



Michigan Department of Environmental Quality

Combined Sewer Overflow (CSO), Sanitary
Sewer Overflow (SSO), and Retention
Treatment Basin (RTB) Discharge
2014 Annual Report

(January 1, 2014 -
December 31, 2014)



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 Department of Environmental Quality (DEQ) 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 the DEQ 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 for 2013](#)
- [CSO/SSO & RTB Discharge Annual Report for 2012](#)
- [CSO/SSO & RTB Discharge Annual Report for 2011](#)
- [CSO/SSO & RTB Discharge Annual Report for 2010](#)
- [CSO/SSO & RTB Discharge Annual Report for 2009](#)
- [CSO/SSO & RTB Discharge Annual Report for 2008](#)
- [CSO/SSO Annual Report for 2007, **Special Feature: 20 Years of Progress in CSO Control in Michigan \(1988 to 2008\)**](#)
- [CSO/SSO Annual Report for 2006](#)

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Annual Report Contents

Information Regarding Annual Report Series

Page #

A MESSAGE FROM THE DIRECTOR

INTRODUCTION	1
What Is the Difference between a Sanitary Sewer System and a Combined Sewer System?	1
In General, What are CSOs, SSOs, and RTB Discharges?	1
What Laws Require Reporting of Releases?	4
Who Will Let Me Know Whether the Water Is Safe for Swimming, Fishing, or Canoeing?	4
How Does Intergovernmental Cooperation Help Fund Infrastructure Improvements?	4
Who Do I Contact for More Information?	5
DISTRICT CONTACTS BY COUNTY	6
REPORT TERMS AND ACRONYMS	7

WASTEWATER TREATMENT	10
How is Wastewater Treated?	10
What is Blending?	10
What is Bypassing?	11

COMBINED SEWER OVERFLOWS and RETENTION TREATMENT BASINS	12
What are Combined Sewer Overflows and What Causes Them?	12
How are CSOs Addressed?	12
What is the Main Challenge for Communities to Address in Controlling CSOs?	13
Did We Make Progress in 2014?	14
What Data Does the Detailed CSO and RTB Report (Appendix 4) Contain?	16
CSO Summary Report	17
How Does 2014 Compare to Previous Years?	19

SANITARY SEWER OVERFLOWS	23
What are Sanitary Sewer Overflows?	23
What causes an SSO?	23
How Does the Sewage end up in the Environment?	24
How are SSOs Addressed?	24
What Factors Might Justify Longer-Term Plans for Stopping Chronic SSOs?	25
Did We Make Progress in 2014?	25
What Data Does the Detailed SSO Report (Appendix 5) Contain?	25
SSO Report Summary (by Volume)	26
How Does 2014 Compare to Previous Years?	31

APPENDIX 1: MCL 324.3112a and MCL 324.3112c	A-1 thru A-3
APPENDIX 2: BLENDING DETAIL REPORT 2014	Blending-1 thru Blending-4
APPENDIX 3: BYPASS DETAIL REPORT 2014	Bypass-1 thru Bypass-23
APPENDIX 4: COMBINED SEWER OVERFLOW (CSO) AND RETENTION TREATMENT FACILITY (RTF) DETAIL REPORT 2014	CSO-1 thru CSO-73
APPENDIX 5: SANITARY SEWER OVERFLOW (SSO) DETAIL REPORT 2014	SSO-1 thru SSO-131

A Message from the Director

Michigan is defined by its abundant sources of fresh water. 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 2014 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 2014 Michigan experienced above average rainfall throughout the state, and this is evident in calendar year 2014 data. This demonstrates the significant impact that annual precipitation totals have on discharges from sewerage systems. The record precipitation and resulting flooding experienced in the Detroit Metro area in August 2014 is an example of how extreme events, especially in urbanized areas, can be particularly impactful. While rainfall in 2014 was above average, CSO controls implemented throughout the state continue to show remarkable success in keeping raw sewage from entering surface waters. The yearly totals of untreated SSOs continue to follow the precipitation trends. However, progress is being made, and we are hopeful that continued progress in addressing SSOs will be evident in future years.

Featured below are some of the calendar year 2014 achievements, which highlight the steady gains we are making toward our long-term goals.

- The DEQ awarded more than \$128 million in loans through the State Revolving Fund to local units of government, with \$74.5 million used to address CSO and SSO problems.
- Large-scale sewer separation projects continue in the cities of Grand Rapids, Port Huron, Manistee, St. Joseph, Sault Ste. Marie, Wakefield, and Manistique. The cities of Detroit, Dearborn, and others continue work to provide retention treatment basins for control of untreated CSOs to the Rouge River Watershed in southeast Michigan.
- In 2013 the DEQ began an initiative to promote programs aimed at pursuing and achieving sustainable wastewater infrastructure. Such programs are referred to as asset management programs. To help communities prepare for this initiative, the Storm Water, Asset Management, and Wastewater (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. In December 2013 the SAW grant and loan applications were received, and in early 2014 it was announced that 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.

For more information and to see how your community may be affected, please visit our Web site at: <http://www.michigan.gov/degwater>; click on *Wastewater*, then click on *Surface Water*, and then click on *Sanitary and Combined Sewer Overflow*.

Thank you for your support in providing a healthy environment that is so important to Michiganders' physical, social, cultural, and economic well-being.

Sincerely,

Keith Creagh, Director
Department of Environmental Quality

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, the DEQ 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?

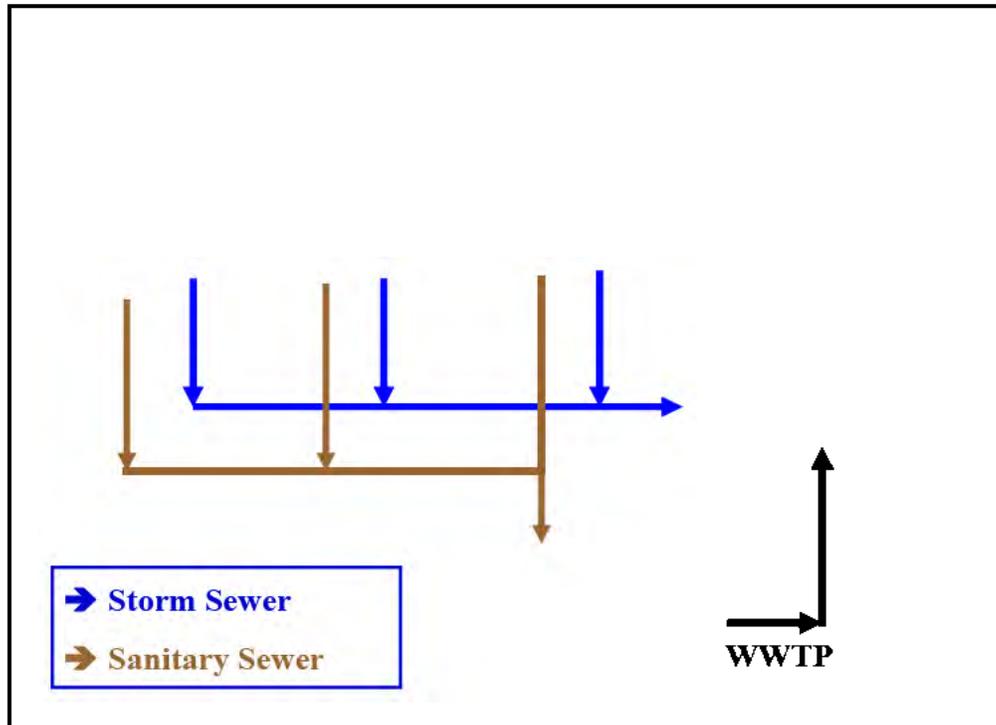
In order to understand the difference between a CSO and an SSO, it is necessary to understand some basics of sewer system design. Separate sanitary sewers are designed to carry only sanitary sewage to a wastewater treatment plant (WWTP) (see Figure 1); storm water is directed to a nearby river, lake, 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: www.michigan.gov/deqstormwater 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 rain water 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 of the captured sewage and rain water back to the system to be routed to the WWTP for treatment.

In General, What are SSOs, CSOs, and RTB discharges?

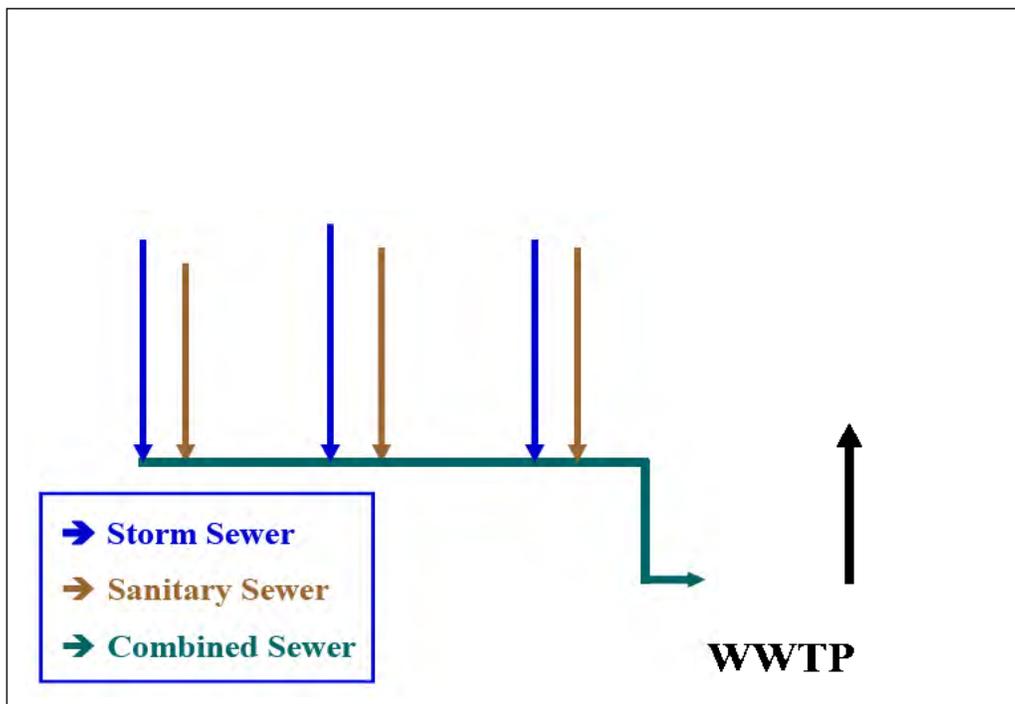
SSOs are releases of raw sewage from separate sanitary sewer collection systems, which are designed to carry sanitary sewage but not storm water. CSOs (untreated discharge) are releases of raw sewage from older combined sewer collection systems designed to carry both sanitary sewage and storm water. 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



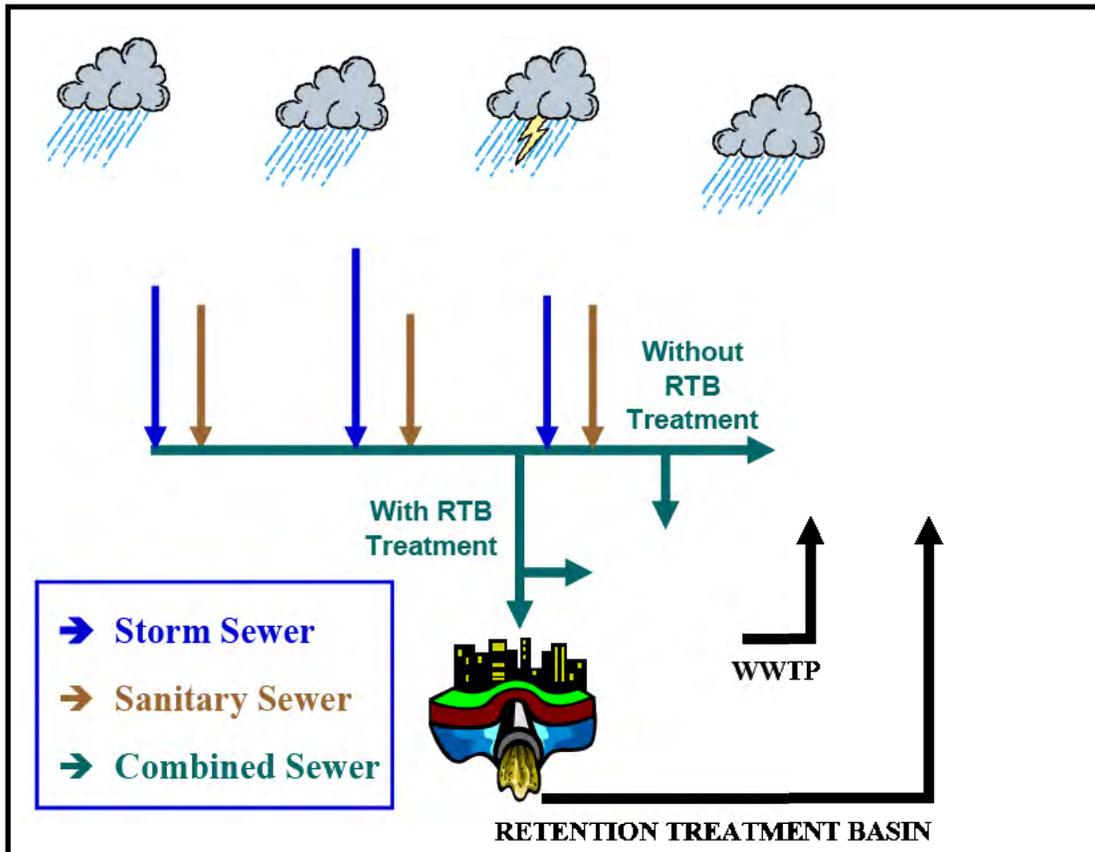
WWTP = wastewater treatment plant

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. The DEQ 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).

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 on-line through the State of Michigan Beach Monitoring Web site found at: www.deq.state.mi.us/beach. Phone books 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 just over \$4.25 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 \$450M is allocated to provide grants and loans under SAW. A grant recipient must proceed with a project for which grant funding is provided within 3 years of grant award. For the asset management grant, this means significant progress as determined by the DEQ 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.

Who Do I Contact for More Information?

While compiling the information in this report, the DEQ identified some data integrity issues and other related problems. These problems and issues were eliminated whenever possible. The DEQ 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 www.mi.gov/sewagedischarge.



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 DEQ tracking number assigned to an event. If you have questions about a specific event, or need additional information, providing this number to the DEQ 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 millions of gallons) 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 the DEQ.

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) (separated by *** where multiple points of discharge occurred during a single event). 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 the DEQ 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 nonsanitary 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; rain water 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.

DEQ: Michigan Department of Environmental Quality

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

MH: Manhole

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

mg/l: Milligrams per liter, concentration unit equivalent to parts per million.

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.

PS: Pump station

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).

TSS: Total Suspended Solids

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% to 50% 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% to 90% 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 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.

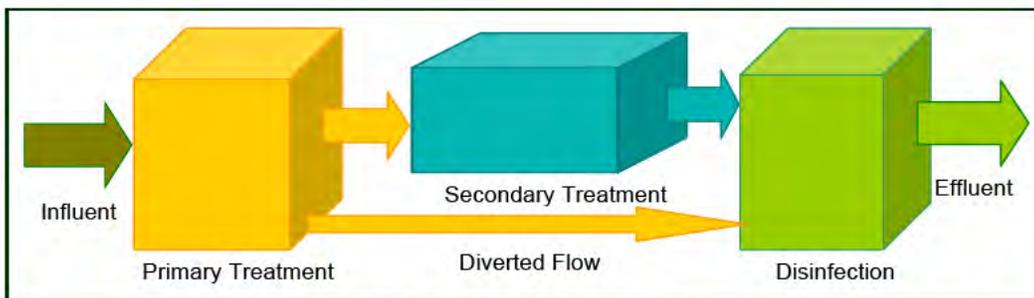


Figure 5: Wastewater Treatment Process - Blending Condition

The term “blending” is used specifically for an anticipated wet weather treatment scenario approved by the DEQ 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 the DEQ remedial design standard. Currently, there are very few approved blending scenarios in Michigan, and the DEQ 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 2 (pages Blending 1 to 4) contains blended effluent discharges reported in 2014 for facilities with approved blending scenarios in their NPDES permit. There were 12 blending events reported in 2014 representing a volume of 335.8 million gallons.

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, the DEQ 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 3 (pages Bypass 1 to 23) contains bypass effluent discharges reported in 2014. There were 46 bypass events reported in 2014 representing a volume of 304.8 million gallons.

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.

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.



The Department's Paul Blakeslee (former Field Operations Chief) Paul Zugger (former Surface Water Quality Division Chief) and Tom Kamppinen (Municipal Facilities, Grants and Loans) in front of an Oakland County CSO RTB as part of the Rouge Project (1994).

Did We Make Progress in 2014?

Precipitation in Michigan in 2014 was above average. According to the National Oceanic and Atmospheric Administration (NOAA), the annual precipitation total for all of Michigan in 2014 was 36.67 inches. Based on NOAA data, the long-term average annual precipitation for Michigan (data from 1895-2014) is approximately 31.42 inches. The resulting impacts of above average precipitation on 2014 wet weather discharges are evident in 2014 numbers. With consideration for the above, we believe we are making progress in controlling wet weather discharges.



Untreated CSO Outfall during discharge

Each year we track elimination of CSO outfalls. While no CSO outfalls were reported as eliminated in 2014, other significant work is ongoing. 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 LTCPs is continuing in various areas of the State of Michigan. This includes ongoing sewer separation projects that are being conducted in the cities of Grand Rapids, Port Huron, Manistee, St. Joseph, Sault Sainte Marie, Wakefield and Manistique, among others; and large construction projects by the cities of Detroit, Dearborn, and others, to provide RTBs for overflows to the Rouge River Watershed in southeast Michigan. Continuing implementation, including design and construction of projects which occurred during calendar year 2014, will lead to elimination of additional CSOs in future years.

The Detroit WWTP, through implementation of their LTCP, greatly influences statewide data. Recent annual reports, based upon the fact that discharges from a Detroit outfall (050A) receive primary treatment through the Detroit plant but lack disinfection, characterized these discharges as primary treated excess flow without disinfection (not untreated). The department has reconsidered how this discharge should be classified. Because 050A does not currently receive disinfection, it poses a greater public health concern than discharges from RTBs that provide disinfection. Therefore, beginning with the 2013 annual report, it was decided that it is appropriate to group the discharge from outfall 050A with discharges from untreated CSOs in the pie chart below and in Figure 11.

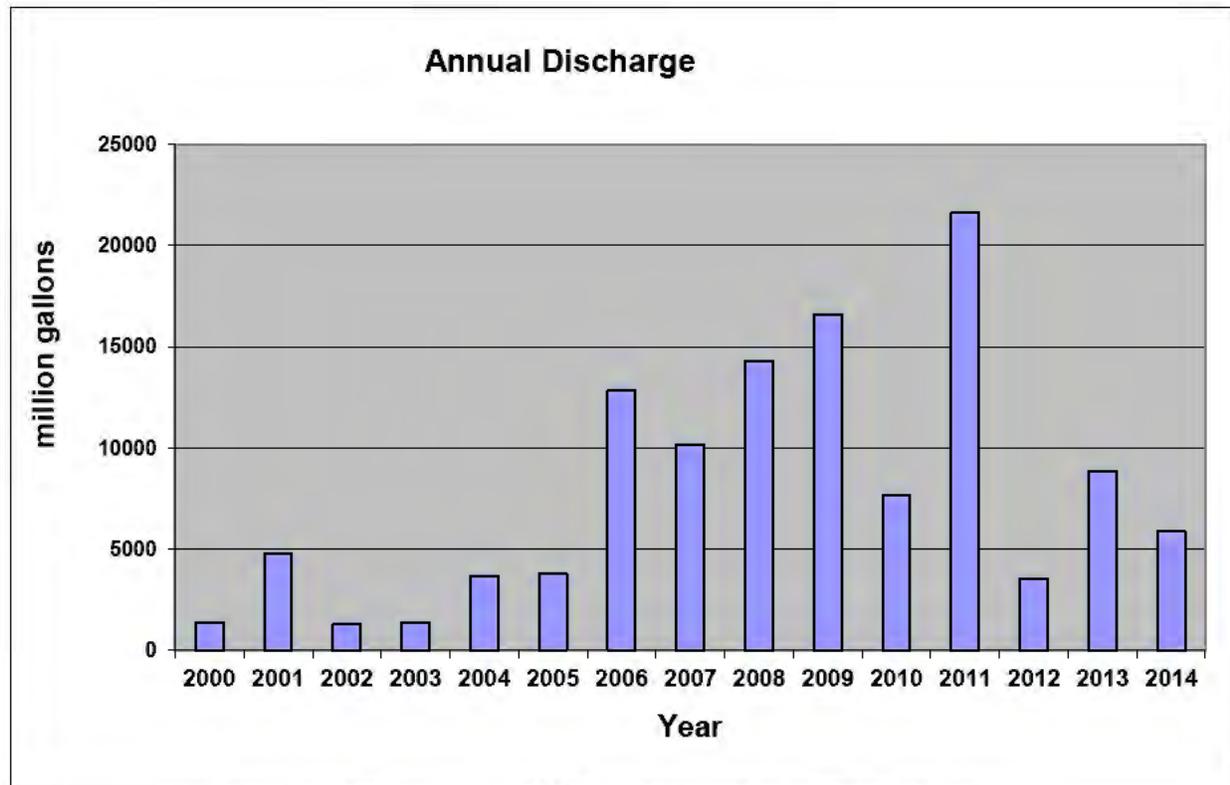


Figure 6: Discharge in MG from Detroit Outfall 050A per year

Figure 6 illustrates that the completion of the LTCP component of Detroit's program has successfully reduced CSOs. Former CSO flow that was discharged into the Rouge and Detroit Rivers through CSO outfalls is now treated at the Detroit WWTP using preliminary and primary treatment. This partially treated flow is discharged into the Rouge River through an outfall called Outfall 050A. As Figure 6 indicates, average annual discharge from 050A for the years 2006 thru 2014 was nearly 11,300 MG per year (11.3 billion gallons). Considering the annual discharge from outfall 050A from 2000-2004 was approximately 2,500 MG/year



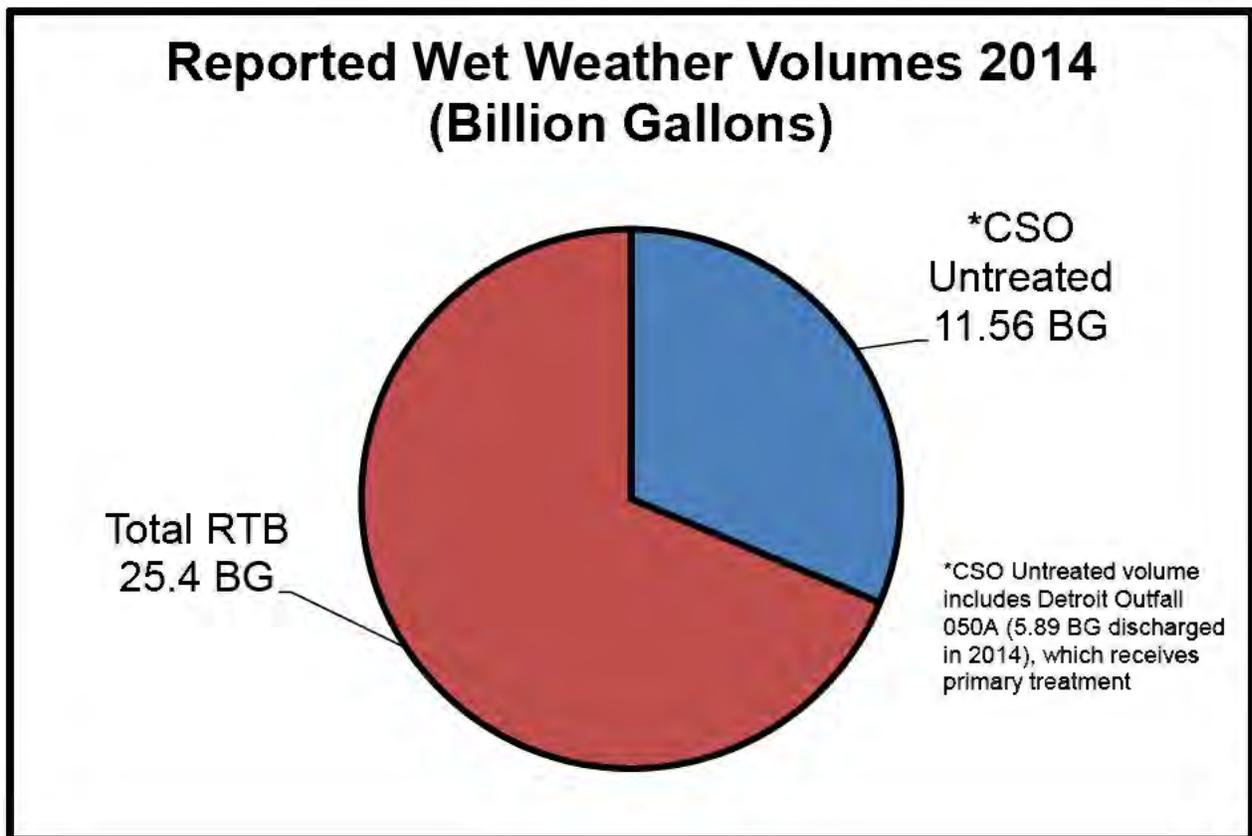
Jodi Peace, DEQ Compliance Staff with Melvin Murphy, Head Sewage Plant Operator and Mike Jurbin, Detroit WWTP Laboratory Superintendent at Primary Clarifier 18.

