-HRX6-TZ3YZ  
 Permit MI0025500  
 Outfall 001

RTB (MG)  
**8.200**

Cause: Rainfall overwhelmed the collection system and RTB capacity forcing a treated discharge. RTB and collection system were already full due to another rain event aprox. 36 hours earlier.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
6/26/2021	12:40:00 AM	6/27/2021	4:11:00 AM

Rain(in.) = 4.71  
Waterbody: Lake St. Clair

Submission ID. HP9-REJF-ODD72  
Permit MI0025500  
Outfall 001

RTB (MG)  
**239.200**

Cause: extremely heavy rain emergency

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
6/29/2021	4:28:00 PM	6/29/2021	5:27:00 PM

Rain(in.) = 1.25  
Waterbody: Lake Saint Clair

Submission ID. HP9-VA6W-4P1RX  
Permit MI0025500  
Outfall 001

RTB (MG)  
**7.300**

Cause: A quick intense rainfall overwhelmed the collection system and RTB capacity, causing a treated, permitted discharge.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
7/8/2021	5:45:00 PM	7/8/2021	7:55:00 PM

Rain(in.) = 1.98  
Waterbody: Lake Saint Clair

Submission ID. HPA-2EHT-J4ZF3  
Permit MI0025500  
Outfall 001

RTB (MG)  
**29.000**

Cause: A quick intense thunderstorm with heavy rainfall overwhelmed the collection system and RTB capacity, causing a permitted treated discharge.

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
7/16/2021	11:52:00 AM	7/17/2021	9:37:00 AM

Rain(in.) = 3.07  
Waterbody: Lake Saint Clair

Submission ID. HPA-8J2T-15WKW  
Permit MI0025500  
Outfall 001

RTB (MG)  
**142.250**

Cause: Heavy rain overwhelmed the collection system and RTB capacity resulting in a permitted, treated discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
7/24/2021	10:06:00 PM	7/24/2021	11:06:00 PM

Rain(in.) = 0.99  
Waterbody: Lake Saint Clair

Submission ID. HPA-F3Q3-EVDR1  
Permit MI0025500  
Outfall 001

RTB (MG)  
**7.960**

Cause: Rainfall overwhelmed the collection system and RTB capacity causing a permitted, treated discharge.

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
8/12/2021	6:10:00 AM	8/12/2021	11:00:00 AM

Rain(in.) = 1.73  
Waterbody: Lake Saint Clair

Submission ID. HPA-XHBR-HODPF  
Permit MI0025500  
Outfall 001

RTB (MG)  
**50.200**

Cause: Heavy, intense rainfall overwhelmed the collection system and RTB capacity forcing a permitted, treated discharge.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
9/21/2021	10:38:00 PM	9/23/2021	9:39:00 AM

Rain(in.) = 5.03  
Waterbody: Lake Saint Clair

Submission ID. HPB-XGGJ-AYNH1  
Permit MI0025500  
Outfall 001

RTB (MG)  
**182.250**

Cause: Excessive rainfall overwhelmed the collection system and RTB capacity causing a permitted, treated discharge.

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
10/25/2021	7:25:00 AM	10/25/2021	6:53:00 PM

Rain(in.) = 1.95  
Waterbody: Lake St. Clair

Submission ID. HPC-QPFQ-EE8B4  
Permit MI0025500  
Outfall 001

RTB (MG)  
**44.530**

Cause: Rainfall overwhelmed collection system and RTB capacity causing a permitted, treated discharge

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
10/29/2021	9:00:00 PM	10/30/2021	12:34:00 PM

Rain(in.) = 1.06  
Waterbody: Lake Saint Clair

Submission ID. HPC-VAYE-NDQ3J  
Permit MI0025500  
Outfall 001

RTB (MG)

**20.300**

Cause: Rainfall, in conjunction with saturated ground conditions, overwhelmed the collection system and RTB capacity causing a permitted, treated discharge.

### Milk River CSO RTB

Start Day	Start Time	End Day	End Time
12/11/2021	3:55:00 AM	12/11/2021	6:55:00 AM

Rain(in.) = 1.16  
Waterbody: Lake Saint Clair

Submission ID. HPD-WJZ7-N0GQ5  
Permit MI0025500  
Outfall 001

RTB (MG)

**23.590**

Cause: Intense rainfall overwhelmed the collection system and RTB capacity forcing a permitted, treated discharge.

### Totals Milk River CSO RTB

RTB (MG)

**799.08**

Long-term Control Program being implemented

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### River Rouge CSO RTB

#### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.43
3/26/2021	5:00:00 AM	3/26/2021	6:30:00 AM	Waterbody: Detroit River

Submission ID. HP7-GA6C-B484B  
 Permit MI0028819  
 Outfall 101

RTB (MG)  
**1.436**

Cause: rain

#### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.82
6/26/2021	12:00:00 AM	6/26/2021	2:20:00 PM	Waterbody: Detroit River

Submission ID. HP9-RBVD-9FQ4E  
 Permit MI0028819  
 Outfall 101

RTB (MG)  
**7.430**

Cause: rain

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.79
7/16/2021	10:45:00 AM	7/17/2021	7:28:00 PM	Waterbody: Detroit River

Submission ID. HPA-8EG7-TRSX5  
Permit MI0028819  
Outfall 101

RTB (MG)  
**21.660**

Cause: rain

### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.77
7/24/2021	9:45:00 PM	7/25/2021	7:27:00 PM	Waterbody: Detroit River

Submission ID. HPA-F2Q2-P8CN0  
Permit MI0028819  
Outfall 101

RTB (MG)  
**38.300**

Cause: rain

### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.47
9/21/2021	10:30:00 PM	9/23/2021	4:30:00 PM	Waterbody: Detroit River

Submission ID. HPB-XE6Y-5K1MB  
Permit MI0028819  
Outfall 101

RTB (MG)  
**27.900**

Cause: rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time
10/25/2021	4:05:00 AM	10/25/2021	10:30:00 PM

Rain(in.) = 2.11  
Waterbody: Detroit River

Submission ID. HPC-QMQ8-N6T8S  
Permit MI0028819  
Outfall 101

RTB (MG)

**7.100**

Cause: rain

### River Rouge CSO RTB

Start Day	Start Time	End Day	End Time
12/11/2021	4:00:00 AM	12/13/2021	11:20:00 AM

Rain(in.) = 1.02  
Waterbody: Detroit River

Submission ID. HPD-WJMZ-XV7G6  
Permit MI0028819  
Outfall 101

RTB (MG)

**2.740**

Cause: rain

### Totals River Rouge CSO RTB

RTB (MG)

**106.57**

Long-term Control Program completed; the program included a retention/treatment basin to provide adequate treatment of all combined sewer overflows (the facility went "on-line" and began treating overflows in 1999); remaining corrective projects have been completed and the project has been certified. The permit required "Total Residual Chlorine Mixing Zone/Plume Definition Study" has been submitted and is currently under review by the Department. The report evaluates whether or not the Total Residual Chlorine (TRC) discharges from the RTB cause violations of Water Quality Standards.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

#### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.25
3/26/2021	3:40:00 AM	3/26/2021	11:00:00 AM	Waterbody: Detroit River

Submission ID. HP7-G6QK-KNBC4  
Permit MI0036072  
Outfall 001

RTB (MG)  
**29.685**

Cause: rain

#### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.43
3/28/2021	3:20:00 AM	3/28/2021	4:00:00 PM	Waterbody: Detroit River

Submission ID. HP7-HVD7-N9DEM  
Permit MI0036072  
Outfall 001

RTB (MG)  
**19.170**

Cause: rain



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.42
6/21/2021	12:45:00 AM	6/21/2021	8:00:00 AM	Waterbody: Detroit River

Submission ID. HP9-ME16-2PHYJ  
Permit MI0036072  
Outfall 001

RTB (MG)  
**17.040**

Cause: Rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.82
6/25/2021	11:45:00 PM	6/29/2021	6:30:00 PM	Waterbody: Detroit River

Submission ID. HP9-RBRZ-RBWA6  
Permit MI0036072  
Outfall 001

RTB (MG)  
**57.380**

Cause: rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Waterbody: Detroit River
7/8/2021	4:45:00 PM	7/8/2021	6:55:00 PM	

Submission ID. HPA-2EYG-6CCHQ  
Permit MI0036072  
Outfall 001

RTB (MG)  
**5.700**

Cause: rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.79
7/16/2021	10:15:00 AM	7/17/2021	10:55:00 AM	Waterbody: Detroit River

Submission ID. HPA-8EJW-4JT1X  
Permit MI0036072  
Outfall 001

RTB (MG)  
**85.760**

Cause: rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.77
7/24/2021	9:40:00 PM	7/25/2021	4:30:00 AM	Waterbody: Detroit River

Submission ID. HPA-F2W3-812A8  
Permit MI0036072  
Outfall 001

RTB (MG)  
**52.100**

Cause: rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.27
8/12/2021	3:15:00 AM	8/12/2021	2:10:00 PM	Waterbody: Detroit River

Submission ID. HPA-XERY-3H4KM  
Permit MI0036072  
Outfall 001

RTB (MG)  
**104.200**

Cause: rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report January 1 - December 31, 2021

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
8/24/2021	9:30:00 PM	8/25/2021	8:05:00 AM

Rain(in.) = 1.01  
Waterbody: Detroit River

Submission ID. HPB-7EDB-DN84V  
Permit MI0036072  
Outfall 001

RTB (MG)  
**27.430**

Cause: rain

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
8/29/2021	10:45:00 AM	8/30/2021	12:00:00 AM

Rain(in.) = 0.67  
Waterbody: Detroit River

Submission ID. HPB-BBXS-5RX0B  
Permit MI0036073  
Outfall 001

RTB (MG)  
**2.430**

Cause: Rain

## Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
9/22/2021	12:00:00 AM	9/23/2021	8:30:00 PM

Rain(in.) = 2.11  
Waterbody: Detroit River

Submission ID. HPB-XEH6-WDQS1  
Permit MI0036072  
Outfall 001

RTB (MG)  
**207.630**

Cause: rain

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 0.89
10/4/2021	12:30:00 AM	10/4/2021	3:15:00 AM	Waterbody: Detroit River

Submission ID. HPC-8RHQ-9Z6NA  
Permit MI0036072  
Outfall 001

RTB (MG)  
**6.750**

Cause: Rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.27
10/15/2021	5:45:00 PM	10/16/2021	8:05:00 AM	Waterbody: Detroit River

Submission ID. HPC-G6NN-RV3A7  
Permit MI0036072  
Outfall 001

RTB (MG)  
**5.400**

Cause: rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.33
10/25/2021	1:00:00 AM	10/25/2021	11:10:00 PM	Waterbody: Detroit River

Submission ID. HPC-QMMC-ED8EA  
Permit MI0036072  
Outfall 001

RTB (MG)  
**120.700**

Cause: rain

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
10/29/2021	11:45:00 AM	10/30/2021	8:00:00 PM

Rain(in.) = 1.2  
Waterbody: Detroit River

Submission ID. HPC-WEKG-VHC71  
Permit MI0036072  
Outfall 001

RTB (MG)  
**49.200**

Cause: rain

### Southgate-Wyandotte CSO RTF

Start Day	Start Time	End Day	End Time
12/5/2021	9:05:00 PM	12/6/2021	6:35:00 AM

Rain(in.) = 1.11  
Waterbody: Detroit River - Trenton Channel

Submission ID. HPD-RVYS-W68VD  
Permit MI0036072  
Outfall 001

RTB (MG)  
**19.560**

Cause: Discharged due to wet weather event. 1.11" rain was rec'd locally. RTB was full and flow maximized to DWTF. Discharge was treated and tested per NPDES permit requirements.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Southgate-Wyandotte CSO RTF

Submission ID. HPD-WJW2-YY15Z  
Permit MI0036072  
Outfall 001

Start Day	Start Time	End Day	End Time
12/11/2021	3:08:00 AM	12/11/2021	10:00:00 PM

Rain(in.) = 1.61

Waterbody: Detroit River - Trenton Channel

RTB (MG)

**47.640**

Cause: Rain Event that began approx. 8:30 PM on 12/10/21 (1.61") exceeded the capacity of the SWRDDD RTB storage.

### Totals Southgate-Wyandotte CSO RTF

RTB (MG)

**857.78**

Long-term Control Program being implemented (existing retention/treatment facility); reissued permit requires a Water Quality Study for a determination of whether the facility provides adequate treatment of all overflows; Long-term Control Program for facility upgrade and provisions for adequate treatment may be required in the future. The NPDES permit also requires the permittee to submit a Hydraulic Capacity Study for the Pine St PS. The study will be used to determine if any improvements can be made to eliminate CSO discharges from the Pine St PS.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

#### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 5.15
6/26/2021	1:00:00 AM	6/26/2021	2:00:00 PM	Waterbody: Middle Rouge River

Submission ID. HP9-QY0D-6PS0N  
Permit MI0051489  
Outfall 001

RTB (MG)  
**55.630**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

#### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.29
7/16/2021	11:25:00 AM	7/17/2021	1:48:00 PM	Waterbody: Lower Rouge River

Submission ID. HPA-8ENA-KAMAP  
Permit MI0051489  
Outfall 001

RTB (MG)  
**9.540**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.71
7/24/2021	9:35:00 PM	7/25/2021	3:00:00 AM	Waterbody: Rouge River

Submission ID. HPA-F2J5-8ADG5  
Permit MI0051489  
Outfall 001

RTB (MG)  
**4.800**

Cause: rain

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.4
8/12/2021	4:55:00 AM	8/12/2021	7:30:00 PM	Waterbody: Lower Rouge River

Submission ID. HPA-XF5C-9HGR2  
Permit MI0051489  
Outfall 001

RTB (MG)  
**4.100**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Wayne Co/Dearborn Heights CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.41
9/22/2021	3:05:00 PM	9/23/2021	1:00:00 PM	Waterbody: Middle Rouge River

Submission ID. HPB-XFTA-1YPJP  
Permit MI0051489  
Outfall 001

RTB (MG)  
**10.300**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

**Totals** **Wayne Co/Dearborn Heights CSO**

RTB (MG)  
**84.37**

Long-term Control Program revised in reissued permit; construction of retention/treatment basin is complete & facility is "on-line" and the Department agrees that the RTB protects public health, eliminates raw sewage, protects the physical characteristics standard, and does not impact biological communities. An evaluation of the RTB discharges on the dissolved oxygen standard has been submitted and is under Department review. Outfalls M18 & M19 have been eliminated and certified by December, 2005 (flow has been directed to the existing RTB). It's the Departments intent to negotiate a revised schedule for implementation of the remaining LTCP in the reissued permit in 2022

**Wayne Co/Inkster CSO**

**Wayne Co/Inkster CSO**

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.2	Waterbody: Lower Rouge River
3/28/2021	3:05:00 AM	3/28/2021	6:45:00 PM		

Submission ID. HP7-HRSQ-SJYVM  
Permit MI0051471  
Outfall 002

RTB (MG)  
**1.200**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 5.92
6/25/2021	11:22:00 AM	6/27/2021	9:00:00 AM	Waterbody: Lower Rouge River

Submission ID. HP9-QY7M-R8F39  
 Permit MI0051471  
 Outfall 001

RTB (MG)  
**48.830**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 5.38
6/25/2021	7:40:00 PM	6/28/2021	3:20:00 AM	Waterbody: Lower Rouge River

Submission ID. HP9-V81B-YR4PK  
 Permit MI0051471  
 Outfall 002

RTB (MG)  
**7.100**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling screening and disinfection.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
6/29/2021	3:30:00 PM	6/30/2021	2:30:00 PM

Rain(in.) = 0.53  
Waterbody: Lower Rouge River

Submission ID. HP9-VZBW-7P63Y  
Permit MI0051471  
Outfall 002

RTB (MG)  
**1.660**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
7/16/2021	10:30:00 AM	7/18/2021	1:00:00 PM

Rain(in.) = 3.08  
Waterbody: Lower Rouge River

Submission ID. HPA-8G55-69TXC  
Permit MI0051471  
Outfall 002

RTB (MG)  
**4.100**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.29
7/16/2021	10:40:00 AM	7/17/2021	5:45:00 AM	Waterbody: Lower Rouge River

Submission ID. HPA-8EV9-QV4MN  
Permit MI0051471  
Outfall 001

RTB (MG)  
**21.450**

Cause: rain

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.71
7/24/2021	9:50:00 PM	7/25/2021	3:00:00 AM	Waterbody: Lower Rouge River

Submission ID. HPA-F2B4-NX44J  
Permit MI0051471  
Outfall 001

RTB (MG)  
**6.330**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
7/24/2021	10:00:00 PM	7/25/2021	1:00:00 PM

Rain(in.) = 1.58  
Waterbody: Lower Rouge River

Submission ID. HPA-F2RE-MHVQ6  
Permit MI0051471  
Outfall 002

RTB (MG)  
**2.200**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
8/12/2021	3:20:00 AM	8/15/2021	2:00:00 AM

Rain(in.) = 3.21  
Waterbody: Lower Rouge River

Submission ID. HPB-ORVM-QVJET  
Permit MI0051471  
Outfall 002

RTB (MG)  
**4.200**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.4
8/12/2021	3:35:00 AM	8/12/2021	11:35:00 AM	Waterbody: Lower Rouge River

Submission ID. HPA-XE8R-ZWE83  
Permit MI0051471  
Outfall 001

RTB (MG)  
**13.270**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.33
9/22/2021	12:45:00 AM	9/24/2021	1:15:00 PM	Waterbody: Lower Rouge River

Submission ID. HPB-XH3Z-S8V4R  
Permit MI0051471  
Outfall 002

RTB (MG)  
**5.300**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.53
9/22/2021	5:35:00 AM	9/23/2021	4:00:00 PM	Waterbody: Lower Rouge River

Submission ID. HPB-XDQV-22PEJ  
Permit MI0051471  
Outfall 001

RTB (MG)  
**8.760**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.1
10/24/2021	11:40:00 PM	10/25/2021	8:05:00 PM	Waterbody: Lower Rouge River

Submission ID. HPC-QZND-X56XS  
Permit MI0051471  
Outfall 001

RTB (MG)  
**4.200**

Cause: Rain

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
10/25/2021	5:40:00 AM	10/26/2021	9:30:00 AM

Rain(in.) = 2.05  
Waterbody: Lower Rouge River

Submission ID. HPC-QMAF-2XFX3  
Permit MI0051471  
Outfall 002

RTB (MG)

**3.050**

Cause: Significant precipitation, resulting in combined sewer overflow in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
10/29/2021	9:45:00 PM	10/30/2021	1:30:00 AM

Rain(in.) = 0.89  
Waterbody: Lower Rouge River

Submission ID. HPC-V9HB-6MZKR  
Permit MI0051471  
Outfall 002

RTB (MG)

**0.150**

Cause: Significant precipitation, resulting in Combined Sewer overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling, screening and disinfection



# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
12/11/2021	3:30:00 AM	12/11/2021	7:00:00 PM

Rain(in.) = 1.09

Waterbody: Lower Rouge River

RTB (MG)

**0.002**

Cause: Significant precipitation, resulting in Combined Sewer Overflow, in exceedance of the storage capacity of the CSO RTB. The discharge received settling and disinfection

Submission ID. HPD-WJWX-  
Permit 4AMX7  
MI0051471  
Outfall 002

### Wayne Co/Inkster CSO

Start Day	Start Time	End Day	End Time
12/11/2021	4:36:00 AM	12/11/2021	4:42:00 AM

Rain(in.) = 1.04

Waterbody: Lower Rouge River

RTB (MG)

**0.714**

Cause: rain

Submission ID. HPD-WPOR-PMRGX  
Permit MI0051471  
Outfall 001

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

**Totals** **Wayne Co/Inkster CSO**

RTB (MG)  
**132.52**

Long-term Control Program revised in permit; construction of retention/treatment basin is complete & facility is "on-line" and the Department agrees that the RTB protects public health, eliminates raw sewage, protects the physical characteristics standard, and does not impact biological communities. An evaluation of the RTB discharges on the dissolved oxygen standard has been submitted and is under Department review. 5 CSOs have been eliminated/bulkheaded following sewer separation. The City recently constructed an RTB to address two west side CSOs. A revised financial demonstration has been submitted and it's the Departments intent to negotiate a revised schedule for implementation of the remaining LTCP in the reissued permit in 2022

**Wayne Co/RDFrd/Livonia CSO**

**Wayne Co/RDFrd/Livonia CSO**

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.59
6/25/2021	7:45:00 PM	6/26/2021	2:32:00 PM	Waterbody: Middle River Rouge

Submission ID. HP9-R6VY-53745  
Permit MI0051535  
Outfall 001

RTB (MG)  
**2.780**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.7
7/16/2021	1:00:00 PM	7/17/2021	7:28:00 PM	Waterbody: Upper Rouge River

Submission ID. HPA-8H5E-36JCC  
Permit MI0051535  
Outfall 001

RTB (MG)  
**4.500**

Cause: rain

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.81
7/24/2021	10:15:00 PM	7/25/2021	1:30:00 AM	Waterbody: Upper Rouge River

Submission ID. HPA-F230-8CS05  
Permit MI0051535  
Outfall 001

RTB (MG)  
**3.370**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.36
8/12/2021	6:00:00 AM	8/12/2021	3:40:00 PM	Waterbody: Upper Rouge River

Submission ID. HPA-XFBT-82RHB  
Permit MI0051535  
Outfall 001

RTB (MG)  
**1.840**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are classified as SSOs.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.17
8/27/2021	3:00:00 PM	8/27/2021	3:30:00 PM	Waterbody: Upper Rouge River

Submission ID. HPB-9M8J-FG6YY  
 Permit MI0051535  
 Outfall 001

RTB (MG)  
**0.798**

Cause: rain

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.41
9/22/2021	11:00:00 AM	9/22/2021	5:00:00 PM	Waterbody: Upper Rouge River

Submission ID. HPB-XPPX-Z7A0T  
 Permit MI0051535  
 Outfall 001

RTB (MG)  
**6.940**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

### Wayne Co/RDFrd/Livonia CSO

Start Day	Start Time	End Day	End Time
10/25/2021	4:05:00 AM	10/25/2021	5:30:00 PM

Rain(in.) = 1.94  
Waterbody: Rouge River

Submission ID. HPC-WDWM-  
Permit HTXYK  
Outfall MI0051535  
001

RTB (MG)  
**1.840**

Cause: Rain

### Totals Wayne Co/RDFrd/Livonia CSO

RTB (MG)  
**22.07**

Long-term Control Program being implemented; construction of retention/treatment basin (for elimination of raw sewage & protection of public health) complete & facility is "on-line". The Department agrees that the RTB eliminates raw sewage, protects public health, and protects the physical characteristics standard. A report has been submitted to verify that the RTB protects the dissolved oxygen standard, and is currently under review by the Department. The reissued permit will require independent control of the remaining untreated outfall or alternatively work with GLWA on a regional plan by 2025.

### County Totals Wayne

RTB (MG)  
**33152.68**

# 'Retention Treatment Basin' Detail Report

## January 1 - December 31, 2021

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### Report Totals

RTB (MG)  
**37979.16**



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Allegan**

**Moline WWTP**

**Moline WWTP**

Submission ID. HPA-4107-6MNFT

Start Day	Start Time	End Day	End Time
7/10/2021	3:00:00 PM	7/10/2021	7:00 PM

Waterbody: no name drainage ditch

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00250**

Cause: 12" cleanout on the force main at the west entrance just off 142nd st. ; it appeared the a few of the bolts that hold the megalug on had rotted off and became weak, the normal operating pressure blow it off.