(2.5 billion gallons), this represents an increase of nearly 9 billion gallons per year on average, along with a corresponding decrease of upstream CSOs. This was due to the completion of the 2005 LTCP project component (that included the addition of the two large clarifiers). The Detroit LTCP further requires disinfection and dechlorination of this flow to be completed along with

another project component that is associated with a Rouge River outfall, and then public health will be fully protected.

What Data Does the Detailed CSO and RTB Report (Appendix 4) Contain?

The data contained in the appended CSO and RTB Report was reported (as required by law) to the DEQ by the responsible parties. During the report period from January 1, 2014, through December 31, 2014, there were 450 events reported for a total volume of approximately 36.96 billion gallons. It is noteworthy that a significant portion of this total volume, approximately 25.4 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 WQS for discharges containing human sewage (i.e., R323.1062 of the Part 4 Rules). Finally, 5.89 billion gallons represents partially treated discharge from the Detroit WWTP Outfall 050A; this volume received full primary treatment without disinfection. As described above, the 2014 report classifies discharges from Outfall 050A into the untreated CSO discharge category in the pie chart below.



Combined Sewer Overflow (CSO) Summary Report

January 1, 2014 - December 31, 2014

<i>Entity Name</i>	<i>Untreated Volume (MG)</i>	<i>Partially Treated Volume (MG)</i>	<i>Treated Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
Detroit	3789	5889	18830	72	Wayne	CSO-14
Dearborn	719.2	0	344.4	57	Wayne	CSO-7
Lansing	521.9	0	0	45	Ingham	CSO-26
Southgate / Wyandotte	310.8	0	1138	29	Wayne	CSO-58
Wayne Co/Inkster	107.4	0	61.47	32	Wayne	CSO-66
Wayne Co/Inkster/Dearborn Hts	69.64	0	0	27	Wayne	CSO-69
Wayne Co/Redford/Livonia	58.09	0	5.92	15	Wayne	CSO-72
Manistee WWTP	46.76	0	0	9	Manistee	CSO-37
Wayne Co/Dearborn Heights	24.67	0	28.17	20	Wayne	CSO-63
Redford Township	14.09	0	0	15	Wayne	CSO-49
Port Huron	9.5	0	0	21	St Clair	CSO-46
St. Joseph	2.07	0	0	14	Berrien	CSO-60
Manistique	0.28	0	0	3	Schoolcraft	CSO-38
Sault Ste Marie	0.23	0	0	1	Chippewa	CSO-56
Oakland Co SOCSDS 12 Towns	0	0	2513	8	Oakland	CSO-44
Saginaw	0	0	950.8	9	Saginaw	CSO-53
Milk River Intercounty Drainage	0	0	528.1	17	Wayne	CSO-40
8 1/2 Mile Relief Drain Drainage	0	0	313.5	9	Macomb	CSO-1
Bay City	0	0	221.5	5	Bay	CSO-3
North Houghton Co W&SA	0	0	180.1	6	Houghton	CSO-43
Saginaw Township	0	0	140.8	8	Saginaw	CSO-55
Mt. Clemens	0	0	45.34	3	Macomb	CSO-42
River Rouge	0	0	39.72	7	Wayne	CSO-51
Beverly Hills / Birmingham	0	0	22.99	5	Oakland	CSO-4
Bloomfield Twp, Bloomfield Hills	0	0	14.54	2	Oakland	CSO-6
Birmingham	0	0	10.49	2	Oakland	CSO-5
Essexville	0	0	4.8	1	Bay	CSO-23
Iron Mountain / Kingsford	0	0	4.16	6	Dickinson	CSO-24

<i>Entity Name</i>	<i>Untreated Volume (MG)</i>	<i>Partially Treated Volume (MG)</i>	<i>Treated Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
East Lansing	0	0	2.88	2	Ingham	CSO-22
Totals:	5,674	5,889	25,400	450		

How Does 2014 Compare to Previous Years?

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

Michigan communities have eliminated 78% of the 613 CSO outfalls that existed in 1988 and the remaining 22% are scheduled for elimination through implementation of LTCPs. On average, since 2003, there have been nearly five CSO outfalls eliminated or redirected to RTBs per year (Figure 7).

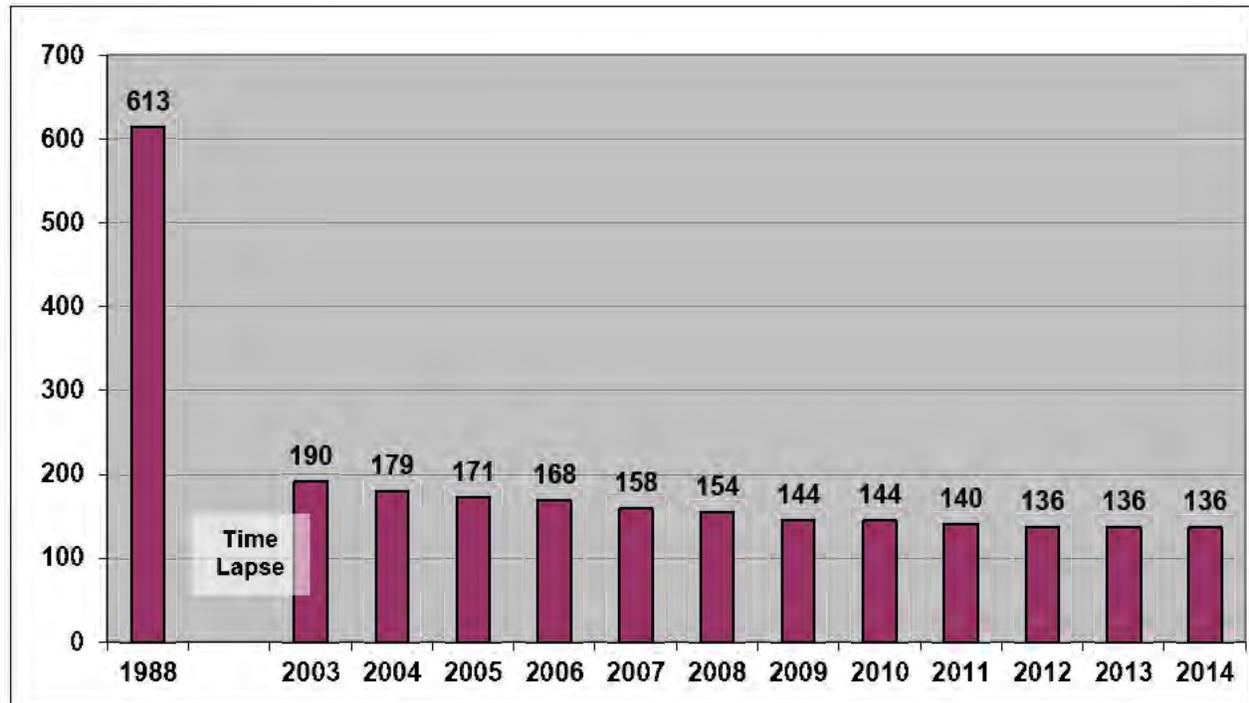


Figure 7: Number of CSO Outfalls by Year

In general, with respect to the number of 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 2014, there were 450 overflow events.

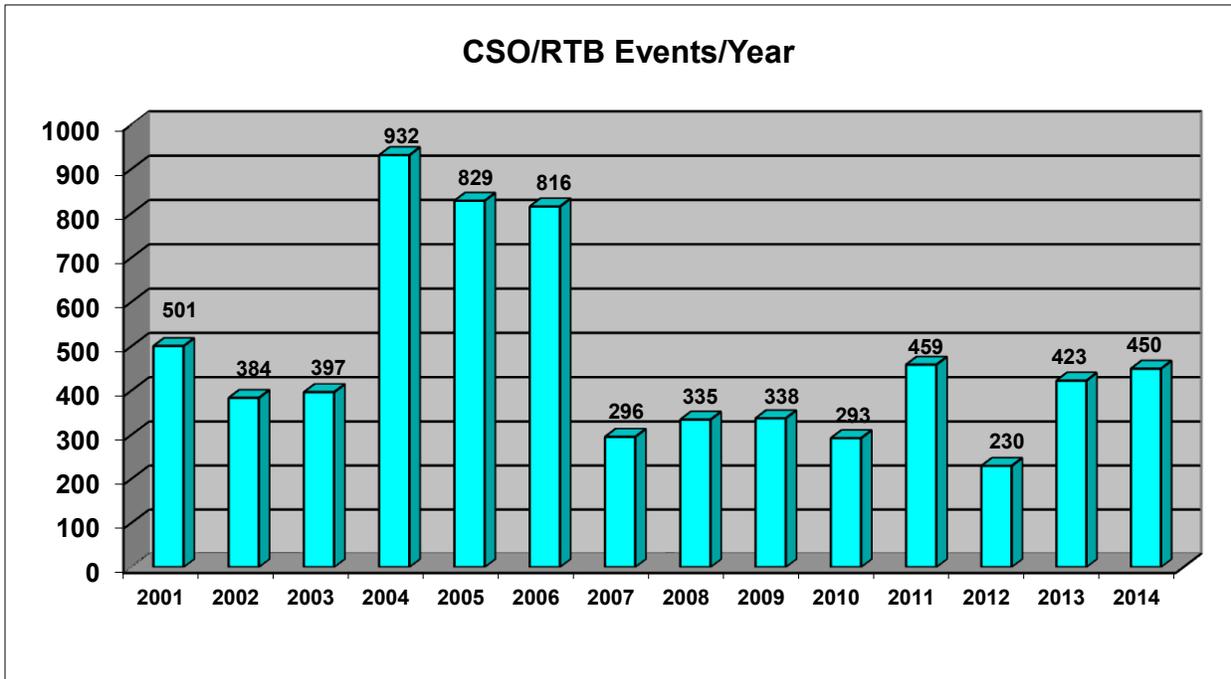


Figure 8: Number of Reported CSO and RTB Discharge Events/Year (Years 2004 – 2006 Explained Above)

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 2014 (36,963 MG, Figure 9), reflects the annual precipitation rates (Figure 10).

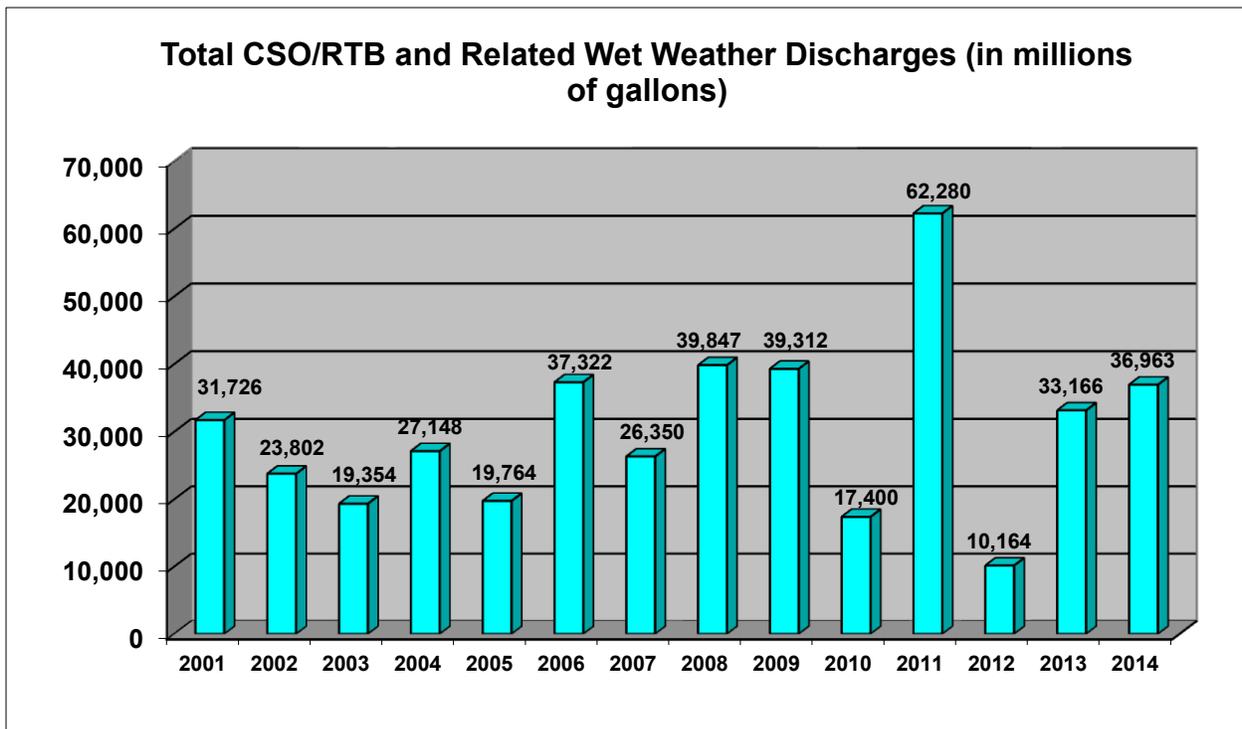


Figure 9: Total CSO, RTB, and Related Wet Weather Discharges Reported Volume (MG/Year)

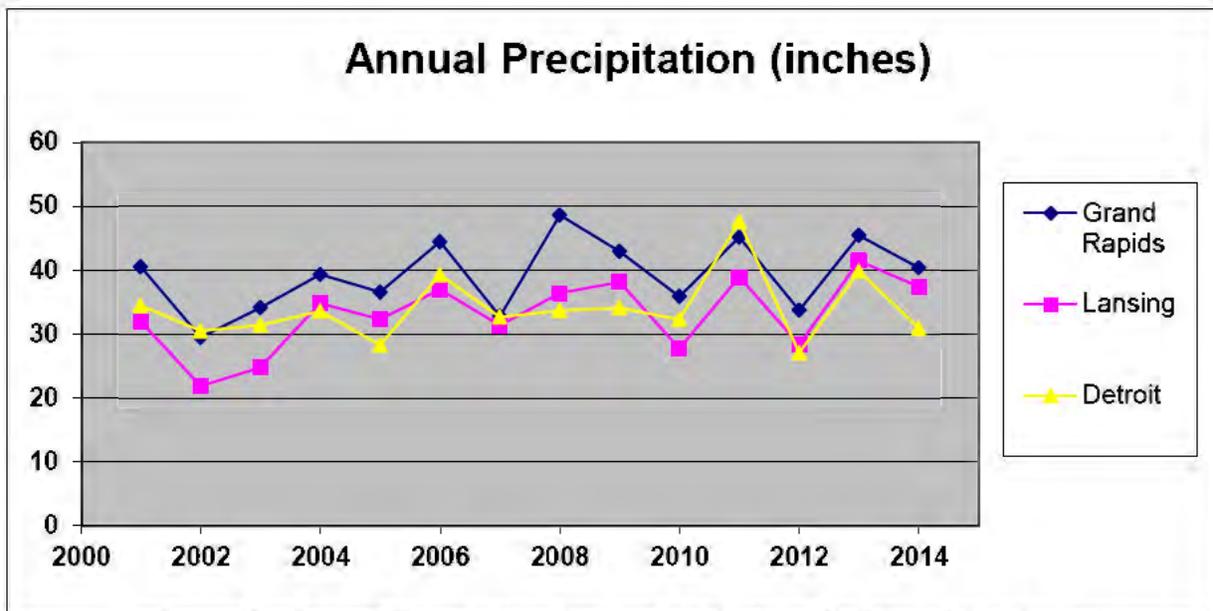


Figure 10: Annual Precipitation (Inches) for Various Michigan Cities/Year

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 11). 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.

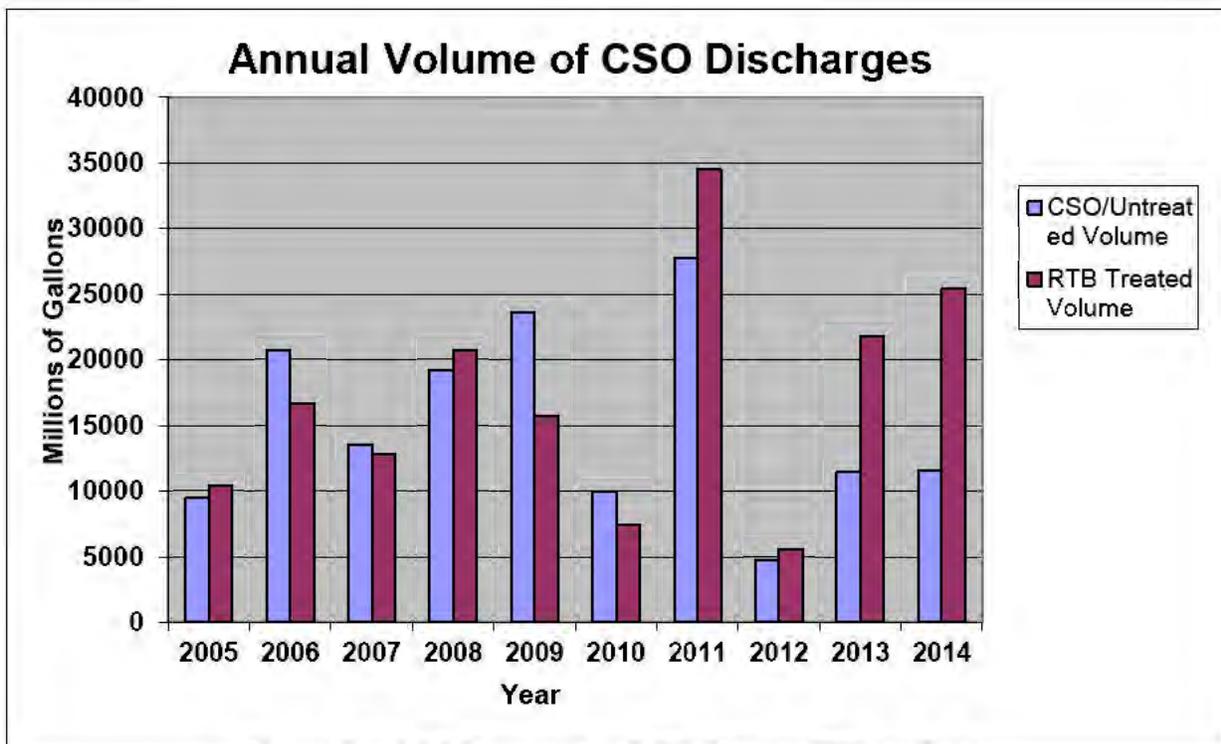
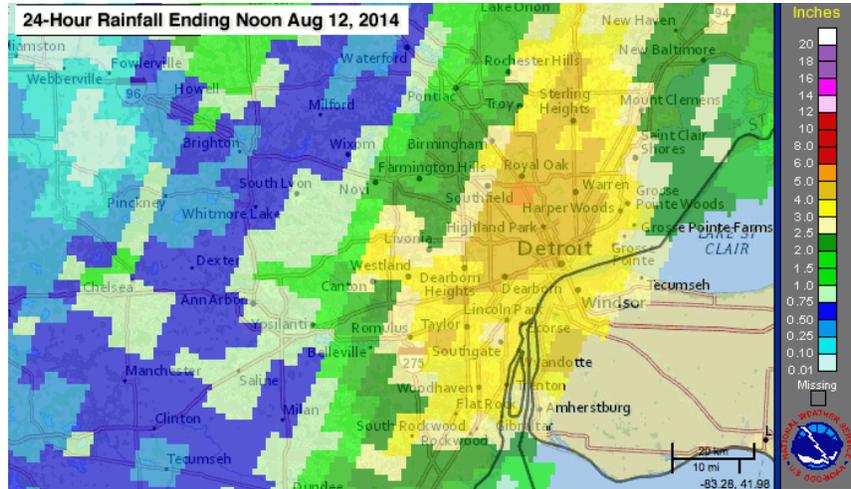


Figure 11: CSO/Untreated and RTB Volume (MG per Year)

It should be noted that while 2014 annual rainfall totals both statewide and in the Southeast Michigan area decreased from 2013 totals, both the number of CSO and RTB events and the volume of CSO and RTB discharges increased from 2013 to 2014. This can primarily be attributed to the August 11, 2014 extreme rainfall event that occurred in Southeast Michigan. Reported rainfall totals in affected areas averaged approximately 4.6 inches (with the highest reported rain gauge exceeding 6 inches) in a 10-12 hour period. Discharge reports for RTB discharges from Southeast Michigan facilities during this storm total approximately 5.3 billion gallons, while those from untreated CSO outfalls total approximately 2.9 billion gallons. The August 11, 2014 rainfall event is an example of how extreme events, especially in urbanized areas, can be particularly impactful to annual discharge volumes.



Rainfall amounts in the 24-hour period ending at noon EDT August 12, 2014, for Southeast Michigan. A wide area of 4+ inches of rain fell across Detroit and its northern suburbs. Image credit: wunderground.com via the National Weather Service.



Abandoned cars sit under a flooded bridge at Rotunda Drive and Schaefer in Dearborn on Tuesday, August 12, 2014. Image credit: Kimberly P. Mitchell/Detroit Free Press

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 the DEQ 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, the DEQ 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, the DEQ 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 the DEQ’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: www.michigan.gov/degwater, select “Wastewater” then “Sanitary and Combined Sewer Overflow.”

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.

Did We Make Progress in 2014?

During calendar year 2014, low interest loan funding was awarded for many projects through the SRF to address SSOs, including the following: sanitary sewer rehabilitation projects in a number of communities throughout the state, construction of the Middlebelt transportation and storage tunnel as part of the Oakland County Water Resources Commissioner’s Evergreen Farmington Sewage Disposal District, sewage infrastructure improvements in the Village of Parma, and a number of WWTP improvement projects around the state, among others. A number of other communities also completed planning efforts with state previously awarded grant funds to determine the necessary remedial measures to address SSO problems, with the intent of seeking future SRF or other funding to complete the necessary construction.

What Data Does the Detailed SSO Report (Appendix 5) Contain?

The data contained in the attached Detailed SSO Report (Appendix 5) was reported (as required by law) to the DEQ by the responsible entities. During the report period from January 1, 2014, through December 31, 2014, there were 245 events reported for a total SSO volume of approximately 754 MG (see Figures 12 and 13). SSOs for the past year are summarized and listed by volume in the following table.

Sanitary Sewer Overflow (SSO) Summary Report

January 1, 2014 - December 31, 2014

<i>Entity Name</i>	<i>Total Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
Martin Retention Treatment Basin	290.7	6	Macomb	SSO-73
Detroit	266.5	2	Wayne	SSO-34
Flint	91.05	4	Genesee	SSO-38
Gogebic-Iron Wastewater Authority	18.66	6	Gogebic	SSO-46
Warren	14.80	2	Macomb	SSO-122
Dearborn	12.37	5	Wayne	SSO-29
Buena Vista Township	12.12	1	Saginaw	SSO-12
Dearborn Heights	7.2	1	Wayne	SSO-31
Center Line	6.57	2	Macomb	SSO-18
Monroe	5.522	1	Monroe	SSO-76
Oakland County Drain Commissioner	3.507	6	Oakland	SSO-85
Northfield Township	3.192	2	Livingston	SSO-84
St. Joseph	2.751	2	Berrien	SSO-107
Sterling Heights	2.7	1	Macomb	SSO-108
Colfax Twp	2.5	1	Huron	SSO-25
Melvindale	2.35	1	Wayne	SSO-74
Lincoln Park	1.89	1	Wayne	SSO-68
Clinton Township	1.71	4	Macomb	SSO-23
Owosso	1.5	1	Shiawassee	SSO-91
Grosse Ile	1.047	3	Wayne	SSO-49
Cassopolis	0.756	6	Cass	SSO-16
Reese	0.7	1	Tuscola	SSO-98
Lathrup Village	0.575	1	Oakland	SSO-66
Beecher Metropolitan District	0.55	2	Genesee	SSO-7
Rockwood	0.5376	1	Wayne	SSO-99
Iron River, City of	0.4833	2	Iron	SSO-57
Troy	0.2376	1	Oakland	SSO-116
General Motors	0.2266	2	Livingston	SSO-41
Benton Charter Township	0.15	2	Berrien	SSO-8

Sanitary Sewer Overflow (SSO) Summary Report

January 1, 2014 - December 31, 2014

<i>Entity Name</i>	<i>Total Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
Saline	0.146	1	Washtenaw	SSO-102
Corunna	0.13	1	Shiawassee	SSO-27
St. Johns	0.11	1	Clinton	SSO-106
Port Sanilac	0.1	2	Sanilac	SSO-95
Manistee WWTP	0.072	1	Manistee	SSO-72
Jamestown Charter Township	0.06408	2	Ottawa	SSO-58
Lakewood Wastewater Authority	0.05885	5	Ionia	SSO-62
Galien River SD Sewer Authority	0.05562	5	Berrien	SSO-40
Genoa-Oceola Sewer Authority	0.0501	2	Livingston	SSO-44
Union City	0.05	1	Branch	SSO-120
Coldwater	0.04	1	Branch	SSO-25
Caspian, City of	0.035	1	Iron	SSO-15
Williamston	0.0252	1	Ingham	SSO-130
Muskegon County	0.0251	2	Muskegon	SSO-78
Lexington	0.025	2	Sanilac	SSO-68
Ontwa Township	0.0235	3	Cass	SSO-88
Rochester	0.02264	1	Oakland	SSO-98
Roscommon	0.0225	1	Roscommon	SSO-100
Genoa Twp	0.02	1	Livingston	SSO-44
Tyrone Twp	0.016	3	Livingston	SSO-117
Chikaming Township	0.015	2	Berrien	SSO-22
Fenton	0.015	1	Genesee	SSO-37
Traverse City	0.01492	6	Grand Traverse	SSO-114
Three Rivers	0.0126	2	St Joseph	SSO-113
Harbor Springs Area SDA	0.012	2	Emmet	SSO-52
Lake Charter Township	0.011	3	Berrien	SSO-62
Wayne Co/Dearborn Heights	0.01041	1	Wayne	SSO-123
Country Estates	0.01004	2	Oakland	SSO-28
Quincy	0.01	1	Branch	SSO-97

Sanitary Sewer Overflow (SSO) Summary Report

January 1, 2014 - December 31, 2014

<i>Entity Name</i>	<i>Total Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
St. Louis	0.01	1	Gratiot	SSO-108
Sylvan Township	0.0095	4	Washtenaw	SSO-109
Benton Harbor	0.0095	2	Berrien	SSO-8
Bay County	0.0089	2	Bay	SSO-6
Grand Rapids	0.0086	4	Kent	SSO-48
Pontiac	0.00735	2	Oakland	SSO-93
Commerce Twp	0.0072	1	Oakland	SSO-26
Lyndon Township	0.0071	1	Washtenaw	SSO-71
Wexford County DPW	0.0062	2	Wexford	SSO-127
Livingston County Drain Commissioner	0.0061	5	Livingston	SSO-69
Selfridge Air National Guard Base	0.00554	1	Macomb	SSO-103
Genesee County Drain Commissioner	0.0051	4	Genesee	SSO-42
BASF Corporation	0.00501	3	Wayne	SSO-4
Salem Twp	0.005	1	Washtenaw	SSO-101
Spring Hill Camp	0.004	1	Osceola	SSO-106
Kalamazoo	0.00362	4	Kalamazoo	SSO-59
Otsego Paper Inc	0.0035	1	Allegan	SSO-90
Tittabawassee Township	0.00323	1	Saginaw	SSO-114
Evergreen MHP	0.003	1	Ionia	SSO-35
GM LLC Pontiac Powertrain	0.003	1	Oakland	SSO-45
Holland Charter Township	0.003	1	Ottawa	SSO-54
Plymouth Twp.	0.003	1	Wayne	SSO-92
Chain of Lakes Sewer Authority	0.0025	1	Newaygo	SSO-19
Leonard Gardens MHC	0.0025	1	Kent	SSO-67
Tyrone Wood	0.00225	2	Livingston	SSO-119
Chesaning	0.00225	1	Saginaw	SSO-21
Avalanche Bay Water Park	0.002	1	Charlevoix	SSO-4
South Haven	0.002	1	Van Buren	SSO-105

Sanitary Sewer Overflow (SSO) Summary Report

January 1, 2014 - December 31, 2014

<i>Entity Name</i>	<i>Total Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
Vermontville	0.002	1	Eaton	SSO-120
Wheatland Twp	0.002	1	Mecosta	SSO-128
Hamburg Twp	0.0015	2	Livingston	SSO-51
Constantine	0.0015	1	St Joseph	SSO-27
Farmington Hills	0.00143	1	Oakland	SSO-36
Caledonia Township	0.00132	2	Kent	SSO-13
Allegan	0.0012	1	Allegan	SSO-1
Bingham Farms	0.0012	1	Oakland	SSO-9
Ann Arbor	0.00119	4	Washtenaw	SSO-1
Brighton Township	0.001	5	Livingston	SSO-11
Flushing	0.001	1	Genesee	SSO-39
Michigan Cogeneration Venture	0.001	1	Midland	SSO-75
Novi	0.0008	1	Oakland	SSO-85
Newaygo	0.0006	2	Newaygo	SSO-82
Wyoming	0.0006	1	Kent	SSO-130
Muskegon, City of	0.0005	1	Muskegon	SSO-81
Wamplers Lake	0.0005	1	Lenawee	SSO-121
Fenton Township	0.0004	1	Genesee	SSO-37
Silvershores MHC	0.0004	1	Grand Traverse	SSO-104
Ypsilanti Community Utilities Authority	0.00036	1	Washtenaw	SSO-131
Lansing	0.0003	1	Ingham	SSO-65
Parma	0.0003	1	Jackson	SSO-91
Delta Township	0.00025	1	Eaton	SSO-33
Manistique	0.00025	1	Schoolcraft	SSO-73
Howell Estates	0.0002	1	Livingston	SSO-55
Howell Township	0.0002	1	Livingston	SSO-55
Wayne County Airport	0.0002	1	Wayne	SSO-124
Dowagiac	0.00015	1	Cass	SSO-35
New Buffalo	0.0001	1	Berrien	SSO-82

Sanitary Sewer Overflow (SSO) Summary Report

January 1, 2014 - December 31, 2014

<i>Entity Name</i>	<i>Total Volume (MG)</i>	<i>Reported Events</i>	<i>County</i>	<i>Appendix Page #</i>
Orleans Township	0.0001	1	Ionia	SSO-89
Powers Spalding	0.0001	1	Menominee	SSO-96
Battle Creek	0.00008	1	Calhoun	SSO-6
Western Township Utility Authority	0.00007	3	Wayne	SSO-126
Hillshire Brands-Zeeland	0.00007	2	Ottawa	SSO-53
Bloomfield Township	0.00005	1	Oakland	SSO-10
Kristana MHC	0.00005	1	Clinton	SSO-61
Southern Clinton County	0.00004	2	Clinton	SSO-105
Kinross Township	0.00003	1	Chippewa	SSO-61
West Bloomfield Township	0.00003	1	Oakland	SSO-125
White Lake Township	0.00003	1	Oakland	SSO-129
Tudor Estates LLC	0.00003	1	Genesee	SSO-117
Country Acres MHP	0.00002	1	Allegan	SSO-28
Independence Township	0.00002	1	Oakland	SSO-56
Norton Shores	0.00001	1	Muskegon	SSO-84
Reed City	Unspecified	1	Osceola	SSO-97
Charlevoix	Unspecified	1	Charlevoix	SSO-20
DEG Development Company, LLC	Unspecified	1	Kent	SSO-32
Interior Township, Trout Creek	Unspecified	1	Ontonagon	SSO-57
Ironwood Charter Township	Unspecified	1	Gogebic	SSO-58
Portage-Base Lakes Sewage Authority	Unspecified	1	Washtenaw	SSO-95
Warren Dunes State Park	Unspecified	1	Berrien	SSO-123
Totals:	754.2 MG	245		

How Does 2014 Compare to Previous Years?

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

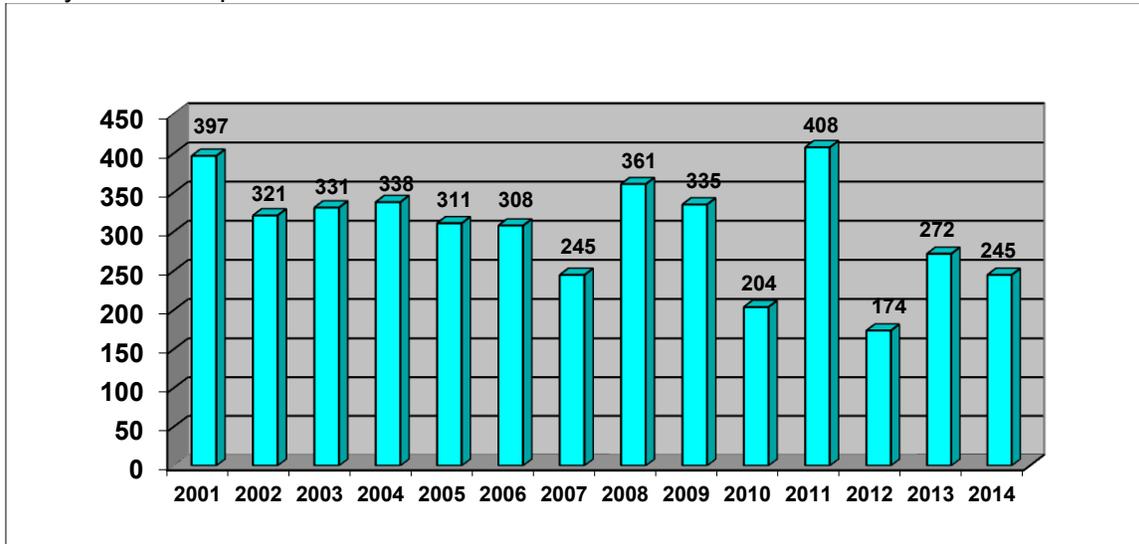


Figure 12: Number of SSO Events/Year

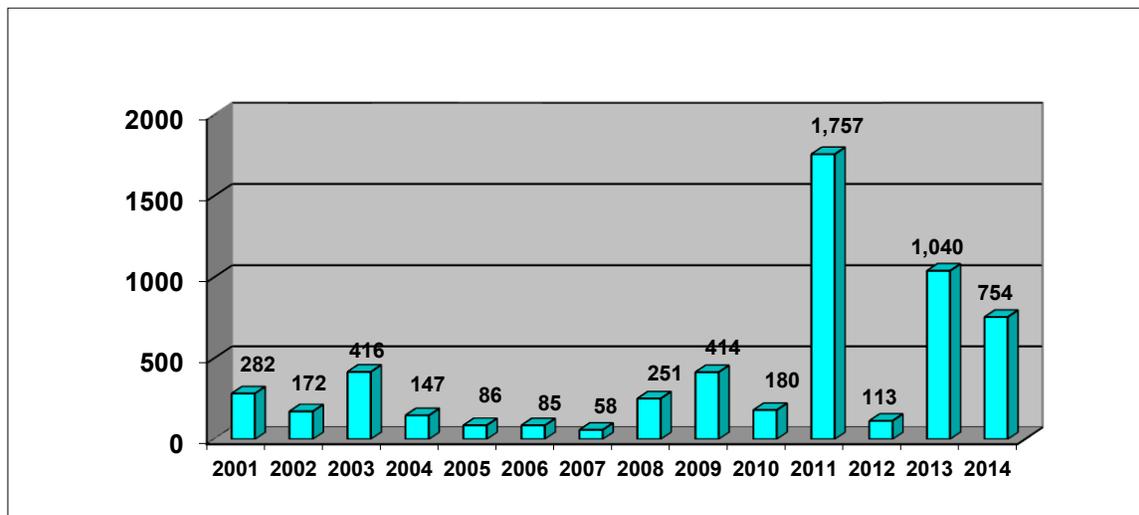


Figure 13: SSO Total Volume/Year (in Millions of Gallons)

As discussed in the CSO/RTB section above, above average precipitation totals in 2014 resulted in a marked increase in wet weather discharges in Michigan, similar to 2013. While 2014 numbers for CSO/RTB discharges were significantly impacted by the August 11, 2014 extreme event, SSO numbers were not, since the path of the storm primarily affected combined sewer areas.

The DEQ 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 the DEQ SSO Policy Statement.

This Report was Prepared by: 

Michigan Department of Environmental Quality

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Keith Creagh, Director

Special thanks to the following technical staff and managers that contribute annually towards the development of this report: Peter Ostlund, Sonya Butler, Philip Argiroff, Mark Conradi; and the many staff in field operations that review the data and populate the database throughout the year.

WRD Database/Detailed Event Tables Coordinator: Kenneth Hozak
CSO/SSO Technical Specialist: Charles Hill
Report Coordinators: Charles Hill and Peter Ostlund

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

Blending Detail Report

January 1, 2014 - Decemeber 31, 2014

Downriver WWTP

County: Wayne

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15567	01/11/14 2:00 P	01/15/14 12:55 A	8.46 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Reached secondary treatment capacity
15669	02/21/14 4:00 A	02/21/14 11:00 A	3.15 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Secondary treatment was overwhelmed by primary treatment pumping
15751	03/12/14 4:00 A	03/12/14 7:30 A	3.08 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive snowmelt exceeded secondary capacity
15752	03/15/14 1:00 A	03/15/14 7:00 A	3.17 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive snowmelt exceeded secondary treatment capacity
15903	05/13/14 7:00 P	05/14/14 3:00 A	4.29 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive rain overwhelmed treatment capacity
15904	05/15/14 12:00 P	05/16/14 3:00 A	12.83 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive rain overwhelmed treatment capacity
15991	05/28/14 1:45 A	05/29/14 2:30 A	32.88 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive rainfall overwhelmed secondary treatment capacity

Blending Detail Report

January 1, 2014 - Decemeber 31, 2014

Downriver WWTP

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16038	06/18/14 12:30 P	06/19/14 5:35 P	22.3 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive rainfall overwhelmed secondary treatment capacity
16495	08/11/14 6:45 P	08/13/14 8:05 A	68.2 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive rainfall overwhelmed secondary treatment capacity
16765	09/10/14 4:00 P	09/11/14 6:00 A	35.13 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None entered, Waterbody: Trenton channel	Excessive rainfall overwhelmed secondary treatment capacity

Summary for Downriver WWTP:**10 of 10 Events with a Reported Volume Total SSO Volume Reported: 193.49 Million Gallons****Outfall Corrective Actions:**

Associated Outfall(s): Outfall 001C (Blended effluent) *** Outfall 001C (Blended effluent) *** Outfall 001C (Blended effluent) ***
 Outfall 001C (Blended effluent) *** Outfall 001C (Blended effluent) *** Outfall 001C (Blended effluent) ***
 Outfall 001C (Blended effluent) *** Outfall 001C (Blended effluent) *** Outfall 001C (Blended effluent) ***
 Outfall 001C (Blended effluent)

Corrective Action(s) Complete: Yes
 (repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: MDEQ review of NPDES permit indicates that the bypass of secondary treatment is allowed under the permit,

Actions to Prevent Reoccurrence: No corrective action required.

Comments: Bypass permitted under NPDES permit and former Federal Consent Judgement.

Blending Detail Report

January 1, 2014 - Decemeber 31, 2014

Downriver WWTP

County: Wayne

Warren

County: Macomb

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15930	05/28/14 7:03 P	05/30/14 2:25 P	57.2 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None, Waterbody: Red Run Drain (tributary to Clinton River)	Heavy rain caused retention basin to overflow
16503	08/12/14 6:35 A	08/14/14 6:25 A	85.1 Million Gallons	Blended	Outfall 001C (Blended effluent). Land: None, Waterbody: Red Run Drain (tributary to Clinton River)	Extremely heavy rain caused retention basin to overflow

Summary for Warren:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 142.3 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	Outfall 001C (Blended effluent) *** 9 mile PS *** 9 mile PS *** Outfall 001C (Blended effluent)	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	The NPDES permit requires construction of all SSO projects to be completed by December 1, 2017	Schedule of Compliance Approved by MDEQ: Yes
Actions by MDEQ:	NPDES permit contains schedule to eliminate blending	
Actions to Prevent Reoccurrence:	Schedule in NPDES permit agreed upon by City	
Comments:	None entered	

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Andrews University

County: Berrien

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15654	02/24/14 1:00 A	02/24/14 8:00 A	0.025 Million Gallons	Partially treated sewage	Andrews University WWTP (Process pipe at WWTP). Land: Wastewater treatment Plant, Waterbody: Lemon Creek	Pipe failed due to frost causing partially treated wastewater to be lost from treatment system.

Summary for Andrews University: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.025 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bessemer Area Sewer Authority

County: Gogebic

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15843	05/01/14 2:00 A	05/18/14 12:00 P	12.23 Million Gallons	Diluted raw sewage	WWTP #2 Basin Overflow (At the WWTP from the #2 basin.). Land: NA, Waterbody: Calendar Creek	hydraulic overload from snowmelt and rain overflowed equalization basins

Summary for Bessemer Area Sewer Authorit: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 12.23 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Bessemer Township

County: Gogebic

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15952	06/01/14 7:00 A	06/13/14 7:00 A	7.1 Million Gallons	Partially treated sewage	Overflow into Black River. Land: None, Waterbody: Black River	late ice cover delayed treatment, let run conditions on water supply undermined treatment lagoon storage capacity

Summary for Bessemer Township:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 7.1 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Overflow into Black River

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: Yes

Actions by MDEQ: Entered into a District Compliance Agreement

Actions to Prevent Reoccurrence Initiate sewer system study

Comments: None entered

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Brevort Township

County: Mackinac

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16837	06/16/14 11:00 A	06/20/14 9:00 A	3.91 Million Gallons	Partially treated sewage	W2637 Brevort Lake Road (Lift Station). Land: surrounding soils, Waterbody: None entered	Late spring, full ice cover until early to mid may

Summary for Brevort Township:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 3.91 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Constine Communities Inc

County: Shiawassee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17033	03/20/14 12:00 P	03/28/14 10:15 A	0.02 Million Gallons	Partially treated sewage	Northwoods Communities - Outfall 001 (open discharge valve). Land: None entered, Waterbody: Kelly Drain #2	operator discovered discharge shear gate partially open from non-isolated cell due to locking mechanism failure

Summary for Constine Communities Inc:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.02 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Detroit

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16076	06/19/14 7:08 A	06/19/14 7:30 A	3.05 Million Gallons	Partially treated sewage	Outfall 049F. Land: None entered, Waterbody: Detroit River	Primary treated and disinfected sewage. ILP #3 tripped out. Was caused by electrical work being done at the WWTP at the time.
16077	07/07/14 3:00 P	07/07/14 7:35 P	122 Million Gallons	Partially treated sewage	Outfall 049F. Land: None entered, Waterbody: Detroit River	Undisinfected secondary treated wastewater/ Chlorine feed was turned off for emergency repairs to leaking chlorine diffuser hose.
16972	12/29/14 3:06 P	12/29/14 3:19 P	5 Million Gallons	Partially treated sewage	Outfall 049F. Land: None entered, Waterbody: Detroit River	Chlorine leak during the preventive maintenance check on chlorination equipment triggered automatic chorine supply shutoff.

Summary for Detroit:

3 of 3 Events with a Reported Volume Total SSO Volume Reported: 130.05 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Outfall 049F *** Outfall 049F *** Outfall 049F *** Outfall 049F

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: NPDES Permit requires implementation of CSO Control Plan **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: Issued NPDES Permit with CSO Control Program requirements to permittee.

Actions to Prevent Reoccurrence Corrective actions being implemented by the permittee.

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Detroit

County: Wayne

Comments:

None entered

Dundee

County: Monroe

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15764	03/19/14 5:00 A	03/27/14 9:30 A	10.417 Million Gallons	Blended	WWTP, outfall 001 (WWTP outfall). Land: none, Waterbody: River Raisin	Infiltration into the sanitary sewer resulting from elevated River Raisin river levels into the floodplain resulted in high influent flows exceeding the WWTP capacity. Partially treated sewage blended with fully treated final effluent.
15778	04/03/14 4:00 P	04/04/14 7:45 A	0.429 Million Gallons	Blended	WWTP, outfall 001 (WWTP outfall). Land: none, Waterbody: River Raisin	Rain resulted in excess flow in the sanitary sewer system. Excess flow was screened and diverted to a settling/storage basin; overflow from the basin blended with fully treated final effluent & discharged to the River Raisin.
15779	04/08/14 12:00 A	04/09/14 9:30 A	0.406 Million Gallons	Blended	WWTP, outfall 001 (WWTP outfall). Land: none, Waterbody: River Raisin	Rain resulted in excess flow in the sanitary sewer system. Excess flow was screened and diverted to a settling/storage basin; overflow from the basin blended with fully treated final effluent & discharged to the River Raisin.

Summary for Dundee:

3 of 3 Events with a Reported Volume Total SSO Volume Reported: 11.252 Million Gallons

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Dundee

County: Monroe

Outfall Corrective Actions:

Associated Outfall(s):	WWTP, outfall 001 (WWTP outfall) *** WWTP, outfall 001 (WWTP outfall) *** WWTP, outfall 001 (WWTP outfall)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluated response, response adequate.	
Actions to Prevent Reoccurrence	Reprogrammed autodialer	
Comments:	None entered	
<hr/>		
Associated Outfall(s):	WWTP, outfall 001 (WWTP outfall) *** WWTP, outfall 001 (WWTP outfall) *** WWTP, outfall 001 (WWTP outfall)	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluated response, response adequate.	
Actions to Prevent Reoccurrence	Sanitary sewer separation and I/I elimination	
Comments:	The Village of Dundee is required to complete a corrective action plan, system flow analysis, and system certification per ACO-000021.	

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Durand

County: Shiawassee

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
17039	05/12/14 3:00 P	05/12/14 8:00 P	0.143 Million Gallons	Partially treated sewage	Outfall 001-WWTP overflow (plant overflow). Land: None entered, Waterbody: Holly Drain	discharges due to extended heavy rainfall and I/I causing capacity to be exceeded.
17040	05/14/14 10:00 A	05/14/14 6:00 P	0.113 Million Gallons	Partially treated sewage	Outfall 001-WWTP overflow (plant overflow). Land: None entered, Waterbody: Holly Drain	discharges due to extended heavy rainfall and I/I causing capacity to be exceeded.
17046	05/21/14 4:00 A	05/21/14 12:00 P	0.54 Million Gallons	Partially treated sewage	Outfall 001-WWTP overflow (plant overflow). Land: None entered, Waterbody: Holly Drain	discharges due to extended heavy rainfall and I/I causing capacity to be exceeded.
17042	06/18/14 5:30 P	06/18/14 7:30 P	0.065 Million Gallons	Partially treated sewage	Outfall 001-WWTP overflow (plant overflow). Land: None entered, Waterbody: Holly Drain	extended heavy rainfall and I/I caused capacity to be exceeded.

Summary for Durand:

4 of 4 Events with a Reported Volume Total SSO Volume Reported: 0.861 Million Gallons

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Durand

County: Shiawassee

Outfall Corrective Actions:

Associated Outfall(s): Outfall 001-WWTP overflow (plant overflow) *** Outfall 001-WWTP overflow (plant overflow) *** Outfall 001-WWTP overflow (plant overflow) *** Outfall 001-WWTP overflow (plant overflow) ***

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: ACO

Actions to Prevent Reoccurrence continuing work required by ACO to remove I/I from system

Comments: None entered

Eaton Rapids

County: Eaton

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16994	10/09/14 9:00 A	10/09/14 9:15 A	0.0075 Million Gallons	Partially treated sewage	Eaton Rapids WWTP. Land: None entered, Waterbody: Grand River	Ultraviolet (UV) disinfection system was down during a test of the auxiliary generator, which caused a brief discharge of uninfected secondary effluent from the plant

Summary for Eaton Rapids: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.008 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Forsyth Twp., Gwinn

County: Marquette

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16113	07/22/14 3:00 P	07/25/14 3:00 P	0.06444 Million Gallons	Partially treated sewage	Escanaba River at lagoon discharge location. Land: None entered, Waterbody: Escanaba River	Broken Valve

Summary for Forsyth Twp., Gwinn: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.064 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Galien River SD Sewer Authority

County: Berrien

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16011	06/23/14 8:00 P	06/23/14 8:30 P	0.005 Million Gallons	Raw sewage	GRSD WWTP (Plant Lift Station). Land: Lawn area around valve Chamber, Waterbody: None	Primary Clarifier overflowed due to heavy rain while 2nd clarifier was out of service.

Summary for Galien River SD Sewer Author: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.005 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Hillshire Brands-Zeeland

County: Ottawa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16718	08/26/14 2:00 A	08/26/14 3:00 A	0.0075 Million Gallons	Raw sewage	WWTP (from the DAF tank). Land: Soils around the building housing the DAF unit, Waterbody: Blendon/Olive Drain via DeWitt Drain	The east dissolved air flotation tank overflowed due to a restriction in the tank discharge pipe.