Location: Dorr Exxon truck Stop entrance

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

**Totals Moline WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00250**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## Windsor Woods Village

### Windsor Woods Village

Submission ID. HP5-JE5C-R0NKK

Start Day	Start Time	End Day	End Time
1/5/2021	5:00:00 PM	1/6/2021	8:45 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

EGLE Action: The clean out discharged when crew went to check for blockage

### Totals Windsor Woods Village

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

### County Totals Allegan

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00250**      **0.00030**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Alpena

#### Alpena CM

#### Alpena CM

Submission ID. HP7-5DXE-H3PGK

Start Day	Start Time	End Day	End Time
3/11/2021	4:00:00 PM	3/11/2021	4:15 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Cause: Dry weather discharge from manhole caused by sewer main being obstructed by prohibited substance (rags) and the main being pressurized by what is believed to be a sump pump discharge (also prohibited).

Location: Wilson Street

EGLE Action: No further action. The corrective action taken is appropriate to prevent further SSOs in the future.

#### Alpena CM

Submission ID. HP9-VR0G-CNV4D

Start Day	Start Time	End Day	End Time
6/28/2021	8:30:00 AM	6/28/2021	8:45 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Cause: Bubbler at Long Rapids Road Lift Station failed to activate auto pump operation

EGLE Action: No further action.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Alpena CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

**Alpena Township CM**

**Alpena Township CM**

Submission ID.    HPA-8GD8-5QSC2

Start Day	Start Time	End Day	End Time
7/16/2021	10:10:00 AM	7/16/2021	10:35 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause:            sanitary sewer obstruction caused manhole overflow

Location:        intersection of Sunset Blvd and St Onge St

EGLE Action:    No further action at this time.

**Totals** **Alpena Township CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

**County Totals** **Alpena**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Antrim

Bellaire WWTP

Bellaire WWTP

Submission ID. HPC-F9ES-TR21Q

Start Day	Start Time	End Day	End Time
10/13/2021	10:00:00 AM	10/13/2021	10:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: low rate seepage through a manhole cover onto road surface, A contractor pouring footings at a business broke a service line and filled approximately 45 ft of sewer main with cement completely plugging pipe

Location: Broad st

EGLE Action: Violation Notice sent to address discharge

Totals Bellaire WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

County Totals Antrim

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Barry**

**Carlton Township CM**

**Carlton Township CM**

Submission ID. HPD-5XAA-78RYP

Start Day	Start Time	End Day	End Time
9/5/2021	1:00:00 AM	9/10/2021	11:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00016**

Cause: Pipe rupture due to increasing pressures

Location: Oxidation Facility

EGLE Action: On 11/12/2021 EGLE had a meeting with the Township to review required notification and reporting for SSOs. The Township did not make the appropriate notifications within 24 hours. Following the meeting, the Township Supervisor affirmed an understanding of reporting requirements and is prepared for reporting any future releases. No further action at this time.

**Totals Carlton Township CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00016**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Southwest Barry Co SWA

#### Southwest Barry Co SWA

Submission ID. HP7-RCMJ-ZKJCH

Start Day	Start Time	End Day	End Time
4/4/2021	2:30:00 PM	4/4/2021	7:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause:            The discharge was on the road only. This was caused by a break at a joint in the sewer main.

EGLE Action:    No further action taken at this time

#### Southwest Barry Co SWA

Submission ID.    HPD-Z7J7-D1XMD

Start Day	Start Time	End Day	End Time
12/14/2021	1:30:00 PM	12/14/2021	2:15 PM

Waterbody: Pine Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

Cause:            The contractor broke the 1 1/2" service line with an excavator. He was looking for the line to relocate it around a newly constructed house.

EGLE Action:    No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Southwest Barry Co SWA

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00530</b>		

**County Totals** Barry

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00530</b>	<b>0.00016</b>	

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Bay**

**Dow Silicones Corporation-Auburn**

**Dow Silicones Corporation-Auburn**

Submission ID. HP7-TJEX-V3GPG

Start Day	Start Time	End Day	End Time
4/7/2021	2:34:00 PM	4/7/2021	7:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00035**

Cause: An equipment failure in the main lift station of the Site's sanitary sewer system causing an overflow to the ground of the surrounding area.

Location: Dow Silicones Corporation Auburn Site

EGLE Action: Violation notice issued

**Dow Silicones Corporation-Auburn**

Submission ID. HP9-6NW8-TB3PY

Start Day	Start Time	End Day	End Time
6/2/2021	3:15:00 PM	6/2/2021	4:25 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: A fitting failure within a line connection at the Site's Module 4 lift station (this lift station is use to transfer wastewater to the Site's Main sanitary sewer lift station)

Location: Dow Silicones Corporation Auburn Site

EGLE Action: Second violation notice to be issued. Pump station failures have led to recurring discharges.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Dow Silicones Corporation-Auburn

Submission ID. HPA-CF3Q-BBGSD

Start Day	Start Time	End Day	End Time
7/20/2021	6:12:00 PM	7/20/2021	7:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: An equipment failure in the Module 6 lift station of the Site's sanitary sewer system causing an overflow to the ground of the surrounding area.

Location: Dow Silicones Corporation Auburn Site

EGLE Action: Violation notice issued. Will follow existing schedule of compliance.

## Totals Dow Silicones Corporation-Auburn

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00115**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### West Bay Co Regional WWTP

#### West Bay Co Regional WWTP

Submission ID. HP6-4B3N-1HP4Q

Start Day	Start Time	End Day	End Time
1/28/2021	12:00:00 PM	1/28/2021	3:30 PM

Waterbody: Tebo Drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00100**

**Cause:** Contractors working for the Drain Commission damaged the M-13 sanitary sewer force main that runs along the west side of M-13 under Tebo Drain at approximately 12:00 pm on 1/28/21. This caused approximately 1000 gallons of dilute sanitary sewage to leak i

**Location:** Tebo Drain

**EGLE Action:** No further action taken. The discharge was caused by an independent contractor working for the local drain commissioner. The facility is planning to move the forcemain to a greater depth to prevent future damage and discharge.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### West Bay Co Regional WWTP

Submission ID. HP7-JTTY-6QKQT

Start Day	Start Time	End Day	End Time
3/29/2021	9:00:00 AM	3/29/2021	9:10 AM

Waterbody: West Bay County Regional WWTP Storm W

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.05400**

**Cause:** The bubbler system for the downstream Aeration Building wetwell malfunctioned and the back-up high level float was disconnected. This caused the primary tanks to overflow for approximately 10 minutes.

**Location:** West Bay County Regional WWTP

**EGLE Action:** Communication with facility superintendent requesting E Coli testing results be provided to the department when the impact stormwater pond discharges. No further action taken, as the event was an isolated incident, and the failed facility component has been repaired. The facility has further committed to regular maintenance checks of this component to prevent future events.

### Totals West Bay Co Regional WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.05400**

**0.00100**

### County Totals Bay

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.05400**

**0.00215**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Berrien**

**Benton Charter Township CM**

**Benton Charter Township CM**

Submission ID. HP9-NDWX-XA782

Start Day	Start Time	End Day	End Time
6/19/2021	6:00:00 PM	6/19/2021	6:30 PM

Rain(in.) = 1

Waterbody: County drain on side of road

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00050**

Cause: The force main for the Pipestone lift station blew causing discharge on the tree lawn and road side.

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time

**Totals Benton Charter Township CM**

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00050**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Benton Harbor CM**

**Benton Harbor CM**

Submission ID. HPB-773F-JWBA5

Start Day	Start Time	End Day	End Time
8/24/2021	8:30:00 AM	8/24/2021	10:20 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00024**

Cause: lift station wetwell overflow due to pump issue

Location: North Crystal Ave lift station

EGLE Action: After initial notification, a final SSO report was not submitted. VN-012294 addressed this. Reviewed report upon submission.

**Totals Benton Harbor CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00024**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Bridgman CM

### Bridgman CM

Submission ID. HP6-R464-DW95Y

Start Day	Start Time	End Day	End Time
2/23/2021	10:55:00 AM	2/23/2021	11:00 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00001</b>		

Cause: Tangled floats and backup float was found to not be working

Location: Manhole near 5234 Lake St

EGLE Action: No Additional Action Taken at this Time

### Totals Bridgman CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00001</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Chikaming Township CM

#### Chikaming Township CM

Submission ID. HPA-X3V3-AM386

Start Day	Start Time	End Day	End Time
8/10/2021	5:00:00 AM	8/10/2021	6:00 AM

Rain(in.) = 6  
Waterbody: Lake Michigan

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00250**

Cause: Raw sewage discharged due to power outage at lift station.

Location: LS 9

EGLE Action: Discharge event reviewed and processed. Situation appears to have been addressed.

#### Chikaming Township CM

Submission ID. HPA-X3V3-AM386

Start Day	Start Time	End Day	End Time
8/10/2021	5:00:00 AM	8/10/2021	6:00 AM

Rain(in.) = 6  
Waterbody: Creek near LS 9

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00250**

Cause: Raw sewage discharged due to power outage at lift station.

Location: LS 9

EGLE Action: Discharge event reviewed and processed. Situation appears to have been addressed.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Chikaming Township CM

Submission ID. HPA-X3V3-AM386

Start Day	Start Time	End Day	End Time
8/10/2021	7:00:00 AM	8/10/2021	8:00 AM

Rain(in.) = 6  
Waterbody: Lake Michigan

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00100</b>		

Cause: Raw sewage due to lift station overflow. Loss of power at lift station caused overflow.

Location: LS 14

EGLE Action: Discharge event reviewed and processed. Situation appears to have been addressed.

## Chikaming Township CM

Submission ID. HPA-X3V3-AM386

Start Day	Start Time	End Day	End Time
8/10/2021	7:00:00 AM	8/10/2021	8:00 AM

Rain(in.) = 6  
Waterbody: Painterville Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00100</b>		

Cause: Raw sewage due to lift station overflow. Loss of power at lift station caused overflow.

Location: LS 14

EGLE Action: Discharge event reviewed and processed. Situation appears to have been addressed.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Chikaming Township CM

Submission ID. HPA-X3V3-AM386

Start Day	Start Time	End Day	End Time
8/10/2021	4:45:00 PM	8/10/2021	5:15 PM

Rain(in.) = 6  
Waterbody: Lake Michigan (potentially)

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00002**

Cause: Raw sewage due to lift station overflow. Loss of power at lift station caused overflow.

Location: LS 14

EGLE Action: Discharge event reviewed and processed. Situation appears to have been addressed.

## Chikaming Township CM

Submission ID. HPA-X3V3-AM386

Start Day	Start Time	End Day	End Time
8/10/2021	4:45:00 PM	8/10/2021	5:15 PM

Rain(in.) = 6  
Waterbody: Painterville Drain (potentially)

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00002**

Cause: Raw sewage due to lift station overflow. Loss of power at lift station caused overflow.

Location: LS 14

EGLE Action: Discharge event reviewed and processed. Situation appears to have been addressed.

## Totals Chikaming Township CM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00704**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### GRSD Sewer Authority WRRF

#### GRSD Sewer Authority WRRF

Submission ID. HP5-KY9T-GYWXV

Start Day	Start Time	End Day	End Time
1/8/2021	9:38:00 AM	1/8/2021	10:20 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Raw sewage from domestic users. Discharge due to backup in sewer line.

Location: MANHOLE NEAR 403 MERCHANT

EGLE Action: Event was reviewed and appears to be remediated.

#### GRSD Sewer Authority WRRF

Submission ID. HP7-6ATW-WXB0S

Start Day	Start Time	End Day	End Time
3/13/2021	12:32:00 PM	3/13/2021	1:02 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Raw sewage discharge caused by backup of sewer lateral at private residence.

EGLE Action: No Additional Action Taken at this Time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **GRSD Sewer Authority WRRF**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00015**

**Niles WWTP**

**Niles WWTP**

Submission ID. HPA-W05Q-  
MSC9Q

Start Day	Start Time	End Day	End Time
8/9/2021	12:00:00 AM	8/9/2021	7:00 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.09450**

Cause: Sanitary sewage and process water from Indeck.; Employee error. Employee decided to shut the lift station pumps off.at this time he was unaware that the station was receiving the process water (Indeck did not alert the City that they started discharging)

Location: Progressive Drive lift station

EGLE Action: Called City of Niles to determine difference in discharge estimate for PEAS and SSO report. Evaluated the SSO report for completeness.

**Totals** **Niles WWTP**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.09450**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### St Joseph CM

#### St Joseph CM

Submission ID. HP6-DRPV-GYNB0

Start Day	Start Time	End Day	End Time
2/9/2021	3:55:00 PM	2/9/2021	4:15 PM

Waterbody: Open tributary to the St. Joseph River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00030</b>		

Cause: Sanitary sewer main blockage. Sewage discharge was from a sanitary sewer manhole cover.

Location: Lakeview Dr S of St Joseph High School

EGLE Action: No additional action taken at this time

#### Totals St Joseph CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00030</b>		

#### County Totals Berrien

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00824</b>		<b>0.09450</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Calhoun

### Battle Creek CM

#### Battle Creek CM

Submission ID. HP7-72H0-6ZPGA

Start Day	Start Time	End Day	End Time
3/14/2021	12:42:00 PM	3/14/2021	2:42 PM

Waterbody: Lakeview Square Mall Retention Pond

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00012</b>		

Cause: Raw sewage and cause of discharge was a grease plug

Location: Beckley Road

EGLE Action: Event reviewed and appears to be remediated.

#### Battle Creek CM

Submission ID. HP7-JVET-KHEDG

Start Day	Start Time	End Day	End Time
3/29/2021	8:30:00 AM	3/29/2021	9:30 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00050</b>		

Cause: Discharge was raw sewage, cause is a broken force main

EGLE Action: Event reviewed and appears to be remediated.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Battle Creek CM

Submission ID. HP9-9YNF-JX8ER

Start Day	Start Time	End Day	End Time
6/7/2021	4:00:00 PM	6/7/2021	5:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: Raw Sewage discharged from Lift Station due to a power outage

Location: Lift Station 72

EGLE Action: Event viewed and submission appears to be complete.

## Battle Creek CM

Submission ID. HPD-WW3A-D3556

Start Day	Start Time	End Day	End Time
12/11/2021	11:30:00 AM	12/11/2021	4:30 PM

Rain(in.) = 1

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: Raw Sewage ARV Valve broken before ball valve causing sewage to fill up manhole which caused manhole to overflow into the street.

Location: 308 Wallace Battle Creek MI 49017

EGLE Action: Event reviewed.

## Totals Battle Creek CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00182**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Westrock BOD Battle Creek

#### Westrock BOD Battle Creek

Submission ID. HP6-18G2-R4DY8

Start Day	Start Time	End Day	End Time
1/22/2021	1:48:00 PM	1/22/2021	2:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00150**

Cause: Sewer line broke under parking lot

Location: Parking Lot Area

EGLE Action: No Additional Action Taken at this Time

#### Westrock BOD Battle Creek

Submission ID. HP6-ER7C-W11GY

Start Day	Start Time	End Day	End Time
2/11/2021	6:45:00 AM	2/11/2021	7:20 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Location: Westrock Box on Demand

EGLE Action: Combination of process and sanitary sewer. Process water from corrugating process containing starch adhesive. ; Reason for discharge: sewer overflow Due to pump one impeller jam, and pump two power cable short.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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**Totals** Westrock BOD Battle Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00150</b>		<b>0.00100</b>

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**County Totals** Calhoun

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00332</b>		<b>0.00100</b>

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MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Cass

Cass Co-Lakes Area SA WWTP

Cass Co-Lakes Area SA WWTP

Submission ID. HPC-G02X-4WH13

Start Day	Start Time	End Day	End Time
10/14/2021	3:30:00 PM	10/14/2021	3:31 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:            The spill came from MH # B-32 during maintenance on an air release valve that is connected to a pressurized force main. The spill lasted for approximately 60 seconds until staff could reclose the isolation valve on the force main. Powderized lime was sp

Location:        Finch Rd Marcellus, MI MH # B-35

EGLE Action:    Discharge event reported reviewed. Actions taken appear adequate.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Cass Co-Lakes Area SA WWTP

Submission ID. HPC-ZTRA-7PNYS

Start Day	Start Time	End Day	End Time
11/3/2021	4:50:00 PM	11/3/2021	5:25 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00450**

Cause:      At approximately 5:20 PM, staff received a report that there was a possible sewage spill on Hemlock Lake Rd Marcellus, MI. Upon investigation, staff found that sewage was overflowing from a manhole at 53283 Hemlock Lake Rd Marcellus, MI. The overflow re

EGLE Action:      Event reviewed and new SOP reviewed. Actions at this time are adequate.

## Totals Cass Co-Lakes Area SA WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00451**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Cassopolis CM

#### Cassopolis CM

Submission ID. HPA-57XM-MWCSJ

Start Day	Start Time	End Day	End Time
7/3/2021	3:30:00 PM	7/3/2021	3:45 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00200**

Cause:            The pump in a sewer lift station on Railroad St., known as A8, failed. While the Department of Public Works was trying to set up a by-pass pump, the heavy flow from the holiday weekend was too much and overflowed out of a manhole upstream of A8.

Location:        Cara Avenue

EGLE Action:    Reviewed the SSO report and determined appropriate actions appear to have been taken.

#### Totals Cassopolis CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00200**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Dowagiac CM

#### Dowagiac CM

Submission ID. HP8-6E1W-ZZA7A

Start Day	Start Time	End Day	End Time
4/9/2021	11:00:00 AM	4/22/2021	3:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00000**

Cause:      On April 4th we were made aware of a sink hole forming at 714 N. Front Street, Dowagiac MI 49047. We manage Sewer, Storm, and Water in that area so we began an investigation, but returned no results. We were informed about the sink hole returning on Apr

EGLE Action:      Event reviewed. No further action taken at this time

#### Totals Dowagiac CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00000**

#### County Totals Cass

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00451**      **0.00200**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Chippewa

#### Kinross Twp WWTP

#### Kinross Twp WWTP

Submission ID. HPC-E897-VVHR7

Start Day	Start Time	End Day	End Time
10/11/2021	9:00:00 AM	10/11/2021	3:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: a cleanout lid on a force main was broken (presumably by a lawnmower) and when the lift station was pumping a small amount of raw sewage was pushed out of the hole.

Location: chippewa county central dispatch

EGLE Action: Communicated corrective actions with facility operator for the next time.

#### Totals Kinross Twp WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Sault Ste Marie WWTP

#### Sault Ste Marie WWTP

Submission ID. HPA-JQGG-DZ196

Start Day	Start Time	End Day	End Time
7/29/2021	3:00:00 AM	7/29/2021	9:00 AM

Rain(in.) = 2.41

Waterbody: st marys river

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.05000**

Cause: SSO resulting from rain event.

Location: Bingham & Water

EGLE Action: Corrective actions in NPDES permit

#### Sault Ste Marie WWTP

Submission ID. HPA-JPQG-NHV7A

Start Day	Start Time	End Day	End Time
7/29/2021	3:00:00 AM	7/29/2021	9:00 AM

Rain(in.) = 2.41

Waterbody: St Mary's River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.05000**

Cause: Storm runoff with some domestic wastewater

Location: Peck & Meredian

EGLE Action: I&I reduction tasks included in NPDES permit.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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Totals	Sault Ste Marie WWTP	Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
				<b>0.10000</b>

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County Totals	Chippewa	Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00010</b>		<b>0.10000</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Clare**

**Clare WWTP**

**Clare WWTP**

Submission ID. HP9-VYM5-T062T

Start Day	Start Time	End Day	End Time
6/14/2021	11:30:00 PM	6/14/2021	2:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: While digging bridge footings a sewer main was hit on 6th St. between Jackson Hemlock

Location: E. 6th St. Clare Mi.

EGLE Action: No further action taken. Event was caused by construction crew outside of the control of the facility. Event was promptly responded to and ended.

**Totals Clare WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Harrison WWTP**

**Harrison WWTP**

Submission ID. HP9-P50C-5QF3N

Start Day	Start Time	End Day	End Time
6/22/2021	5:45:00 PM	6/22/2021	6:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: A clog in a gravity main caused by a collection of "flushable" wipes caused the main to overflow the manhole lid. Roughly 200 gallons of wastewater flowed onto the roadway as well as the grass and sidewalk along side. The main was unclogged and the area w

Location: Manhole at the intersection of Spruce and 5th st.

EGLE Action: No further action taken. Event was an isolated incident and the facility is committed to preventing future events.

**Totals Harrison WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

**County Totals Clare**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Clinton

#### DeWitt Township CM

#### DeWitt Township CM

Submission ID. HP9-WK4J-A9849

Start Day	Start Time	End Day	End Time
6/25/2021	7:51:00 PM	6/25/2021	10:30 PM

Rain(in.) = 4.5

Waterbody: Prairie gunderman drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.02400**

Cause: The discharge was caused from an extreme rain event.

Location: Is 102

EGLE Action: No further action taken at this time

#### DeWitt Township CM

Submission ID. HPA-XNG8-617HW

Start Day	Start Time	End Day	End Time
8/12/2021	5:10:00 AM	8/12/2021	6:28 AM

Rain(in.) = 3.55

Waterbody: Prairie gunderman drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.01384**

Cause: The discharge was caused from an extreme rain event.

Location: LS 102

EGLE Action: No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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**Totals** DeWitt Township CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.03784**

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**County Totals** Clinton

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.03784**

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MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Eaton

#### Grand Ledge WWTP

#### Grand Ledge WWTP

Submission ID. HP9-T5SM-5J2FK

Start Day	Start Time	End Day	End Time
6/26/2021	6:42:00 PM	6/26/2021	11:32 PM

Rain(in.) = 5.23  
Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.24276**

Cause: Discharge was caused by an excessive amount of rain causing a main sewer line to surcharge which resulted in the opening of a manual bypass valve. The rainfall total for the past 4 days is 5.23"

Location: Manhole #211

EGLE Action: Rain event under investigation for force majeure

#### Totals Grand Ledge WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.24276**

#### County Totals Eaton

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.24276**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Emmet

### Harbor Springs Area Sewage

#### Harbor Springs Area Sewage

Submission ID. HP7-N6Z2-CQ104

Start Day	Start Time	End Day	End Time
3/31/2021	2:30:00 PM	4/1/2021	8:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01500**

Cause: Force Main sewer had a 12 inch lateral crack that was leaking raw sewage to the ditch on the side of the road.

Location: 100 yards South of 8503 Us-31, Alanson MI

EGLE Action: Followed up with the facility to confirm that repairs and replacement of the cracked section of force main were completed to restore service and that any residuals from the event were adequately addressed.

#### Harbor Springs Area Sewage

Submission ID. HPE-BMV4-QF9WZ

Start Day	Start Time	End Day	End Time
12/29/2021	11:30:00 AM	12/29/2021	12:30 PM

Waterbody: Pennsylvania Ave Ditch

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Air Release Valve Malfunction. Small amount of wastewater ran across impervious ground to storm catch basin

Location: Air Release Chamber

EGLE Action: Confirmed with facility that air relief valve has been isolated from force main and has been entered into maintenance schedule for repair.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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**Totals** Harbor Springs Area Sewage

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.01510</b>		

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**County Totals** Emmet

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.01510</b>		

---

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Genesee

#### Flint Charter Township CM

#### Flint Charter Township CM

Submission ID. HPD-X14Q-8WEQX

Start Day	Start Time	End Day	End Time
12/11/2021	3:30:00 PM	12/11/2021	4:45 PM

Waterbody: Swartz Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00300**

Cause:            Electrical supply failure by Consumers Energy; 2-seperate power sources both failed during a violent wind storm event.