Summary for Hillshire Brands-Zeeland: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.008 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): South Side of Production Facility (raw sewage from break in pipe joint)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Removed the clean-out piping.

Comments: None entered

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Holland

County: Ottawa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15773	04/07/14 9:00 A	04/07/14 9:30 A	0.0001 Million Gallons	Partially treated sewage	Wastewater Treatment Plant. Land: Grass lawn and gravel apron near primary clarifier, Waterbody: Macatawa River	During primary clarifier maintenance, a discharge hose pumping down the clarifier detached, spilling sewage onto pavement & lawn. Total loss ~4000 gallons, but only fraction got into the grass.

Summary for Holland: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Indian Trail N MHP

County: St Clair

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15950	05/22/14 9:00 A	05/22/14 10:00 A	0.16 Million Gallons	Blended	Distribution Crock. Land: Only directly around distribution crock., Waterbody: Ga briath Drain	Overflow from distribution crock resulting from a blocked line.

Summary for Indian Trail N MHP: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.16 Million Gallons

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Indian Trail N MHP

County: *St Clair*

Outfall Corrective Actions:

Associated Outfall(s): Distribution Crock

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Evaluation of SSO event has determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine O&M to prevent future reoccurrence.

Comments: None entered

Kalamazoo

County: *Kalamazoo*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15538	01/08/14 10:35 P	01/08/14 10:50 P	0.0005 Million Gallons	Raw sewage	Kalamazoo Water Reclamation Plant (KWRP) (KWRP). Land: None entered, Waterbody: Kalamazoo River	Tertiary waste valve #4 stuck open filling the mudwell which overflowed outside into the adjacent road. The water flowed into the storm catch basin which was captured by the KWRP storm retention system.

Summary for Kalamazoo:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0005 Million Gallons

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Kalamazoo

County: Kalamazoo

Outfall Corrective Actions:

Associated Outfall(s): Spring Valley Park Manhole (Manhole at inlet to Spring Valley Lake)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Plugged sewer main was cleaned out.

Comments: None entered

Marenisco Township

County: Gogebic

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15954	06/02/14 12:15 P	06/09/14 8:00 A	9.55 Million Gallons	Partially treated sewage	outfall 001. Land: None entered, Waterbody: Presque Isle River	out of season discharge from cell 1 for storage capacity

Summary for Marenisco Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 9.55 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

MDNR-Tahquamenon Falls SP WWSL

County: Chippewa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16834	06/06/14 2:00 P	06/09/14 11:00 A	0.6976 Million Gallons	Partially treated sewage	Tahquamenon Falls SP WWSL (Outfall from WWSL). Land: none, Waterbody: Tahquamenon River	Seasonal discharge. Late due to the prolonged winter and associated ice cover into May which made it impossible to discharge within the permit window

Summary for MDNR-Tahquamenon Falls SP WW: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.698 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Monroe

County: Monroe

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15777	04/07/14 9:40 P	04/07/14 10:10 P	0.435 Million Gallons	Partially treated sewage	2205 E. Front St (primary clarifier effluent well). Land: WWTP grounds, Waterbody: River Raisin	An electrical malfunction shut down primary wastewater pumps for approximately a half hour. As a result a tank overflowed screened and settled sewage to the ground and to the river.

Summary for Monroe: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.435 Million Gallons

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Monroe

County: Monroe

Outfall Corrective Actions:

Associated Outfall(s):	2205 E Front Street (grit vortex chamber)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Response evaluated; planned response adequate.	
Actions to Prevent Reoccurrence	Will install a plate in influent chamber to equalize flow to grit vortex units #1 & #2	
Comments:	None entered	
Associated Outfall(s):	2205 E. Front St (primary clarifier effluent well)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Response adequate.	
Actions to Prevent Reoccurrence	Reset electrical distribution panel; investigating source of electrical malfunction.	
Comments:	None entered	
Associated Outfall(s):	Monroe St Riverwalk (manhole)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Monroe

County: Monroe

Actions by MDEQ:	Response evaluated; response adequate.	
Actions to Prevent Reoccurrence	Secured bolt down lid with additional bolts; inspected all lids to ensure they are secure.	
Comments:	None entered	
Associated Outfall(s):	2205 E Front Street (grit vortex chamber) *** Monroe St Riverwalk (manhole)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Response adequate.	
Actions to Prevent Reoccurrence	Ongoing collection system rehabilitation throughout the City of Monroe to reduce I/I.	
Comments:	None entered	
Associated Outfall(s):	Outfall 001D	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluated event; effluent parameters are in compliance with NPDES permit limitations for outfall 001D; ongoing activites are in compliance with flow study requirements.	
Actions to Prevent Reoccurrence	Flow meters installed in collection system to find problem areas.	
Comments:	This activity is in compliance with the Collection System and Treatment Facility Flow Study required in the NPDES permit.	

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Ontonagon

County: *Ontonagon*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15835	04/30/14 8:00 A	04/30/14 11:59 P	0.915 Million Gallons	Partially treated sewage	lagoon 4. Land: None entered, Waterbody: ontonagon river	spring runoff (also let run conditions on water supply) overloading lagoon system
16094	07/21/14 8:00 A	07/31/14 8:00 A	22.32 Million Gallons	Partially treated sewage	lagoon 4. Land: None entered, Waterbody: ontonagon river	spring runoff overloaded lagoon system

Summary for Ontonagon:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 23.235 Million Gallons

Outfall Corrective Actions: *(No corrective actions entered)*

Pickford Township

County: *Chippewa*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16839	06/19/14 1:00 P	06/29/14 9:30 A	7.34 Million Gallons	Partially treated sewage	Pickford UA WWSL (WWSL outfall). Land: None entered, Waterbody: Munuscong River	"Lagoons vere filled to capacity".

Summary for Pickford Township:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 7.34 Million Gallons

Outfall Corrective Actions: *(No corrective actions entered)*

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Sault Ste Marie

County: Chippewa

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16510	04/07/14 4:30 P	04/08/14 3:10 A	0.29 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the plant exceeded the capacity of the secondary biological treatment portion of the WWTP.
16514	04/08/14 2:30 P	04/09/14 3:05 A	0.464 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the plant exceeded the capacity of the secondary biological treatment.
16485	04/09/14 1:45 P	04/10/14 10:00 A	0.582 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the WWTP exceeded the capacity of secondary treatment
16489	04/10/14 12:15 P	04/11/14 3:45 A	1.824 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the plant exceeded the capacity of the secondary biological treatment portion of the WWTP.
16509	04/11/14 3:30 P	04/12/14 1:30 A	0.704 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the plant exceeded the capacity of the secondary biological treatment portion of the WWTP.
16829	04/14/14 5:15 A	04/14/14 7:55 P	2.29 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow exceeded both the capacity of the secondary biological treatment and the ability

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Sault Ste Marie

County: Chippewa

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16830	04/20/14 8:45 A	04/21/14 12:25 P	1.745 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	of the collection system to convey all flow to the WWTP. The flow entering the plant exceeded the capacity of secondary treatment
16831	05/01/14 12:15 P	05/01/14 9:10 P	0.505 Million Gallons	Diluted raw sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the WWTP exceeded the capacity of the secondary portion of the plant
16840	09/10/14 6:45 P	09/10/14 11:30 P	0.29 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the plant during yesterday evenings' rain exceeded the capacity of the plant's secondary treatment
16843	10/14/14 12:00 P	10/15/14 3:00 A	2.75 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow exceeded the plant's secondary treatment capacity.
16904	11/23/14 10:00 P	11/25/14 12:00 A	4.7 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the treatment plant exceeded the capacity of the biological secondary treatment portion of the plant.

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Sault Ste Marie

County: Chippewa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16905	11/25/14 12:00 A	11/25/14 6:00 A	0.46 Million Gallons	Partially treated sewage	Sault Ste. Marie WWTP (secondary bypass). Land: None, Waterbody: St. Marys River	The flow entering the treatment plant exceeded the capacity of the biological secondary treatment portion of the plant

Summary for Sault Ste Marie: 12 of 12 Events with a Reported Volum Total SSO Volume Reported: 16.604 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Seney Township

County: Schoolcraft

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16836	06/16/14 8:00 A	06/18/14 8:00 A	0.8673 Million Gallons	Partially treated sewage	1710 W. First Street (check valve failure, sewage to ground). Land: residential, Waterbody: None entered	Late spring didn't allow proper lagoon treatment during the spring discharge timeframe

Summary for Seney Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.867 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

South Huron Valley

County: Wayne

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16776	09/10/14 8:00 P	09/11/14 4:19 A	3.62 Million Gallons	Blended	WWTP Sec. Bypass (Bypass around secondary treatment units). Land: None entered, Waterbody: Detroit River	Blending due to heavy rain.

Summary for South Huron Valley:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 3.62 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	WWTP Sec. Bypass (Bypass around secondary treatment units)	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	Schedule of compliance included in 2004 ACO and 2004 Court Order.	Schedule of Compliance Approved by MDEQ: Yes
Actions by MDEQ:	Issued ACO in 2004 and closed 2014	
Actions to Prevent Reoccurrence	Issued ACO in 2004 and closed 2014	
Comments:	None entered	

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Stannard Township

County: Ontonagon

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15842	04/30/14 10:00 A	05/08/14 11:00 A	0.312 Million Gallons	Partially treated sewage	stabilization lagoon (overflow to permitted outfall). Land: None entered, Waterbody: Clear Creek	lagoon overflowed from excess clear water from snowmelt and let run water lines to prevent freezing that entered collection system

Summary for Stannard Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.312 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Superior Township (Chippewa Co)

County: Chippewa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16838	06/18/14 3:00 P	06/21/14 3:00 P	6.6 Million Gallons	Partially treated sewage	WWSL (WWSL outfall). Land: None entered, Waterbody: Little Waiska	Drinking water system "let run" due to winter conditions, late spring pushed the ability to discharge treated sewage. After communicating with DEQ representative agreed to push discharge to 2nd week of June to obtain quality of discharge within perm

Summary for Superior Township (Chippewa : 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 6.6 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bypass Detail Report

January 1, 2014 - Decemeber 31, 2014

Wakefield

County: Gogebic

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15837	05/01/14 7:30 A	05/12/14 12:00 P	4.86 Million Gallons		outfall 001 (lagoon overflow event). Land: None entered, Waterbody: Planter Creek	lagoon overflow event due to excessive clear water
15953	06/02/14 8:00 A	06/14/14 8:00 A	65 Million Gallons	Partially treated sewage	outfall 001 (lagoon overflow event). Land: None entered, Waterbody: Planter Creek	late ice off and severe spring melt

Summary for Wakefield:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 69.86 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report January 1, 2014 - December 31, 2014

8 1/2 Mile Relief Drain Drainage District County: Macomb Permit Designated Name: Chapaton RTB

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15569	01/11/14 2:15 P	01/11/14 8:15 P	3.4 Million Gallons	3.4	/ 0	/ 0	001 - Lake St. Clair
15916	05/15/14 12:30 P	05/15/14 6:50 P	3.3 Million Gallons	3.3	/ 0	/ 0	001 - Lake St. Clair
15942	05/28/14 10:25 A	05/29/14 4:25 A	87.7 Million Gallons	87.7	/ 0	/ 0	001 - Lake St. Clair
16119	07/27/14 7:30 P	07/28/14 12:30 A	7 Million Gallons	7	/ 0	/ 0	001 - Lake St. Clair
16539	08/04/14 9:00 P	08/05/14 7:15 P	8.7 Million Gallons	8.7	/ 0	/ 0	001 - Lake St. Clair
16521	08/11/14 6:20 P	08/12/14 9:10 A	166.4 Million Gallons	166.4	/ 0	/ 0	001 - Lake St. Clair *** 002 - Lake St. Clair
17047	09/01/14 8:20 P	09/02/14 4:35 A	8.9 Million Gallons	8.9	/ 0	/ 0	001 - Lake St. Clair
16764	09/10/14 5:30 P	09/10/14 10:30 P	21.3 Million Gallons	21.3	/ 0	/ 0	001 - Lake St. Clair
16898	11/24/14 4:45 A	11/24/14 6:15 P	6.8 Million Gallons	6.8	/ 0	/ 0	001 - Lake St. Clair

Summary for 8 1/2 Mile Relief Drain Drainage District: 9 of 9 Events with a Reported Volume Total CSO Volume Reported: 313.5 Million Gallons

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

8 1/2 Mile Relief Drain Drainage District County: Macomb Permit Designated Name: Chapaton RTB

Control Program:

Long Term Control Program Due Date:	Submitted	Implementation status of U.S.	
Long Term Control Required by:	Permit	EPA's Nine Minimum Controls:	Implemented
Long Term Control Program Status:	Being implemented		

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. An "In-Stream Total Residual Chlorine (TRC) Effluent Plume Evaluation" is required by the permit (October 1, 2012) and shall identify the location and size of the TRC effluent plume during and after CSO discharge events and identify the maximum TRC concentrations in-stream at various downstream locations.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Bay City**County: Bay****Permit Designated Name: Bay City WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15911	04/13/14 1:00 A	04/15/14 9:00 P	104 Million Gallons	104	/ 0 /	0	048 - Saginaw River *** 014 - Saginaw River *** 013 - Saginaw River *** 018 - Saginaw River
15884	05/15/14 10:45 A	05/16/14 5:00 P	29.1 Million Gallons	29.1	/ 0 /	0	048 - Saginaw River
17013	08/11/14 3:15 P	08/13/14 5:00 P	57.8 Million Gallons	57.8	/ 0 /	0	018 - Saginaw River *** 048 - Saginaw River *** 013 - Saginaw River *** 014 - Saginaw River *** 040 - Saginaw River
17012	11/24/14 1:00 P	11/25/14 8:00 A	17.4 Million Gallons	17.4	/ 0 /	0	048 - Saginaw River
17014	12/25/14 11:00 A	12/26/14 4:00 A	13.2 Million Gallons	13.2	/ 0 /	0	048 - Saginaw River

Summary for Bay City :**5 of 5 Events with a Reported Volume****Total CSO Volume Reported: 221.5 Million Gallons****Control Program:****Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** 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.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Beverly Hills / Birmingham
County: Oakland
Permit Designated Name: Oakland Co-Acacia Park CSO
Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15940	05/28/14 1:00 P	05/28/14 9:15 P	4.08 Million Gallons	4.08	/ 0 /	0	103 - Rouge River
16477	08/11/14 6:24 P	08/12/14 4:50 A	14.06 Million Gallons	14.06	/ 0 /	0	103 - Rouge River
16549	08/21/14 11:15 P	08/22/14 2:40 A	1.91 Million Gallons	1.91	/ 0 /	0	103 - Rouge River
16746	09/10/14 5:05 P	09/10/14 7:35 P	1.05 Million Gallons	1.05	/ 0 /	0	103 - Rouge River
16885	11/24/14 3:05 A	11/24/14 12:05 P	1.889 Million Gallons	1.889	/ 0 /	0	103 - Rouge River

Summary for Beverly Hills / Birmingham : **5 of 5 Events with a Reported Volume** **Total CSO Volume Reported: 22.989 Million Gallons**

Control Program:

Long Term Control Program Due Date: 7/1/1999

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

Long-term Control Program being implemented; retention/treatment basin (RTB) construction complete and facility is "on-line"; no remaining untreated overflow outfalls; RTB has been shown to provide treatment that meets criteria for elimination of raw sewage & protection of public health, protection of dissolved oxygen standard, protection of physical characteristic standard, and no significant impact on downstream biological communities. 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.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Birmingham**County: Oakland****Permit Designated Name: Birmingham CSO RTB****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15938	05/28/14 12:25 P	05/28/14 8:52 P	5.03 Million Gallons	5.03	/ 0 /	0	101 - Rouge River
16476	08/11/14 6:45 P	08/12/14 11:00 A	5.46 Million Gallons	5.46	/ 0 /	0	101 - Rouge River

Summary for Birmingham :**2 of 2 Events with a Reported Volume****Total CSO Volume Reported: 10.49 Million Gallons****Control Program:****Long Term Control Program Due Date:** 7/1/1999**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program being implemented; retention/treatment basin (RTB) construction complete and facility is "on-line"; no remaining untreated overflow outfalls; RTB has been shown to provide treatment that meets criteria for elimination of raw sewage & protection of public health, protection of dissolved oxygen standard, protection of physical characteristic standard, and no significant impact on downstream biological communities. 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.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Bloomfield Twp, Bloomfield Hills & Birmin County: Oakland Permit Designated Name: Bloomfield Village CSO RTB

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated	Untreated	
15937	05/28/14 2:23 P	05/29/14 12:05 A	3.11 Million Gallons	3.11	/ 0	/ 0	103 - Rouge River via Luz & Nichols
16478	08/11/14 6:37 P	08/12/14 3:20 A	11.43 Million Gallons	11.43	/ 0	/ 0	103 - Rouge River via Luz & Nichols

Summary for Bloomfield Twp, Bloomfield Hills & Birmingham County: 2 of 2 Events with a Reported Volume Total CSO Volume Reported: 14.54 Million Gallons

Control Program:

Long Term Control Program Due Date: 7/1/1999

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

Long-term Control Program being implemented; retention/treatment basin (RTB) construction complete and facility is "on-line"; no remaining untreated overflow outfalls; RTB has been shown to provide treatment that meets criteria for elimination of raw sewage & protection of public health, protection of dissolved oxygen standard, protection of physical characteristic standard, and no significant impact on downstream biological communities. 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.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>				<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/</i>	<i>Treated</i>	<i>/</i>		<i>Untreated</i>
15561	01/10/14	10:12 P	01/11/14	3:31 P	37.28 Million Gallons	0	/	0	/	37.28	001 - Rouge River, Lower Branch *** 014 - Rouge River *** 013 - Rouge River *** 005 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
15568	01/11/14	6:30 P	01/11/14	8:52 P	7.48 Million Gallons	7.48	/	0	/	0	117 - Rouge River
15651	02/20/14	12:10 P	02/21/14	12:17 A	22.39 Million Gallons	0	/	0	/	22.39	004 - Rouge River, Lower Branch *** 013 - Rouge River *** 005 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 014 - Rouge River *** 003 - Rouge River, Lower Branch
15652	02/21/14	2:00 A	02/21/14	7:58 A	3.24 Million Gallons	3.24	/	0	/	0	117 - Rouge River
15731	03/08/14	4:01 A	03/08/14	6:32 A	0.48 Million Gallons	0	/	0	/	0.48	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
15732	03/10/14	7:12 A	03/10/14	7:23 P	5.7 Million Gallons	0	/	0	/	5.7	014 - Rouge River *** 013 - Rouge River *** 004 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch
15772	04/03/14	3:50 P	04/03/14	5:50 P	0.29 Million Gallons	0	/	0	/	0.29	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
15780	04/07/14	6:30 P	04/08/14	5:13 A	3.24 Million Gallons	0	/	0	/	3.24	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

EventID	Start Date/Time		End Date/Time		Event Volume	Partially Treated / Treated / Untreated				Point(s) of Discharge	
15832	04/29/14	4:50 A	04/29/14	11:53 A	7.38 Million Gallons	0	/	0	/	7.38	003 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River *** 001 - Rouge River, Lower Branch
15838	04/29/14	10:30 A	04/29/14	1:16 P	1.04 Million Gallons	1.04	/	0	/	0	117 - Rouge River
15839	04/29/14	9:19 P	04/30/14	3:33 A	1.99 Million Gallons	0	/	0	/	1.99	013 - Rouge River *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
15850	05/07/14	7:44 A	05/07/14	10:45 A	1.99 Million Gallons	0	/	0	/	1.99	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
15871	05/12/14	11:57 A	05/13/14	12:40 A	7.57 Million Gallons	0	/	0	/	7.57	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
15881	05/13/14	4:05 P	05/13/14	7:53 P	5.53 Million Gallons	0	/	0	/	5.53	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
15899	05/14/14	11:52 P	05/15/14	1:31 P	4.35 Million Gallons	0	/	0	/	4.35	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River *** 002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch
15921	05/27/14	4:39 P	05/28/14	2:45 A	26.84 Million Gallons	0	/	0	/	26.84	001 - Rouge River, Lower Branch *** 014 - Rouge River *** 013 - Rouge River *** 005 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>	
15929	05/27/14	11:45 P	05/28/14	4:39 P	1.85 Million Gallons	1.85	/	0 / 0	106 - Rouge River, Lower Branch
15926	05/28/14	1:58 P	05/28/14	4:31 P	0.88 Million Gallons	0	/	0 / 0.88	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
15959	06/02/14	6:09 P	06/02/14	10:38 P	1.18 Million Gallons	0	/	0 / 1.18	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
15960	06/04/14	4:07 P	06/04/14	5:22 P	0.1 Million Gallons	0	/	0 / 0.1	013 - Rouge River *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
15970	06/08/14	11:29 A	06/08/14	12:42 P	0.1 Million Gallons	0	/	0 / 0.1	013 - Rouge River *** 003 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch
15973	06/11/14	5:23 A	06/11/14	7:45 A	0.39 Million Gallons	0	/	0 / 0.39	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
16006	06/18/14	4:59 A	06/19/14	5:14 A	52.4 Million Gallons	0	/	0 / 52.4	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 005 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
16005	06/18/14	8:10 A	06/19/14	6:00 A	7.2 Million Gallons	7.2	/	0 / 0	117 - Rouge River *** 106 - Rouge River, Lower Branch
16037	06/24/14	12:17 P	06/24/14	5:32 P	4.02 Million Gallons	0	/	0 / 4.02	013 - Rouge River *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 014 - Rouge River
16036	07/01/14	3:43 A	07/01/14	5:34 A	4.18 Million Gallons	0	/	0 / 4.18	013 - Rouge River *** 002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 014 - Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

EventID	Start Date/Time		End Date/Time		Event Volume	Partially Treated / Treated / Untreated				Point(s) of Discharge	
16052	07/07/14	7:09 A	07/07/14	5:06 P	28.54 Million Gallons	0	/	0	/	28.54	004 - Rouge River, Lower Branch *** 013 - Rouge River *** 005 - Rouge River, Lower Branch *** 014 - Rouge River *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch
16053	07/08/14	11:59 A	07/08/14	4:34 P	0.97 Million Gallons	0	/	0	/	0.97	013 - Rouge River *** 003 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch
16087	07/14/14	4:59 A	07/14/14	8:33 A	1.68 Million Gallons	0	/	0	/	1.68	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16098	07/27/14	5:38 P	07/27/14	9:30 P	11.4 Million Gallons	0	/	0	/	11.4	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 005 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
16147	07/27/14	6:26 P	07/28/14	12:13 A	7.8 Million Gallons	7.8	/	0	/	0	117 - Rouge River
16125	08/03/14	7:52 P	08/03/14	10:41 P	4.35 Million Gallons	0	/	0	/	4.35	003 - Rouge River, Lower Branch *** 014 - Rouge River *** 004 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 013 - Rouge River
16153	08/04/14	4:19 P	08/04/14	7:37 P	0.88 Million Gallons	0	/	0	/	0.88	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16475	08/11/14	11:55 A	08/11/14	9:26 P	379.288 Million Gallons	0	/	0	/	379.288	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 005 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River *** 016 - Rouge River *** 015 - Rouge River
16486	08/11/14	2:50 P	08/12/14	9:10 P	275.12 Million Gallons	275.12	/	0	/	0	117 - Rouge River *** 106 - Rouge River, Lower Branch *** 108 - Rouge River, Lower Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
16494	08/12/14 7:20 P	08/12/14 8:56 P	1.18 Million Gallons	0	/ 0	/ 1.18	013 - Rouge River *** 003 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch
16533	08/19/14 6:16 P	08/19/14 11:43 P	2.31 Million Gallons	0	/ 0	/ 2.31	013 - Rouge River *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
16639	08/21/14 9:19 P	08/22/14 1:41 A	4.68 Million Gallons	0	/ 0	/ 4.68	013 - Rouge River *** 014 - Rouge River *** 004 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch
16721	09/01/14 1:28 P	09/01/14 8:18 P	7.38 Million Gallons	0	/ 0	/ 7.38	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
16725	09/02/14 12:44 P	09/02/14 2:25 P	11.4 Million Gallons	0	/ 0	/ 11.4	002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 014 - Rouge River *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 005 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
16732	09/04/14 7:00 P	09/04/14 8:27 P	2.51 Million Gallons	0	/ 0	/ 2.51	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16735	09/05/14 8:02 P	09/06/14 8:29 A	2.4 Million Gallons	0	/ 0	/ 2.4	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
16751	09/10/14 12:42 P	09/10/14 7:14 P	24.24 Million Gallons	0	/ 0	/ 24.24	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 005 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
16782	09/10/14 2:35 P	09/10/14 9:20 P	28.72 Million Gallons	28.72	/ 0	/ 0	117 - Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>				<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/</i>	<i>Treated</i>	<i>/</i>		<i>Untreated</i>
16784	09/13/14	4:43 A	09/13/14	7:29 A	1.78 Million Gallons	0	/	0	/	1.78	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16789	09/20/14	7:50 P	09/20/14	10:32 P	4.85 Million Gallons	0	/	0	/	4.85	001 - Rouge River, Lower Branch *** 014 - Rouge River *** 013 - Rouge River *** 004 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
16807	09/30/14	3:28 A	09/30/14	5:04 A	0.29 Million Gallons	0	/	0	/	0.29	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16812	10/02/14	9:18 P	10/02/14	11:58 P	0.88 Million Gallons	0	/	0	/	0.88	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
16813	10/03/14	10:16 A	10/03/14	12:52 P	0.29 Million Gallons	0	/	0	/	0.29	003 - Rouge River, Lower Branch *** 013 - Rouge River *** 001 - Rouge River, Lower Branch
16818	10/13/14	4:46 A	10/13/14	1:36 P	3.24 Million Gallons	0	/	0	/	3.24	014 - Rouge River *** 013 - Rouge River *** 004 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch
16823	10/14/14	5:28 P	10/14/14	11:21 P	7.19 Million Gallons	0	/	0	/	7.19	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River
16864	10/28/14	9:13 A	10/28/14	2:57 P	0.97 Million Gallons	0	/	0	/	0.97	001 - Rouge River, Lower Branch *** 013 - Rouge River *** 003 - Rouge River, Lower Branch
16870	10/31/14	6:47 P	11/01/14	12:43 A	1.28 Million Gallons	0	/	0	/	1.28	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16886	11/23/14	8:55 P	11/24/14	1:49 P	17.16 Million Gallons	0	/	0	/	17.16	001 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 004 - Rouge River, Lower Branch *** 005 - Rouge River, Lower Branch *** 013 - Rouge River *** 014 - Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Dearborn**County: Wayne****Permit Designated Name: Dearborn CSO****Reported Events:**