Location:        3321 Miller Road, Flint, MI

EGLE Action:    reviewed circumstances of discharge. No further action taken at this time

#### Totals Flint Charter Township CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00300**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Flint CM

### Flint CM

Submission ID. HP7-GH7C-MVKGP

Start Day	Start Time	End Day	End Time
3/26/2021	1:26:00 PM	3/26/2021	1:26 PM

Rain(in.) = 3

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Sanitary sewer plugged with grease.  
Location: Intersection of Avenue A & Genesee Street  
EGLE Action: Violation Notice sent to address discharge

### Flint CM

Submission ID. HP7-GJM4-E6XBP

Start Day	Start Time	End Day	End Time
3/26/2021	2:44:00 PM	3/26/2021	3:14 PM

Rain(in.) = 3

Waterbody: Flint River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00090**

Cause: Pipe surcharging due to storm event backing up sewage into newly constructed riser of the deep tunnel connection of the NW Pump Station Diversion Project.  
Location: Flushing Road - Flint Township- across the Flint River from COF WPCF  
EGLE Action: Violation Notice sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Flint CM

Submission ID. HP7-N365-MDRP7

Start Day	Start Time	End Day	End Time
3/31/2021	5:20:00 PM	3/31/2021	5:21 PM

Rain(in.) = 0.03

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00002**

Cause: Sanitary sewer plugged with roots & grease causing sewage to overflow onto the pavement from the manhole while cleaning the line.

EGLE Action: Violation Notice sent to address discharge

### Flint CM

Submission ID. HP7-RYNJ-P7AD7

Start Day	Start Time	End Day	End Time
4/5/2021	5:00:00 PM	4/5/2021	5:10 PM

Rain(in.) = 0.35

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Sanitary sewer plugged with grease and rags causing a backup.

EGLE Action: Violation Notice sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Flint CM

Submission ID. HP7-SQ4A-TAB47

Start Day	Start Time	End Day	End Time
4/6/2021	4:38:00 PM	4/6/2021	6:30 PM

Waterbody: Carmen Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: Sanitary Sewer Siphon blocked with grease & rags causing sewage to over flow out of sanitary manhole onto the ground next to Carman Creek.

EGLE Action: Violation Notice sent to address discharge

## Flint CM

Submission ID. HP9-6H6Y-8W7E5

Start Day	Start Time	End Day	End Time
6/2/2021	2:30:00 PM	6/2/2021	3:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Grease, Rags, and Wipes built up in the sanitary sewer.

EGLE Action: Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Flint CM

Submission ID. HP9-GQ7T-E26D5

Start Day	Start Time	End Day	End Time
6/15/2021	1:43:00 PM	6/15/2021	5:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: Grease build up in the sanitary sewer.  
 Location: Ballenger Park  
 EGLE Action: Violation notice issued to address discharge

## Flint CM

Submission ID. HP9-XAE2-5D4X7

Start Day	Start Time	End Day	End Time
7/1/2021	11:30:00 PM	7/2/2021	12:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Sanitary line blocked with grease at the intersection of Brookwood Avenue & Brookside Drive.  
 Location: Brookwood Ave. & Brookside Drive  
 EGLE Action: Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Flint CM

Submission ID. HPB-E4Z8-KP79C

Start Day	Start Time	End Day	End Time
9/1/2021	1:30:00 AM	9/1/2021	1:50 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00002**

Cause: Sanitary sewer line was plugged with grease causing some sewage to spill onto the ground.

EGLE Action: Violation notice issued to address discharge

## Flint CM

Submission ID. HPB-YN27-EADST

Start Day	Start Time	End Day	End Time
9/23/2021	7:00:00 AM	9/24/2021	7:00 AM

Rain(in.) = 1.61  
Waterbody: Swartz Creek

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.60000**

Cause: Sanitary sewer system overloaded due to high wet weather flow from the past 3 days of rain.

Location: South of the intersection Fenton Road & Barlow Avenue in Flint

EGLE Action: Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Flint CM

Submission ID. HPB-YKKK-FTHW4

Start Day	Start Time	End Day	End Time
9/23/2021	8:30:00 AM	9/24/2021	7:00 PM

Waterbody: Flint River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**5.00000**

Cause: This discharge was due to a failure of the connection of the North West Pump Station Diversion pipe to the deep tunnel interceptor. This caused raw sewage and rainwater to over flowed onto the ground and eventually flow down to the Flint River.

Location: Precast manhole near 4413 Flushing Road

EGLE Action: Violation notice issued to address discharge

### Flint CM

Submission ID. HPB-ZJZJ-QP48P

Start Day	Start Time	End Day	End Time
9/24/2021	12:00:00 PM	9/25/2021	11:00 AM

Rain(in.) = 1.61  
Waterbody: Swartz Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.50000**

Cause: Sanitary sewer system overloaded due to high wet weather flow from the past 3 days.

Location: 3rd Sanitary Manhole East of Parkside & Overhill Drive.

EGLE Action: Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Flint CM

Submission ID. HPC-CPBW-JNK9N

Start Day	Start Time	End Day	End Time
10/10/2021	1:00:00 PM	10/10/2021	1:10 PM

Rain(in.) = 0.01

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause:            Instrumentation failure at City of Flint Station #2  
Location:        Pavement around 5627 Fleming near City of Flint Pump Station #2  
EGLE Action:    Violation notice issued to address discharge

## Flint CM

Submission ID. HPC-J76C-FJYZ6

Start Day	Start Time	End Day	End Time
10/17/2021	4:15:00 PM	10/17/2021	4:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:            Sanitary sewer back up near 610 East Gracelawn Avenue in Flint and less than 10 gallons spilled onto the pavement while cleaning the sanitary sewer.  
Location:        Pavement by 610 East Gracelawn Avenue  
EGLE Action:    Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Flint CM

Submission ID. HPC-RKNP-905P6

Start Day	Start Time	End Day	End Time
10/25/2021	12:30:00 PM	10/25/2021	5:00 PM

Rain(in.) = 1.06  
Waterbody: Flint River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00450**

Cause: The discharge was due to an engineering design flaw of the bilco doors at the Northwest Pump Station Diversion Building that caused sewage to flow out of the bilco doors.

Location: Northwest Pump Station Diversion Building

EGLE Action: Violation notice issued to address discharge

## Flint CM

Submission ID. HPD-K906-JMQYM

Start Day	Start Time	End Day	End Time
11/29/2021	8:41:00 AM	11/29/2021	8:50 AM

Rain(in.) = 0.21

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00002**

Cause: Vactor truck rear tank accidentally opened, raw sewage & a small amount of raw sewage spilled out the back onto the pavement & into a storm catch basin.

Location: Intersection of Bennett Ave & Iowa Ave

EGLE Action: Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Flint CM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**6.10667**

**Flint WWTP**

**Flint WWTP**

Submission ID. HP7-8FQP-KDWBA

Start Day	Start Time	End Day	End Time
3/12/2021	2:30:00 PM	3/15/2021	1:00 PM

Waterbody: Gilkey Creek

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00010**

Cause: On Friday March 12, 2021, The COF WSC observed a clear intermediate upwelling coming out of the driveway flowing to a storm sewer at 1506 Brookside Drive. The upwelling had no odor and clear. The contact the COF WCs water crew to fix a possible water ma

EGLE Action: Violation Notice sent to address discharge

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Flint WWTP

Submission ID. HP9-WPNM-STE1A

Start Day	Start Time	End Day	End Time
7/1/2021	12:32:00 PM	7/1/2021	5:50 PM

Waterbody: Flint River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05000**

Cause: A major valve @ the Northwest pump station broke. Though most of the incoming wastewater to this pump station was sent to another pump station, some wastewater flowed directly to the Flint river from this pump station while the valve was being repaired.

Location: Northwest pump station

EGLE Action: Violation notice issued to address discharge

### Flint WWTP

Submission ID. HPB-FXG5-X3PD1

Start Day	Start Time	End Day	End Time
9/4/2021	1:17:00 PM	9/4/2021	4:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: Raw sanitary sewage surcharged onto the ground due to the sanitary sewer line being plugged with grease.

Location: Wooded area just East of Parkside Dr. & Overhill Dr. intersection

EGLE Action: Violation notice issued to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Flint WWTP

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.05030**

**Goodrich CM**

**Goodrich CM**

Submission ID. HPC-89FB-G358C

Start Day	Start Time	End Day	End Time
10/4/2021	11:00:00 PM	10/5/2021	4:00 AM

Rain(in.) = 2.07  
Waterbody: Cartwright Drain

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.06800**

Cause: Heavy intense rain moved through the area and sewer system levels were elevated. Wipes & rags were flushed into the station and became embedded into the pump volute. There was a mechanical failure of a couple of fatigued studs holding the motor top flange

Location: 7405 Dutch Road, Goodrich, MI

EGLE Action: reviewed circumstances of discharge. No further action taken at this time

**Totals** Goodrich CM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.06800**

**County Totals** Genesee

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**6.15997** **0.06800**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Gladwin

### Billings Twp WWTP

#### Billings Twp WWTP

Submission ID. HP7-MGRP-JSAKP

Start Day	Start Time	End Day	End Time
3/31/2021	6:00:00 AM	3/31/2021	11:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

Cause: Force main pipe broke at the side of a manhole in the parking lot at the Township Hall

Location: Township Hall Station #20

EGLE Action: Violation Notice issued. Request root cause analysis for forcemain failure and an inspection/maintenance schedule.

#### Totals Billings Twp WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

#### County Totals Gladwin

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Grand Traverse

### Black Bear Farms WWTP

#### Black Bear Farms WWTP

Submission ID. HPA-6XTZ-JH46B

Start Day	Start Time	End Day	End Time
7/12/2021	10:00:00 PM	7/13/2021	12:00 PM

Rain(in.) = 0.5

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00250</b>		

Cause: A 2" grinder pump lead to a vacant lot broke. it was leaking under the road and finally made it to the surface.

EGLE Action: Discussed situation with operator that reported the SSO and asked for clarifications and additions to the SSO report including contacts with the LHD and Record Eagle.

#### Totals Black Bear Farms WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00250</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**East Bay Township CM**

**East Bay Township CM**

Submission ID. HPA-H66Q-CK6S2

Start Day	Start Time	End Day	End Time
7/26/2021	6:00:00 PM	7/30/2021	6:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: Domestic sewage from a break in a force main; transmission force main from East Bay Township to Traverse City WWTP is showing evidence of a break.

Location: SE Corner of Parsons Road and Hastings Street, Traverse City, MI

EGLE Action: No further action taken at this time

**Totals East Bay Township CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Green Lake Township - Bush Road Community Sewer System**

**Green Lake Township - Bush Road Community Sewer System**

Submission ID. HPA-HBBX-R5P0S

Start Day	Start Time	End Day	End Time
3/14/2021	10:00:00 AM	3/15/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:            Effluent surfaced by riser of pump chamber. Coupling came apart at the riser. EGLE spoke with the design engineer that responded to the release and made sure that the issue was resolved, F&V, and EGLE determined that the engineer's estimate was that ver

EGLE Action:    No further action taken at this time

**Totals    Green Lake Township - Bush Road Community Sewer System**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Traverse City CM

#### Traverse City CM

Submission ID. HP8-B60F-PXGV0

Start Day	Start Time	End Day	End Time
4/29/2021	8:30:00 AM	4/29/2021	10:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Sewage was found seeping our from the manhole cover onto the surrounding grassy area. A large grease plug was found downstream at the next manhole.

Location: Manhole SSM-1619

EGLE Action: Documented event. Actions taken by system owner were appropriate

#### Traverse City CM

Submission ID. HPA-KFG8-BDVW9

Start Day	Start Time	End Day	End Time
7/24/2021	10:12:00 AM	7/24/2021	12:08 PM

Rain(in.) = 3.8

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00980**

Cause: 3.7" rain event overloaded the system causing sewage to discharge from a manhole into an emergency containment basin. The 9800 gallons is pretty accurate based on the number of truck loads hauled to the plant.

Location: South siphon manhole

EGLE Action: Continue to work with the City and assist in any way in helping them with permanent solutions to prevent future events

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Traverse City CM

Submission ID. HPA-SN70-Y5FZ9

Start Day	Start Time	End Day	End Time
8/6/2021	7:10:00 PM	8/6/2021	9:05 PM

Rain(in.) = 0.0025  
Waterbody: Boardman River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00005**

Cause: The business at 135 E. Front St. has a broken sewer line. Their line was backed up and was coming out of their inspection manhole. A small amount came out of the manhole and went into the city catch basin. From the basin it went into the Boardman River.

EGLE Action: No further action taken at this time

## Traverse City CM

Submission ID. HPD-2TNQ-PFRJ5

Start Day	Start Time	End Day	End Time
11/4/2021	11:00:00 AM	11/4/2021	11:00 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00005**

Cause: Wastewater from the liftstation that came in contact with surrounding grassy area during the bypass pump breakdown process

Location: Front Street Liftstation

EGLE Action: Discussed SSO reporting with City, no further follow up needed from this event

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.







MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Hillsdale

### Hillsdale CM

#### Hillsdale CM

Submission ID. HP9-CYNY-QDK83

Start Day	Start Time	End Day	End Time
6/9/2021	12:00:00 PM	6/11/2021	8:30 AM

Waterbody: St. Joe River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.15000</b>		

Cause: Sewage out of the manhole in the swamp, mostly effluent from Bob Evans. Grease and rags caused the backup.

Location: Swamp

EGLE Action: A Violation Notice was issued to address the discharge

#### Totals Hillsdale CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.15000</b>		

#### County Totals Hillsdale

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.15000</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Houghton

#### Chassell Twp WWSL

#### Chassell Twp WWSL

Submission ID. HPB-6D0J-DT5QC

Start Day	Start Time	End Day	End Time
8/23/2021	10:00:00 AM	8/26/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.11500**

Cause:            Failure of ductile iron forcemain pipe.

Location:        NA

EGLE Action:    Compliance Communication sent on 5/15/2018 for an SSO

#### Totals Chassell Twp WWSL

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.11500**

#### County Totals Houghton

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.11500**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Huron

### Bad Axe WWTP

#### Bad Axe WWTP

Submission ID. HP6-91NC-A2390

Start Day	Start Time	End Day	End Time
2/3/2021	1:10:00 PM	2/3/2021	2:10 PM

Waterbody: Bad Axe Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00075</b>		

Cause: Sewage pushing out of manhole lid. Appears to have been caused by trash such as plastic beverage bottles.

Location: Bad Axe Drain

EGLE Action: No further action taken. Event was isolated and the facility s working to prevent further SOS events.

#### Totals Bad Axe WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00075</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**MDNR-Port Crescent SP WWSL**

**MDNR-Port Crescent SP WWSL**

Submission ID. HPA-GBQS-F7Q6H

Start Day	Start Time	End Day	End Time
7/26/2021	1:00:00 PM	7/26/2021	1:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Discharge from gravity sewer fed manhole cover. Event occurred after a severe storm event caused a power outage which and caused the lift station to reset. No alarms were triggered on lift station to notify staff.

Location: Port Crescent State Park

EGLE Action: No further action taken. Event was isolated and the facility is committed to preventing future SSO's.

**Totals MDNR-Port Crescent SP WWSL**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Port Austin WWTP**

**Port Austin WWTP**

Submission ID. HPC-1YRF-KPT6X

Start Day	Start Time	End Day	End Time
9/26/2021	5:00:00 PM	9/27/2021	9:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01000**

Cause:            Main line leak  
Location:        Pointe Aux Barques Road  
EGLE Action:    Violation notice issued.

**Totals Port Austin WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01000**

**County Totals Huron**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01080**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Ingham

East Lansing WRRF

East Lansing WRRF

Submission ID. HP9-S0T9-0JQ9F

Start Day	Start Time	End Day	End Time
6/26/2021	6:25:00 PM	6/27/2021	2:00 AM

Rain(in.) = 3.7

Waterbody: Red Cedar River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**5.90000**

Cause: Sanitary sewer overflow to storm drain caused by heavy infiltration during rain event.

Location: 013 - Wilmarth

EGLE Action: Long-term Control Program complete; controls included both sewer separation and construction of a retention treatment basin (RTB) and tunnel.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### East Lansing WRRF

Submission ID. HPA-XEK3-KP507

Start Day	Start Time	End Day	End Time
8/12/2021	1:30:00 AM	8/12/2021	9:00 PM

Rain(in.) = 4.74  
Waterbody: Red Cedar River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**5.85000**

Cause: Sanitary sewer overflow to storm drain caused by heavy infiltration during large rain event.

EGLE Action: Long-term Control Program complete; controls included both sewer separation and construction of a retention treatment basin (RTB) and tunnel.

### East Lansing WRRF

Submission ID. HPA-XP1Y-3M7FG

Start Day	Start Time	End Day	End Time
8/12/2021	1:40:00 AM	8/12/2021	6:54 AM

Rain(in.) = 4.74  
Waterbody: Red Cedar River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.07480**

Cause: High discharge flow from the pump station surcharged the sewer causing the first two manholes to discharge onto the street.

Location: 721 Woodingham Drive - Woodingham Pump Station

EGLE Action: reviewed circumstances of event. No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** East Lansing WRRF

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.07480** **11.75000**

**Lansing WWTP**

**Lansing WWTP**

Submission ID. HP9-TCPK-JC4MQ

Start Day	Start Time	End Day	End Time
6/26/2021	7:40:00 PM	6/26/2021	8:50 PM

Rain(in.) = 5.18  
Waterbody: Grand River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.12600**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** Tecumseh River Road West of 2407 Tecumseh River Drive

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HP9-TCPK-JC4MQ

Start Day	Start Time	End Day	End Time	Rain(in.) = 5.18
6/26/2021	8:26:00 PM	6/26/2021	8:57 PM	Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00900**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** 1734 Boynton Drive

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HP9-TCPK-JC4MQ

Start Day	Start Time	End Day	End Time
6/26/2021	10:15:00 PM	6/27/2021	1:40 AM

Rain(in.) = 5.18

Waterbody: Sycamore Creek

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.18360**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** The intersection of Lowcroft Ave and W Mason St

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

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## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HP9-TCPK-JC4MQ

Start Day	Start Time	End Day	End Time
6/26/2021	11:25:00 PM	6/27/2021	1:49 AM

Rain(in.) = 5.18

Waterbody: Sycamore Creek

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.12960**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** The intersection of Lowcroft Ave and Bel Air Lane

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

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## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HP9-TCPK-JC4MQ

Start Day	Start Time	End Day	End Time
6/27/2021	12:15:00 AM	6/27/2021	1:45 AM

Rain(in.) = 5.18

Waterbody: Sycamore Creek

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.08100**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** West Cavanaugh Road Across From Everett High School

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPA-XREH-287TM

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.72
8/12/2021	3:39:00 AM	8/12/2021	3:49 AM	Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.81590**

Cause: Diluted raw sewage. Due to heavy rainfall, the plant was overwhelmed, and sewage flowed out from the screens in the Screen Building.

Location: 8

EGLE Action: Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPA-XREH-287TM

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.72
8/12/2021	4:41:00 AM	8/12/2021	6:34 AM	Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.03220**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** 1734 Boynton Drive

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPA-XREH-287TM

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.72
8/12/2021	4:45:00 AM	8/12/2021	7:00 AM	Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.24300**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** Tecumseh River Road West of 2407 Tecumseh River Road

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPB-0XZH-M9KNM

Start Day	Start Time	End Day	End Time
8/12/2021	6:37:00 AM	8/12/2021	8:45 AM

Rain(in.) = 3.72  
Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.11340**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential flooding. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** West St. Joseph Street, Just West of South Rosemary Street

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPA-XREH-287TM

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.72
8/12/2021	7:30:00 AM	8/12/2021	8:50 AM	Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.02280**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential basement flooding. Pump station not able to keep up. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** 1734 Boynton Drive

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPB-0XZH-M9KNM

Start Day	Start Time	End Day	End Time
8/12/2021	7:45:00 AM	8/12/2021	11:45 AM

Rain(in.) = 3.72

Waterbody: Sycamore Creek

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.21600**

**Cause:** Bypass pumping from a sanitary sewer manhole to a catch basin to alleviate residential flooding. Conditions exacerbated by inflow and infiltration from excessive rainfall.

**Location:** The intersection of East Holmes Road and South Cedar Street

**EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPA-XREH-287TM

Start Day	Start Time	End Day	End Time
8/12/2021	8:15:00 AM	8/13/2021	1:50 PM

Rain(in.) = 3.72  
Waterbody: Red Cedar River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**11.10900**

- Cause:** SSO was due to excess water in the system due to a heavy rainfall event. Discharge is from the Harton Street Equalization Basin. Flow into the basin passes through a swirl concentrator which returns heavier solids to the wet well. The basin also provides
- Location:** Harton Street Equalization Basin 007
- EGLE Action:** Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lansing WWTP

Submission ID. HPD-93FF-BHB76

Start Day	Start Time	End Day	End Time
11/16/2021	8:55:00 AM	11/20/2021	2:00 PM

Waterbody: Grand River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**7.77600**

Cause: Combined drinking water and sewage. SSO was due to a surge in the sewer system caused by a water main break concealed from the ground surface (no sink hole). Discharge was not disinfected. Only the surface water was impacted.

Location: 24

EGLE Action: Long-term Control Program being implemented; an Administrative Consent Order (ACO) with integrated plan requirements to correct CSO and SSO discharges. The ACO requires that core CSO correction be completed by December 31, 2032. The remaining CSO correction will be completed under the adaptive management approach. Adaptive management will consider lessons learned during the previous phase; a recalibrated hydraulic model and Wet Weather Control Plan update in 2023; green infrastructure; and includes appropriate revisions to correction projects specified for subsequent phases.

### Totals Lansing WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**20.85750**

### County Totals Ingham

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.07480**      **32.60750**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Ionia

### Lakewood WW Auth CM

#### Lakewood WW Auth CM

Submission ID. HP7-YNCM-D42D7

Start Day	Start Time	End Day	End Time
4/9/2021	11:40:00 AM	4/9/2021	2:00 PM

Waterbody: Tupper Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05600**

Cause: The old 12' pipe failed. We are currently in the process of replacing it with a larger pipe.

Location: Broken 12' Forcemain by 2465 Huddle Road

EGLE Action: No further actions taken at this time.

#### Lakewood WW Auth CM

Submission ID. HP9-V2QG-7P7DD

Start Day	Start Time	End Day	End Time
6/26/2021	5:25:00 PM	6/26/2021	10:22 PM

Waterbody: Woodland Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05940**

Cause: Due to Heavy Rainfall

Location: Lift Station 11- 5555 Woodland Road, Woodland MI. 48897

EGLE Action: None needed at this time. The LWA is currently undergoing collection improvement to address this capacity issue.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Jackson

Meijer Store 30

Meijer Store 30

Submission ID. HP7-KGPK-3T0R1

Start Day	Start Time	End Day	End Time
3/28/2021	7:00:00 PM	3/29/2021	2:30 PM

Waterbody: Hurd Marvin Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00500</b>		

Cause: Sanitary sewer backup led to discharge from sanitary manhole that migrated to a storm sewer catch basin.

Location: Meijer storm sewer

EGLE Action: Violation Notice issued.