EventID	Start Date/Time		End Date/Time		Event Volume	Partially			Point(s) of Discharge		
						Treated	/	Untreated			
16894	11/24/14	12:26 A	11/24/14	5:18 A	11.98 Million Gallons	11.98	/	0	/	0	117 - Rouge River
16913	12/16/14	9:37 A	12/16/14	10:33 P	2.4 Million Gallons	0	/	0	/	2.4	001 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 013 - Rouge River
16938	12/24/14	6:37 A	12/24/14	10:15 P	7.38 Million Gallons	0	/	0	/	7.38	014 - Rouge River *** 013 - Rouge River *** 004 - Rouge River, Lower Branch *** 003 - Rouge River, Lower Branch *** 002 - Rouge River, Lower Branch *** 001 - Rouge River, Lower Branch

Summary for Dearborn :**57 of 57 Events with a Reported Volume Total CSO Volume Reported: 1063.628 Million Gallons****Control Program:****Long Term Control Program Due Date:** 7/1/2000**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

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 overflow outfalls by December 31, 2025; several outfalls and the associated overflows have already been eliminated.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit County: **Wayne** Permit Designated Name: **Detroit WWTP**

Reported Events:

EventID	Start Date/Time		End Date/Time		Event Volume	Partially			Point(s) of Discharge
						Treated	Treated /	Untreated	
15556	01/11/14	1:40 A	01/15/14	11:58 A	2394.08 Million Gallons	2394.08	/	0 / 0	107A - Rouge River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River
15555	01/11/14	3:32 A	01/14/14	10:49 A	453.53 Million Gallons	0	/	453.53 / 0	050A - Rouge River
15631	01/11/14	10:37 A	01/14/14	10:58 A	34.19 Million Gallons	0	/	0 / 34.19	018 - Detroit River *** 059 - Rouge River *** 007 - Detroit River
15647	02/20/14	6:10 P	02/23/14	8:46 A	873.11 Million Gallons	873.11	/	0 / 0	106A - Detroit River *** 107A - Rouge River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River
15786	02/20/14	6:54 P	02/22/14	1:54 A	0.08 Million Gallons	0	/	0 / 0.08	022 - Detroit River *** 063 - Rouge River
15646	02/20/14	9:57 P	02/21/14	8:53 P	219.51 Million Gallons	0	/	219.51 / 0	050A - Rouge River
15726	03/10/14	5:27 P	03/17/14	12:58 P	2567.22 Million Gallons	2567.22	/	0 / 0	104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River *** 049A - Detroit River *** 107A - Rouge River *** 106A - Detroit River
15725	03/10/14	6:33 P	03/16/14	5:03 A	334.59 Million Gallons	0	/	334.59 / 0	050A - Rouge River
15744	03/18/14	8:05 P	03/24/14	10:38 A	1000.06 Million Gallons	1000.06	/	0 / 0	107A - Rouge River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River
15753	03/19/14	5:40 P	03/20/14	8:38 A	60.3 Million Gallons	0	/	60.3 / 0	050A - Rouge River
15776	04/07/14	11:08 A	04/09/14	1:35 P	255.75 Million Gallons	255.75	/	0 / 0	049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15824	04/07/14 5:05 P	04/07/14 10:16 P	0.09 Million Gallons	0	/ 0	/ 0.09	063 - Rouge River
15799	04/15/14 2:04 A	04/15/14 7:58 A	12.53 Million Gallons	12.53	/ 0	/ 0	049A - Detroit River
15800	04/15/14 3:50 A	04/15/14 7:19 A	9.97 Million Gallons	0	/ 9.97	/ 0	050A - Rouge River
15829	04/29/14 7:00 A	05/02/14 11:22 A	898.16 Million Gallons	898.16	/ 0	/ 0	104A - Conner Creek (tributary to Detroit River) *** 107A - Rouge River *** 049A - Detroit River *** 101A - Rouge River
15830	04/29/14 8:04 A	05/01/14 4:20 A	193.19 Million Gallons	0	/ 193.19	/ 0	050A - Rouge River
15869	04/29/14 8:24 A	04/29/14 10:53 A	2.54 Million Gallons	0	/ 0	/ 2.54	063 - Rouge River *** 064 - Rouge River
15932	05/12/14 4:58 P	05/17/14 11:58 A	15.76 Million Gallons	0	/ 0	/ 15.76	007 - Detroit River *** 065 - Rouge River *** 063 - Rouge River *** 062 - Rouge River *** 033 - Detroit River *** 019 - Detroit River *** 022 - Detroit River *** 009 - Detroit River
15867	05/12/14 5:30 P	05/17/14 11:42 A	1458.74 Million Gallons	1458.74	/ 0	/ 0	101A - Rouge River *** 108A - Detroit River *** 107A - Rouge River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)
15868	05/12/14 5:58 P	05/17/14 7:30 A	594.68 Million Gallons	0	/ 594.68	/ 0	050A - Rouge River
15923	05/27/14 4:15 P	05/30/14 8:28 P	1290.74 Million Gallons	1290.74	/ 0	/ 0	108A - Detroit River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River
15966	05/27/14 4:15 P	05/30/14 8:28 P	20.71 Million Gallons	0	/ 0	/ 20.71	064 - Rouge River *** 063 - Rouge River *** 067 - Rouge River *** 022 - Detroit River *** 019 - Detroit River *** 007 - Detroit River *** 009 - Detroit River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15922	05/27/14 5:37 P	05/30/14 11:32 A	556.65 Million Gallons	0	/ 556.65 /	0	050A - Rouge River
15943	06/03/14 5:29 A	06/03/14 8:45 A	6.93 Million Gallons	6.93	/ 0 /	0	049A - Detroit River
15945	06/03/14 5:50 A	06/03/14 8:28 A	9.94 Million Gallons	0	/ 9.94 /	0	050A - Rouge River
16056	06/18/14 7:00 A	06/19/14 3:19 A	13.63 Million Gallons	0	/ 0 /	13.63	059 - Rouge River *** 064 - Rouge River *** 062 - Rouge River *** 019 - Detroit River *** 033 - Detroit River *** 022 - Detroit River *** 007 - Detroit River
15996	06/18/14 7:06 A	06/20/14 11:47 A	644.02 Million Gallons	644.02	/ 0 /	0	102A - Rouge River *** 106A - Detroit River *** 107A - Rouge River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River *** 109A - Rouge River
15995	06/18/14 7:31 A	06/20/14 4:32 A	361.52 Million Gallons	0	/ 361.52 /	0	050A - Rouge River
16016	06/24/14 1:55 P	06/25/14 8:13 P	288.31 Million Gallons	288.31	/ 0 /	0	104A - Conner Creek (tributary to Detroit River) *** 049A - Detroit River
16089	06/24/14 1:55 P	06/24/14 2:44 P	1.02 Million Gallons	0	/ 0 /	1.02	007 - Detroit River *** 033 - Detroit River
16015	06/24/14 3:03 P	06/25/14 5:30 A	112.89 Million Gallons	0	/ 112.89 /	0	050A - Rouge River
16092	07/01/14 5:00 A	07/01/14 5:11 A	0.77 Million Gallons	0	/ 0 /	0.77	009 - Detroit River *** 022 - Detroit River
16030	07/01/14 5:03 A	07/01/14 12:13 P	29.05 Million Gallons	29.05	/ 0 /	0	049A - Detroit River
16029	07/01/14 5:49 A	07/01/14 12:04 P	18.04 Million Gallons	0	/ 18.04 /	0	050A - Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>	
16046	07/08/14	11:09 A	07/09/14	9:18 A	61.95 Million Gallons	61.95	/ 0	/ 0	049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)
16047	07/08/14	1:08 P	07/09/14	7:24 A	53 Million Gallons	0	/ 53	/ 0	050A - Rouge River
16434	07/27/14	4:52 P	07/27/14	9:08 P	8.08 Million Gallons	0	/ 0	/ 8.08	062 - Rouge River *** 022 - Detroit River *** 009 - Detroit River *** 007 - Detroit River
16096	07/27/14	5:23 P	07/28/14	10:58 A	380.33 Million Gallons	380.33	/ 0	/ 0	104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River *** 109A - Rouge River *** 049A - Detroit River *** 106A - Detroit River *** 107A - Rouge River
16095	07/27/14	6:35 P	07/28/14	6:36 A	189.11 Million Gallons	0	/ 189.11	/ 0	050A - Rouge River
16155	08/05/14	4:38 P	08/06/14	5:38 A	66 Million Gallons	66	/ 0	/ 0	049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)
16511	08/05/14	4:50 P	08/05/14	5:38 P	3.11 Million Gallons	0	/ 0	/ 3.11	063 - Rouge River *** 062 - Rouge River *** 064 - Rouge River
16156	08/05/14	6:16 P	08/06/14	3:30 A	54.06 Million Gallons		/ 54.06	/	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Reported Events:**

EventID	Start Date/Time		End Date/Time		Event Volume	Partially			Point(s) of Discharge		
						Treated	/	Untreated			
16512	08/11/14	11:10 A	08/12/14	10:54 P	2629.49 Million Gallons	0	/	0	/	2629.49	019 - Detroit River *** 074 - Rouge River *** 075 - Rouge River *** 077 - Rouge River *** 079 - Rouge River *** 007 - Detroit River *** 009 - Detroit River *** 006 - Detroit River *** 012 - Detroit River *** 021 - Detroit River *** 020 - Detroit River *** 022 - Detroit River *** 025 - Detroit River *** 026 - Detroit River *** 027 - Detroit River *** 028 - Detroit River *** 029 - Detroit River *** 011 - Detroit River *** 064 - Rouge River *** 005 - Detroit River *** 034 - Detroit River *** 038 - Detroit River *** 033 - Detroit River *** 031 - Detroit River *** 023 - Detroit River *** 063 - Rouge River *** 037 - Detroit River *** 062 - Rouge River *** 060 - Rouge River *** 059 - Rouge River *** 054 - Rouge River *** 046 - Rouge River (Old Channel) *** 044 - Detroit River *** 040 - Detroit River *** 069 - Rouge River *** 068 - Rouge River *** 067 - Rouge River *** 066 - Rouge River *** 065 - Rouge River *** 042 - Detroit River
16513	08/11/14	2:12 P	08/14/14	7:58 P	2591 Million Gallons	2591	/	0	/	0	105A - Detroit River *** 107A - Rouge River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River *** 108A - Detroit River *** 109A - Rouge River *** 106A - Detroit River
16508	08/11/14	2:33 P	08/14/14	7:58 P	1347.5 Million Gallons		/	1347.5	/		Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16526	08/19/14	7:14 P	08/20/14	9:06 A	27.14 Million Gallons	27.14	/	0	/	0	049A - Detroit River
16525	08/19/14	8:26 P	08/20/14	5:24 A	72.61 Million Gallons		/	72.61	/		Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16547	08/21/14	11:11 P	08/23/14	8:58 A	391.33 Million Gallons	391.33	/	0	/	0	049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>	
16546	08/22/14	12:26 A	08/22/14	5:45 P	142.53 Million Gallons	/	142.53	/	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16758	08/26/14	4:05 P	08/26/14	7:06 P	10.45 Million Gallons	0	/	0 / 10.45	009 - Detroit River *** 011 - Detroit River *** 022 - Detroit River
16711	08/26/14	5:00 P	08/27/14	5:50 A	129.77 Million Gallons	129.77	/	0 / 0	106A - Detroit River *** 049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)
16712	08/26/14	5:58 P	08/27/14	3:11 A	86.63 Million Gallons	/	86.63	/	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16797	09/01/14	5:23 P	09/02/14	1:21 P	12.66 Million Gallons	0	/	0 / 12.66	025 - Detroit River *** 031 - Detroit River *** 033 - Detroit River *** 019 - Detroit River *** 007 - Detroit River *** 009 - Detroit River *** 063 - Rouge River *** 022 - Detroit River
16716	09/01/14	7:01 P	09/03/14	7:58 A	565.63 Million Gallons	565.63	/	0 / 0	104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River *** 049A - Detroit River *** 106A - Detroit River *** 107A - Rouge River
16717	09/01/14	7:48 P	09/03/14	7:49 A	264.4 Million Gallons	/	264.4	/	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16816	09/10/14	12:04 P	09/14/14	5:13 A	152.97 Million Gallons	0	/	0 / 152.97	026 - Detroit River *** 025 - Detroit River *** 005 - Detroit River *** 062 - Rouge River *** 054 - Rouge River *** 039 - Detroit River *** 038 - Detroit River *** 033 - Detroit River *** 031 - Detroit River *** 022 - Detroit River *** 007 - Detroit River *** 021 - Detroit River *** 018 - Detroit River *** 017 - Detroit River *** 016 - Detroit River *** 012 - Detroit River *** 011 - Detroit River *** 009 - Detroit River *** 028 - Detroit River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Reported Events:**

EventID	Start Date/Time		End Date/Time		Event Volume	Partially Treated / Treated / Untreated			Point(s) of Discharge		
16755	09/10/14	12:50 P	09/14/14	5:45 A	1180.7 Million Gallons	1180.7	/	0	/	0	108A - Detroit River *** 107A - Rouge River *** 049A - Detroit River *** 101A - Rouge River *** 109A - Rouge River *** 104A - Conner Creek (tributary to Detroit River) *** 106A - Detroit River
16756	09/10/14	2:15 P	09/14/14	4:50 A	491.9 Million Gallons		/	491.9	/		Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16822	09/20/14	7:09 P	09/21/14	6:46 A	20.74 Million Gallons	0	/	0	/	20.74	064 - Rouge River *** 062 - Rouge River *** 009 - Detroit River *** 007 - Detroit River *** 022 - Detroit River
16788	09/20/14	8:40 P	09/22/14	4:17 A	188 Million Gallons	188	/	0	/	0	049A - Detroit River *** 101A - Rouge River
16806	09/20/14	9:30 P	09/21/14	4:23 P	80.8 Million Gallons		/	80.8	/		Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16802	09/30/14	5:30 A	09/30/14	10:33 A	20.36 Million Gallons	20.36	/	0	/	0	049A - Detroit River
16801	09/30/14	6:41 A	09/30/14	10:33 A	12.46 Million Gallons		/	12.46	/		Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16819	10/14/14	8:10 P	10/15/14	12:29 P	75.5 Million Gallons		/	75.5	/		Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16820	10/14/14	8:10 P	10/15/14	1:53 P	161.7 Million Gallons	161.7	/	0	/	0	049A - Detroit River *** 104A - Conner Creek (tributary to Detroit River) *** 101A - Rouge River
16821	10/14/14	8:10 P	10/14/14	10:49 P	0.37 Million Gallons	0	/	0	/	0.37	062 - Rouge River
16889	11/23/14	10:43 P	11/26/14	6:49 P	862.17 Million Gallons	0	/	0	/	862.17	075 - Rouge River *** 007 - Detroit River *** 011 - Detroit River *** 022 - Detroit River *** 025 - Detroit River *** 053 - Rouge River *** 054 - Rouge River *** 059 - Rouge River *** 062 - Rouge River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit County: Wayne Permit Designated Name: Detroit WWTP

Reported Events:

EventID	Start Date/Time		End Date/Time		Event Volume	Partially			Point(s) of Discharge
						Treated	/ Treated	/ Untreated	
16887	11/23/14	10:45 P	11/26/14	12:28 A	986.3 Million Gallons	986.3	/ 0	/ 0	101A - Rouge River *** 107A - Rouge River *** 109A - Rouge River *** 049A - Detroit River *** 106A - Detroit River *** 104A - Conner Creek (tributary to Detroit River)
16888	11/24/14	12:14 A	11/24/14	3:00 P	28.3 Million Gallons	/	28.3	/	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16933	12/24/14	6:24 P	12/25/14	8:44 P	360.8 Million Gallons	360.8	/ 0	/ 0	101A - Rouge River *** 104A - Conner Creek (tributary to Detroit River) *** 107A - Rouge River *** 049A - Detroit River
16932	12/24/14	7:16 P	12/25/14	4:13 A	65.7 Million Gallons	/	65.7	/	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River
16965	12/24/14	7:50 P	12/24/14	8:30 P	0.31 Million Gallons	0	/ 0	/ 0.31	009 - Detroit River

Summary for Detroit :

72 of 72 Events with a Reported Volume Total CSO Volume Reported: 28508.16 Million Gallons

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Detroit**County: Wayne****Permit Designated Name: Detroit WWTP****Control Program:****Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

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.

East Lansing**County: Ingham****Permit Designated Name: East Lansing WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
				<i>Treated</i>	<i>Treated /</i>	<i>Untreated</i>	
15889	05/15/14 8:40 A	05/15/14 5:20 P	0.694 Million Gallons	0.694	/ 0	/ 0	015 - Red Cedar River
16045	07/07/14 5:15 A	07/07/14 12:00 P	2.19 Million Gallons	2.19	/ 0	/ 0	015 - Red Cedar River

Summary for East Lansing :**2 of 2 Events with a Reported Volume****Total CSO Volume Reported: 2.884 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

East Lansing County: **Ingham** Permit Designated Name: **East Lansing WWTP**

Control Program:

Long Term Control Program Due Date: 5/19/1993 **Implementation status of U.S. EPA's Nine Minimum Controls:** Implemented
Long Term Control Required by: Permit
Long Term Control Program Status: Completed

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

Essexville County: **Bay** Permit Designated Name: **Essexville WWTP**

Reported Events:

<i>EventID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
				<i>Treated</i>	<i>Treated</i>	<i>Untreated</i>	
15785	04/12/14 8:00 A	04/14/14 6:15 A	4.8 Million Gallons	4.8	/ 0	/ 0	002 - Saginaw River

Summary for Essexville : **1 of 1 Events with a Reported Volume** **Total CSO Volume Reported: 4.8 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Essexville**County: Bay****Permit Designated Name: Essexville WWTP****Control Program:****Long Term Control Program Due Date:** 3/31/2000**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program being implemented; currently an evaluation study for this CSO facility is being conducted to determine what or if additional system improvements are necessary to achieve adequate treatment of discharges to assure compliance with Water Quality Standards. An "In-Stream Total Residual Chlorine (TRC) Effluent Plume Evaluation" is required by the permit (October 1, 2018) and shall identify the location and size of the TRC effluent plume during and after CSO discharge events and identify the maximum TRC concentrations in-stream at various downstream locations.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Iron Mountain / Kingsford**County: Dickinson****Permit Designated Name: Iron Mountain-Kingsford WWT****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15814	04/06/14 5:00 P	04/06/14 11:00 P	1.45 Million Gallons	1.45	/ 0	/ 0	002 - Menominee River
15815	04/07/14 1:30 P	04/08/14 1:00 A	0.747 Million Gallons	0.747	/ 0	/ 0	002 - Menominee River
15816	04/08/14 11:30 A	04/08/14 10:15 P	1.51 Million Gallons	1.51	/ 0	/ 0	002 - Menominee River
15817	04/09/14 4:20 P	04/09/14 8:30 P	0.225 Million Gallons	0.225	/ 0	/ 0	002 - Menominee River
15818	04/10/14 2:30 P	04/10/14 6:45 P	0.001 Million Gallons	0.001	/ 0	/ 0	002 - Menominee River
16723	08/30/14 11:55 A	08/30/14 2:02 P	0.227 Million Gallons	0.227	/ 0	/ 0	002 - Menominee River

Summary for Iron Mountain / Kingsford : 6 of 6 Events with a Reported Volume Total CSO Volume Reported: 4.16 Million Gallons