Totals Meijer Store 30

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00500</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Napoleon Township Cm**

**Napoleon Township Cm**

Submission ID. HP8-066Z-1MPH9

Start Day	Start Time	End Day	End Time
3/25/2021	10:00:00 AM	3/25/2021	4:00 PM

Rain(in.) = 0.1

Waterbody: Big Olcott Lake

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00040**

Cause: Discharge was up through a gravel road edge. Some of the discharge seeped into a storm sewer line to lead to the lake. The 11/2inch pressurized discharge line from the residents grinder can had cracked at the connection point to the 3inch main line causi

EGLE Action: Required cleanup and sewer repairs. No further action taken

**Totals Napoleon Township Cm**

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00040**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Rives Township CM**

**Rives Township CM**

Submission ID. HPB-SA76-DE04E

Start Day	Start Time	End Day	End Time
9/16/2021	10:15:00 AM	9/20/2021	10:30 AM

Waterbody: Unnamed Marsh

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00056</b>		

Cause: 560 Gallons of Raw sewage spilled from clean out chamber on a 8" diameter forcemain impacting both land and water

Location: Rives Township 8" Diameter Force Main

EGLE Action: Violation Notice sent to address discharge

**Totals Rives Township CM**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00056</b>		

**County Totals Jackson**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00556</b>		<b>0.00040</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Kalamazoo

#### Gull Lake Sewer & Water Authority CM

#### Gull Lake Sewer & Water Authority CM

Submission ID. HP9-V3YD-E1YYV

Start Day	Start Time	End Day	End Time
6/26/2021	8:00:00 PM	6/27/2021	10:00 AM

Rain(in.) = 6

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01200**

Cause: Force Main failure due to H2S and corrosion. Only occurred when pumps were running between pump and haul from wet well.

EGLE Action: Event reviewed. Repairs made and event remediated.

#### Totals Gull Lake Sewer & Water Authority CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01200**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Kalamazoo CM

#### Kalamazoo CM

Submission ID. HP6-653T-H8WZD

Start Day	Start Time	End Day	End Time
1/31/2021	11:00:00 AM	1/31/2021	2:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00180**

Cause: Tree roots caused a blockage in the sewer main forcing a sanitary sewer overflow.

Location: Manhole 34-015

EGLE Action: No Additional Action Taken at this Time

#### Kalamazoo CM

Submission ID. HP7-CJY2-NHZ6Q

Start Day	Start Time	End Day	End Time
3/21/2021	10:15:00 AM	3/21/2021	11:30 AM

Waterbody: Arcadia Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00038**

Cause: Grease & Rags plugged sewer line causing an overflow of sewer manhole KC 19 -139.

Location: 4410 Lilac Lane

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Kalamazoo CM

Submission ID. HPA-N7SY-KJKCF

Start Day	Start Time	End Day	End Time
8/1/2021	3:05:00 PM	8/1/2021	4:00 PM

Waterbody: Spring Valley Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: Rags within the sanitary sewer system created a blockage creating an overflow incident.

Location: KC 11150

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

## Kalamazoo CM

Submission ID. HPB-9NSR-2SG2Y

Start Day	Start Time	End Day	End Time
8/27/2021	2:00:00 PM	8/27/2021	3:20 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: broken pipe

Location: KC-30-001

EGLE Action: Event reviewed. Actions taken appear to be adequate at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Kalamazoo CM

Submission ID. HPB-JYB4-34SSD

Start Day	Start Time	End Day	End Time
9/8/2021	10:00:00 AM	9/8/2021	10:15 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00018**

Cause: Loss of power to the lift station and a generator failed to start up due to a bad battery. Battery was replaced during investigation.

Location: 600 Block of Hay Mac-Parchment - Lift Station

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

### Kalamazoo CM

Submission ID. HPB-RFZB-E952F

Start Day	Start Time	End Day	End Time
9/14/2021	10:00:00 AM	9/16/2021	1:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00004**

Cause: Raw sewage being intermittently released from a broken sewer lateral due to construction activities.

Location: KC 15529

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Kalamazoo CM

Submission ID. HPC-ZPMJ-F39DY

Start Day	Start Time	End Day	End Time
11/4/2021	9:30:00 AM	11/4/2021	10:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Discharge was caused by tree roots in the sanitary sewer, which plugged the sewer, and caused overflow of manhole.

Location: Manhole KC28085

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

## Kalamazoo CM

Submission ID. HPE-1MR4-JHTMZ

Start Day	Start Time	End Day	End Time
12/17/2021	12:09:00 PM	12/17/2021	2:08 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Tree roots at immediate downstream pipe of manhole created a blockage creating an overflow incident.

Location: KC 33022

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

## Totals Kalamazoo CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00314**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Portage CM

### Portage CM

Submission ID. HPA-BMV5-HWREE

Start Day	Start Time	End Day	End Time
7/20/2021	10:00:00 AM	7/20/2021	10:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Cause: The overflow occurred from a root mass blocking the pipe and filling up the manhole until it overflowed.

Location: 4503 West Milham Avenue Portag, MI

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

### Portage CM

Submission ID. HPA-QE0Z-E20CJ

Start Day	Start Time	End Day	End Time
8/3/2021	3:15:00 PM	8/3/2021	3:45 PM

Waterbody: Private retention basin with no discharge (c

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Grease blockage in the gravity sewer main resulted in a sewer back-up that released wastewater from the manhole cover lid.

Location: 545 Romence Road

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Portage CM

Submission ID. HPB-7W5D-Y5NVQ

Start Day	Start Time	End Day	End Time
8/22/2021	9:30:00 PM	8/25/2021	3:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00150**

Cause:            A small hole in the bell of the 20" steel forcemain pipe.  
Location:        South Westnedge Avenue & Parkland Terrace  
EGLE Action:    Event reviewed and appears to be remediated. No further action taken at this time.

## Portage CM

Submission ID. HPE-3TTQ-2PW36

Start Day	Start Time	End Day	End Time
12/18/2021	6:00:00 PM	12/18/2021	10:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00950**

Cause:            There was a root mass in the 8" gravity sewer leading to the pump station that resulted in the sewer back-up and overflowing (seeping) from the manhole cover nearest the pump station.  
Location:        Quaker Avenue Lift Station  
EGLE Action:    Event reviewed and appears to be remediated. No further action taken at this time.

MG = million gallons  
CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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**Totals** Portage CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00163</b>		<b>0.00950</b>

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**County Totals** Kalamazoo

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.01677</b>		<b>0.00950</b>

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MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Kent

### Ada Township CM

#### Ada Township CM

Submission ID. HPE-BS4A-GR6MW

Start Day	Start Time	End Day	End Time
12/24/2021	8:00:00 AM	12/24/2021	5:00 PM

Rain(in.) = 2

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00010</b>		

Cause: Sewer Forced main under the North side of the roadway cracked and started to surface on the south side of the road.

Location: 5750 Hall Street Se

EGLE Action: No further action taken at this time

#### Totals Ada Township CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00010</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Algoma Township CM**

**Algoma Township CM**

Submission ID. HP7-D97R-4B9Y2

Start Day	Start Time	End Day	End Time
3/19/2021	10:00:00 AM	3/19/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:            This address is equipped with a grinder station. The 1 1/2" force main leaving the grinder station separated under ground about 80 feet from the can and around 20 feet before the main force main.

EGLE Action:    Reviewed initial phone notification and final report of discharge. Entity corrective action was satisfactory.

**Totals    Algoma Township CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Alpine Meadows MHC

#### Alpine Meadows MHC

Submission ID. HP9-VXTJ-54M0W

Start Day	Start Time	End Day	End Time
6/29/2021	6:00:00 PM	6/30/2021	8:00 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00010**

Cause: sewer line was backed up to tree roots, grease, and wipes. Sewage spilled out into the yards

EGLE Action: No further action at this time. Facility corrective action satisfactory.

#### Alpine Meadows MHC

Submission ID. HPA-7HSG-Y3RX3

Start Day	Start Time	End Day	End Time
7/10/2021	10:00:00 AM	7/12/2021	2:00 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00010**

Cause: The lines were blocked due to grease build up in the pipes.

EGLE Action: Reviewed the entity's corrective action and planned preventative measure to investigate the collection system in the area via camera. Entity's follow up is satisfactory at this point.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Alpine Meadows MHC

Submission ID. HPD-FB33-EXFBQ

Start Day	Start Time	End Day	End Time
11/23/2021	1:00:00 PM	11/23/2021	1:00 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00002**

Cause: Main sewer line was clogged due to heavy grease. plumbers jetted the line out 25ft to clear it

EGLE Action: No further action necessary at this time.

### Alpine Meadows MHC

Submission ID. HPD-YCRS-HZ1FK

Start Day	Start Time	End Day	End Time
12/12/2021	2:30:00 PM	12/12/2021	5:40 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00010**

Cause: main sewer line was clogged due to heavy grease,, feminine products, and wipes.

EGLE Action: No further EGLE action at this time.

### Totals Alpine Meadows MHC

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00020** **0.00012**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Alpine Township CM

#### Alpine Township CM

Submission ID. HP6-RSW7-MG7R9

Start Day	Start Time	End Day	End Time
2/23/2021	1:00:00 PM	2/23/2021	6:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01200**

**Cause:** A capped standpipe from a lift station force main broke. The standpipe is located off of the roadway. By looking at our metering system, it looks like the leak started after 1:00 pm on 2/23/2021. The SSO was reported to NKSA at 3:00 pm. NKSA staff shut th

**Location:** South of 3750 Fruit Ridge Ave NW

**EGLE Action:** Reviewed notification and discharge report. Facility reporting was timely and satisfactory. Follow up and corrective action was satisfactory.

#### Alpine Township CM

Submission ID. HP7-YHQ9-MWM6K

Start Day	Start Time	End Day	End Time
4/12/2021	6:00:00 PM	4/12/2021	6:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

**Cause:** Excessive grease built up in the wet well and caused the transducer not to read the water level in the wet well. The back-up alarm float was stuck on top of the floating grease and did not trigger the high water alarm.

**EGLE Action:** No further action taken at this time. Proposed corrective action is satisfactory.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Alpine Township CM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.01300**

**Byron Center Village MHC**

**Byron Center Village MHC**

Submission ID. HP7-R7NZ-TYACX

Start Day	Start Time	End Day	End Time
4/3/2021	6:42:00 PM	4/3/2021	9:00 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00010**

Cause: Sewer main at 8570 Troy and 3 nearby manholes backed up.

EGLE Action: Reviewed the report and discussed with the sewer system owner. No additional actions needed at this time. The sewer system owner has agreed to provide a follow up plan for increased maintenance/surveillance on the system.

**Totals** Byron Center Village MHC

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Caledonia Township CM-Kent Co

### Caledonia Township CM-Kent Co

Submission ID. HPA-KJG7-9WWA4

Start Day	Start Time	End Day	End Time
7/30/2021	2:15:00 PM	7/30/2021	2:35 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00009**

Cause:      Excel Excavating was working on the site for the development of a new commercial facility. While excavating adjacent to a sewer manhole, they came in contact with the 10" HDPE force-main. The force-main was taken out of service in September of 2015. Once

EGLE Action:      No further action necessary.

### Totals Caledonia Township CM-Kent Co

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00009**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Grand Rapids CM

#### Grand Rapids CM

Submission ID. HP6-1ERZ-HCCWP

Start Day	Start Time	End Day	End Time
1/25/2021	1:47:00 PM	1/25/2021	2:10 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause: Sewer line developed a blockage which backed up flow in the line enough for it to seep out of the pick hole in the cover of the manhole. About ten gallons were released. The CSAT was able to clean the manhole and jet the line to relieve the blockage and

Location: 16177

EGLE Action: None at this time

#### Grand Rapids CM

Submission ID. HP8-FZ9M-9E1EJ

Start Day	Start Time	End Day	End Time
5/5/2021	2:20:00 PM	5/5/2021	3:40 PM

Waterbody: Discharged directly to creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: Sanitary main broke

Location: 1731 Acacia Dr NW

EGLE Action: None needed at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Grand Rapids CM

Submission ID. HP9-WQQ6-7S6M0

Start Day	Start Time	End Day	End Time
7/1/2021	10:09:00 AM	7/1/2021	11:07 AM

Waterbody: catch basin

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: Bypass pumping hose failed to contain sewage

EGLE Action: None needed at this time

## Grand Rapids CM

Submission ID. HPA-1FKE-43H35

Start Day	Start Time	End Day	End Time
7/7/2021	1:20:00 PM	7/7/2021	3:05 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00000**

Cause: Sanitary main was backed up due to debris.

Location: 3250 N. Evergreen Drive

EGLE Action: None needed at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Grand Rapids CM

Submission ID. HPB-40SW-ZEHPC

Start Day	Start Time	End Day	End Time
8/20/2021	10:37:00 AM	8/20/2021	11:50 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00006**

Cause:            Obstruction in sewer. Jetted sanitary main and broke through blockage. Cleaned main. Removed 8" plug wedged in main (possibly left in by contractors at time of construction) at downstream side of Manhole 2628937. This was the cause of the SSO. Lime has

Location:        3924 Shaffer Ave SE

EGLE Action:    None needed at this time

### Grand Rapids CM

Submission ID. HPB-S700-VQ7SE

Start Day	Start Time	End Day	End Time
9/16/2021	8:33:00 AM	9/16/2021	8:53 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00060**

Cause:            During routine preventative maintenance of wetwell cleaning at this lift station, the debris body door on the vacor truck failed due to a loose solenoid. Upon the vacuum being shut off the door opened and spilled sewage into the street onto the asphalt.

Location:        Bona Vista

EGLE Action:    None needed at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Grand Rapids CM

Submission ID. HPC-203A-R9C1Q

Start Day	Start Time	End Day	End Time
9/27/2021	2:40:00 PM	9/27/2021	3:05 PM

Waterbody: pond

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Per SSO discharge report: Blockage of sewer main due to grease and rags caused 100 gallons of sewage to escape collection system and contaminate a dirt path and pond.

Location: Plaster Creek Trail

EGLE Action: None needed at this time

### Grand Rapids CM

Submission ID. HPD-ATZB-1R1FX

Start Day	Start Time	End Day	End Time
11/18/2021	1:40:00 PM	11/18/2021	1:50 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00002**

Cause: Discharge was caused by stick plugging the gravity sewer and causing a backup in the nearest manhole. The sewage seeped out the pick hole in the lid and made its way through the street to the closest storm drain. The CSAT responded and broke the main fr

Location: Sewer Basin Manhole

EGLE Action: None needed at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Grand Rapids CM**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00229**

**Grattan Township CM**

**Grattan Township CM**

Submission ID. HPB-66EM-CRGVQ

Start Day	Start Time	End Day	End Time
8/12/2021	2:00:00 PM	8/12/2021	2:30 PM

Waterbody: Murray Lake

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00005**

Cause: generator issue during 3 day power outage  
Location: GV PS#5  
EGLE Action: discharge report reviewed. No further action taken at this time

**Totals** **Grattan Township CM**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00005**

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Pinebrook Village MHC

#### Pinebrook Village MHC

Submission ID. HP7-42CS-RX87D

Start Day	Start Time	End Day	End Time
3/10/2021	10:00:00 AM	3/10/2021	4:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Cause: Sewer line backed up due paper blockage.

EGLE Action: Reviewed Report of Discharge and Initial report to PEAS line. Facility's reporting was timely, initial response/cleanup appeared appropriate, and facility stated plans to send educational notices to residents as a preventative measure. No further EGLE action at this time.

#### Pinebrook Village MHC

Submission ID. HP7-7VE7-AJ8PF

Start Day	Start Time	End Day	End Time
3/14/2021	4:52:00 PM	3/14/2021	7:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00004**

Cause: Roots and wipes at the riser.

EGLE Action: Reviewed the report and found facility follow up to be acceptable. No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Pinebrook Village MHC

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00007**

**Riverview Estates MHC**

**Riverview Estates MHC**

Submission ID. HP6-M7T7-CG4CB

Start Day	Start Time	End Day	End Time
2/11/2021	12:00:00 AM	2/11/2021	12:00 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.01000**

Cause: Down to one pump from previous failures and pump clogged.

Location: Riverview MHC Subsurface Disposal Field

EGLE Action: addressed by Violation Notice

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Riverview Estates MHC

Submission ID. HP6-M7ZX-9R5JN

Start Day	Start Time	End Day	End Time
2/13/2021	12:00:00 AM	2/13/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01000**

Cause:            The pumps are not keeping up with flow. It appears that the problems lies in the drain field but is unknown at this time. We are waiting for approval from the owners to investigate further. They have hired a third party engineering firm to help troublesho

Location:        Riverview MHC Subsurface Disposal Field

EGLE Action:    Discussed ongoing issues with contractor and issued VN to owner

### Riverview Estates MHC

Submission ID. HP6-RVSD-564MN

Start Day	Start Time	End Day	End Time
2/23/2021	12:00:00 AM	2/23/2021	10:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01000**

Cause:            Rags had plugged off the selecting valves in the drain field. This caused the effluent chamber to overflow.

Location:        Riverview MHC Subsurface Disposal Field

EGLE Action:    discussed ongoing discharges and issued VN

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals Riverview Estates MHC**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.03000**

**Southwood Village MHC**

**Southwood Village MHC**

Submission ID. HPE-66XG-H1CSB

Start Day	Start Time	End Day	End Time
12/23/2021	12:00:00 PM	12/23/2021	2:00 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00001**

Cause: Resident had a plumbing issue, and needed to get the damaged plumbing repaired

EGLE Action: No further actions required at this time.

**Totals Southwood Village MHC**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00001**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Wyoming CM

### Wyoming CM

Submission ID. HPD-DWT1-DA3SK

Start Day	Start Time	End Day	End Time
11/21/2021	3:30:00 PM	11/21/2021	5:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Location: Wilson Ave SW

EGLE Action: A 8" sanitary force main ruptured, causing sewage to bubble up to the surface of Wilson Avenue whenever the wet well pump turned on. Pump turns on every 30 minutes for 4 minute intervals. Estimated 3 cycles prior to discovery and remediation. A minor amount bubbled to surface and ran (2" stream) into the nearest catch basin.

### Totals Wyoming CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

### County Totals Kent

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01586      0.03003      0.00020**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Lake

### Yates Township CM

#### Yates Township CM

Submission ID. HPD-OHRD-6AKXD

Start Day	Start Time	End Day	End Time
11/2/2021	10:00:00 AM	11/2/2021	10:30 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00002</b>	

Location: Duvernay Apartments lift station

EGLE Action: A blown relay caused a breaker to trip resulting in loss of power to pumps and auto dialer.

#### Totals Yates Township CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00002</b>	

#### County Totals Lake

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00002</b>	

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Lapeer

Metamora WWSL

Metamora WWSL

Submission ID. HPA-QATD-VR7WA

Start Day	Start Time	End Day	End Time
8/3/2021	4:30:00 PM	8/3/2021	5:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Sewage overflowed the manhole due to a grease / rag blockage down stream

Location: Man Hole #46.

EGLE Action: No further actions taken at this time

Totals Metamora WWSL

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

County Totals Lapeer

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Leelanau

Leland Township CM

Leland Township CM

Submission ID. HP7-8RY7-0W89Z

Start Day	Start Time	End Day	End Time
3/16/2021	9:15:00 AM	3/17/2021	11:00 AM

Rain(in.) = 3

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00010**

Cause: We excavated the area and found that the discharge was seeping from the lid of an air release valve chamber. The lid was approximately 2 inches under the surface of the soil. The air release valve in the chamber is leaking when the pumps at the lift stati

EGLE Action: Follow up with Tom who filed the SSO Report and asked that they contact the LHD to make sure no wells were effected, This was done and no wells were within the minimum isolation distance for the force main. No further action taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Leland Township CM

Submission ID. HP8-AC61-33RAW

Start Day	Start Time	End Day	End Time
4/28/2021	10:30:00 AM	4/28/2021	11:30 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00004</b>	

Cause: The discharge occurred when maintenance personnel from the property began working on digging up the curb box because it was a potential tripping hazard. As they were digging, the curb box standpipe was bumped or pried on causing the connection there to be

Location: In gravel walkway of the Cheese Shop at 205 River St.

EGLE Action: EGLE worked with the WWTP operator to make sure that all the important actions were taken and important details are included in the SSO report. No further action taken at this time

## Totals Leland Township CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.00004</b>	<b>0.00010</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Northport Pointe WWTP

#### Northport Pointe WWTP

Submission ID. HP9-T938-911HA

Start Day	Start Time	End Day	End Time
6/28/2021	10:00:00 AM	6/30/2021	11:15 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: A small amount of partially treated (septic tank effluent) wastewater from the collection system that services Northport Point. The leak was from a new curb stop connection that had a threaded connection that was not fully tightened at the time of constr

EGLE Action: If time permits, EGLE will determine if the incomplete installation was performed under a Part 41 permit and if so EGLE will contact the permittee and advise them that the permit may have been violated if FM was not pressure tested as suggested by the operator.

#### Totals Northport Pointe WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Northport/Leelanau Township Utilities Authority CM**

**Northport/Leelanau Township Utilities Authority CM**

Submission ID. HP8-B4CT-YFSZS

Start Day	Start Time	End Day	End Time
4/28/2021	4:00:00 PM	4/29/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: See attached letter in additional details.

Location: Public land

EGLE Action: No action is necessary given that the cause of this leak cannot be repeated as the leaking connection was removed and given that the WWTP operator and Northport did all the right things in their response to the leak.

**Totals Northport/Leelanau Township Utilities Authority CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

**County Totals Leelanau**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050      0.00054      0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Lenawee

### Adrian WWTP

#### Adrian WWTP

Submission ID. HPA-HRDF-8M8SG

Start Day	Start Time	End Day	End Time
7/24/2021	11:00:00 PM	7/25/2021	12:00 AM

Rain(in.) = 1.25  
Waterbody: South Branch River Raisin

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.02000</b>

Cause: discharge of diluted raw sewage due to equipment failure. Power outage, transfer switch failed at startup of generator.

Location: Broad St pump station

EGLE Action: Violation Notice sent to address discharge

#### Adrian WWTP

Submission ID. HPB-YHRC-RMB8C

Start Day	Start Time	End Day	End Time
9/23/2021	1:05:00 AM	9/23/2021	2:22 AM

Waterbody: South Branch River Raisin

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00077</b>

Cause: heavy rain event

Location: E04WI011

EGLE Action: Violation Notice sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Adrian WWTP

Submission ID. HPB-YHRC-RMB8C

Start Day	Start Time	End Day	End Time
9/23/2021	1:36:00 AM	9/23/2021	6:34 AM

Waterbody: South Branch River Raisin

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.03000**

Cause: heavy rain event

Location: G03BI006

EGLE Action: Violation Notice sent to address discharge

### Totals Adrian WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05077**

### County Totals Lenawee

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05077**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Livingston

### Brighton Twp WWTP

#### Brighton Twp WWTP

Submission ID. HP5-SCWC-1AN8D

Start Day	Start Time	End Day	End Time
1/14/2021	11:00:00 AM	1/14/2021	3:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00010**

Cause: At 2:00 PM on January 14, 2021, the WWTP received a call from personnel at the business located at 8281 Grand River in Brighton Michigan. They reported that the alarm and light on the grinder station was on and water was coming out of the duplex grinder s

Location: 8281 Grand River

EGLE Action: Issued VN-011470

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Brighton Twp WWTP

Submission ID. HP6-6PQ0-G9N4P

Start Day	Start Time	End Day	End Time
1/31/2021	8:00:00 AM	1/31/2021	10:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: At 8:20 AM, on January 31, 2021, we received a call on the Brighton Township emergency phone from a resident at 8400 block of Woodland Shore Drive in Brighton, Michigan. The resident reported that there was sewage gushing up in his driveway. We responded

EGLE Action: Issued CC-003137

### Brighton Twp WWTP

Submission ID. HP7-3RVS-E8ZD6

Start Day	Start Time	End Day	End Time
3/2/2021	9:00:00 PM	3/3/2021	1:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: Wastewater was discharged from a cleanout at the Woodland Shore location. A piece of plastic pipe became lodged in the main sewer line at Vista View and Tim. Wastewater that backed up came out of the cleanout.

EGLE Action: reviewed circumstances of event. No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals Brighton Twp WWTP**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00110**

**Brighton Village MHP CM**

**Brighton Village MHP CM**

Submission ID. HPD-QDCY-5D9RY

Start Day	Start Time	End Day	End Time
11/29/2021	3:00:00 PM	12/4/2021	10:00 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00070**

Cause: sewage discharge to the surface area between the sites due to a clog in the sanitary lateral. The community manager failed to notify their supervisor or his assistant of the issue before leaving on vacation.

EGLE Action: The discharge event is currently under review by the department

**Totals Brighton Village MHP CM**

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00070**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Deerfield Township CM

#### Deerfield Township CM

Submission ID. HPB-BWDX-8T8SW

Start Day	Start Time	End Day	End Time
8/27/2021	8:53:00 PM	8/27/2021	9:30 PM

Rain(in.) = 2.06

Waterbody: Lobdell Lake

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00008**

Cause: Heavy intense rain flushed wipes and rags into pump station wet well. Wipes and rags nested around and plugged wetwell level bubbler indicator. Pumps went air bound because the station failed to shut off with level indicator plugged.

Location: 6484 Bennett Lake Road, Linden, MI

EGLE Action: reviewed circumstances of discharge. No further action taken at this time

#### Totals Deerfield Township CM

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00008**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Genoa Twp-Lake Edgewood WWTP**

**Genoa Twp-Lake Edgewood WWTP**

Submission ID. HP8-5KMT-FTC3V

Start Day	Start Time	End Day	End Time
4/21/2021	4:27:00 PM	4/21/2021	8:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00025**

Cause:            Facility operator stated a broken line lead to discharge of raw sewage to ground.

Location:        Residential Ditch

EGLE Action:    No further action taken at this time

**Totals    Genoa Twp-Lake Edgewood WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00025**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Hamburg Township CM

#### Hamburg Township CM

Submission ID. HP6-M93E-YPFCC

Start Day	Start Time	End Day	End Time
2/17/2021	10:00:00 AM	2/17/2021	2:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00200**

Cause: A bolt came loose from a valve in a manhole which caused the sewer line to leak. Less than 2000 gallons escaped.

EGLE Action: Violation Notice sent to address discharges

#### Hamburg Township CM

Submission ID. HP9-7D5S-N9MBJ

Start Day	Start Time	End Day	End Time
6/1/2021	7:00:00 PM	6/2/2021	1:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause: Facility operator stated a valve failed in a manhole causing the leak.

Location: Manhole in Elmira St

EGLE Action: Violation Notice sent to address discharges

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Hamburg Township CM

Submission ID. HPA-V70M-7YHTR

Start Day	Start Time	End Day	End Time
8/4/2021	8:00:00 AM	8/4/2021	10:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00300**

Cause: Facility stated: "Air Relief valve failed in manhole"

Location: Manhole on Rustic Dr.

EGLE Action: Violation Notice sent to address discharges

## Hamburg Township CM

Submission ID. HPB-F33G-024BP

Start Day	Start Time	End Day	End Time
8/21/2021	12:00:00 PM	8/23/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: Facility stated: "A failed check valve caused the sewer line to leak when the grinder pump cycled. A small amount of sewage may have gone into; a storm drain that goes to the lake but its not likely"

Location: Broken Check Valve

EGLE Action: Violation Notice sent to address discharges

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Hamburg Township CM

Submission ID. HPC-G2SG-8FK1H

Start Day	Start Time	End Day	End Time
9/29/2021	11:00:00 AM	9/30/2021	11:00 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00300**

Cause: A failed check valve caused the sewage to leak out of a curb stop

EGLE Action: Violation Notice sent to address discharges

## Hamburg Township CM

Submission ID. HPC-NE6X-4N3QT

Start Day	Start Time	End Day	End Time
10/15/2021	9:00:00 AM	10/15/2021	11:00 AM

Rain(in.) = 0.5

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00100**

Cause: Failed check valve caused the sewage to leak out of a curb stop

EGLE Action: Violation Notice sent to address discharges

## Totals Hamburg Township CM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00311 0.00600**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Howell CM

#### Howell CM

Submission ID. HP9-X9NP-XFTTE

Start Day	Start Time	End Day	End Time
6/28/2021	6:15:00 PM	6/28/2021	9:40 PM

Rain(in.) = 4.88

Waterbody: Marion Genoa Drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.02100**

Cause: The Wastewater Treatment Plant recorded 3.88 inches of rain from Thursday through Sunday. The increase in flow at the plant maxed out our 900,000-gallon storage tank causing a Sanitary Sewer Overflow to occur on Pulford Street. The Plant recorded another

Location: Marion Genoa Drain

EGLE Action: No actions taken

#### Totals Howell CM

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.02100**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Howell WWTP

#### Howell WWTP

Submission ID. HPC-7Y2V-MW6Q4

Start Day	Start Time	End Day	End Time
8/12/2021	2:00:00 AM	8/13/2021	7:45 AM

Rain(in.) = 5.1

Waterbody: Marion Genoa Drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.50700**

Cause: The Wastewater Treatment Plant recorded 5 inches of rain on Thursday morning. The increase in flow at the plant maxed out our 900,000-gallon storage tank causing a Sanitary Sewer Overflow to occur on Pulford Street. The discharge flowed over the street an

Location: Marion Genoa Drain

EGLE Action: No further action taken at this time

#### Totals Howell WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.50700**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Livingston County Drain Commission

### Livingston County Drain Commission

Submission ID. HP9-7EQE-V06G3

Start Day	Start Time	End Day	End Time
6/2/2021	8:00:00 AM	6/2/2021	11:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: Discharge caused by pinhole in bottom of the sewer main.

EGLE Action: No further action taken

### Livingston County Drain Commission

Submission ID. HPC-04NC-HJNY3

Start Day	Start Time	End Day	End Time
9/24/2021	10:00:00 AM	9/24/2021	12:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: Discharge occurred due to a leak on the valve assembly that resulted from a surge following a power outage.

EGLE Action: Reviewed circumstances of event. No further actions taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Livingston County Drain Commission

Submission ID. HPD-FDK9-W3NJE

Start Day	Start Time	End Day	End Time
11/23/2021	3:30:00 PM	11/23/2021	5:30 PM

Waterbody: wetlands on east and west sides of US-23, s

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.04000**

Cause: Discharge resulted from a forcemain cleanout pipe that disconnected from the sewer main. Tributary pump stations were shut down to prevent further sewage from pumping to the location. The LCDC vactor truck and septage haulers pumped out the sewage onsite

Location: Old US-23 and Faussett Rd, Tyrone Township

EGLE Action: EGLE has reviewed the report. No further actions taken at this time.

### Totals Livingston County Drain Commission

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.04050**

### County Totals Livingston

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.04566      0.00600      0.52808**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Mackinac

### Clark Twp WWSL

#### Clark Twp WWSL

Submission ID. HP6-N1ZQ-3V64E

Start Day	Start Time	End Day	End Time
2/19/2021	12:00:00 AM	2/19/2021	9:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00120**

Cause: morning of 2/19/21 Lift station pump # 1 motor failed. Pump #2 quit running because of an over heat condition. phone dialer failed to call out. Water filled up the wet well and was flowing out of the man hole of the wet well. Local resident called to let

Location: lift station # 4

EGLE Action: Follow up with facility operator regarding maintenance practices at lift stations.

#### Totals Clark Twp WWSL

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00120**

#### County Totals Mackinac

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00120**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Macomb

#### Center Line CM

#### Center Line CM

Submission ID. HPA-XR3S-GEQ3W

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.9
8/12/2021	6:43:00 AM	8/12/2021	10:51 AM	Waterbody: Lorraine Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.38058**

**Cause:** The City of Center Line DPW was notified via SCADA alarm of a high wet well level at the Stephens Sanitary Pump Station which is the outlet for the City's entire sanitary sewer collection system. The high wet well level was in response to a large rain ev

**Location:** Stephens Drain

**EGLE Action:** Under Third Amended Administrative Consent Order No. ACO-05493, the city is scheduled to analyze their sewerage system and upgrade it as necessary to comply with the SSO Policy. Under paragraph 3.13 of this ACO, completion of construction is scheduled for March 31, 2028.

#### Totals Center Line CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.38058**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## New Haven CM

### New Haven CM

Submission ID. HP7-3ZQK-2Z8FR

Start Day	Start Time	End Day	End Time
3/2/2021	1:00:00 PM	3/4/2021	3:00 PM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00010</b>		

Cause: BLOCKAGE IN SEWER LINE. OVERFLOW OF MANHOLE

EGLE Action: Sent a Violation Notice

### Totals New Haven CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00010</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Warren WWTP

#### Warren WWTP

Submission ID. HPA-AXA0-47QVZ

Start Day	Start Time	End Day	End Time
7/16/2021	2:30:00 PM	7/16/2021	10:00 PM

Rain(in.) = 2.21

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**2.30000**

Cause: New Pipe joint separated under pressure from rain storm.

Location: New Detention Basin

EGLE Action: No further action at this time. City took actions to prevent re-occurrence.

#### Warren WWTP

Submission ID. HPA-XXHH-89BOG

Start Day	Start Time	End Day	End Time
8/12/2021	7:00:00 AM	8/12/2021	12:00 PM

Rain(in.) = 2.42

Waterbody: schoenner drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.12000**

Cause: Still investigating. Surge in sewer line. Possible blockage in East trunk. Plan on cleaning sewer line.

Location: 9 mile

EGLE Action: The NPDES permit contains schedule to eliminate blending at the WWTP and collection system SSOs

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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Totals	Warren WWTP	Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
				<b>2.42000</b>

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County Totals	Macomb	Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00010</b>		<b>4.80058</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Manistee

### Manistee CM

#### Manistee CM

Submission ID. HPA-7QHG-M5422

Start Day	Start Time	End Day	End Time
7/15/2021	2:00:00 AM	7/15/2021	9:30 AM

Rain(in.) = 3.37  
Waterbody: Manistee Lake

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.84100</b>

Cause: Hydraulic overload of collection system.

Location: 18

EGLE Action: EGLE is working with City to implement storage/treatment of wet weather flows

#### Manistee CM

Submission ID. HPA-AW3S-TM23C

Start Day	Start Time	End Day	End Time
7/15/2021	9:30:00 AM	7/15/2021	10:45 AM

Rain(in.) = 3.37  
Waterbody: Manistee Lake

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.06750</b>

Cause: Main 36" interceptor that feeds the wastewater treatment plant was undermined on the construction site due to high rains. 36" pipe was exposed and fear was that of losing the pipe to cave-in. Emergency by-pass pumping was set up one block west of the da

Location: Storm sewer intersection of 8th Street and High Street, City of Manistee

EGLE Action: EGLE is working with City to implement storage/treatment of wet weather flows

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Manistee CM

Submission ID. HPB-AANZ-APAEA

Start Day	Start Time	End Day	End Time
8/28/2021	1:20:00 AM	8/28/2021	7:30 PM

Rain(in.) = 2.4  
Waterbody: Manistee Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.15300**

Cause: Hydraulic overload of collection system.

Location: 18

EGLE Action: Plant is constructing wet weather holding tanks to handle hydraulic overloads.

### Manistee CM

Submission ID. HPB-AY8Z-GA1TQ

Start Day	Start Time	End Day	End Time
8/29/2021	3:20:00 AM	8/29/2021	11:30 PM

Rain(in.) = 1.1  
Waterbody: Manistee Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.04000**

Cause: Hydraulic overload of collection system.

Location: 18

EGLE Action: Plant is constructing wet weather holding tanks to handle hydraulic overloads.

### Totals Manistee CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**3.10150**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Manistee Township CM**

**Manistee Township CM**

Submission ID. HPE-EZQC-PGG0J

Start Day	Start Time	End Day	End Time
12/31/2021	11:18:00 AM	12/31/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

Cause: Force Main Sewer Break at Fusion Coupling 2 areas where sewage surfaced. This point is where the breakage occurred, other area it is our estimation sewage traveled along the pipe and came out 50 south and west along Chippewa Hwy from the fusion coupling b

Location: ROW

EGLE Action: Reviewed SSO event with operator. No further actions taken at this time.

**Totals Manistee Township CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

**County Totals Manistee**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**3.10750**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Marquette**

**Chocolay Township CM**

**Chocolay Township CM**

Submission ID. HPD-0K8M-KNM6H

Start Day	Start Time	End Day	End Time
11/5/2021	3:30:00 PM	11/5/2021	3:31 PM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00002</b>

Cause: The discharge by-pass pipe leaked during the new construction of our Lift Station 5.

Location: Lift Station 5

EGLE Action: Contractor Bypass piping leak was repaired to stop leak.

**Totals Chocolay Township CM**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00002</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**KI Sawyer WWTP-Marquette Co**

**KI Sawyer WWTP-Marquette Co**

Submission ID. HP6-YDP4-VW1AN

Start Day	Start Time	End Day	End Time
3/2/2021	5:00:00 PM	3/3/2021	12:00 PM

Rain(in.) = 0

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.04000**

Cause: Flushable and or non flushable wipes built up on suspected tree roots in sewer main caused a sewer backup.

Location: Sanitary Sewer Overflow Northeast of Little Trout Lake

EGLE Action: Discussed incident with the WWTP / Collection System Superintendent. Investigative actions to be taken are deemed appropriate.

**Totals KI Sawyer WWTP-Marquette Co**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.04000**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Marquette CM

#### Marquette CM

Submission ID. HP7-P1RM-W4B1E

Start Day	Start Time	End Day	End Time
4/2/2021	11:45:00 AM	4/2/2021	1:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Cause:            A sewer line became plugged with flushable wipes Sewage backed up out of a manhole in the backyard.

EGLE Action:    Discussed flushable wipe PSA campaign with City staff.

#### Marquette CM

Submission ID.    HP8-N8NR-95RCC

Start Day	Start Time	End Day	End Time
5/11/2021	3:52:00 PM	5/11/2021	4:50 PM

Waterbody: Whetstone Brook

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause:            A large amount of rags, grease, and some roots blocked the sewer allowing manhole #2018 to surcharge.

Location:        Marquette Township sewer that passes through the City

EGLE Action:    EGLE staff discussed increased frequency of root cutting / jetting this stretch of sewer with City staff. This preventative measure would address concerns for a repeat occurrence and reduces risk given the immediate proximity of sanitary sewer to Whetstone Brook.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Marquette CM

Submission ID. HPC-ZJ09-V09DK

Start Day	Start Time	End Day	End Time
11/3/2021	1:20:00 PM	11/3/2021	2:00 PM

Waterbody: Orianna Brook

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Sewer Line was plugged with sand and sludge. This allowed 50 gallons to backup out of the manhole. Some of the sewage did get into the storm water collection system.

Location: Corner of Hampton and South Front.

EGLE Action: City to prioritize televising and relining/replacement of this run of sewer in 2022.

## Totals Marquette CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00028**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Midland

#### Dow Silicones Corporation-Midland Site

#### Dow Silicones Corporation-Midland Site

Submission ID. HPA-6XRQ-RAFMJ

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.25
7/13/2021	3:09:00 PM	7/13/2021	3:19 PM	

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

- Cause:** Process wastewater manhole MH-26-26 was overflowing from the lid into storm sewer catch basin CB-26-4. The flow stopped coming out of the lid on MH-26-26 around 3:19 pm. The overflow was a mix of wastewater and rain water. The estimated flow was around 5-
- Location:** Wastewater manhole MH-26-26 overflowed from the lid into a storm sewer catch basin CB-26-4
- EGLE Action:** Violation notice issued

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Dow Silicones Corporation-Midland Site

Submission ID. HPA-G82C-4KXM2

Start Day	Start Time	End Day	End Time
7/24/2021	6:20:00 PM	7/24/2021	6:44 PM

Rain(in.) = 1.25

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.00010**

Cause: Process wastewater was overflowing from wastewater sewer manhole at the south end of the 400 block. The overflow was a mix of suspected wastewater and rain water. Was discovered at 6:20 PM on 7/24/21. The co-mingled suspected wastewater/storm water ente

Location: Wastewater sewer manhole overflow at the south end of the 400 block

EGLE Action: Violation notice issued

## Dow Silicones Corporation-Midland Site

Submission ID. HPB-DGZ1-EJ5R8

Start Day	Start Time	End Day	End Time
8/29/2021	4:00:00 AM	8/29/2021	6:45 AM

Rain(in.) = 1

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.00175**

Cause: Due to a rain event of 1 inch in less than 1 hour, storm water levels were elevated onsite. An unplanned site air outage also potentially impacted the scrubber operation and is being investigated for possible corrective actions. Process wastewater was o

Location: Wastewater sewer overflow near 325 building

EGLE Action: Violation Notice issued. Require follow up to progress on long term corrective measures to eliminate wet weather impact on wastewater management and provide a plan for completion.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Dow Silicones Corporation-Midland Site

Submission ID. HPD-57RN-7MMP5

Start Day	Start Time	End Day	End Time
11/10/2021	2:00:00 PM	11/10/2021	4:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:            During fire truck flow testing at 800 block a manhole down stream in the C street sewer system overflowed on Dow Property to gravel and storm drain. The overflowed wastewater entered the onsite storm sewer, but was diverted before the inlet to the 4705 s

Location:        Wastewater sewer overflow on C road near 800 block

EGLE Action:    No further action taken. Event was isolated and contained and the facility is committed to preventing future events.

### Totals Dow Silicones Corporation-Midland Site

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00201**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Midland WWTP

#### Midland WWTP

Submission ID. HP8-T06Q-GBWVQ

Start Day	Start Time	End Day	End Time
5/17/2021	10:30:00 AM	5/17/2021	3:00 PM

Waterbody: Snake Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: City Sanitary line was flowing slowly (partial plug), a pressurized discharge from a neighboring building caused the line to surcharge and come out of the manhole and flow onto the street.

Location: Snake Creek

EGLE Action: VN to be issued

#### Midland WWTP

Submission ID. HPC-YQTW-PW4EW

Start Day	Start Time	End Day	End Time
11/1/2021	11:00:00 AM	11/1/2021	1:00 PM

Waterbody: Tittabawasee River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00240**

Cause: 2 small perforation leaks in a raw sewage forcemain

Location: Tittabawasee River

EGLE Action: Violation notice issued.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Midland WWTP**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00340</b>		

**County Totals** **Midland**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00340</b>		<b>0.00201</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Missaukee

#### Ebels Family Center

#### Ebels Family Center

Submission ID. HP7-02QN-CRT5C

Start Day	Start Time	End Day	End Time
3/5/2021	5:15:00 AM	3/5/2021	5:45 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: One of our pump stations check valves failed, pump #1. This resulted in pump #2 recirculating back through pump #1. Discharge consisted primarily of wash water mixed with animal blood as the animal harvest room was being cleaned at the time.

Location: Storm water basin

EGLE Action: No further action taken at this time

#### Totals Ebels Family Center

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

#### County Totals Missaukee

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Monroe**

**DECO-Fermi-2 Plt**

**DECO-Fermi-2 Plt**

Submission ID. HP7-MFYW-HGYTG

Start Day	Start Time	End Day	End Time
3/30/2021	10:58:00 AM	3/30/2021	11:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

**Cause:** During routine pump down activities from the site's equalization basin to a sanitary system manhole there was a backflow from the sanitary system to the environment (nearby grassy area). The overflow, which was approximately 150 gallons, was reportable to

**Location:** Fermi 2 Power Plant

**EGLE Action:** Reviewed and closed report. No further action at this time.

**Totals** **DECO-Fermi-2 Plt**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Monroe Metro WWTP**

**Monroe Metro WWTP**

Submission ID. HPA-JPNP-VARX3

Start Day	Start Time	End Day	End Time
7/25/2021	1:00:00 PM	7/25/2021	7:15 PM

Rain(in.) = 2.58

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05000**

Cause: Heavy rain (~2.5" in less than 1 hour) impacted the service area causing the station to reach pumping capacity. The collection system upstream of the station was surcharged and diluted raw sewage pushed up around the manhole cover

Location: Sunset Blvd

EGLE Action: E. coli testing and caution tape requested. No further action taken at this time

**Totals Monroe Metro WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.05000**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rockwood WWTP

#### Rockwood WWTP

Submission ID. HP9-NEAB-NBZ4X

Start Day	Start Time	End Day	End Time
6/21/2021	4:30:00 AM	6/21/2021	1:00 PM

Rain(in.) = 3.46

Waterbody: Huron River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.73920**

Cause: Diluted raw sewage was chlorinated. The reason for the discharge was to prevent basement backups and property damage within the City.

Location: EQ Tank Overflow

EGLE Action: The City of Rockwood submitted a Part 41 permit application to increase the volume of their equalization basin. This is under review by EGLE.

#### Totals Rockwood WWTP

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.73920**

#### County Totals Monroe

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.78935**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Muskegon

### Muskegon Co WWMS Metro WWTP

#### Muskegon Co WWMS Metro WWTP

Submission ID. HP6-SSH9-XJDE5

Start Day	Start Time	End Day	End Time
2/20/2021	8:30:00 AM	2/20/2021	3:08 PM

Rain(in.) = 1

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00320**

Cause: Raw sewage leaked from an air-vac valve that had malfunctioned and came up from a manhole. The manhole was on the White Lake Pathway trail.

Location: White Lake Pathway (trail) at approximately 43.40915221110049, -86.34947300934107, in Whitehall, MI

EGLE Action: No futher action required.

#### Muskegon Co WWMS Metro WWTP

Submission ID. HPC-K87J-TD7DV

Start Day	Start Time	End Day	End Time
7/12/2021	12:00:00 AM	10/12/2021	4:05 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: Sewage leaked from a broken air-vac valve in a residential lot in the City of Muskegon.

EGLE Action: Noted report and acknowledged future prevented maintenance. No further action taken

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Muskegon Co WWMS Metro WWTP

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00350**

**County Totals** Muskegon

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00350**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Newaygo

#### Hesperia WWTP

#### Hesperia WWTP

Submission ID. HP9-0D32-7XK57

Start Day	Start Time	End Day	End Time
5/24/2021	7:00:00 AM	5/24/2021	7:30 AM

Rain(in.) = 0.01  
Waterbody: White River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00025**

Cause: Lift station failure caused manhole to backup at 160 W. Michigan Avenue. the manhole is recessed and between the lift station and the roadway. there is a storm drain located on the far side of the road. Although there was no evidence that the discharge h

Location: 160 W. Michigan Ave Hesperia Michigan

EGLE Action: No further action taken at this time

#### Totals Hesperia WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00025**

#### County Totals Newaygo

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00025**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

Oakland

Belle-Ann Falls

Belle-Ann Falls

Submission ID. HPA-YJ00-2BWJG

Start Day	Start Time	End Day	End Time
8/13/2021	9:45:00 AM	8/13/2021	1:15 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: The lift station that collects sanitary flow from six homes pumps the flow to a disposal bed. The pumps were without power due to a power loss most likely caused by the storm on August 11, 2021. We received a call at 9:45 am on August 13, 2021 that flow

Location: Kearsley Creek

EGLE Action: Violation Notice Sent

Totals Belle-Ann Falls

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Bloomfield Township CM

### Bloomfield Township CM

Submission ID. HP5-KA1S-AW39Z

Start Day	Start Time	End Day	End Time
1/7/2021	8:00:00 AM	1/7/2021	10:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: Unaffiliated contractor was boring communication lines and bored through sewer in multiple areas. Sewage was discharged to the adjacent land surface. No solids present.