Control Program:**Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** NA**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program considered complete (an existing retention/treatment basin); permittee submitted 2008 report characterizing discharges from existing retention/treatment basin based upon the type of sewer collection system (i.e., separate or combined) tributary to this CSO treatment facility adjacent to the municipal wastewater treatment plant. Facility is implementing revisions to disinfection feed system and conducting visual assessments of CSO discharges to evaluate screening effectiveness.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15854	04/04/14 10:00 A	04/04/14 4:30 P	2.144 Million Gallons	0	/ 0 /	2.144	022 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 021 - Grand River *** 019 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 009 - Grand River *** 012 - Grand River *** 011 - Grand River
15855	04/13/14 9:00 P	04/14/14 10:30 A	3.137 Million Gallons	0	/ 0 /	3.137	011 - Grand River *** 012 - Grand River *** 015 - Grand River *** 016 - Grand River *** 017 - Grand River *** 009 - Grand River *** 021 - Grand River *** 008 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 019 - Grand River
15856	04/21/14 8:00 P	04/22/14 3:00 A	1.044 Million Gallons	0	/ 0 /	1.044	026 - Red Cedar River *** 046 - Grand River *** 032 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 019 - Grand River *** 009 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 034 - Grand River *** 011 - Grand River *** 017 - Grand River
15848	05/07/14 3:00 A	05/07/14 11:00 A	4.212 Million Gallons	0	/ 0 /	4.212	019 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 046 - Grand River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 008 - Grand River *** 034 - Grand River *** 017 - Grand River
15890	05/12/14 8:00 A	05/12/14 8:15 P	19.509 Million Gallons	0	/ 0 /	19.509	014 - Grand River *** 017 - Grand River *** 046 - Grand River *** 019 - Grand River *** 021 - Grand River *** 012 - Grand River *** 022 - Grand River *** 015 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 008 - Grand River *** 009 - Grand River *** 010 - Grand River *** 011 - Grand River *** 016 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially Treated / Treated / Untreated</i>					<i>Point(s) of Discharge</i>
16066	05/13/14	12:00 P	05/13/14	7:30 P	4.359 Million Gallons	0	/	0	/	4.359	017 - Grand River *** 019 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 021 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 008 - Grand River *** 022 - Grand River
15891	05/14/14	12:00 P	05/15/14	12:15 P	13.786 Million Gallons	0	/	0	/	13.786	009 - Grand River *** 012 - Grand River *** 016 - Grand River *** 019 - Grand River *** 011 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 017 - Grand River *** 015 - Grand River *** 008 - Grand River
16069	06/02/14	12:00 P	06/02/14	8:30 P	7.054 Million Gallons	0	/	0	/	7.054	021 - Grand River *** 015 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 008 - Grand River *** 016 - Grand River *** 014 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 017 - Grand River *** 019 - Grand River
15956	06/04/14	9:15 A	06/04/14	5:30 P	1.272 Million Gallons	0	/	0	/	1.272	012 - Grand River *** 034 - Grand River *** 046 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 011 - Grand River *** 015 - Grand River *** 017 - Grand River *** 019 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 016 - Grand River *** 009 - Grand River
16070	06/08/14	5:00 A	06/08/14	11:15 A	1.597 Million Gallons	0	/	0	/	1.597	026 - Red Cedar River *** 046 - Grand River *** 032 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 034 - Grand River *** 019 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>				<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/</i>	<i>Treated</i>	<i>/</i>		<i>Untreated</i>
16025	06/24/14	8:00 A	06/24/14	5:45 P	4.596 Million Gallons	0	/	0	/	4.596	017 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 008 - Grand River *** 019 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 021 - Grand River
16921	06/30/14	11:00 P	07/01/14	6:15 A	4.469 Million Gallons	0	/	0	/	4.469	011 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 021 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 009 - Grand River *** 008 - Grand River *** 022 - Grand River *** 046 - Grand River *** 014 - Grand River *** 019 - Grand River
16920	07/03/14	1:00 A	07/03/14	11:45 A	3.927 Million Gallons	0	/	0	/	3.927	017 - Grand River *** 022 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 019 - Grand River *** 021 - Grand River *** 008 - Grand River
16064	07/06/14	10:00 P	07/07/14	8:45 A	42.617 Million Gallons	0	/	0	/	42.617	019 - Grand River *** 026 - Red Cedar River *** 011 - Grand River *** 024 - Grand River *** 034 - Grand River *** 022 - Grand River *** 021 - Grand River *** 032 - Red Cedar River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 009 - Grand River *** 046 - Grand River *** 010 - Grand River *** 014 - Grand River *** 008 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge	
				Treated	Treated /	Untreated		
16065	07/08/14 7:00 A	07/08/14 1:45 P	12.649 Million Gallons	0	/	0 /	12.649	010 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 014 - Grand River *** 011 - Grand River *** 009 - Grand River *** 008 - Grand River *** 019 - Grand River *** 021 - Grand River *** 022 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 012 - Grand River *** 024 - Grand River
16922	07/13/14 12:00 A	07/13/14 7:30 A	4.015 Million Gallons	0	/	0 /	4.015	032 - Red Cedar River *** 034 - Grand River *** 026 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 019 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 008 - Grand River *** 017 - Grand River *** 046 - Grand River
16923	07/14/14 4:00 P	07/15/14 12:30 A	1.926 Million Gallons	0	/	0 /	1.926	009 - Grand River *** 034 - Grand River *** 026 - Red Cedar River *** 022 - Grand River *** 021 - Grand River *** 019 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 011 - Grand River *** 008 - Grand River *** 046 - Grand River *** 032 - Red Cedar River *** 012 - Grand River *** 024 - Grand River
16924	07/27/14 10:00 A	07/27/14 10:45 P	3.483 Million Gallons	0	/	0 /	3.483	011 - Grand River *** 009 - Grand River *** 012 - Grand River *** 014 - Grand River *** 015 - Grand River *** 016 - Grand River *** 017 - Grand River *** 019 - Grand River *** 021 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 008 - Grand River *** 022 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>		
16931	08/01/14	4:00 P	08/01/14	10:00 P	16.013 Million Gallons	0	/	0 /	16.013	046 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 019 - Grand River *** 034 - Grand River *** 015 - Grand River *** 032 - Red Cedar River *** 017 - Grand River *** 016 - Grand River *** 010 - Grand River *** 014 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 008 - Grand River
16947	08/04/14	2:00 P	08/05/14	9:00 A	17.315 Million Gallons	0	/	0 /	17.315	019 - Grand River *** 012 - Grand River *** 014 - Grand River *** 015 - Grand River *** 017 - Grand River *** 009 - Grand River *** 021 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 016 - Grand River *** 010 - Grand River *** 008 - Grand River *** 022 - Grand River *** 011 - Grand River
16952	08/11/14	12:00 P	08/11/14	7:15 P	4.271 Million Gallons	0	/	0 /	4.271	016 - Grand River *** 034 - Grand River *** 046 - Grand River *** 032 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 019 - Grand River *** 017 - Grand River *** 015 - Grand River *** 009 - Grand River *** 011 - Grand River *** 012 - Grand River *** 008 - Grand River *** 026 - Red Cedar River
16953	08/17/14	12:00 A	08/17/14	9:30 A	1.443 Million Gallons	0	/	0 /	1.443	019 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 046 - Grand River *** 021 - Grand River *** 017 - Grand River *** 016 - Grand River *** 012 - Grand River *** 011 - Grand River *** 009 - Grand River *** 022 - Grand River *** 015 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>		
16955	08/19/14	8:00 A	08/19/14	8:30 P	7.809 Million Gallons	0	/	0 /	7.809	017 - Grand River *** 026 - Red Cedar River *** 008 - Grand River *** 009 - Grand River *** 011 - Grand River *** 012 - Grand River *** 014 - Grand River *** 015 - Grand River *** 016 - Grand River *** 019 - Grand River *** 024 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 021 - Grand River *** 022 - Grand River
16956	08/26/14	1:00 P	08/26/14	7:15 P	6.496 Million Gallons	0	/	0 /	6.496	046 - Grand River *** 014 - Grand River *** 011 - Grand River *** 009 - Grand River *** 008 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 015 - Grand River *** 012 - Grand River *** 034 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 019 - Grand River *** 017 - Grand River *** 016 - Grand River *** 010 - Grand River
16957	08/30/14	4:00 P	08/30/14	8:30 P	1.26 Million Gallons	0	/	0 /	1.26	017 - Grand River *** 008 - Grand River *** 009 - Grand River *** 011 - Grand River *** 012 - Grand River *** 016 - Grand River *** 019 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 015 - Grand River
16958	09/01/14	2:00 P	09/01/14	7:45 P	4.322 Million Gallons	0	/	0 /	4.322	019 - Grand River *** 046 - Grand River *** 008 - Grand River *** 009 - Grand River *** 011 - Grand River *** 032 - Red Cedar River *** 016 - Grand River *** 012 - Grand River *** 015 - Grand River *** 034 - Grand River *** 026 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 017 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
				<i>Treated</i>	<i>Treated /</i>	<i>Untreated</i>	
16959	09/05/14 5:00 P	09/06/14 1:45 A	5.721 Million Gallons	0	/ 0	/ 5.721	016 - Grand River *** 034 - Grand River *** 026 - Red Cedar River *** 024 - Grand River *** 032 - Red Cedar River *** 011 - Grand River *** 046 - Grand River *** 021 - Grand River *** 019 - Grand River *** 008 - Grand River *** 012 - Grand River *** 009 - Grand River *** 022 - Grand River *** 017 - Grand River *** 015 - Grand River
16960	09/10/14 10:00 A	09/10/14 7:15 P	3.071 Million Gallons	0	/ 0	/ 3.071	019 - Grand River *** 008 - Grand River *** 009 - Grand River *** 011 - Grand River *** 012 - Grand River *** 015 - Grand River *** 017 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 016 - Grand River
16961	09/12/14 11:00 P	09/13/14 7:30 A	3.197 Million Gallons	0	/ 0	/ 3.197	021 - Grand River *** 011 - Grand River *** 009 - Grand River *** 012 - Grand River *** 015 - Grand River *** 016 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 019 - Grand River *** 017 - Grand River
16962	09/15/14 6:00 P	09/16/14 12:00 A	0.872 Million Gallons	0	/ 0	/ 0.872	011 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 021 - Grand River *** 017 - Grand River *** 016 - Grand River *** 012 - Grand River *** 009 - Grand River *** 019 - Grand River *** 015 - Grand River *** 022 - Grand River
16963	09/21/14 2:00 A	09/21/14 6:45 P	2.977 Million Gallons	0	/ 0	/ 2.977	021 - Grand River *** 009 - Grand River *** 011 - Grand River *** 012 - Grand River *** 015 - Grand River *** 016 - Grand River *** 008 - Grand River *** 019 - Grand River *** 034 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 046 - Grand River *** 017 - Grand River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing

County: Ingham

Permit Designated Name: Lansing WWTP

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge	
				Treated	Treated /	Untreated		
16964	09/29/14 10:00 P	09/30/14 3:30 A	2.023 Million Gallons	0	/	0 /	2.023	019 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 009 - Grand River *** 021 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 012 - Grand River *** 011 - Grand River *** 022 - Grand River
16917	10/02/14 10:00 P	10/04/14 3:15 P	29.407 Million Gallons	0	/	0 /	29.407	017 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 026 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 019 - Grand River *** 008 - Grand River *** 015 - Grand River *** 014 - Grand River *** 012 - Grand River *** 011 - Grand River *** 010 - Grand River *** 009 - Grand River *** 021 - Grand River *** 016 - Grand River
16918	10/13/14 2:00 A	10/13/14 7:30 A	0.807 Million Gallons	0	/	0 /	0.807	024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 022 - Grand River *** 046 - Grand River *** 012 - Grand River *** 034 - Grand River *** 021 - Grand River *** 019 - Grand River *** 017 - Grand River *** 015 - Grand River *** 011 - Grand River *** 009 - Grand River *** 016 - Grand River
16919	10/14/14 2:00 P	10/14/14 8:15 P	7.358 Million Gallons	0	/	0 /	7.358	022 - Grand River *** 009 - Grand River *** 046 - Grand River *** 034 - Grand River *** 032 - Red Cedar River *** 024 - Grand River *** 021 - Grand River *** 019 - Grand River *** 017 - Grand River *** 016 - Grand River *** 015 - Grand River *** 014 - Grand River *** 012 - Grand River *** 011 - Grand River *** 008 - Grand River *** 026 - Red Cedar River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Lansing**County: Ingham****Permit Designated Name: Lansing WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
16916	11/23/14 4:00 P	11/24/14 5:30 P	22.249 Million Gallons	0	/ 0	/ 22.249	015 - Grand River *** 008 - Grand River *** 032 - Red Cedar River *** 012 - Grand River *** 009 - Grand River *** 034 - Grand River *** 026 - Red Cedar River *** 024 - Grand River *** 022 - Grand River *** 021 - Grand River *** 019 - Grand River *** 017 - Grand River *** 016 - Grand River *** 014 - Grand River *** 011 - Grand River *** 046 - Grand River
16967	12/24/14 1:00 A	12/25/14 5:15 A	14.585 Million Gallons	0	/ 0	/ 14.585	019 - Grand River *** 009 - Grand River *** 011 - Grand River *** 012 - Grand River *** 014 - Grand River *** 015 - Grand River *** 008 - Grand River *** 017 - Grand River *** 021 - Grand River *** 022 - Grand River *** 024 - Grand River *** 026 - Red Cedar River *** 032 - Red Cedar River *** 034 - Grand River *** 046 - Grand River *** 016 - Grand River

Summary for Lansing :**45 of 45 Events with a Reported Volume****Total CSO Volume Reported: 521.888 Million Gallons****Control Program:****Long Term Control Program Due Date:** 3/9/1992**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program (sewer separation project) being implemented; separation construction is to be conducted in 6 phases; Phases I, II, III and IV have been completed; permit schedule requires completion of construction of sewer separation phases and elimination of overflows by 2019.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Manistee WWTP**County: Manistee****Permit Designated Name: Manistee WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15754	03/20/14 2:15 P	03/21/14 2:15 A	0.25 Million Gallons	0	/ 0	/ 0.25	018 - Manistee Lake
15765	03/27/14 2:00 P	04/11/14 6:00 A	14 Million Gallons	0	/ 0	/ 14	018 - Manistee Lake
15807	04/11/14 1:00 P	04/18/14 9:00 P	10.1 Million Gallons	0	/ 0	/ 10.1	018 - Manistee Lake
15863	05/09/14 1:00 P	05/09/14 9:00 P	0.3 Million Gallons	0	/ 0	/ 0.3	018 - Manistee Lake
15994	06/17/14 11:30 A	06/18/14 11:00 P	0.45 Million Gallons	0	/ 0	/ 0.45	018 - Manistee Lake
16733	09/05/14 6:00 A	09/05/14 6:00 P	0.685 Million Gallons	0	/ 0	/ 0.685	018 - Manistee Lake
16808	10/03/14 7:45 A	10/05/14 1:30 A	3.74 Million Gallons	0	/ 0	/ 3.74	018 - Manistee Lake
16817	10/14/14 12:34 P	10/17/14 3:00 A	5.72 Million Gallons	0	/ 0	/ 5.72	018 - Manistee Lake
16882	11/24/14 4:00 A	12/01/14 10:00 P	11.51 Million Gallons	0	/ 0	/ 11.51	018 - Manistee Lake

Summary for Manistee WWTP :**9 of 9 Events with a Reported Volume****Total CSO Volume Reported: 46.755 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Manistee WWTP*County: Manistee**Permit Designated Name: Manistee WWTP***Control Program:****Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program (sewer separation project) being implemented; permit requires elimination of overflows from Outfall 018 by Dec. 31, 2016.

Manistique*County: Schoolcraft**Permit Designated Name: Manistique WWTP***Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>Treated /</i>	<i>Untreated</i>		
16841	09/10/14	3:30 P	09/10/14	11:30 P	0.18 Million Gallons	0	/	0 /	0.18	003 - Manistique River
16842	10/14/14	6:45 A	10/14/14	10:45 A	0.08 Million Gallons	0	/	0 /	0.08	003 - Manistique River
16844	10/15/14	7:30 P	10/15/14	9:30 P	0.02 Million Gallons	0	/	0 /	0.02	003 - Manistique River

Summary for Manistique :**3 of 3 Events with a Reported Volume****Total CSO Volume Reported: 0.28 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Manistique*County: Schoolcraft**Permit Designated Name: Manistique WWTP***Control Program:****Long Term Control Program Due Date:** 4/1/2000**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program being implemented; permit requires elimination of discharges from the one remaining outfall by Jan. 1, 2020. Facility is one construction project away from elimination of the last CSO.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Milk River Intercounty Drainage Board County: Wayne Permit Designated Name: Milk River CSO RTB

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
16540	01/11/14 8:02 A	01/11/14 5:23 P	27.3 Million Gallons	27.3	/ 0	/ 0	001 - Mi k River
15577	01/20/14 2:54 A	01/20/14 1:08 P	10.3 Million Gallons	10.3	/ 0	/ 0	001 - Mi k River
15698	02/21/14 12:44 P	02/21/14 6:56 P	28.7 Million Gallons	28.7	/ 0	/ 0	001 - Mi k River
15738	03/12/14 12:03 A	03/12/14 2:04 P	15 Million Gallons	15	/ 0	/ 0	001 - Mi k River
15742	03/15/14 4:14 A	03/15/14 4:41 A	5.4 Million Gallons	5.4	/ 0	/ 0	001 - Mi k River
15919	05/15/14 4:10 A	05/15/14 3:17 P	35.1 Million Gallons	35.1	/ 0	/ 0	001 - Mi k River
15947	05/27/14 6:49 A	05/27/14 7:52 P	26.8 Million Gallons	26.8	/ 0	/ 0	001 - Mi k River
15948	05/28/14 9:52 A	05/28/14 11:16 P	132.3 Million Gallons	132.3	/ 0	/ 0	001 - Mi k River
15949	05/29/14 8:25 A	05/29/14 3:59 P	6.84 Million Gallons	6.84	/ 0	/ 0	001 - Mi k River
16031	06/24/14 5:15 P	06/24/14 6:02 P	12.5 Million Gallons	12.5	/ 0	/ 0	001 - Mi k River
16502	08/04/14 5:44 A	08/04/14 7:50 A	11.3 Million Gallons	11.3	/ 0	/ 0	001 - Mi k River
16501	08/05/14 9:57 A	08/05/14 11:11 A	9.14 Million Gallons	9.14	/ 0	/ 0	001 - Mi k River
16519	08/11/14 3:36 P	08/11/14 9:09 P	128.2 Million Gallons	128.2	/ 0	/ 0	001 - Mi k River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Milk River Intercounty Drainage Board County: Wayne Permit Designated Name: Milk River CSO RTB

Reported Events:

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>	
16520	08/12/14	12:41 A	08/12/14	1:53 A	8.9 Million Gallons	8.9	/ 0	/ 0	001 - Mi k River
16726	09/01/14	7:30 A	09/01/14	8:58 P	30.3 Million Gallons	30.3	/ 0	/ 0	001 - Mi k River
16767	09/10/14	3:44 P	09/10/14	9:20 P	31 Million Gallons	31	/ 0	/ 0	001 - Mi k River
16900	11/24/14	2:41 A	11/24/14	1:27 P	9.05 Million Gallons	9.05	/ 0	/ 0	001 - Mi k River

Summary for Milk River Intercounty Drainage Board: 17 of 17 Events with a Reported Volume Total CSO Volume Reported: 528.13 Million Gallons

Control Program:

Long Term Control Program Due Date: Submitted

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

Long-term Control Program being implemented; existing retention/treatment basin was upgraded in mid-1990s; reissued permit required an "In-stream Dissolved Oxygen Study" to determine whether discharges from the facility cause violations of Water Quality Standards and if additional corrections might be necessary; there are no uncontrolled (i.e., untreated) CSO outfalls associated with this permittee/program.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Mt. Clemens**County: Macomb****Permit Designated Name: Mt. Clemens WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15874	05/14/14 5:14 A	05/17/14 3:30 A	34.1 Million Gallons	34.1	/ 0 /	0	003A - Clinton River
15907	05/20/14 9:00 A	05/22/14 8:00 A	9.464 Million Gallons	9.464	/ 0 /	0	003A - Clinton River
15946	05/28/14 12:00 P	05/29/14 7:30 A	1.778 Million Gallons	1.778	/ 0 /	0	003A - Clinton River

Summary for Mt. Clemens :**3 of 3 Events with a Reported Volume****Total CSO Volume Reported: 45.342 Million Gallons****Control Program:****Long Term Control Program Due Date:** 5/1/1997**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Completed

Long-term Control Program has been implemented; controls included partial sewer separation & in-system storage tunnel in conjunction w/existing retention/treatment basin; construction phase of the project is complete and all discharges have been re-directed to the storage tunnel; and the permittee has certified the project; there are no remaining "uncontrolled" (i.e., untreated) CSO outfalls associated with this permittee/program.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

North Houghton Co W&SA County: Houghton Permit Designated Name: North Houghton Co W&SA CS

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15782	04/09/14 6:00 P	06/12/14 8:15 A	142.61 Million Gallons	142.61	/ 0	/ 0	002 - Douglas Creek *** 001 - St. Louis Creek
15851	05/09/14 4:00 P	05/16/14 8:00 A	20 Million Gallons	20	/ 0	/ 0	003 - McGunn's Creek *** 002 - Douglas Creek *** 001 - St. Louis Creek *** Unspecified, Sewer US-41 @ Depot Street
16000	06/16/14 11:30 A	06/26/14 7:30 A	16.6 Million Gallons	16.6	/ 0	/ 0	001 - St. Louis Creek *** 002 - Douglas Creek *** 003 - McGunn's Creek *** Unspecified, Sewer US-41 @ Depot Street
16709	08/19/14 9:00 A	08/19/14 10:00 A	0.15 Million Gallons	0.15	/ 0	/ 0	002 - Douglas Creek *** 001 - St. Louis Creek
16763	09/10/14 7:00 P	09/11/14 2:00 A	0.393 Million Gallons	0.393	/ 0	/ 0	001 - St. Louis Creek *** 002 - Douglas Creek
16929	12/15/14 8:00 P	12/16/14 7:30 A	0.362 Million Gallons	0.362	/ 0	/ 0	002 - Douglas Creek

Summary for North Houghton Co W&SA : 6 of 6 Events with a Reported Volume Total CSO Volume Reported: 180.115 Million Gallons

Control Program:

Long Term Control Program Due Date: 10/1/1998

Implementation status of U.S.

Long Term Control Required by: NPDES permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

Long-term Control Program being implemented; two existing clarifiers with disinfection and dechlorination; additional work is being conducted (infiltration/inflow reduction) to increase transport capacity to the wastewater treatment plant; permit requires submittal of Evaluation Study to confirm whether adequate treatment is provided.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Oakland Co SOCSDS 12 Towns RTF County: Oakland Permit Designated Name: Oakland Co SOCSDS 12 Towns

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15559	01/11/14 5:50 P	01/11/14 8:30 P	4.4 Million Gallons	4.4	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
15831	04/29/14 11:28 A	04/30/14 6:05 A	78.64 Million Gallons	78.64	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
15920	05/27/14 7:13 P	05/28/14 11:30 P	189.6 Million Gallons	189.6	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
16097	07/27/14 6:45 P	07/27/14 10:16 P	39.1 Million Gallons	39.1	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
16151	08/02/14 9:55 P	08/02/14 11:55 P	11.7 Million Gallons	11.7	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
16484	08/11/14 5:37 P	08/13/14 1:45 A	2021.85 Million Gallons	2021.85	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
16745	09/10/14 4:15 P	09/10/14 11:11 P	96.11 Million Gallons	96.11	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)
16881	11/24/14 1:32 A	11/24/14 12:45 P	71.82 Million Gallons	71.82	/ 0	/ 0	001 - Red Run Drain (tributary to Clinton River)

Summary for Oakland Co SOCSDS 12 Towns: 8 of 8 Events with a Reported Volume Total CSO Volume Reported: 2513.22 Million Gallons

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Oakland Co SOCSDS 12 Towns RTF ***County: Oakland*** ***Permit Designated Name: Oakland Co SOCSDS 12 Towns***

Control Program:

Long Term Control Program Due Date: 12/1/1998

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

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.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Port Huron**County: St Clair****Permit Designated Name: Port Huron WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>		
15572	01/11/14	1:00 A	01/11/14	8:00 P	0.146 Million Gallons	0	/	0 /	0.146	017 - St. Clair River *** 005 - Black River
15872	05/12/14	3:00 P	05/12/14	8:00 P	0.26 Million Gallons	0	/	0 /	0.26	005 - Black River *** 017 - St. Clair River
15873	05/13/14	5:00 P	05/13/14	11:00 P	0.324 Million Gallons	0	/	0 /	0.324	005 - Black River *** 017 - St. Clair River
15892	05/15/14	11:00 A	05/15/14	11:00 P	0.654 Million Gallons	0	/	0 /	0.654	005 - Black River *** 017 - St. Clair River
15912	05/21/14	5:00 A	05/21/14	9:00 A	0.269 Million Gallons	0	/	0 /	0.269	005 - Black River *** 017 - St. Clair River
15925	05/27/14	7:00 P	05/27/14	10:00 P	0.269 Million Gallons	0	/	0 /	0.269	005 - Black River *** 017 - St. Clair River
16023	06/18/14	4:00 P	06/18/14	10:00 P	0.38 Million Gallons	0	/	0 /	0.38	017 - St. Clair River *** 005 - Black River
16024	06/24/14	2:00 P	06/24/14	7:00 P	0.132 Million Gallons	0	/	0 /	0.132	005 - Black River *** 017 - St. Clair River
16035	07/01/14	5:00 A	07/01/14	8:00 A	0.11 Million Gallons	0	/	0 /	0.11	005 - Black River *** 017 - St. Clair River
16043	07/07/14	3:00 A	07/07/14	8:00 A	0.645 Million Gallons	0	/	0 /	0.645	017 - St. Clair River *** 005 - Black River
16048	07/08/14	1:00 P	07/08/14	5:00 P	0.315 Million Gallons	0	/	0 /	0.315	017 - St. Clair River *** 005 - Black River
16111	07/27/14	8:00 P	07/28/14	1:00 A	0.245 Million Gallons	0	/	0 /	0.245	017 - St. Clair River *** 005 - Black River
16114	07/28/14	5:00 A	07/28/14	7:00 A	0.124 Million Gallons	0	/	0 /	0.124	017 - St. Clair River *** 005 - Black River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Port Huron**County: St Clair****Permit Designated Name: Port Huron WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>		
16169	08/05/14	9:00 A	08/05/14	12:00 P	0.3 Million Gallons	0	/	0 /	0.3	017 - St. Clair River *** 005 - Black River
16473	08/11/14	8:00 P	08/12/14	3:00 A	1.519 Million Gallons	0	/	0 /	1.519	017 - St. Clair River *** 005 - Black River
16528	08/19/14	5:30 P	08/19/14	8:30 P	0.471 Million Gallons	0	/	0 /	0.471	005 - Black River *** 017 - St. Clair River
16720	09/01/14	8:00 P	09/01/14	11:59 P	0.206 Million Gallons	0	/	0 /	0.206	005 - Black River *** 017 - St. Clair River
16734	09/05/14	7:00 P	09/06/14	2:00 A	1.3 Million Gallons	0	/	0 /	1.301	005 - Black River *** 017 - St. Clair River
16750	09/10/14	4:00 P	09/10/14	10:00 P	0.925 Million Gallons	0	/	0 /	0.925	005 - Black River *** 017 - St. Clair River
16795	09/21/14	7:00 A	09/21/14	2:00 P	0.388 Million Gallons	0	/	0 /	0.388	005 - Black River *** 017 - St. Clair River
16934	12/24/14	6:00 P	12/25/14	1:00 A	0.52 Million Gallons	0	/	0 /	0.52	017 - St. Clair River *** 005 - Black River

Summary for Port Huron :**21 of 21 Events with a Reported Volume****Total CSO Volume Reported: 9.502 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Port Huron**County: St Clair****Permit Designated Name: Port Huron WWTP****Control Program:****Long Term Control Program Due Date:** 12/31/1999**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