EGLE Action: sewer repairs were completed 01/09/2021

### Totals Bloomfield Township CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### City of Troy

#### City of Troy

Submission ID. HP9-T7RN-6M8P3

Start Day	Start Time	End Day	End Time
6/25/2021	8:15:00 PM	6/26/2021	2:00 PM

Rain(in.) = 4  
Waterbody: Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.98010**

Cause: Evergreen Farmington Sanitary System was surcharged and could accept any flow from the City of Troy sanitary sewer system

Location: Evergreen Farmington sanitary sewer district

EGLE Action: Event exceed remedial design standard

#### City of Troy

Submission ID. HPA-JNRV-Y9DGV

Start Day	Start Time	End Day	End Time
7/24/2021	10:15:00 PM	7/25/2021	12:15 AM

Rain(in.) = 3  
Waterbody: Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.12000**

Cause: Evergreen Farmington sewer was surcharged and provided no capacity to accept flow from the City of Troy

Location: Evergreen Farmington drainage district

EGLE Action: Community Under ACO to address SSO in the EFSDS

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** City of Troy

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.10010**

**Commerce Township CM**

**Commerce Township CM**

Submission ID.      HP6-RZC6-Z6PS6

Start Day	Start Time	End Day	End Time
2/24/2021	11:30:00 AM	2/24/2021	12:30 PM

Waterbody: Wetland tributary to Minnow Pond drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:      Private grinder pump (lift station) was clogged with grease. Whenever pump turned on, overflow would occur. Structure # COT100-503

EGLE Action:      Compliance action taken to address this SSO. Compliance communication sent on 14 APR 2021

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Commerce Township CM

Submission ID. HPA-8AZ8-AGSWB

Start Day	Start Time	End Day	End Time
7/15/2021	5:00:00 PM	7/16/2021	12:30 PM

Waterbody: Lower Straits Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:            The discharge is weeping through the pavement on the east curb of Union Lake Rd south of Bywater. A 2 inch grinder pump line appears to be broken. The discharge appears to be < 5 gallons an hour with intermittent grinder pump use (which nearby resident h

Location:        Grinder pump force main

EGLE Action:    No further action.

### Commerce Township CM

Submission ID. HPA-8AZ8-AGSWB

Start Day	Start Time	End Day	End Time
7/15/2021	5:00:00 PM	7/16/2021	12:30 PM

Waterbody: Middle Straits Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:            The discharge is weeping through the pavement on the east curb of Union Lake Rd south of Bywater. A 2 inch grinder pump line appears to be broken. The discharge appears to be < 5 gallons an hour with intermittent grinder pump use (which nearby resident h

Location:        Grinder pump force main

EGLE Action:    No further action.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Commerce Township CM

Submission ID. HPA-KJGR-58NX1

Start Day	Start Time	End Day	End Time
7/30/2021	1:45:00 PM	7/31/2021	10:15 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00123**

Cause: There is a small stream of sewage running down the road and entering a nearby storm catch basin. Could be due to a leaking sanitary forcemain. Cause has yet to be confirmed.; Cause of SSO was confirmed as a leaking grinder pump.

Location: Sutton Lane

EGLE Action: No further action.

## Totals Commerce Township CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00138**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Evergreen-Farmington CM (Oakland Co)

#### Evergreen-Farmington CM (Oakland Co)

Submission ID. HP9-RQ8Q-T7N5Z

Start Day	Start Time	End Day	End Time
6/25/2021	6:30:00 PM	6/25/2021	6:45 PM

Rain(in.) = 3.82

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

Cause: This SSO was caused by heavy rain. The SSO was discharged through a manhole then onto the surrounding grassy area.

Location: Manhole in Linden Park in Birmingham

EGLE Action: Event Exceeded Remedial Standard

#### Evergreen-Farmington CM (Oakland Co)

Submission ID. HP9-RPY5-EZYB5

Start Day	Start Time	End Day	End Time
6/25/2021	8:10:00 PM	6/26/2021	4:50 PM

Rain(in.) = 4.39

Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**22.75000**

Cause: The SSO was caused by heavy rain. Sewage flowed out of the EF Eight Mile Overflow Chamber and into the Eight Mile Drain then into a stream tributary to the Upper Rouge River.

Location: EF Eight Mile Overflow Chamber

EGLE Action: Event Exceeded Remedial design standard

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HP9-RMQG-7REQY

Start Day	Start Time	End Day	End Time
6/25/2021	8:12:00 PM	6/26/2021	11:18 PM

Rain(in.) = 3.82  
Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.02042**

Cause: The discharge was due to heavy rain. The discharge overflowed from a manhole that appeared to have been paved over at the north side of the intersection of Lakeside Drive and Redding Road then into a stream tributary to the upper Rouge.

Location: Manhole at the Intersection of Lakeside Drive and Redding Road in Birmingham.

EGLE Action: Event exceeded design standrad

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HP9-RP4N-NB3AC

Start Day	Start Time	End Day	End Time
6/25/2021	11:25:00 PM	6/26/2021	4:25 PM

Rain(in.) = 4.39  
Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**3.36000**

Cause: The discharge was the result of heavy rain. The diluted sewage flowed from a vent/manhole on the Middlebelt Tunnel then over land for a short distance then into a stream tributary to the Upper Rouge River.

Location: Middlebelt Tunnel

EGLE Action: Event Exceeded Remedial Standard

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HP9-RQHE-FPQ48

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.39
6/26/2021	4:15:00 AM	6/26/2021	3:37 PM	Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.55677**

Cause: Heavy Rains caused the safe wet well level at the Eight Mile Road Pump Station to be exceeded. In order to prevent upstream basement flooding,; WRC staff pumped flow from three manholes located upstream of the pump; station directly to the Rouge River.

Location: 8 Mile Road Pump Station Relief Manholes

EGLE Action: This event exceeded the remedial design standard

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPA-8WD6-CVD1B

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.82
7/16/2021	1:30:00 PM	7/17/2021	12:10 AM	Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.80000**

Cause: The discharge was diluted sanitary sewage from the 8 Mile Overflow Chamber flowing into the 8 Mille Drain west to the Rouge River. The discharge occurred due to heavy rain exceeding the capacity of the 8 Mile Lift Station located at 22430 Eight Mile Road

Location: 8 Mile Pump Station Overflow Chamber Outfall

EGLE Action: EFSDS Under ASO to address all SSOs in the District

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPA-FAJM-DSVW0

Start Day	Start Time	End Day	End Time
7/24/2021	7:35:00 PM	7/25/2021	10:40 AM

Rain(in.) = 1.96  
Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.46000**

Cause:            The SSO was caused by heavy rain. Sewage flowed out of the EF Eight Mile Overflow Chamber and into the Eight Mile Drain; then into a stream tributary to the Upper Rouge River.

Location:        EF Eight Mile Overflow Chamber

EGLE Action:    EFSDS Under ACO

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPA-FAJM-DSVW0

Start Day	Start Time	End Day	End Time
7/24/2021	11:20:00 PM	7/25/2021	4:20 PM

Rain(in.) = 1.96  
Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.38000**

Cause:            The discharge was the result of heavy rain. The diluted sewage flowed from a vent/manhole on the Middlebelt Tunnel then over; land for a short distance then into a stream tributary to the Upper Rouge River.

Location:        Middlebelt Tunnel

EGLE Action:    EFSDS is under an ACO

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPB-XZM6-TRV44

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.5
9/22/2021	10:10:00 AM	9/22/2021	12:10 PM	Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.04380**

Cause:            The SSO was caused by heavy rain. Sewage flowed out of the EF Eight Mile Overflow Chamber and into the Eight Mile Drain; then into a stream tributary to the Upper Rouge River.

Location:        EF Eight Mile Overflow Chamber

EGLE Action:    EFSDS under ACO to address this SSO

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPB-YW4R-BZFGQ

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.5
9/23/2021	3:25:00 AM	9/23/2021	10:40 AM	Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**5.55000**

Cause:            The SSO was caused by heavy rain. Sewage flowed out of the EF Eight Mile Overflow Chamber and into the Eight Mile Drain; then into a stream tributary to the Upper Rouge River.

Location:        EF Eight Mile Overflow Chamber

EGLE Action:    EFSDS under ACO to address SSOs

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPB-YXQY-6D632

Start Day	Start Time	End Day	End Time
9/23/2021	6:25:00 AM	9/23/2021	8:20 AM

Rain(in.) = 4.5  
Waterbody: Upper Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.58000**

Cause: The discharge was the result of heavy rain. The diluted sewage flowed from a vent/manhole on the Middlebelt Tunnel then over; land for a short distance then into a stream tributary to the Upper Rouge River.

Location: Middlebelt Tunnel

EGLE Action: EFSDS Under ACO to address SSos

### Evergreen-Farmington CM (Oakland Co)

Submission ID. HPB-YWGC-Y6G74

Start Day	Start Time	End Day	End Time
9/23/2021	8:00:00 AM	9/23/2021	6:10 PM

Rain(in.) = 4.5  
Waterbody: Evans Branch Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.37000**

Cause: The SSO was caused by heavy rain. There was evidence of sanitary trash near several manholes near 8 Mile and Bridge Street

Location: 8 Mile near bridge

EGLE Action: EFSDS is under an Administrative Consent Order to eliminate SSOs by 2023.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Evergreen-Farmington CM (Oakland Co)

Submission ID. HPC-RGCH-RTQDS

Start Day	Start Time	End Day	End Time
10/25/2021	1:30:00 PM	10/25/2021	7:55 PM

Rain(in.) = 0.8  
Waterbody: Middle River Rouge

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.04554</b>		

Cause: Eight Mile Lift Station had flows exceeding the pumping capacity. Flow data from the site indicates the SSO volume. SSO paused between 3:30 PM and resumed at 7:30 PM.

Location: Eight Mile Lift Station

EGLE Action: EFSDS under ACO to address SSOs

## Totals Evergreen-Farmington CM (Oakland Co)

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.04554</b>		<b>36.87600</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Farmington CM

### Farmington CM

Submission ID. HP9-V7DZ-DK1RH

Start Day	Start Time	End Day	End Time
6/26/2021	2:30:00 PM	6/26/2021	7:00 PM

Rain(in.) = 3.6

Waterbody: Upper Rouge River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.07300**

Cause: Discharge was relatively clear in nature, odorless and no solids

Location: 32000 W. 9 Mile Road Farmington Environmental Quality Basin

EGLE Action: Event exceed Remedial Standard

### Farmington CM

Submission ID. HPB-YPX2-6EZ4

Start Day	Start Time	End Day	End Time
9/22/2021	2:15:00 PM	9/24/2021	5:00 PM

Rain(in.) = 5.25

Waterbody: Upper Rouge River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**5.91500**

Cause: 4.1 inches of rain began at 6:00 pm 9/21/21 thru 2:15 pm 9/22/21. Saturated soils causing footing drains to collect the excessive ground water.

Location: Farmington Retention Environmental Quality Basin

EGLE Action: Event exceed Remedial Standard

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Farmington CM

Submission ID. HPC-Y1V0-S04C3

Start Day	Start Time	End Day	End Time
10/30/2021	7:00:00 AM	10/31/2021	10:00 PM

Rain(in.) = 1  
Waterbody: Upper Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>1.39100</b>	

Cause: Discharge was relatively clear in nature, odorless, and no solids. The 3 million gallon storage basin was more than 2/3 full when we received an additional 1 inch of rain. The ground is saturated not allowing rain to absorb, and residential footing drains

Location: 32000 W 9 Mile Road Farmington Environmental Quality Basin

EGLE Action: No further action taken at this time

## Totals Farmington CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>7.37900</b>	

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Franklin CM

#### Franklin CM

Submission ID. HPA-XRCK-8CJVN

Start Day	Start Time	End Day	End Time
8/12/2021	1:43:00 PM	8/12/2021	6:15 PM

Waterbody: unknown creek that runs mainly north/sout

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00513**

Cause:            The cause of the discharge is due to a broken isolation valve on a 6" diameter forcemain. The discharge rate is 20 to 30 gallons per minute. A temporary patch was made at 4:40 pm on August 12, 2021 and the final repair was made by 6:15 pm. The area sur

Location:        Road ditch along north side of 13 Mile Road

EGLE Action:    Repair completed. No further action taken at this time

#### Totals Franklin CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00513**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**George W Kuhn Dr Dist CSO RTB**

**George W Kuhn Dr Dist CSO RTB**

Submission ID. HP9-XDPD-TGENC

Start Day	Start Time	End Day	End Time
6/26/2021	2:00:00 PM	6/26/2021	3:50 PM

Rain(in.) = 2.29

Waterbody: Red Run Drain

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.00000**

Cause: This SSO was caused by heavy rain. The Dequindre Road interceptor surcharged and backed up into the GWK CSO RTB via an overflow pipe, and the diluted sewage from the interceptor was discharged with the CSO from the RTB into the Red Run Drain.

Location: GWK CSO RTB Outfall to the Red Run Drain

EGLE Action: Violation Notice sent to address discharge

**Totals George W Kuhn Dr Dist CSO RTB**

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.00000**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Highland Hills of Highland

#### Highland Hills of Highland

Submission ID. HP7-37BA-9PMN7

Start Day	Start Time	End Day	End Time
3/8/2021	4:15:00 PM	3/8/2021	5:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:      A sewer main had backed up from blockage in pipe. Levels came up in the mainline and overflowed a manhole.

EGLE Action:      A VN was issued prior to this reported SSO which required the permittee to provide an update on how they will address future SSOs and ensure proper maintenance occurs to prevent SSOs.

#### Totals Highland Hills of Highland

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Lake Orion CM

### Lake Orion CM

Submission ID. HP6-7396-ZNGD1

Start Day	Start Time	End Day	End Time
2/1/2021	7:30:00 PM	2/1/2021	8:00 PM

Waterbody: Paint Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00010</b>

Cause: Broken lead/cleanout near the street overflowed sewer on the ground. The overflow did spill into a catch basin with outflow to Paint Creek, E.Coli samples were taken. The overflow was caused by a clogged sewer pipe.

Location: 93 South Anderson

EGLE Action: a compliance communication letter CC-003171 was sent to address this SSO

### Totals Lake Orion CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.00010</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Novi CM

### Novi CM

Submission ID. HP6-EVZ0-9H5BF

Start Day	Start Time	End Day	End Time
2/10/2021	2:00:00 AM	2/11/2021	7:00 AM

Waterbody: wetland

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.06000</b>		

Cause: Area piping has significant elevation changes that trap rags and grease within the pipe causing blockages. It is standard procedure to clean the pipe once every quarter and was last cleaned in December 2020. The SSO was due to blockages in the pipe between

Location: Pointe Park

EGLE Action: No further action taken at this time

### Totals Novi CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.06000</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Orchard Lake Village CM

#### Orchard Lake Village CM

Submission ID. HP8-0856-CZN58

Start Day	Start Time	End Day	End Time
4/14/2021	4:00:00 PM	4/14/2021	6:30 PM

Waterbody: Orchard Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: The discharge was the result of a plugged sewer. The SSO seeped from the manhole into a French drain of a private residence. The drain discharges into Orchard Lake. No evidence was found of a discharge into the lake but samples were taken as a precaution.

EGLE Action: Compliance Communication - CC-003261 was sent to address this SSO

#### Orchard Lake Village CM

Submission ID. HP9-TEV7-BFXXM

Start Day	Start Time	End Day	End Time
6/24/2021	3:30:00 PM	6/24/2021	5:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00007**

Cause: A pipe fitting at a cleanout location failed. A corroded pipe nipple was leaking sewage at the connection. The sewage leaked from the clean out onto the paved road and shoulder.

Location: Orchard Lake Trail

EGLE Action: Repair completed. No further action taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Orchard Lake Village CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00017**

**Oxford Township CM**

**Oxford Township CM**

Submission ID.    HPA-39SA-W42BH

Start Day	Start Time	End Day	End Time
7/9/2021	4:38:00 PM	7/9/2021	6:48 PM

Waterbody: Lake Dewls

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause:            Blockage in downstream sewer sewage to head up and come out through top of manhole

EGLE Action:    No further action taken at this time

**Totals** **Oxford Township CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Pontiac CM

### Pontiac CM

Submission ID. HP6-WYV2-WE460

Start Day	Start Time	End Day	End Time
3/1/2021	2:00:00 PM	3/1/2021	2:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00030**

Cause: Sewage coming from undocumented manhole caused by a clog downstream sewer (grease and rags).  
 Location: Undocumented sanitary manhole between MH110 and MH114  
 EGLE Action: compliance communication sent to address discharges

## Pontiac CM

Submission ID. HP6-XKA1-FWASM

Start Day	Start Time	End Day	End Time
3/1/2021	3:45:00 PM	3/1/2021	5:15 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00135**

Cause: Sewage coming from MH 072-180 caused by plugged downstream sewer (grease and rags)  
 Location: MH 072-180  
 EGLE Action: compliance communication sent to address discharges

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Pontiac CM

Submission ID. HP7-ODDS-7BARY

Start Day	Start Time	End Day	End Time
3/5/2021	2:45:00 PM	3/5/2021	3:30 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.00023**

Cause: Discharge was from sump pump over flow. Combined sanitary sewer was plugged resulting in storm lead at 21 Elizabeth Lake Road to back-up.

EGLE Action: compliance communication sent to address discharges

## Pontiac CM

Submission ID. HP7-OETD-3BZRJ

Start Day	Start Time	End Day	End Time
3/5/2021	4:15:00 PM	3/5/2021	5:15 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.00012**

Cause: Discharge was from flooded basement. Sanitary sewer was plugged (40') upstream of MH-119-137 resulting in sanitary lead at 153 153 Mohawk Road to back-up into residents basement

EGLE Action: CC was sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Pontiac CM

Submission ID. HP7-2A4S-N5D6H

Start Day	Start Time	End Day	End Time
3/7/2021	1:15:00 PM	3/7/2021	3:15 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00060**

Cause: Discharge was from flooded basement. Sanitary sewer was plugged (23') upstream of MH 119-136 resulting in sanitary lead at 127 Mohawk Road to back-up into residents basement

EGLE Action: compliance communication sent to address discharges

## Pontiac CM

Submission ID. HP7-ZFFE-95QK6

Start Day	Start Time	End Day	End Time
4/14/2021	1:30:00 PM	4/14/2021	1:45 PM

Waterbody: Bartlett Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause: The discharge occurred because of a plugged sewer. Raw sewage flowed out of a sanitary manhole to a nearby catch basin. Samples were taken and submitted for analysis.

EGLE Action: No further action at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Pontiac CM

Submission ID. HP8-CA6D-PVRZR

Start Day	Start Time	End Day	End Time
4/30/2021	9:00:00 PM	4/30/2021	11:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: A plugged sewer caused sewage to backup into the basement of 715 Emerson Ave., Pontiac, MI 48340 and the homeowner used a pump and hose to discharge sewage down their driveway which led to a storm inlet. The sewer was plugged with grease, the sewer was je

EGLE Action: No further action at this time. CC written.

### Pontiac CM

Submission ID. HP9-ZPVB-EEFYP

Start Day	Start Time	End Day	End Time
7/4/2021	1:00:00 AM	7/4/2021	1:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00075**

Cause: A plugged sanitary sewer caused a sewer backup to a home. The backup went to the sump pit and was discharged from the home to the front yard and entered a storm drain inlet located in front of the home.

EGLE Action: No further action.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Pontiac CM

Submission ID. HPA-WE7J-RDSN2

Start Day	Start Time	End Day	End Time
8/10/2021	5:20:00 PM	8/10/2021	6:00 PM

Waterbody: Clinton River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00004**

Cause: Manhole POT 132121 was overflowing to the street surface. A resident called in the SSO at 5:20 pm. The event stopped at 6:00 pm. The resident informed our personnel that the manhole was leaking for a week. The cause for the discharge was due to a root

Location: Wilson Avenue and Martin Luther King Jr. Blvd

EGLE Action: no further action at this time. will be discussed at semi annual meeting on CM.

### Pontiac CM

Submission ID. HPB-RGMW-XXXS4

Start Day	Start Time	End Day	End Time
9/15/2021	11:50:00 AM	9/15/2021	11:52 AM

Waterbody: Pontiac Clinton River #3

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00025**

Cause: Contractor on site was cleaning sanitary sewer and vactor truck boiled over with sewage and spilled into nearby catch basin.

EGLE Action: compliance communication sent to address discharges



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Pontiac CM

Submission ID. HPC-DK1D-C664R

Start Day	Start Time	End Day	End Time
10/12/2021	10:30:00 AM	10/12/2021	10:40 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00015**

Cause: A Contractor for WRC is cleaning sanitary sewers in the vicinity of Bagley and Orchard Lake Road, Pontiac, MI. The Vactor truck float malfunctioned which caused the truck to overflow and the Vactor spilled sewage into the roadway. The sewage flowed into a

Location: Bagley St

EGLE Action: compliance communication sent to address discharges

## Pontiac CM

Submission ID. HPD-3QK7-Y1M3V

Start Day	Start Time	End Day	End Time
11/9/2021	11:55:00 AM	11/9/2021	12:40 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00020**

Cause: The sewage flowed from Manhole POT072160 located on Sarasota Ave. onto the paved road. The discharge was caused by a plug in the sewer downstream of the discharge manhole, potentially a grease plug.

Location: Sarasota Avenue

EGLE Action: reviewed VN no further action

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Rochester University

### Rochester University

Submission ID. HPC-AEB5-3CHEX

Start Day	Start Time	End Day	End Time
10/1/2021	9:00:00 AM	10/1/2021	6:00 PM

Waterbody: Clinton River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00000</b>		

Cause: Plugged Sewer

EGLE Action: No further action is taken

### Totals Rochester University

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00000</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Springrove MHC

#### Springrove MHC

Submission ID. HPA-PN47-2AHNA

Start Day	Start Time	End Day	End Time
7/25/2021	3:00:00 AM	7/25/2021	6:00 AM

Rain(in.) = 2.5

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: Excessive storm water influent due to heavy rain event (2.5"/hr).

Location: Springrove EQ Influent Tank

EGLE Action: The permittee has submitted a plan to upgrade the WWTP which, once implemented, should significantly reduce the risk of future SSOs.

#### Totals Springrove MHC

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Staybridge Suites Auburn Hills**

**Staybridge Suites Auburn Hills**

Submission ID. HPA-CEDK-A1YXS

Start Day	Start Time	End Day	End Time
7/19/2021	11:00:00 AM	7/19/2021	2:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

Cause: Clogged Sewer Lead

EGLE Action: no further action at this time

**Totals Staybridge Suites Auburn Hills**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Sunrise Senior Living

### Sunrise Senior Living

Submission ID. HPC-ZQY9-SQ2T7

Start Day	Start Time	End Day	End Time
11/1/2021	8:00:00 AM	12/1/2021	2:00 PM

Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00048</b>		

Cause: Clogged Sewer

EGLE Action: Facility back to compliance. No further action taken at this time

### Totals Sunrise Senior Living

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00048</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### West Bloomfield Township CM

#### West Bloomfield Township CM

Submission ID. HPA-GBN8-76C4C

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.8
7/25/2021	8:45:00 PM	7/26/2021	1:24 PM	Waterbody: 10th Street ditch

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.30000</b>

**Cause:** Untreated/diluted domestic sanitary sewage discharged due to failure of dry pit vertical pedestal pumps within dry can. Wet well volume draining directly into dry can infrastructure fouled electrical and all 3 non-submersible pumps inside of vault at 40

**Location:** Wet Lands

**EGLE Action:** A new lift station was constructed in accordance with Part 41 Permit # P41002746 and is for; Complete replacement of the existing pump station at the corner of Pontiac Trail and Haggerty Road with a new 10' by 14' precast concrete box culvert wet well, three new submersible pumps, new building to house the pump discharge header and electrical/controls, Rota mixer, generator, transformer, and air filtration unit

#### Totals West Bloomfield Township CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.30000</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Woodlands MHP

#### Woodlands MHP

Submission ID. HPB-0XBF-BQM8E

Start Day	Start Time	End Day	End Time
8/16/2021	11:30:00 AM	8/16/2021	12:35 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

EGLE Action: The community lost partial power at approx 7:30 am on Friday 8/13/2021 due to storms in the area, Woodlands attempted to locate back up power with not luck. With the help from our operator we obtained a sewage hauler to keep the lift station pumped down to avoid a SSO, The vendor has been onsite all weekend. The sewage vendor visited the site at 4:00 am Monday 8/16/2021 to check the levels on the lift station and pump them down. Our staff checked the stations and manholes at 8:00 am, 9:00 am and 10:00 am on Monday 8/16/2021 to insure not discharge had occurred. The office staff contract the vendor to pump the stations as a precaution. County health department arrived around 12:30 pm to notify us of a complaint, The sewage vendor arrived about the same time to pump down the stations. The health department notified us of the discharge. The resident called the heath department and did not notify the community office of the issue.

#### Totals Woodlands MHP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

#### County Totals Oakland

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.12398      7.37910      39.27657**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

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MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Oscoda

### Big Creek/Mentor Utility Auth

### Big Creek/Mentor Utility Auth

Submission ID. HPD-C92D-3XZE5

Start Day	Start Time	End Day	End Time
11/19/2021	1:30:00 PM	11/19/2021	2:15 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00540**

Cause: The discharge occurred due to the air release valve inside the manhole breaking off from its attachment to the sewer force main due to corrosion.

Location: First sewer force main air release valve manhole downstream from the lift station located at 5th and Randall Streets.

EGLE Action: Confirmed with the facility that the corroded attachments and isolation valves at all of the two air relief valve locations on the force main have been replaced. Also two new air relief valves will be installed where the old air relief valves were located.

### Totals Big Creek/Mentor Utility Auth

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00540**

### County Totals Oscoda

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00540**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Ottawa

### Crockery MHP

#### Crockery MHP

Submission ID. HP6-JVAP-2F450

Start Day	Start Time	End Day	End Time
2/16/2021	10:20:00 AM	2/16/2021	10:45 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause:            The discharge of untreated sewage was caused by multiple lift station pump HOA switches found in the off position resulting in an overflow.  
Location:        Jeffrey "J" Lift Station  
EGLE Action:    ACO entered to address discharge

#### Crockery MHP

Submission ID. HP8-416Y-TVJWP

Start Day	Start Time	End Day	End Time
4/5/2021	8:30:00 AM	4/9/2021	8:00 AM

Waterbody: Black Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.82000**

Cause:            The east pond was discharged due to volume of wastewater in the lagoon system. Cell isolation was not being maintained and water had to be discharged to protect infrastructure and bank integrity due to high water levels. Please see the attached letter for  
Location:        Black Creek  
EGLE Action:    A Violation Notice will be issued

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Crockery MHP

Submission ID. HP9-T67C-D9R92

Start Day	Start Time	End Day	End Time
6/27/2021	11:45:00 AM	6/27/2021	2:00 PM

Rain(in.) = 5

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00050**

Cause: I received a call from maintenance staff that the lift station had overflowed. I had them put the pump in hand position to see if the pumps would operate. The station immediately began pumping down. When I arrived on site the overflow had been removed and

Location: Jeffery ("J") Lift Station

EGLE Action: ACO entered to address discharge

## Totals Crockery MHP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)

**0.00100**                      **0.82000**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Grand Haven-Spring Lake WWTP**

**Grand Haven-Spring Lake WWTP**

Submission ID. HPE-00D0-A7A8W

Start Day	Start Time	End Day	End Time
12/5/2021	1:00:00 AM	12/15/2021	9:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause:            The leak had been contained to the manhole until final repair was made at 2:15 AM on December 15, 2021

Location:        Fulton St. & Albee St. Intersection

EGLE Action:    No further action taken at this time

**Totals Grand Haven-Spring Lake WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Holland CM

### Holland CM

Submission ID. HPE-1K78-EPVKV

Start Day	Start Time	End Day	End Time
12/17/2021	1:00:00 PM	12/17/2021	1:20 PM

Waterbody: North Branch Macatawa River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00040</b>		

Cause: A break in a 12" ductile iron force main occurred approximately 500 feet downstream of HBPW's Lincoln Ave lift station. The discharge was reported to HBPW at 1:00pm on Friday the 17th and staff shut down the lift station pumps and stopped the discharge by

Location: Lincoln Ave & Hedcor St

EGLE Action: No further action taken at this time

### Totals Holland CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00040</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Presidential Estates

### Presidential Estates

Submission ID. HP7-S25J-K2J5E

Start Day	Start Time	End Day	End Time
4/6/2021	6:54:00 AM	4/6/2021	9:00 AM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00005</b>		

Cause: it was raw sewage caused by flushable wipes blocking the pipes

EGLE Action: No further action taken at this time.

### Totals Presidential Estates

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00005</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**River Haven MHP WWTP**

**River Haven MHP WWTP**

Submission ID. HP7-3V0W-T2TBG

Start Day	Start Time	End Day	End Time
3/9/2021	12:30:00 PM	3/9/2021	4:45 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:      Wipes were found in the man hole causing a slight back up. Only liquid no raw/solid sewage was found.

EGLE Action:      A violation notice will be sent for this SSO and other violations (effluent)

**Totals      River Haven MHP WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Waverly Shores Village MHC

#### Waverly Shores Village MHC

Submission ID. HP7-E5FV-JRK93

Start Day	Start Time	End Day	End Time
3/20/2021	2:00:00 PM	3/20/2021	6:00 PM

Waterbody: decorative pond

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: liquid sewage only. volume of sewage was holding down the manhole cover not allowing the solids to rise. the reason was from grease buildup and wipes.

Location: waverly park road

EGLE Action: None needed at this time

#### Waverly Shores Village MHC

Submission ID. HPB-2C70-5W9TB

Start Day	Start Time	End Day	End Time
8/17/2021	11:30:00 AM	8/17/2021	2:30 PM

Waterbody: retention/decorative pond

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: on Tuesday august 17th, 2021 we were notified of a manhole back up around and behind 3248 waverly park sit 56. Plummers waste group was dispatched and found apprx 1000 gallons of liquid on the ground, which was holding down the manhole cover and keeping

Location: waverly park road

EGLE Action: None needed at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Waverly Shores Village MHC**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00200</b>		

**County Totals** **Ottawa**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00345</b>	<b>0.82001</b>	<b>0.00005</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Saginaw

### Buena Vista Twp WWTP

#### Buena Vista Twp WWTP

Submission ID. HP8-P3KC-G9AH0

Start Day	Start Time	End Day	End Time
5/12/2021	12:00:00 PM	5/13/2021	10:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00300**

Cause:            Tristate Developers private connection to forced main failed and has been fixed.

Location:        Hack road

EGLE Action:    No further action taken. Event was caused by failure in privately owned lead. Facility is committed to preventing future events.

#### Totals Buena Vista Twp WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00300**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Frankenmuth WWTP

#### Frankenmuth WWTP

Submission ID. HP9-HN4R-FV1JZ

Start Day	Start Time	End Day	End Time
6/9/2021	7:00:00 PM	6/10/2021	1:00 PM

Waterbody: Cass River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.02000**

Cause: Sanitary sewage overflow due to blockage in the line. Sewage overflowed onto nearby grassy area and then into a drainage ditch approx. 15 feet away. Blockage in the sewer line was determined to have been caused by solids settling out in the line due to un

Location: Harlan Park Drain

EGLE Action: VN to be issued

#### Totals Frankenmuth WWTP

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.02000**

#### County Totals Saginaw

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.02300**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Sanilac**

**Croswell WWTP**

**Croswell WWTP**

Submission ID. HP7-JQD6-C3QSX

Start Day	Start Time	End Day	End Time
3/26/2021	8:45:00 AM	3/26/2021	9:10 AM

Rain(in.) = 1.6  
Waterbody: Black River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00175**

**Cause:** The diluted raw sewage ran over the top of the grit channels for about 15 - 20 minutes. This occurred following a heavy rain event when a slug of debris blinded off the newly installed manual bar screen. When the operator noticed that the headworks struct

**Location:** 001, Croswell WWTP

**EGLE Action:** Correspondence with System Operator on reporting timeline requirements. No further action pursued. Facility is completing upgrades to prevent future events

**Totals Croswell WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00175**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Shiawassee

### Durand WWTP

#### Durand WWTP

Submission ID. HP9-VWXQ-SDSDV

Start Day	Start Time	End Day	End Time
6/26/2021	7:35:00 PM	6/27/2021	12:50 AM

Rain(in.) = 1.64  
Waterbody: Holly Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.10000</b>	

Cause: Discharge was partially treated sewerage, due to heavy rain fall over 2-3 days. Including 1.60" of rain in a 45 minute time period just prior to the discharge.

Location: Holly Drain

EGLE Action: Referred for escated enforcment

#### Totals Durand WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.10000</b>	

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Owosso/Mid Shiawassee Co WWTP

#### Owosso/Mid Shiawassee Co WWTP

Submission ID. HP9-RSZX-A6YVS

Start Day	Start Time	End Day	End Time
6/25/2021	6:30:00 PM	6/25/2021	8:30 PM

Rain(in.) = 1.85

Waterbody: Shiawassee River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00400**

Cause: Manhole reached surcharge condition due to inflow/infiltration of collection system significantly impacted by rain event (approx. 1.85" rain in a 14 hour period following 0.73" the prior day).

Location: Manhole A

EGLE Action: No further action taken at this time

#### Owosso/Mid Shiawassee Co WWTP

Submission ID. HP9-SHJ0-2HJ8D

Start Day	Start Time	End Day	End Time
6/26/2021	6:40:00 PM	6/26/2021	11:00 PM

Rain(in.) = 0.8

Waterbody: Shiawassee River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.01600**

Cause: Manhole reached surcharge condition due to inflow/infiltration of the collection system significantly impacted by rain event totaling 0.80" rain on saturated ground which followed 3.20" rain over the previous 2 days.

Location: Manhole A

EGLE Action: No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Owosso/Mid Shiawassee Co WWTP**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.02000</b>

**County Totals** **Shiawassee**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>0.10000</b>	<b>0.02000</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## St. Joseph

### Constantine CM

#### Constantine CM

Submission ID. HP9-F8HG-B6NW8

Start Day	Start Time	End Day	End Time
6/13/2021	2:00:00 PM	6/13/2021	11:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

Cause:            Discharge was from a hole in the force main.  
Location:        15000 Block of Gleason Rd., Three Rivers, MI 49093  
EGLE Action:    Event reviewed and appears to be remediated.

#### Totals      Constantine CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

#### County Totals      St. Joseph

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00600**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Van Buren

### Bangor WWSL

#### Bangor WWSL

Submission ID. HP6-8A9W-DKPGB

Start Day	Start Time	End Day	End Time
2/2/2021	9:00:00 AM	2/2/2021	3:15 PM

Waterbody: Marone storm drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01900**

Cause: It appears that our sewer pump malfunctioned while Marone manufacturing was discharged their processed wastewater. This caused their wastewater to overflow a manhole.

Location: Manhole

EGLE Action: No further action taken at this time.

#### Bangor WWSL

Submission ID. HPD-YJJ4-C2B63

Start Day	Start Time	End Day	End Time
12/12/2021	4:00:00 AM	12/14/2021	3:30 PM

Waterbody: Black River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.10000**

Cause: pump malfunction

Location: Arlington Street liftstation

EGLE Action: No further action taken at this time.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Bangor WWSL

Submission ID. HPE-5F48-6QGT4

Start Day	Start Time	End Day	End Time
12/21/2021	5:30:00 PM	12/21/2021	6:30 PM

Waterbody: Black River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00100</b>		

Cause: Tree limbs fell on the power lines leading to the pumps. The pumps lost power as a result of this.

Location: Black River

EGLE Action: Event Reviewed. No further action taken.

## Totals Bangor WWSL

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.10100</b>		<b>0.01900</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**South Haven Area Water Sewer Authority WWTP**

**South Haven Area Water Sewer Authority WWTP**

Submission ID. HP9-T97Y-YST1A

Start Day	Start Time	End Day	End Time
6/25/2021	8:30:00 AM	6/27/2021	12:00 AM

Rain(in.) = 7

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01000**

Cause: lift station overwhelmed with flow due to the excessive inflow and infiltration in the collection area. wastewater flowed from wet well lid.

Location: Golf Course lift station

EGLE Action: Event reviewed. Facility making corrective actions.

**Totals South Haven Area Water Sewer Authority WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01000**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Sunny Brook RV Resort

#### Sunny Brook RV Resort

Submission ID. HP9-XBN1-WSJYT

Start Day	Start Time	End Day	End Time
6/30/2021	1:20:00 PM	7/2/2021	12:00 PM

Rain(in.) = 10.22

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00190**

Cause: Discharge in the drainfield. Rainfall events of 10.22" since July 18, 2021

Location: Sunny Brook RV Resort

EGLE Action: Event reviewed and appears to be remediated. No further action taken at this time.

#### Totals Sunny Brook RV Resort

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00190**

#### County Totals Van Buren

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.10100**

**0.00190**

**0.02900**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Washtenaw

### Ann Arbor CM

#### Ann Arbor CM

Submission ID. HP6-RX4E-4YN99

Start Day	Start Time	End Day	End Time
2/22/2021	10:30:00 AM	2/22/2021	2:30 PM

Rain(in.) = 0.07  
Waterbody: Allen Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.01000</b>		

Cause: Mid morning on Monday, February 22, 2021, a Contractor’s sanitary sewer by-pass pumping operations failed, causing a release of an estimated 10,000 gallons of sanitary sewage into South Main Street and ran down the gutter into the storm drain, ultimately

Location: Main Street/Madison

EGLE Action: Violation Notice sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Ann Arbor CM

Submission ID. HP7-FN22-47YCH

Start Day	Start Time	End Day	End Time
3/24/2021	11:30:00 AM	3/24/2021	12:30 AM

Waterbody: Allen Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Raw sewage released from bypass pumping pipes that were not fully cleaned and cleared prior to breakdown.; ; Mid morning on Wednesday, March 24, 2021, a contractor's sanitary sewer bypass pumping operation failed, releasing an estimated 50 gallons of sani

Location: Main Street/Madison

EGLE Action: Send Violation Notice.

### Ann Arbor CM

Submission ID. HP7-NXVS-7SYXR

Start Day	Start Time	End Day	End Time
4/1/2021	11:00:00 AM	4/1/2021	12:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00050**

Cause: Late morning on Thursday, April 1, 2021, City Public Works Staff responded to a notification of a sewage overflow near Nichols Drive in the UM Arboretum. Upon inspection, it was found that a root ball had caused the discharge of an estimated 500 gallons

Location: 71-69271

EGLE Action: Violation Notice sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Ann Arbor CM

Submission ID. HP7-YK7Y-E71HE

Start Day	Start Time	End Day	End Time
4/12/2021	10:00:00 AM	4/12/2021	12:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:            blockage in private sewer lead.

EGLE Action:    No further actions taken at this time.

### Ann Arbor CM

Submission ID. HP8-MJN6-8S19C

Start Day	Start Time	End Day	End Time
5/10/2021	8:50:00 AM	5/10/2021	9:40 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00060**

Cause:            an estimated 600 gallons released from manhole 71-70046, caused by tree roots that grew into a root ball just downstream of the overflow point.

Location:        71-70046

EGLE Action:    Violation Notice sent to address discharge

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Ann Arbor CM

Submission ID. HP9-WTN2-H0837

Start Day	Start Time	End Day	End Time
7/1/2021	1:00:00 PM	7/1/2021	2:00 PM

Waterbody: Allen Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00006**

Cause: Contractor activities caused a washout of sand backfill, creating a blockage in the pipe.

Location: 71-71681

EGLE Action: Violation Notice sent to address discharge

## Ann Arbor CM

Submission ID. HPB-T2YW-VEWBK

Start Day	Start Time	End Day	End Time
8/10/2021	2:00:00 PM	8/11/2021	2:00 PM

Waterbody: Swift Run Drain

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: raw sewage released from a private pumped lead - the cleanout cap was broken.

EGLE Action: Violation Notice sent to address discharge

## Totals Ann Arbor CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.01127**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Portage-Baseline Lakes WWTP

#### Portage-Baseline Lakes WWTP

Submission ID. HP6-THNA-1QQNH

Start Day	Start Time	End Day	End Time
2/25/2021	11:00:00 AM	2/25/2021	11:15 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00005**

Cause: Sewer main was punctured with probing rod while excavating to connect a new lateral to the main

Location: Sewer main in road

EGLE Action: Violation Notice sent to address discharge

#### Portage-Baseline Lakes WWTP

Submission ID. HPC-QYZH-ZJ5EQ

Start Day	Start Time	End Day	End Time
8/16/2021	8:00:00 AM	8/17/2021	12:00 PM

Waterbody: Nearby canal that flows into Portage Lake

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00300**

Cause: A power problem to the nearby pump station (from severe storms) caused sewage to backup in the gravity line. Sewage overflowed out of a nearby cleanout. A small amount made its way into the nearby canal.

EGLE Action: SSO report was reviewed for permit compliance and response actions taken by facility. Information provided is complete and all required actions were taken by the facility. Violations associated with this discharge will be addressed as part of next scheduled facility inspection.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Portage-Baseline Lakes WWTP

Submission ID. HPD-9886-8C66C

Start Day	Start Time	End Day	End Time
11/11/2021	12:00:00 PM	11/12/2021	1:00 PM

Waterbody: Wetland near manhole

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00100</b>		

Cause: Transfer switch failed at pump station

Location: Manhole 2-5 at 8789 McGregor Rd

EGLE Action: Violation Notice ( VN-012577) issued

## Totals Portage-Baseline Lakes WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00105</b>		<b>0.00300</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Saline WWTP**

**Saline WWTP**

Submission ID. HPA-XM6M-9H5SF

Start Day	Start Time	End Day	End Time
8/12/2021	4:00:00 AM	8/12/2021	5:00 AM

Rain(in.) = 4.5

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00200**

Cause:            A power failure during heavy rainfall caused influent wet well to backup which led to SSO at manhole on WWTP property.

Location:        City of Saline WWTP

EGLE Action:    Violation Notice sent to address discharge

**Totals Saline WWTP**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00200**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Sylvan Township CM

#### Sylvan Township CM

Submission ID. HP8-FX2N-N7WTV

Start Day	Start Time	End Day	End Time
5/3/2021	8:00:00 PM	5/5/2021	11:30 AM

Waterbody: Drainage ditch next to the station. The ditch

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.09000**

Cause: Contractors were finishing up work at the station but failed to isolate the Kilmer Rd lift station. They did not to close the inlet valve tightly causing the station to over flow. I am estimating about 90,000 gallons total over a 40 hour time span.

Location: Kilmer road Lift Station

EGLE Action: A VN was issued to address discharge

#### Sylvan Township CM

Submission ID. HP8-MGC8-SG1XT

Start Day	Start Time	End Day	End Time
5/10/2021	7:00:00 PM	5/10/2021	9:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: Contractors for the county struck a valve box while brush hogging along the road side.

Location: ground near 3600 Willis rd

EGLE Action: Violation Notice sent on July 8, 2021

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Sylvan Township CM

Submission ID. HPA-7PBG-W2RTM

Start Day	Start Time	End Day	End Time
7/13/2021	11:00:00 AM	7/15/2021	11:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

Cause: A leaking air relief vavle

Location: 17520 Farnher rd

EGLE Action: Violation Notice sent on August 3, 2021

## Sylvan Township CM

Submission ID. HPC-826W-79TZ6

Start Day	Start Time	End Day	End Time
10/4/2021	3:00:00 PM	10/5/2021	9:00 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00100**

Cause: Discharge of approximately 1,000 gallons of raw sewage over the course of 1 day to ground only. The discharge line between wet well and valve pit separated and discharged to the ground around the lift station.

Location: Sugerloaf Campground

EGLE Action: Violation Notice sent on October 18, 2021

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

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**Totals** **Sylvan Township CM**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.09700</b>		

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**County Totals** **Washtenaw**

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.10932</b>		<b>0.00500</b>

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MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Wayne

### Allen Park CM

#### Allen Park CM

Submission ID. HPA-YAF8-0ET4W

Start Day	Start Time	End Day	End Time
8/12/2021	12:00:00 PM	8/12/2021	5:00 PM

Rain(in.) = 2.54  
Waterbody: Ecorse Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.48000</b>

Cause: Wet well overflow at Tunnel Pump station caused by Heavy Rainfall and Ecorse Creek overflow.

Location: Tunnel Pump Station

EGLE Action: City is under ACO to address SSOs

#### Totals Allen Park CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.48000</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Creekside Estates MHC**

**Creekside Estates MHC**

Submission ID. HPB-KQ2D-QWFRX

Start Day	Start Time	End Day	End Time
8/31/2021	12:51:00 PM	9/6/2021	12:30 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

Cause:            from trailer, blocked sewer lead

EGLE Action:    no further action at this time.

**Totals Creekside Estates MHC**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00010**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Dearborn CSO

### Dearborn CSO

Submission ID. HP7-GH5B-TDF7C

Start Day	Start Time	End Day	End Time
3/26/2021	4:57:00 AM	3/26/2021	7:37 AM

Rain(in.) = 1.28  
Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.72706</b>

Cause: Wet weather  
 Location: Greenfield Pump Station  
 EGLE Action: Event under review

### Dearborn CSO

Submission ID. HP9-R895-PNC7R

Start Day	Start Time	End Day	End Time
6/25/2021	9:04:00 PM	6/27/2021	7:41 AM

Rain(in.) = 7.57  
Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>9.31978</b>

Cause: Detroit's interceptor could not handle city of Dearborn pumping capacity as stated in permit. Thus causing SSO discharge from Greenfield lift station.  
 Location: Greenfield lift station  
 EGLE Action: This event exceeded the RDS (7.57 inches of rain). No further action taken at this time

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Dearborn CSO

Submission ID. HPA-8JHW-ZKXKG

Start Day	Start Time	End Day	End Time
7/16/2021	11:22:00 AM	7/16/2021	9:18 PM

Rain(in.) = 4.41  
Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>2.76395</b>

Cause: The Northwest Interceptor would not allow us to discharge 60+ CFS causing overflow structure to spill to river.

Location: Greenfield Pump Station

EGLE Action: No further action taken at this time

## Dearborn CSO

Submission ID. HPA-F531-7AA9G

Start Day	Start Time	End Day	End Time
7/24/2021	10:02:00 PM	7/25/2021	8:16 AM

Rain(in.) = 2.8  
Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>2.75204</b>

Cause: The Northwest Interceptor would not allow Dearborn to discharge 60+ CFS causing structure to overflow to river

Location: Greenfield Pump station

EGLE Action: event is currently under review

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Submission ID. HPA-XG8V-273CZ

Start Day	Start Time	End Day	End Time	Rain(in.) = 3.52
8/12/2021	4:12:00 AM	8/12/2021	2:15 PM	Waterbody: Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.70626**

Cause: Detroit interceptor could not accept Dearborns contractual pumping capacity, thus causing SSO.

Location: Greenfield lift station

EGLE Action: Event is currently under review

### Dearborn CSO

Submission ID. HPB-9JX6-79PYE

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.04
8/27/2021	2:28:00 PM	8/27/2021	7:07 PM	Waterbody: Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.24677**

Cause: The Northwest Interceptor would not allow Dearborn to discharge 60+ CFS causing structure to overflow to river

Location: Greenfield Pump Station

EGLE Action: Event is currently under review

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Submission ID. HPB-XFX4-0EFEB

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.97
9/21/2021	11:48:00 PM	9/23/2021	11:09 AM	Waterbody: Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**8.81003**

Cause: Detroit Interceptor could not receive contractual pumping capacity from Greenfield lift station due to high rain volumes, thus causing SSO out of Greenfield lift station

Location: Greenfield lift station

EGLE Action: Event is currently under review

### Dearborn CSO

Submission ID. HPC-QTS8-0997J

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.21
10/25/2021	9:54:00 AM	10/25/2021	7:06 PM	Waterbody: Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.47738**

Cause: GLWA Northwest Interceptor would not allow Dearborn to discharge 60+ CFS, approximately 10CFS overflowed manhole in the Sewerage Division's storm drain structure that leads in to the Rouge River

Location: Greenfield Pump Staion

EGLE Action: Event is currently under review

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Dearborn CSO

Submission ID. HPC-V9K0-D97QC

Start Day	Start Time	End Day	End Time
10/29/2021	9:53:00 PM	10/29/2021	11:04 PM

Rain(in.) = 0.97  
Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.31775</b>

Cause: GLWA Northwest interceptor would not allow Dearborn to discharge 60+ cfs

Location: Greenfield Pump Station

EGLE Action: Event is currently under review

### Dearborn CSO

Submission ID. HPD-YEBF-D5Y5X

Start Day	Start Time	End Day	End Time
12/11/2021	3:41:00 AM	12/11/2021	1:07 PM

Rain(in.) = 1.29  
Waterbody: Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>16.15680</b>

Cause: GLWA Northwest interceptor would not allow Dearborn to discharge 60+ CFS

Location: Greenfield Pump Station

EGLE Action: Event is currently under evaluation

### Totals Dearborn CSO

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>9.31978</b>		<b>37.95804</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### GM-CPC-Romulus Engine

#### GM-CPC-Romulus Engine

Submission ID. HPE-ERGX-3KB7B

Start Day	Start Time	End Day	End Time
12/30/2021	3:00:00 PM	12/30/2021	4:00 PM

Rain(in.) = 0

Waterbody: on-site storm water ponds

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00010</b>		

Cause: During maintenance activities on 12/30/21 an underground sanitary sewer line was inadvertently breached which resulted in a release of an estimated 100 gallons of sanitary wastewater. The breach in line was immediately blocked to prevent any additional I

Location: storm pond

EGLE Action: Communicated with GM, confirmed repair and clean-up actions completed.

#### Totals GM-CPC-Romulus Engine

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00010</b>		

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Grosse Pointe Shores CM

#### Grosse Pointe Shores CM

Submission ID. HP9-SGD7-T67TX

Start Day	Start Time	End Day	End Time
6/26/2021	1:39:00 AM	6/26/2021	6:37 AM

Rain(in.) = 5  
Waterbody: Lake St. Clair

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.38000**

Cause: The Cook rd lift station relief gate was opened to lower the level in our interceptor. After unprecedented rainfall, we received reports of sewage back-ups. Inspection of the interceptor showed that it was completely full. With more rain in the forecast a

Location: Cook Road Lift Station

EGLE Action: event exceeded remedial design standard

#### Grosse Pointe Shores CM

Submission ID. HPA-90KR-X2JQK

Start Day	Start Time	End Day	End Time
7/16/2021	2:10:00 PM	7/16/2021	4:52 PM

Rain(in.) = 4  
Waterbody: Lake St. Clair

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.37000**

Cause: The Cook Rd. lift station relief gate was opened to lower the level in our interceptor. After unprecedented rainfall, we received reports of sewage back-ups. Inspection of the interceptor showed that it was completely full. With more rain in the forecast

Location: Cook Road Lift Station

EGLE Action: Violation Notice issued.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** **Grosse Pointe Shores CM**

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**3.75000**

**Lincoln Park CM**

**Lincoln Park CM**

Submission ID.      HP9-RRFA-ZV9FA

Start Day	Start Time	End Day	End Time
6/26/2021	7:18:00 AM	6/26/2021	7:00 PM

Rain(in.) = 2.88  
Waterbody: North Ecorse Creek

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.32146**

Cause:      Large rain event

Location:      Lincoln Park RTB

EGLE Action:      EGLE is currently working on enforcement proceeding with Lincoln Park to address their SSO's

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Lincoln Park CM

Submission ID. HPA-960X-0YFAD

Start Day	Start Time	End Day	End Time
7/16/2021	11:00:00 PM	7/17/2021	2:00 PM

Rain(in.) = 2.38  
Waterbody: Ecorse Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>17.00000</b>	

Cause: partially treated , due to large rain fall event

Location: Lincoln Park Retention Basin

EGLE Action: EGLE is in the process of seeking an Administrative Consent Order with Lincoln Park to address the SSO's

## Lincoln Park CM

Submission ID. HPA-FG42-7VM66

Start Day	Start Time	End Day	End Time
7/25/2021	2:30:00 AM	7/25/2021	1:00 PM

Rain(in.) = 2.1  
Waterbody: Ecorse Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>12.60000</b>	

Cause: Rapid Rain Event

Location: Lincoln Park RTB

EGLE Action: Pending Enforcement action to address the SSO's

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lincoln Park CM

Submission ID. HPA-XRAK-GWYFQ

Start Day	Start Time	End Day	End Time
8/12/2021	9:30:00 AM	8/12/2021	7:00 PM

Rain(in.) = 3.14  
Waterbody: Ecorse Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>14.30000</b>	

Cause: bypass pumping  
Location: ecorse creek  
EGLE Action: Pending Enforcement action

### Lincoln Park CM

Submission ID. HPB-XR5N-SS54X

Start Day	Start Time	End Day	End Time
9/22/2021	4:00:00 AM	9/23/2021	5:00 PM

Rain(in.) = 4.47  
Waterbody: Ecorse Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>7.60000</b>	

Cause: bypass pumping  
Location: ecorse creek  
EGLE Action: Current escalated enforcement action pending

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lincoln Park CM

Submission ID. HPC-QW5A-38YJN

Start Day	Start Time	End Day	End Time
10/25/2021	11:00:00 AM	10/26/2021	8:00 AM

Rain(in.) = 2.313  
Waterbody: Ecorse Creek

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>23.10000</b>	

Cause: Bypass pumping  
Location: ecorse creek  
EGLE Action: Enforcement action in pending

### Totals Lincoln Park CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
	<b>74.92146</b>	

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Melvindale CM

#### Melvindale CM

Submission ID. HPA-AY9G-H44M2

Start Day	Start Time	End Day	End Time
7/16/2021	2:15:00 PM	7/16/2021	11:00 PM

Rain(in.) = 2.5

Waterbody: Rouge River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.73345**

Cause: Heavy rain event caused 1 million gallon overflow tank to be filled quickly which necessitated dumping into the Rouge River

Location: Rouge River

EGLE Action: City is under ACO to address SSOs

#### Melvindale CM

Submission ID. HPA-GCF7-9NQWV

Start Day	Start Time	End Day	End Time
7/25/2021	2:05:00 AM	7/25/2021	4:00 AM

Rain(in.) = 2.5

Waterbody: Rouge River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.71688**

Cause: Heavy rain event 7/24/2021. Million gallon tank filled necessitating overflow to Rouge River.

Location: Rouge River

EGLE Action: City is under ACO to address SSOs

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Melvindale CM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**2.45033**

**Rouge Valley Sewage Disposal System CM**

**Rouge Valley Sewage Disposal System CM**

Submission ID. HPA-31TB-19KKV

Start Day	Start Time	End Day	End Time	
6/25/2021	6:30:00 PM	6/26/2021	2:35 AM	Rain(in.) = 4.43 Waterbody: Middle Rouge River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.10000**

- Cause: A significant rainfall event occurred which caused the flow rate in the sewer to; exceed the regulator capacity.
- Location: Regulator M-25 (CSO 057)
- EGLE Action: Wayne County is under 4th Amended AACO-000031 with a construction schedule to eliminate SSOs to the SSO Policy.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-6SJ8-9JS35

Start Day	Start Time	End Day	End Time
6/25/2021	7:40:00 PM	6/26/2021	12:00 AM

Rain(in.) = 5.92  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**3.30000**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Location: Manholes between Telegraph Road and Beech Daly Road in the floodplain of the Middle Rouge River

EGLE Action: These floodplain manholes will be addressed as part of the Long Term Corrective Action Plan (LTCAP). The LTCAP is part of the 4th Amended Final Order of Abatement No. AACO-000031. The project plan was submitted dated 6/29/19. Wayne County requested that the ACO be amended, and this is under review by EGLE.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-S1J0-4AF9Z

Start Day	Start Time	End Day	End Time
6/25/2021	10:55:00 PM	6/27/2021	5:55 AM

Rain(in.) = 5.92  
Waterbody: Lower Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**24.60000**

Cause: Significant rainfall event occurred which caused the flow rate in the sewer to exceed the capacity.

Location: Manholes along the Lower Rouge River

EGLE Action: Wayne County is currently under 4th Amended AACO-000031 with schedule to eliminate SSOs in the Rouge Valley Sewage Disposal System to the SSO Policy.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-31TB-19KKV

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.43
6/25/2021	11:55:00 PM	6/27/2021	6:55 AM	Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**4.40000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to; exceed the regulator capacity.

Location: Regulator M-21 (CSO 056)

EGLE Action: Wayne County is under 4th Amended AACO-000031 with a construction schedule to eliminate SSOs to the SSO Policy.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-31TB-19KKV

Start Day	Start Time	End Day	End Time	Rain(in.) = 4.43
6/26/2021	12:35:00 AM	6/26/2021	10:15 PM	Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**8.60000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to; exceed the regulator capacity.

Location: Regulator M-22 (CSO 055)

EGLE Action: Wayne County is under 4th Amended AACO-000031 with a construction schedule to eliminate SSOs to the SSO Policy.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Rouge Valley Sewage Disposal System CM

Submission ID. HPA-6S98-QF450

Start Day	Start Time	End Day	End Time
6/26/2021	2:20:00 AM	6/27/2021	1:15 AM

Rain(in.) = 2.59  
Waterbody: Bell Branch of the Middle Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>0.05000</b>

**Cause:** A significant rainfall event occurred which caused the sewer to surcharge to; grade

**Location:** Manholes west of Inkster Road between Rougeway Street and Sunnydale Street in the floodplain of the Bell Branch of the Middle Rouge River

**EGLE Action:** The floodplain manholes will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

## Rouge Valley Sewage Disposal System CM

Submission ID. HPA-BQ67-1K06G

Start Day	Start Time	End Day	End Time
7/16/2021	12:05:00 PM	7/18/2021	2:25 PM

Rain(in.) = 2.59  
Waterbody: Middle Rouge River

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
		<b>4.50000</b>

**Cause:** A significant rainfall event occurred which caused the flow rate in the sewer to; exceed the regulator capacity.

**Location:** Regulator M-21 (CSO 056)

**EGLE Action:** This outfall was under terminated NPDES Permit No. MI0051551. This will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

MG = million gallons  
CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-BQ67-1K06G

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.59
7/16/2021	12:15:00 PM	7/16/2021	9:05 PM	Waterbody: Middle Rouge River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**3.50000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to; exceed the regulator capacity.

Location: Regulator M-22 (CSO 055)

EGLE Action: This outfall was under terminated NPDES Permit No. MI0051560. This will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-BQ67-1K06G

Start Day	Start Time	End Day	End Time	Rain(in.) = 2.59
7/16/2021	12:15:00 PM	7/16/2021	9:05 PM	Waterbody: Middle Rouge River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.10000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to; exceed the regulator capacity.

Location: Regulator M-25 (CSO 057)

EGLE Action: This outfall was under terminated NPDES Permit No. MI0051551. This will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

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## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-KH52-TCHVB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.73
7/24/2021	8:15:00 PM	7/24/2021	9:55 PM	Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.20000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-25 (CSO 057)

EGLE Action: This outfall was under terminated NPDES Permit No. MI0051551. This will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-KH52-TCHVB

Start Day	Start Time	End Day	End Time	Rain(in.) = 1.73
7/24/2021	8:50:00 PM	7/26/2021	9:05 AM	Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**2.40000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-21 (CSO 056)

EGLE Action: This outfall was under terminated NPDES Permit No. MI0051551. This will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPA-KH52-TCHVB

Start Day	Start Time	End Day	End Time
7/25/2021	12:20:00 AM	7/25/2021	2:35 AM

Rain(in.) = 1.73  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.80000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-22 (CSO 055)

EGLE Action: This outfall was under terminated NPDES Permit No. MI0051560. This will be addressed as part of the Long Term Corrective Action Program. Wayne County submitted a project plan on 6/29/19 to address 4th Amended AACO-000031. Wayne County is working with EGLE to amend this Order.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPC-39H9-3SJR1

Start Day	Start Time	End Day	End Time
8/12/2021	5:40:00 AM	8/12/2021	3:25 PM

Rain(in.) = 2.76  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.03000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-25 (CSO 057)

EGLE Action: It is currently being addressed for elimination under the LTCAP, associated with the 4th Amended AACO-000031, entered 7/29/15, that's in the process of being amended again.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPC-39H9-3SJR1

Start Day	Start Time	End Day	End Time
8/12/2021	5:40:00 AM	8/12/2021	3:25 PM

Rain(in.) = 2.76  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**1.40000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-21 (CSO 056)

EGLE Action: It is currently being addressed for elimination under the LTCAP, associated with the 4th Amended AACO-000031, entered 7/29/15, that's in the process of being amended again.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPC-2H0E-FTKP6

Start Day	Start Time	End Day	End Time
9/22/2021	8:55:00 AM	9/24/2021	3:20 AM

Rain(in.) = 4.24  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**5.80000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-21 (CSO 056)

EGLE Action: This stems from NPDES Permit No. MI0051551, which was terminated. It is being addressed under the 4th Amended AACO-000031, entered 7/29/15 that is in the process of being amended again.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Rouge Valley Sewage Disposal System CM

Submission ID. HPC-2H0E-FTKP6

Start Day	Start Time	End Day	End Time
9/23/2021	3:00:00 AM	9/23/2021	9:05 PM

Rain(in.) = 4.24  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**4.70000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-22 (CSO 055)

EGLE Action: This outfall stems from NPDES Permit No. MI0051560 that was terminated. It will be addressed under 4th Amended AACO-000031, entered 7/29/15 that's in the process of being amended again.

### Rouge Valley Sewage Disposal System CM

Submission ID. HPD-KCH6-JYNZ1

Start Day	Start Time	End Day	End Time
10/25/2021	11:50:00 AM	10/25/2021	8:20 PM

Rain(in.) = 2.13  
Waterbody: Middle Rouge River

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.60000**

Cause: A significant rainfall event occurred which caused the flow rate in the sewer to exceed the regulator capacity.

Location: Regulator M-21 (CSO 056)

EGLE Action: Uncontrolled CSO Outfalls M-21 (CSO 56), M-22 (CSO 55) & M-25 (CSO 57) were originally under terminated NPDES Permit Nos. MI0051551 & MI0051560. 4th Amended Final Order of Abatement AACO-000031, entered 7/29/15, is in the process of being amended, to eliminate or control these outfalls.

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

**Totals** Rouge Valley Sewage Disposal System CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**65.08000**

**Western Townships Utilities Authority**

**Western Townships Utilities Authority**

Submission ID.      HP6-QAKC-HZZJ2

Start Day	Start Time	End Day	End Time
2/22/2021	10:00:00 PM	2/22/2021	11:30 AM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:            An air release valve became plugged up and began leaking a small amount  
Location:        Michigan Ave at Executive Dr. (#4B)  
EGLE Action:    Enforcement Discretion

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Western Townships Utilities Authority

Submission ID. HP8-ABVV-VYES6

Start Day	Start Time	End Day	End Time
4/28/2021	9:00:00 AM	4/28/2021	9:45 AM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00001**

Cause: During a routine inspection the ARV had a small trickle

Location: ARV #27B

EGLE Action: No further action taken at this time

## Western Townships Utilities Authority

Submission ID. HP9-RRAJ-PJ436

Start Day	Start Time	End Day	End Time
6/26/2021	12:30:00 PM	6/26/2021	2:30 PM

Rain(in.) = 6  
Waterbody: Lower Rouge River

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.09600**

Cause: Due to heavy rainfall, >6", our storage basins (11M gallons) were full and a discharge was needed to protect the facility.

Location: Lower Rouge Pump Station

EGLE Action: Rain event exceeded remedial design standard. No further actions taken at this time

## Totals Western Townships Utilities Authority

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)  
**0.00002** **0.09600**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Westland CM

#### Westland CM

Submission ID. HP9-T6CJ-DR8WM

Start Day	Start Time	End Day	End Time
6/26/2021	2:00:00 AM	6/26/2021	11:00 PM

Rain(in.) = 2.36

Waterbody: Lower Rouge River

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.96000**

Cause: RVSDS Lower Rouge Interceptor backup caused a breach of San MH at the Railroad grade separation. Sanitary Flow gravity drained into grade separation pump station and was then pumped into the storm system.

Location: Sewer Break

EGLE Action: Violation letter sent to address discharge

#### Totals Westland CM

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**1.96000**

#### County Totals

#### Wayne

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**9.32000**

**77.37178**

**109.32404**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

# 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

## Wexford

### Cadillac CM

#### Cadillac CM

Submission ID. HP8-4ZJ9-T9N3M

Start Day	Start Time	End Day	End Time
4/21/2021	12:01:00 PM	4/21/2021	2:00 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

Cause: There was a backup in the sewer on Horbart street. Water filled a manhole that had an abandon force main discharge point in it. Water flowed through the pipe and pushed the plug out of the other end of the pipe and discharged unto the ground.

EGLE Action: SSO report reviewed. No further action taken at this time

#### Totals Cadillac CM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00500**

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

#### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HP8-35P7-GXJNK

Start Day	Start Time	End Day	End Time
4/17/2021	2:15:00 PM	4/17/2021	2:15 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00001**

Cause:            The station became inoperable after a component (safe pac) malfunctioned causing the station to fail.

Location:        Grinder Pump Station 9A

EGLE Action:    Compliance communication and VN sent previously to address SSOs.

#### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HP8-MM6Z-2R9EN

Start Day	Start Time	End Day	End Time
5/10/2021	6:14:00 PM	5/10/2021	6:28 PM

Raw Sewage (MG)      Partially Treated (MG)      Dilute Raw Sewage (MG)  
**0.00003**

Cause:            LMSA's contractor was making a repair to the discharge lines and check valve. Due to the highwater table surrounding Lake Mitchell, the excavation site became unstable. Ground material fell on the PVC curb valve and check valve and forced it from it ori

Location:        1762 South Lake Mitchell Drive - 15C GPS

EGLE Action:    VN-011933 issued

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HPA-W3R2-VCJ87

Start Day	Start Time	End Day	End Time
8/10/2021	2:15:00 AM	8/10/2021	2:30 AM

Rain(in.) = 3.5

Waterbody: Swamp wetlands directly East of the lift stat

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00030**

Cause: The Operation & Maintenance Technician responded to a high water alarm at SPS 1B at 1:50 a.m. on August 10, 2021. Upon arrival at 2:25 a.m, the Technician observed the station discharging. The discharge ended approximately 5 minutes after the Technician

Location: Lift Station 1B

EGLE Action: Review report, refer LMSA to enforcement

### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HPA-X16E-DK5Q0

Start Day	Start Time	End Day	End Time
8/11/2021	9:15:00 AM	8/11/2021	9:30 AM

Raw Sewage (MG)

Partially Treated (MG)

Dilute Raw Sewage (MG)

**0.00020**

Cause: Consumer Energy had a power outage that occurred in part of the LMSA sewer system and other areas in Cadillac as well. There was a severe storm with heavy rainfall and strong winds the night before. It was not raining during the time of the discharge.

Location: Lift station 1A

EGLE Action: LMSA referred to EGLE, WRD enforcement section

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HPA-X452-NFBBS

Start Day	Start Time	End Day	End Time
8/11/2021	5:30:00 PM	8/11/2021	5:45 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.00040**

Cause: On Wednesday, August 11, 2021, the Lake Mitchell Sewer Authority was affected by a Consumer's Energy power outage due to a severe storm with heavy rainfall/wind. Some of the LMSA sewer customers without power operate portable generators to power their re

Location: Grinder Pump Station 44A

EGLE Action: LMSA referred to WRD enforcement

### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HPA-XJP6-VCHJ4

Start Day	Start Time	End Day	End Time
8/11/2021	7:25:00 PM	8/11/2021	7:38 PM

Raw Sewage (MG) Partially Treated (MG) Dilute Raw Sewage (MG)

**0.00050**

Cause: On Wednesday, August 11, 2021, the Lake Mitchell Sewer Authority was affected by a Consumer's Energy power outage due to a severe storm with heavy rainfall in the area from the night before. When the power was restored, at approximately at approximately 7

Location: SPS 2B 3601West 13th Street

EGLE Action: LMSA referred to WRD enforcement unit

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Submission ID. HPA-XNCJ-M5S65

Start Day	Start Time	End Day	End Time
8/11/2021	7:37:00 PM	8/11/2021	8:25 PM

Waterbody: Wetlands directly east of the lift station

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00250</b>		

Cause: At approximately 7:40p.m., lift station 1B, that is located on East Lake Mitchell Drive experienced a sewer overflow. This was due to the surge of sewer flow after the power was restored to the upstream grinder and lift pump stations. The lift station int

Location: SPS 1B located at 1754 East Lake Mitchell Drive

EGLE Action: LMSA referred to WRD enforcement section

### Totals Lake Mitchell Sewer Authority (former Wexford Co DPW) CM

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.00304</b>		<b>0.00090</b>





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

## 'Sanitary Sewer Overflow ' Detail Report January 1 - December 31, 2021

### Mesick WWTP

#### Mesick WWTP

Submission ID. HP9-6RDW-V480C

Start Day	Start Time	End Day	End Time
5/24/2021	12:00:00 AM	6/3/2021	12:00 PM

Waterbody: 11 Mile Road Drain

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.04500</b>		

Cause: Was notified by a resident on a walk on the evening of June 2, 2021 that he noticed water coming down the hillside. When I arrived I found the water coming from a manhole located half way down the hill, below the level of the road. I checked the next ma

Location: Right-of-way

EGLE Action: No further actions taken at this time

#### Totals Mesick WWTP

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.04500</b>		

#### County Totals

#### Wexford

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>0.05304</b>		<b>0.00090</b>

#### Report Totals

Raw Sewage (MG)	Partially Treated (MG)	Dilute Raw Sewage (MG)
<b>16.60107</b>	<b>85.70959</b>	<b>191.16141</b>

MG = million gallons

CSO/RTB discharges are as a result of wet weather. Dry weather CSO/RTB discharges are also classified as SSOs.