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, 2016; several outfalls and the associated overflows have already been eliminated through sewer separation construction.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Redford Township**County: Wayne****Permit Designated Name: Redford Twp CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>Treated /</i>	<i>Untreated</i>		
15862	04/29/14	3:00 A	04/29/14	12:00 P	0.04 Million Gallons	0	/	0 /	0.04	45A - Rouge River, Upper Branch
15981	05/12/14	5:00 P	05/12/14	11:59 P	0.09 Million Gallons	0	/	0 /	0.09	45A - Rouge River, Upper Branch
15990	05/28/14	12:00 A	05/28/14	3:30 P	0.08 Million Gallons	0	/	0 /	0.08	45A - Rouge River, Upper Branch
16073	06/02/14	7:00 P	06/02/14	11:59 P	1.22 Million Gallons	0	/	0 /	1.22	45A - Rouge River, Upper Branch
16079	06/18/14	8:50 A	06/18/14	11:30 A	2.4 Million Gallons	0	/	0 /	2.4	45A - Rouge River, Upper Branch
16081	06/19/14	7:00 P	06/19/14	11:59 P	1.05 Million Gallons	0	/	0 /	1.05	45A - Rouge River, Upper Branch
16461	07/27/14	6:00 P	07/27/14	10:00 P	0.09 Million Gallons	0	/	0 /	0.09	45A - Rouge River, Upper Branch
16632	08/11/14	6:45 P	08/11/14	10:55 P	5.84 Million Gallons	0	/	0 /	5.84	45A - Rouge River, Upper Branch
16636	08/12/14	12:00 A	08/12/14	1:45 A	0.24 Million Gallons	0	/	0 /	0.24	45A - Rouge River, Upper Branch
16773	08/22/14	12:00 A	08/22/14	3:30 P	0.09 Million Gallons	0	/	0 /	0.09	45A - Rouge River, Upper Branch
16849	09/02/14	4:00 P	09/02/14	9:00 P	0.75 Million Gallons	0	/	0 /	0.75	45A - Rouge River, Upper Branch
16852	09/10/14	4:00 P	09/10/14	10:00 P	1.65 Million Gallons	0	/	0 /	1.65	45A - Rouge River, Upper Branch
16858	09/20/14	7:00 P	09/20/14	11:59 P	0.11 Million Gallons	0	/	0 /	0.11	45A - Rouge River, Upper Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Redford Township**County: Wayne****Permit Designated Name: Redford Twp CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>		
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>			
16860	09/21/14	12:00 A	09/21/14	10:00 A	0.35 Million Gallons	0	/	0	/	0.35	45A - Rouge River, Upper Branch
16945	11/24/14	12:00 A	11/24/14	2:00 P	0.09 Million Gallons	0	/	0	/	0.09	45A - Rouge River, Upper Branch

Summary for Redford Township : **15 of 15 Events with a Reported Volume** **Total CSO Volume Reported: 14.09 Million Gallons**

Control Program:

Long Term Control Program Due Date: 7/1/2000

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

Long-term Control Program being implemented. The reissued permit will require control of the remaining untreated outfall at the DWSD.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

River Rouge**County: Wayne****Permit Designated Name: River Rouge CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>
						<i>Treated</i>	<i>Treated /</i>	<i>Untreated</i>	
16017	06/18/14	6:11 A	06/18/14	11:59 P	2.178 Million Gallons	2.178	/	0 / 0	001 - Rouge River
16018	06/19/14	1:40 A	06/19/14	8:14 A	1.8612 Million Gallons	1.8612	/	0 / 0	001 - Rouge River
16115	07/27/14	8:02 P	07/27/14	8:35 P	3.0204 Million Gallons	3.0204	/	0 / 0	001 - Rouge River
16163	08/04/14	6:21 P	08/04/14	8:35 P	0.8064 Million Gallons	0.8064	/	0 / 0	001 - Rouge River
16535	08/11/14	4:50 P	08/11/14	10:45 P	23.976 Million Gallons	23.976	/	0 / 0	001 - Rouge River
16538	08/12/14	12:15 A	08/12/14	4:35 P	4.7664 Million Gallons	4.7664	/	0 / 0	001 - Rouge River
16779	09/10/14	4:47 P	09/10/14	9:55 P	3.114 Million Gallons	3.114	/	0 / 0	001 - Rouge River

Summary for River Rouge :**7 of 7 Events with a Reported Volume****Total CSO Volume Reported: 39.722 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

River Rouge**County: Wayne****Permit Designated Name: River Rouge CSO****Control Program:****Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** Enforcement**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program has been implemented; 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.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Saginaw**County: Saginaw****Permit Designated Name: Saginaw WWTP****Reported Events:**

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15788	04/13/14 12:14 A	04/15/14 9:41 A	304.07 Million Gallons	304.07	/ 0	/ 0	037R - Saginaw River *** 003R - Saginaw River *** 004R - Saginaw River *** 005R - Saginaw River *** 006R - Saginaw River *** 007R - Saginaw River *** 011R - Saginaw River
15886	05/15/14 7:50 A	05/16/14 3:40 P	185.4 Million Gallons	185.4	/ 0	/ 0	007R - Saginaw River *** 037R - Saginaw River *** 003R - Saginaw River *** 004R - Saginaw River *** 006R - Saginaw River *** 005R - Saginaw River
16059	06/25/14 12:15 A	06/25/14 2:20 A	3.294 Million Gallons	3.294	/ 0	/ 0	006R - Saginaw River
16061	07/07/14 12:15 A	07/07/14 2:15 P	121.53 Million Gallons	121.53	/ 0	/ 0	037R - Saginaw River *** 003R - Saginaw River *** 004R - Saginaw River *** 005R - Saginaw River *** 006R - Saginaw River *** 007R - Saginaw River *** 011R - Saginaw River
17019	07/12/14 8:40 P	07/13/14 10:30 A	56.95 Million Gallons	56.95	/ 0	/ 0	007R - Saginaw River *** 006R - Saginaw River *** 003R - Saginaw River *** 037R - Saginaw River *** 004R - Saginaw River
17020	08/11/14 3:05 P	08/12/14 10:16 A	196 Million Gallons	196	/ 0	/ 0	011R - Saginaw River *** 004R - Saginaw River *** 003R - Saginaw River *** 007R - Saginaw River *** 006R - Saginaw River *** 037R - Saginaw River *** 005R - Saginaw River
17021	09/21/14 9:04 P	09/21/14 10:30 P	3.58 Million Gallons	3.58	/ 0	/ 0	005R - Saginaw River *** 003R - Saginaw River
17022	10/03/14 11:42 A	10/03/14 4:04 P	11.35 Million Gallons	11.35	/ 0	/ 0	003R - Saginaw River
17023	11/24/14 1:46 A	11/25/14 3:16 A	68.65 Million Gallons	68.65	/ 0	/ 0	037R - Saginaw River *** 003R - Saginaw River *** 005R - Saginaw River *** 007R - Saginaw River

Summary for Saginaw :**9 of 9 Events with a Reported Volume****Total CSO Volume Reported: 950.824 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Saginaw*County: Saginaw**Permit Designated Name: Saginaw WWTP***Control Program:****Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program being implemented; upgrades for two of the "RTBs" (Weiss St. RTB & 14th St. RTB) in order to provide for adequate treatment of all overflows has been completed; in accordance with the permit & approved program, permittee is re-conducting a Retention/Treatment Basin Evaluation Studies for the "East Side" system and "West Side" system to determine whether these facilities provide adequate treatment and whether facility upgrade will be required; the original studies were not approvable.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Saginaw Township**County: Saginaw****Permit Designated Name: Saginaw Twp WWTP****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>		
						<i>Treated</i>	<i>Treated</i>	<i>Untreated</i>			
15756	03/20/14	5:00 P	03/25/14	8:00 A	5.075 Million Gallons	5.075	/	0	/	0	003 - Tittabawassee River
15790	04/13/14	1:30 A	04/18/14	8:30 A	47.141 Million Gallons	47.141	/	0	/	0	003 - Tittabawassee River
15887	05/15/14	6:00 A	05/18/14	9:00 A	27.539 Million Gallons	27.539	/	0	/	0	003 - Tittabawassee River
16062	07/06/14	12:45 A	07/08/14	8:00 P	9.584 Million Gallons	9.584	/	0	/	0	003 - Tittabawassee River
17007	07/13/14	2:00 A	07/13/14	8:15 A	3.293 Million Gallons	3.293	/	0	/	0	003 - Tittabawassee River
17003	08/11/14	3:30 P	08/13/14	1:00 P	31.95 Million Gallons	31.95	/	0	/	0	003 - Tittabawassee River
17008	11/24/14	8:00 A	11/25/14	11:00 P	9.062 Million Gallons	9.062	/	0	/	0	003 - Tittabawassee River
17009	12/25/14	8:00 A	12/26/14	4:00 P	7.145 Million Gallons	7.145	/	0	/	0	003 - Tittabawassee River

Summary for Saginaw Township :**8 of 8 Events with a Reported Volume****Total CSO Volume Reported: 140.789 Million Gallons**

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Saginaw Township

County: Saginaw

Permit Designated Name: Saginaw Twp WWTP

Control Program:

Long Term Control Program Due Date: Submitted

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Completed

Long-term Control Program complete; existing retention/treatment basin provides adequate treatment to meet Water Quality Standards at times of discharge.

Sault Ste Marie

County: Chippewa

Permit Designated Name: Sault Ste Marie WWTP

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
16827	04/14/14 6:45 A	04/14/14 10:00 P	0.356 Million Gallons	0	/ 0 /	0.23	002 - St. Marys River *** 005 - St. Marys River *** 007 - St. Marys River

Summary for Sault Ste Marie :

1 of 1 Events with a Reported Volume

Total CSO Volume Reported: 0.356 Million Gallons

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Sault Ste Marie**County: Chippewa****Permit Designated Name: Sault Ste Marie WWTP****Control Program:****Long Term Control Program Due Date:** 1/20/1993**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program (sewer separation project) being implemented; approved program with phased construction requires elimination of all discharges by Dec. 31, 2018.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Southgate / Wyandotte **County: Wayne** **Permit Designated Name: Southgate/Wyandotte CSO RTF**

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15571	01/11/14 2:45 A	01/15/14 2:15 P	80.649 Million Gallons	80.649	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15653	02/20/14 5:30 P	02/22/14 4:30 P	63.72 Million Gallons	63.72	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15750	03/10/14 7:00 P	03/16/14 11:55 P	122.715 Million Gallons	122.715	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15775	03/19/14 7:00 P	03/20/14 4:45 A	6.9741 Million Gallons	0	/ 0	/ 6.9741	002 - Detroit River (Trenton Channel)
15758	03/20/14 7:30 A	03/22/14 1:35 P	11.475 Million Gallons	11.475	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15792	04/08/14 12:00 A	04/09/14 10:00 A	11.205 Million Gallons	11.205	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15844	04/29/14 10:20 A	04/30/14 1:25 P	33.804 Million Gallons	33.804	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15845	04/29/14 11:00 A	04/29/14 11:06 A	0.9963 Million Gallons	0	/ 0	/ 0.9963	002 - Detroit River (Trenton Channel)
15882	05/12/14 8:15 P	05/13/14 11:15 P	41.985 Million Gallons	41.985	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15909	05/15/14 10:00 A	05/15/14 10:25 P	24.435 Million Gallons	24.435	/ 0	/ 0	001 - Detroit River (Trenton Channel)
15928	05/27/14 5:00 P	05/28/14 2:00 P	37.859 Million Gallons	0	/ 0	/ 37.859	002 - Detroit River (Trenton Channel)
15935	05/27/14 8:40 P	05/29/14 8:50 P	111.051 Million Gallons	111.051	/ 0	/ 0	001 - Detroit River (Trenton Channel)
16003	06/18/14 6:20 A	06/18/14 8:55 A	22.9149 Million Gallons	0	/ 0	/ 22.9149	002 - Detroit River (Trenton Channel)

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Southgate / Wyandotte**County: Wayne****Permit Designated Name: Southgate/Wyandotte CSO RTF****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>		
						<i>Treated</i>	<i>Treated</i>	<i>Untreated</i>			
16004	06/18/14	6:20 A	06/19/14	12:55 P	99.9 Million Gallons	99.9	/	0	/	0	001 - Detroit River (Trenton Channel)
16057	07/08/14	12:20 P	07/08/14	2:50 P	6.75 Million Gallons	6.75	/	0	/	0	001 - Detroit River (Trenton Channel)
16117	07/27/14	6:00 P	07/27/14	9:00 P	28.89 Million Gallons	0	/	0	/	28.89	002 - Detroit River (Trenton Channel)
16118	07/27/14	7:10 P	07/28/14	1:25 A	78.3 Million Gallons	78.3	/	0	/	0	001 - Detroit River (Trenton Channel)
16176	08/04/14	6:15 P	08/04/14	7:00 P	8.019 Million Gallons	8.019	/	0	/	0	001 - Detroit River (Trenton Channel)
16496	08/11/14	2:45 P	08/12/14	11:45 P	184.302 Million Gallons	184.302	/	0	/	0	001 - Detroit River (Trenton Channel)
16493	08/11/14	4:00 P	08/11/14	11:00 P	158.4117 Million Gallons	0	/	0	/	158.4117	002 - Detroit River (Trenton Channel)
16544	08/19/14	7:15 P	08/19/14	7:20 P	0.9963 Million Gallons	0	/	0	/	0.9963	002 - Detroit River (Trenton Channel)
16541	08/19/14	10:05 P	08/20/14	1:40 A	5.805 Million Gallons	5.805	/	0	/	0	001 - Detroit River (Trenton Channel)
16730	09/02/14	11:05 A	09/02/14	1:45 P	5.9778 Million Gallons	0	/	0	/	5.9778	002 - Detroit River (Trenton Channel)
16729	09/02/14	12:20 P	09/02/14	10:30 P	21.924 Million Gallons	21.924	/	0	/	0	001 - Detroit River (Trenton Channel)
16749	09/10/14	1:40 P	09/10/14	7:05 P	47.8224 Million Gallons	0	/	0	/	47.8224	002 - Detroit River (Trenton Channel)
16781	09/10/14	2:20 P	09/13/14	6:40 P	175.419 Million Gallons	175.419	/	0	/	0	001 - Detroit River (Trenton Channel)

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

St. Joseph**County: Berrien****Permit Designated Name: St. Joseph CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>		
15546	01/10/14	8:37 P	01/11/14	2:58 P	0.119 Million Gallons	0	/	0 /	0.119	005 - St. Joseph River (Morrison Channel)
15585	01/29/14	12:41 P	01/29/14	2:03 P	0.01 Million Gallons	0	/	0 /	0.01	003 - St. Joseph River
15643	02/20/14	9:54 A	02/21/14	3:31 A	0.102 Million Gallons	0	/	0 /	0.102	005 - St. Joseph River (Morrison Channel)
15746	03/19/14	11:02 A	03/19/14	8:50 P	0.108 Million Gallons	0	/	0 /	0.108	005 - St. Joseph River (Morrison Channel)
15770	04/03/14	11:36 A	04/03/14	5:29 P	0.085 Million Gallons	0	/	0 /	0.085	005 - St. Joseph River (Morrison Channel)
15977	06/15/14	10:50 P	06/15/14	10:52 P	0.0005 Million Gallons	0	/	0 /	0.0005	003 - St. Joseph River
15997	06/18/14	1:35 P	06/18/14	1:45 P	0.0015 Million Gallons	0	/	0 /	0.0015	003 - St. Joseph River
16008	06/23/14	7:40 A	06/23/14	7:49 A	0.0012 Million Gallons	0	/	0 /	0.0012	003 - St. Joseph River
16010	06/23/14	5:26 P	06/23/14	5:53 P	0.0075 Million Gallons	0	/	0 /	0.0075	003 - St. Joseph River
16009	06/23/14	5:54 P	06/23/14	10:43 P	0.181 Million Gallons	0	/	0 /	0.181	005 - St. Joseph River (Morrison Channel)
16027	06/30/14	9:35 P	07/01/14	2:57 P	1.4324 Million Gallons	0	/	0 /	1.4324	005 - St. Joseph River (Morrison Channel) *** 003 - St. Joseph River
16042	07/08/14	9:07 A	07/08/14	10:57 A	0.019 Million Gallons	0	/	0 /	0.019	003 - St. Joseph River *** 005 - St. Joseph River (Morrison Channel)
16714	09/01/14	1:23 P	09/01/14	1:33 P	0.0032 Million Gallons	0	/	0 /	0.0032	003 - St. Joseph River

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

St. Joseph**County: Berrien****Permit Designated Name: St. Joseph CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>		
						<i>Treated</i>	<i>Treated</i>	<i>Untreated</i>			
16809	10/02/14	11:44 P	10/02/14	11:53 P	0.003 Million Gallons	0	/	0	/	0.003	003 - St. Joseph River

Summary for St. Joseph : **14 of 14 Events with a Reported Volume** **Total CSO Volume Reported: 2.073 Million Gallons**

Control Program:**Long Term Control Program Due Date:** Submitted**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

Long-term Control Program approved; program requires elimination of overflows through reduction of flows (via sewer rehabilitation, infiltration/inflow removal, etc.) and transport of all flows to the wastewater treatment plant; On or before April 1, 2013, the permittee shall submit a plan and schedule for implementation of Corrective Measures. On or before December 1, 2016, the permittee shall complete construction/implementation of corrective measures. More specifically, construction is expected to be completed on the collection system by the end of 2013 while construction for the in-line storage tanks must be completed by December 1, 2016. A Project Performance Certification (PCC) will follow.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Dearborn Heights County: Wayne Permit Designated Name: Wayne Co/Dearborn Heights C

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15628	01/11/14 2:00 A	01/11/14 8:00 A	0.9 Million Gallons	0	/ 0	/ 0.9	M13 - Rouge River, Middle Branch
15793	03/12/14 12:00 A	03/12/14 6:00 A	0.48 Million Gallons	0	/ 0	/ 0.48	M13 - Rouge River, Middle Branch
15796	03/14/14 6:00 P	03/14/14 11:00 P	0.4 Million Gallons	0	/ 0	/ 0.4	L43 - Rouge River, Lower Branch
15857	04/29/14 10:00 A	04/29/14 12:00 P	0.58 Million Gallons	0	/ 0	/ 0.58	M13 - Rouge River, Middle Branch
15982	05/13/14 12:00 A	05/13/14 10:00 P	0.31 Million Gallons	0	/ 0	/ 0.31	M14 - Rouge River, Middle Branch
15985	05/15/14 4:00 A	05/15/14 3:30 P	0.22 Million Gallons	0	/ 0	/ 0.22	L43 - Rouge River, Lower Branch
15987	05/27/14 9:00 P	05/28/14 7:15 P	0.48 Million Gallons	0	/ 0	/ 0.48	M13 - Rouge River, Middle Branch
16019	06/18/14 10:05 A	06/18/14 9:11 P	1.0529 Million Gallons	0.112948	/ 0	/ 0.94	001 - Rouge River, Middle Branch *** M14 - Rouge River, Middle Branch
16450	07/01/14 12:30 A	07/01/14 10:00 A	0.39 Million Gallons	0	/ 0	/ 0.39	U1 - Rouge River, Upper Branch
16456	07/08/14 10:00 A	07/08/14 3:30 P	0.3 Million Gallons	0	/ 0	/ 0.3	M14 - Rouge River, Middle Branch
16457	07/27/14 6:00 P	07/27/14 8:00 P	0.45 Million Gallons	0	/ 0	/ 0.45	U1 - Rouge River, Upper Branch
16534	08/11/14 4:41 P	08/11/14 11:59 P	29.77 Million Gallons	22	/ 0	/ 7.77	001 - Rouge River, Middle Branch *** L43 - Rouge River, Lower Branch
16537	08/12/14 12:40 A	08/12/14 10:22 P	8.524947 Million Gallons	1.814947	/ 0	/ 6.71	001 - Rouge River, Middle Branch *** M13 - Rouge River, Middle Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Dearborn Heights County: Wayne Permit Designated Name: Wayne Co/Dearborn Heights C

Reported Events:

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>		
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>			
16628	08/13/14	12:30 A	08/13/14	8:09 A	2.82 Million Gallons	2.15	/	0	/	0.67	001 - Rouge River, Middle Branch *** M14 - Rouge River, Middle Branch
16771	08/21/14	4:00 P	08/21/14	11:59 P	0.7 Million Gallons	0	/	0	/	0.7	L43 - Rouge River, Lower Branch
16780	09/10/14	4:05 P	09/10/14	8:15 P	3.649912 Million Gallons	2.089912	/	0	/	1.56	001 - Rouge River, Middle Branch *** M14 - Rouge River, Middle Branch
16854	09/20/14	7:00 P	09/20/14	11:59 P	0.66 Million Gallons	0	/	0	/	0.66	L43 - Rouge River, Lower Branch
16873	10/14/14	4:00 P	10/14/14	11:00 P	0.31 Million Gallons	0	/	0	/	0.31	M13 - Rouge River, Middle Branch
16942	11/24/14	12:00 A	11/24/14	2:00 P	0.61 Million Gallons	0	/	0	/	0.61	L43 - Rouge River, Lower Branch
17048	12/24/14	4:00 P	12/24/14	11:59 P	0.23 Million Gallons	0	/	0	/	0.23	U1 - Rouge River, Upper Branch

Summary for Wayne Co/Dearborn Heights 20 of 20 Events with a Reported Volume Total CSO Volume Reported: 52.838 Million Gallons

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

<i>Wayne Co/Dearborn Heights</i>	<i>County: Wayne</i>	<i>Permit Designated Name: Wayne Co/Dearborn Heights C</i>
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Control Program:

Long Term Control Program Due Date:	7/1/2000	Implementation status of U.S.
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Long Term Control Required by:	Permit	EPA's Nine Minimum Controls:
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Long Term Control Program Status:	Being implemented
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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). The permit requires control of one outfall by October, 2012. A reissued permit will require control of the remaining untreated outfalls at the DWSD CSO facilities.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Inkster

County: Wayne

Permit Designated Name: Wayne Co/Inkster CSO

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15626	01/11/14 2:15 A	01/11/14 8:15 A	2.24 Million Gallons	0	/ 0	/ 2.24	10 - Rouge River, Lower Branch
15759	02/21/14 2:15 P	02/21/14 9:00 P	0.0902 Million Gallons	0	/ 0	/ 0.0902	L46 - Rouge River, Lower Branch
15794	03/12/14 1:10 A	03/12/14 5:30 A	2.39 Million Gallons	0	/ 0	/ 2.39	10 - Rouge River, Lower Branch
15760	03/12/14 4:30 A	03/12/14 12:30 P	0.242 Million Gallons	0	/ 0	/ 0.242	009 - Rouge River, Lower Branch
15761	03/14/14 6:00 P	03/16/14 5:45 A	0.354 Million Gallons	0	/ 0	/ 0.354	L46 - Rouge River, Lower Branch
15797	03/14/14 6:00 P	03/15/14 1:30 A	1.98 Million Gallons	0	/ 0	/ 1.98	10 - Rouge River, Lower Branch
15860	04/29/14 3:00 A	04/29/14 12:00 P	2.31 Million Gallons	0	/ 0	/ 2.31	10 - Rouge River, Lower Branch
15978	05/12/14 4:00 P	05/12/14 11:39 P	1.77 Million Gallons	0	/ 0	/ 1.77	10 - Rouge River, Lower Branch
15983	05/13/14 12:00 A	05/13/14 10:00 P	0.39 Million Gallons	0	/ 0	/ 0.39	10 - Rouge River, Lower Branch
15905	05/15/14 10:30 A	05/15/14 11:00 P	3.4844 Million Gallons	0.473484	/ 0	/ 3.0109	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch *** L46 - Rouge River, Lower Branch
15934	05/27/14 8:30 P	05/28/14 8:15 P	2.48 Million Gallons	0	/ 0	/ 2.48	L46 - Rouge River, Lower Branch
15933	05/27/14 9:22 P	05/28/14 3:30 P	5.9317 Million Gallons	2.001676	/ 0	/ 3.93	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16074	06/11/14 7:00 A	06/11/14 3:30 P	0.62 Million Gallons	0	/ 0	/ 0.62	10 - Rouge River, Lower Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Inkster

County: Wayne

Permit Designated Name: Wayne Co/Inkster CSO

Reported Events:

EventID	Start Date/Time		End Date/Time		Event Volume	Partially			Point(s) of Discharge
						Treated	/ Treated	/ Untreated	
16020	06/18/14	6:35 A	06/18/14	5:00 P	8.360292 Million Gallons	3.350292	/	0 / 5.01	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16012	06/18/14	9:15 A	06/19/14	9:00 A	1.34 Million Gallons	0	/	0 / 1.34	009 - Rouge River, Lower Branch
16082	06/24/14	12:00 P	06/24/14	6:00 P	0.85 Million Gallons	0	/	0 / 0.85	10 - Rouge River, Lower Branch
16451	07/01/14	12:00 A	07/01/14	10:00 A	0.7 Million Gallons	0	/	0 / 0.7	10 - Rouge River, Lower Branch
16453	07/07/14	4:00 P	07/07/14	8:00 P	1.93 Million Gallons	0	/	0 / 1.93	10 - Rouge River, Lower Branch
16122	07/27/14	8:47 P	07/27/14	9:02 P	2.92 Million Gallons	0.68	/	0 / 2.24	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16629	08/11/14	4:20 P	08/11/14	11:59 P	64.38 Million Gallons	35	/	0 / 29.38	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16531	08/11/14	4:30 P	08/13/14	1:30 A	17 Million Gallons	0	/	0 / 17	L46 - Rouge River, Lower Branch
16633	08/12/14	12:00 A	08/12/14	11:05 P	20.37 Million Gallons	11.5	/	0 / 8.87	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16637	08/13/14	8:41 A	08/13/14	8:54 A	Unspecified	0.59	/	0 / 0.45	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16768	08/19/14	4:00 P	08/19/14	9:00 P	0.58 Million Gallons	0	/	0 / 0.58	10 - Rouge River, Lower Branch
16846	09/02/14	12:00 P	09/02/14	4:00 P	2.39 Million Gallons	0	/	0 / 2.39	10 - Rouge River, Lower Branch
16778	09/10/14	4:00 P	09/10/14	10:00 P	13.755 Million Gallons	6.435	/	0 / 7.32	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Inkster

County: Wayne

Permit Designated Name: Wayne Co/Inkster CSO

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
16775	09/10/14 4:15 P	09/10/14 10:00 P	1.46 Million Gallons	0	/ 0	/ 1.46	L46 - Rouge River, Lower Branch
16777	09/11/14 12:00 A	09/11/14 4:00 A	1.545 Million Gallons	0.855	/ 0	/ 0.69	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
16855	09/20/14 7:00 P	09/20/14 11:59 P	0.77 Million Gallons	0	/ 0	/ 0.77	10 - Rouge River, Lower Branch
16874	10/14/14 4:00 P	10/14/14 11:00 P	0.69 Million Gallons	0	/ 0	/ 0.69	10 - Rouge River, Lower Branch
16895	11/24/14 10:00 A	11/24/14 12:45 P	3.425 Million Gallons	0.585	/ 0	/ 2.84	001 - Rouge River, Lower Branch *** 10 - Rouge River, Lower Branch
17049	12/24/14 4:00 P	12/24/14 11:59 P	1.08 Million Gallons	0	/ 0	/ 1.08	10 - Rouge River, Lower Branch

Summary for Wayne Co/Inkster : **31 of 32 Events with a Reported Volume** **Total CSO Volume Reported: 167.828 Million Gallons**

Control Program:

Long Term Control Program Due Date: 7/1/2000

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

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 is currently constructing an RTB to address two west side CSOs. The Department has revised the correction schedules for control of the remaining untreated outfalls based on the City of Inkster's financial demonstration to 2015. A revised financial demonstration has been submitted and a reissued permit will likely revise the date to 2016.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Inkster/Dearborn Hts County: Wayne Permit Designated Name: Wayne Co/Inkster/Drbrn Hts CS

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15627	01/11/14 2:15 A	01/11/14 8:15 A	2.09 Million Gallons	0	/ 0	/ 2.09	L-41- Rouge River, Lower Branch
15795	03/12/14 12:00 A	03/12/14 6:00 A	1.76 Million Gallons	0	/ 0	/ 1.76	L-41- Rouge River, Lower Branch
15798	03/14/14 6:00 P	03/15/14 1:30 A	1.46 Million Gallons	0	/ 0	/ 1.46	L-41- Rouge River, Lower Branch
15859	04/29/14 10:00 A	04/29/14 12:00 P	1.81 Million Gallons	0	/ 0	/ 1.81	L-41- Rouge River, Lower Branch
15979	05/12/14 4:00 P	05/12/14 11:59 P	0.96 Million Gallons	0	/ 0	/ 0.96	L-41- Rouge River, Lower Branch
15984	05/13/14 12:00 A	05/13/14 10:00 P	0.51 Million Gallons	0	/ 0	/ 0.51	L-41- Rouge River, Lower Branch
15986	05/15/14 1:00 A	05/15/14 12:50 P	1.72 Million Gallons	0	/ 0	/ 1.72	L-41- Rouge River, Lower Branch
15988	05/27/14 9:00 P	05/28/14 12:30 P	2.6 Million Gallons	0	/ 0	/ 2.6	L-41- Rouge River, Lower Branch
16075	06/11/14 7:00 A	06/11/14 3:30 P	0.34 Million Gallons	0	/ 0	/ 0.34	L-41- Rouge River, Lower Branch
16078	06/18/14 10:05 A	06/18/14 9:11 P	3.62 Million Gallons	0	/ 0	/ 3.62	L-41- Rouge River, Lower Branch
16083	06/24/14 12:00 P	06/24/14 6:00 P	0.46 Million Gallons	0	/ 0	/ 0.46	L-41- Rouge River, Lower Branch
16452	07/01/14 12:00 A	07/01/14 10:00 A	0.76 Million Gallons	0	/ 0	/ 0.76	L-41- Rouge River, Lower Branch
16454	07/07/14 4:00 P	07/07/14 8:00 P	1.05 Million Gallons	0	/ 0	/ 1.05	L-41- Rouge River, Lower Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Inkster/Dearborn Hts County: Wayne Permit Designated Name: Wayne Co/Inkster/Drbrn Hts CS

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
16455	07/08/14 10:00 A	07/08/14 3:30 P	0.29 Million Gallons	0	/ 0	/ 0.29	L-41- Rouge River, Lower Branch
16459	07/27/14 6:00 P	07/27/14 10:00 P	1.65 Million Gallons	0	/ 0	/ 1.65	L-41- Rouge River, Lower Branch
16630	08/11/14 4:20 P	08/11/14 11:59 P	23.59 Million Gallons	0	/ 0	/ 23.59	L-41- Rouge River, Lower Branch
16634	08/12/14 12:00 A	08/12/14 11:05 P	11.27 Million Gallons	0	/ 0	/ 11.27	L-41- Rouge River, Lower Branch
16638	08/13/14 8:41 A	08/13/14 8:54 A	0.89 Million Gallons	0	/ 0	/ 0.89	L-41- Rouge River, Lower Branch
16769	08/19/14 4:00 P	08/19/14 9:00 P	0.31 Million Gallons	0	/ 0	/ 0.31	L-41- Rouge River, Lower Branch
16770	08/21/14 4:00 P	08/21/14 11:59 P	0.67 Million Gallons	0	/ 0	/ 0.67	L-42- Rouge River, Lower Branch *** L-41- Rouge River, Lower Branch
16847	09/02/14 12:00 P	09/02/14 4:00 P	1.3 Million Gallons	0	/ 0	/ 1.3	L-41- Rouge River, Lower Branch
16850	09/10/14 4:00 P	09/10/14 10:00 P	5.48 Million Gallons	0	/ 0	/ 5.48	L-41- Rouge River, Lower Branch
16853	09/11/14 12:00 A	09/11/14 4:00 A	0.38 Million Gallons	0	/ 0	/ 0.38	L-41- Rouge River, Lower Branch
16856	09/20/14 7:00 P	09/20/14 11:59 P	1.05 Million Gallons	0	/ 0	/ 1.05	L-41- Rouge River, Lower Branch
16875	10/14/14 4:00 P	10/14/14 11:00 P	0.68 Million Gallons	0	/ 0	/ 0.68	L-41- Rouge River, Lower Branch
16943	11/24/14 12:00 A	11/24/14 2:00 P	2.13 Million Gallons	0	/ 0	/ 2.13	L-41- Rouge River, Lower Branch

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Inkster/Dearborn Hts County: Wayne Permit Designated Name: Wayne Co/Inkster/Drbrn Hts CS

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
17050	12/24/14 4:00 P	12/24/14 11:59 P	0.81 Million Gallons	0	/ 0 /	0.81	L-41- Rouge River, Lower Branch

Summary for Wayne Co/Inkster/Dearborn H 27 of 27 Events with a Reported Volume Total CSO Volume Reported: 69.64 Million Gallons

Control Program:

Long Term Control Program Due Date: 7/1/2000

Implementation status of U.S.

Long Term Control Required by: Permit

EPA's Nine Minimum Controls: Implemented

Long Term Control Program Status: Being implemented

Long-term Control Program revised in reissued permit; the program will address the two remaining "uncontrolled" (i.e., untreated) CSO outfalls; permit requires completion of construction by July 1, 2015 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 control of the remaining untreated outfalls based on the City of Inkster's financial demonstration.

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Redford/Livonia

County: Wayne

Permit Designated Name: Wayne Co/Rdfrd/Livonia CSO

Reported Events:

EventID	Start Date/Time	End Date/Time	Event Volume	Partially			Point(s) of Discharge
				Treated	Treated /	Untreated	
15861	04/29/14 3:00 A	04/29/14 12:00 P	0.18 Million Gallons	0	/ 0	/ 0.18	U-5 - Rouge River, Bell Branch of Upper Branch
15980	05/12/14 5:00 P	05/12/14 11:59 P	0.36 Million Gallons	0	/ 0	/ 0.36	U-9 - Rouge River, Bell Branch of Upper Branch
15989	05/28/14 12:00 A	05/28/14 3:30 P	0.32 Million Gallons	0	/ 0	/ 0.32	U-3 - Rouge River, Bell Branch of Upper Branch
16072	06/02/14 7:00 P	06/02/14 11:59 P	5.04 Million Gallons	0	/ 0	/ 5.04	U-9 - Rouge River, Bell Branch of Upper Branch
16021	06/18/14 8:50 A	06/18/14 11:30 A	10.7383 Million Gallons	0.848306	/ 0	/ 9.89	001 - Rouge River, Upper Branch *** U-5 - Rouge River, Bell Branch of Upper Branch
16080	06/19/14 7:00 P	06/19/14 11:59 P	4.32 Million Gallons	0	/ 0	/ 4.32	U-11- Rouge River, Bell Branch of Upper Branch
16460	07/27/14 6:00 P	07/27/14 10:00 P	0.36 Million Gallons	0	/ 0	/ 0.36	U-11- Rouge River, Bell Branch of Upper Branch
16532	08/11/14 6:45 P	08/11/14 10:55 P	28.9 Million Gallons	4.8	/ 0	/ 24.1	001 - Rouge River, Upper Branch *** U-9 - Rouge River, Bell Branch of Upper Branch
16536	08/12/14 12:00 A	08/12/14 1:45 A	1.237709 Million Gallons	0.267709	/ 0	/ 0.97	001 - Rouge River, Upper Branch *** U-3 - Rouge River, Bell Branch of Upper Branch
16772	08/22/14 12:00 A	08/22/14 3:30 P	0.36 Million Gallons	0	/ 0	/ 0.36	U-11- Rouge River, Bell Branch of Upper Branch
16848	09/02/14 4:00 P	09/02/14 9:00 P	3.09 Million Gallons	0	/ 0	/ 3.09	U-10- Rouge River, Bell Branch of Upper Branch
16851	09/10/14 4:00 P	09/10/14 10:00 P	6.83 Million Gallons	0	/ 0	/ 6.83	U-11- Rouge River, Bell Branch of Upper Branch
16857	09/20/14 7:00 P	09/20/14 11:59 P	0.47 Million Gallons	0	/ 0	/ 0.47	U-2 - Ashcroft-Sherwood Drain

Combined Sewer Overflow (CSO) and Retention Treatment Facility (RTF) Detail Report

January 1, 2014 - December 31, 2014

Wayne Co/Redford/Livonia**County: Wayne****Permit Designated Name: Wayne Co/Rdfrd/Livonia CSO****Reported Events:**

<i>EventID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Partially</i>			<i>Point(s) of Discharge</i>	
						<i>Treated</i>	<i>/ Treated</i>	<i>/ Untreated</i>		
16859	09/21/14	12:00 A	09/21/14	10:00 A	1.44 Million Gallons	0	/	0 /	1.44	U-3 - Rouge River, Bell Branch of Upper Branch
16944	11/24/14	12:00 A	11/24/14	2:00 P	0.36 Million Gallons	0	/	0 /	0.36	U-2 - Ashcroft-Sherwood Drain

Summary for Wayne Co/Redford/Livonia : 15 of 15 Events with a Reported Volume Total CSO Volume Reported: 64.006 Million Gallons

Control Program:**Long Term Control Program Due Date:** 7/1/2000**Implementation status of U.S.****Long Term Control Required by:** Permit**EPA's Nine Minimum Controls:** Implemented**Long Term Control Program Status:** Being implemented

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. A reissued permit will require control of the remaining untreated outfalls at the DWSD CSO facilities.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Allegan

County: Allegan

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16863	10/25/14 1:00 P	10/25/14 9:00 P	0.0012 Million Gallons	Raw sewage	Second Street Bridge, South of (2 Manholes South of Second St Bridge). Land: River bank from Manhole to river (approx 10 ft x 25 ft), Waterbody: Kalamazoo River	Plugged sewer

Summary for Allegan: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Ann Arbor

County: Washtenaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15586	01/28/14 8:50 A	01/28/14 10:20 A	0.0009 Million Gallons	Diluted raw sewage	S. Industrial. Land: None, Waterbody: Malletts Creek	Water main break resulted in rupture of 6" private sanitary sewer lead, allowing drinking water to enter sanitary sewer. Sanitary manhole surcharged, releasing 900 gallons sewage mixed with approx 1 million gallons of drinking water.
15648	02/19/14 11:00 A	02/19/14 1:30 P	0.00009 Million Gallons ^a	Raw sewage	South of 2020 Green Road. Land: Ground surrounding manhole, Waterbody: none	Blocked sewer pipe due to grease resulted in backup of sewage from manhole onto ground.
15740	03/16/14 1:00 A	03/16/14 2:00 A	0.0001 Million Gallons ^a	Raw sewage	1711 Broadview Lane. Land: ground near overflow area, Waterbody: none	Tree roots caused blockage in sanitary sewer pipe resulting in

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Ann Arbor

County: Washtenaw

Reported Events:

<u>Event ID</u>	<u>Start Date/Time</u>	<u>End Date/Time</u>	<u>Event Volume</u>	<u>Discharge Quality</u>	<u>Point(s) of Discharge</u>	<u>Reason for Discharge</u>
16899	11/26/14 2:00 P	11/26/14 2:45 P	0.0001 Million Gallons	Raw sewage	216 West William Street, Ann Arbor (Manhole). Land: None entered, Waterbody: Allen Creek	approx. 1000 gal. sewage overflow to the ground, located behind 1711 Broadview Lane in wooded area. An 8" sanitary sewer pipe was blocked with a ball of grease and flushable wipes. The blocked pipe surcharged from a manhole lid, flowing across a street surface, draining into the curblin, and ultimately entering into the storm drain.

Summary for Ann Arbor:**4 of 4 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons****Outfall Corrective Actions:**

Associated Outfall(s):	216 West William Street, Ann Arbor (Manhole)		
Corrective Action(s) Complete: (repairs/modifications complete)	Yes		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No	
Actions by MDEQ:	Reviewed response actions and determined they were adequate.		
Actions to Prevent Reoccurrence	Sewer jetted and blockage removed		
Comments:	None entered		

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Ann Arbor**County: Washtenaw**

Associated Outfall(s):	S. Industrial	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Reviewed response actions and determined they were adequate.	
Actions to Prevent Reoccurrence	Water main repaired and infiltration into sanitary ceased.	
Comments:	None entered	
Associated Outfall(s):	1711 Broadview Lane *** South of 2020 Green Road	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Local response reviewed by DEQ. Response deemed adequate.	
Actions to Prevent Reoccurrence	Sewer was jetted and blockage removed	
Comments:	None entered	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Avalanche Bay Water Park

County: Charlevoix

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16908	11/29/14 3:15 A	11/29/14 9:30 P	0.002 Million Gallons	Diluted raw sewage	Private Pond Onsite. (Storm Water Pond). Land: Small private pond with no water discharge, Waterbody: None entered	Lift Station Pump failure backed up to small private pond - no water discharge to other bodies of water.

Summary for Avalanche Bay Water Park: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

BASF Corporation

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15736	03/12/14 4:30 P	03/13/14 1:00 P	0.0048 Million Gallons	Raw sewage	NE Section of Facility. Land: approx. 1/10th of an acre, NE section of facility, Waterbody: none	Leak in sewer line
15826	04/26/14 2:15 P	04/28/14 7:00 A	0.00021 Million Gallons	Raw sewage	West side of the EPC facility. Land: 90 ft by 120 ft impact to land, Waterbody: None entered	Sanitary sewage was discharged to the ground from a broken sanitary sewer cleanout.
16825	10/02/14 9:15 A	10/02/14 9:45 A	0.000003 Million Gallons	Raw sewage	West side of the EPC facility. Land: 90 ft by 120 ft impact to land, Waterbody: None entered	Sanitary lift station pump was down for maintenance. During this time is was discovered that the 2nd redundant pump was not working. This allowed the lift

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

BASF Corporation

County: Wayne

Reported Events:

<u>Event ID</u>	<u>Start Date/Time</u>	<u>End Date/Time</u>	<u>Event Volume</u>	<u>Discharge Quality</u>	<u>Point(s) of Discharge</u>	<u>Reason for Discharge</u>
						station to fill with water and back-up to the two manholes at the EPC facility.

Summary for BASF Corporation:

3 of 3 Events with a Reported Volume Total SSO Volume Reported: 0.005 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	West side of the EPC facility *** West side of the EPC facility *** NE Section of Facility (NE Section of Facility)		
Corrective Action(s) Complete: (repairs/modifications complete)	Yes		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No	
Actions by MDEQ:	Review of SSO determined no further action is necessary at this time.		
Actions to Prevent Reoccurrence	Entity performs routine inspection and preventative maintenance of the system to prevent reoccurrence.		
Comments:	None entered		

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Battle Creek

County: Calhoun

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15743	03/17/14 10:30 A	03/17/14 11:00 A	0.00008 Million Gallons	Raw sewage	Corner of Capital Avenue and George B. Land: 75 feets of curb, Waterbody: None entered	An air relief valve malfunctioned causing sanitary sewage to fill up in the manhole and discharge to the ground.

Summary for Battle Creek: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00008 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bay County

County: Bay

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15787	04/14/14 1:00 A	04/14/14 3:00 A	0.008 Million Gallons	Raw sewage	Wastewater treatment plant grounds (near Primary Treatment Building). Land: Plant grounds, Waterbody: Saginaw River	Overfill of anaerobic digester. Overfill made it to the WWTP storm system. No discoloration seen in the storm retention pond.
16737	09/07/14 10:20 A	09/07/14 1:20 P	0.0009 Million Gallons	Raw sewage	NE Corner of M13 and Erickson Rd (Air Relief Structure). Land: yes, Waterbody: None	Air relief valve failure.

Summary for Bay County: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.009 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Beecher Metropolitan District

County: Genesee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15877	05/13/14 9:00 P	05/13/14 10:30 P	0.15 Million Gallons	Diluted raw sewage	#6 Sewer (BMD) (overflow due to heavy rainfall & I/I). Land: None entered, Waterbody: Riskin Drain	lightning strike at Pump Station #6, disabling the controller
15888	05/15/14 7:00 A	05/15/14 3:00 P	0.4 Million Gallons	Diluted raw sewage	Hughes Drain at McAlpine Dr. (overflow due to heavy rainfall and I/I). Land: None entered, Waterbody: Hughes Drain *** #6 Sewer (BMD) (overflow due to heavy rainfall & I/I). Land: None entered, Waterbody: Riskin Drain *** Carpenter Rd & Dupont (BMD) (overflow due to heavy rainfall and I/I). Land: None entered, Waterbody: Lake Drain *** W Princeton & Dupont (BMD) (overflow due to heavy rainfall & I/I). Land: None entered, Waterbody: Lake Drain	capacity of system was exceeded during the period of extended heavy rainfall due to I/I, resulting in discharge.

Summary for Beecher Metropolitan District: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.55 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Benton Charter Township

County: *Berrien*

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15539	01/08/14 3:30 P	01/08/14 7:00 P	0.13 Million Gallons	Raw sewage	LS #4, North Shore Drive, North of Paw Paw River. Land: Area adjacent to Lift station #4, Waterbody: Paw Paw River	Open backwash drain valve at municipal water treatment plant discharging partially treated water to municipal sewer.
16034	07/02/14 6:00 A	07/02/14 7:00 A	0.02 Million Gallons	Raw sewage	1000 Paw Paw Ave, Benton Township 49022 (Manhole upstream of Lift station). Land: East road shoulder and hillside to creek, Waterbody: Unnamed Creek	Power outages due to storm the day before and a car electrical pole accident.

Summary for Benton Charter Township: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.15 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Benton Harbor

County: *Berrien*

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15762	03/23/14 10:00 A	03/23/14 2:00 P	0.0055 Million Gallons	Diluted raw sewage	North Crystal Ave Pump Station. Land: Area between Lift Station and Stream, Waterbody: Sand Creek	Pump station failed due to an electrical issue and an excessive amount of stormwater was directed to the sanitary sewer from somewhere.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Benton Harbor

County: Berrien

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16910	12/11/14 3:51 P	12/11/14 6:00 P	0.004 Million Gallons	Diluted raw sewage	MH at the corner of East High and McCord. Land: None (Contained in a collapsed storm sewer), Waterbody: None	Clay pipe broke inside of a storm manhole. The sewer backed up and spilled into the storm drain.

Summary for Benton Harbor: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.01 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Bingham Farms

County: Oakland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15708	03/03/14 9:00 A	03/03/14 11:00 A	0.0012 Million Gallons	Raw sewage	30823 Lincolnshire Court (manhole SOT034155). Land: 20 ft by 20 ft wooded area, Waterbody: Rouge River Tributary	Plugged sewer

Summary for Bingham Farms: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Bingham Farms

County: Oakland

Outfall Corrective Actions:

Associated Outfall(s): 30823 Lincolnshire Court (manhole SOT034155)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Review of SSO event determined no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence.

Comments: None entered

Bloomfield Township

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16907	12/02/14 2:30 P	12/02/14 2:45 P	0.00005 Million Gallons	Raw sewage	Telegraph Rd (near 2262 Telegraph Rd) (manhole in the middle of the road). Land: around manhole and to storm drain, Waterbody: None entered	Grease seperator belonging to owner of property where SSO occurred was full of grease. Grease and debris caused blockage resulting in sewer backup.

Summary for Bloomfield Township:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00005 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Bloomfield Township

County: Oakland

Outfall Corrective Actions:

Associated Outfall(s): Telegraph Rd (near 2262 Telegraph Rd) (manhole in the middle of the road)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Review of the SSO event information determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence.

Comments: None entered

Brighton Township

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15665	01/02/14 4:00 P	01/02/14 4:30 P	0.0005 Million Gallons	Raw sewage	1100 blk of Scenic Pointe Ct (sewer line break). Land: area surrounding damaged line, Waterbody: None entered	discharge due to break in main line
16997	04/23/14 3:30 P	05/23/14 4:00 P	0.0001 Million Gallons	Raw sewage	1300 blk Xanadu, Brighton Twp, 48116 (broken line from grinder PS). Land: 30 ft diameter area of ground surrounding break, Waterbody: None entered	leak of discharge line from grinder pump station
16998	10/07/14 12:30 P	10/07/14 1:45 P	0.0002 Million Gallons	Raw sewage	LS #3, Spencer Rd, Brighton Twp (overflow at LS due to pump failure). Land: LS pad and small area surrounding, Waterbody: None entered	overflow from Lift Station wet-well. LS failed to prime due to airlock

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Brighton Township

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17000	12/11/14 3:30 P	12/11/14 5:30 P	0.0001 Million Gallons	Raw sewage	Xanadu Ct, 70 yds north of McClennan Rd, Brighton Twp (obstructed line and check valve failure). Land: area surrounding break, Waterbody: None entered	clogged sewer main resulting in check valve failure and discharge
16999	12/11/14 6:00 P	12/11/14 8:30 P	0.0001 Million Gallons	Raw sewage	1000 blk Scenic Ct, Brighton Twp (clogged sewer and check valve failure). Land: area surrounding break, Waterbody: None entered	sewer main check valve failure originating with plugged sewer

Summary for Brighton Township: 5 of 5 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Buena Vista Township

County: Saginaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15789	04/14/14 8:45 A	04/17/14 9:30 A	12.118 Million Gallons	Partially treated sewage	Storage Basin at WWTP (aka Outfall 002) (Overflow at basin). Land: None entered, Waterbody: Gage Drain	Inflow and iniltration

Summary for Buena Vista Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 12.118 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Buena Vista Township

County: Saginaw

Outfall Corrective Actions:

Associated Outfall(s): Storage Basin at WWTP (aka Outfall 002) (Overflow at basin)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Negotiating ACO with schedule for corrective actions

Actions to Prevent Reoccurrence None entered

Comments: None entered

Caledonia Township

County: Kent

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15587	01/29/14 11:30 A	01/29/14 12:45 P	0.000675 Million Gallons	Raw sewage	MH 7-420, located near 5246 68th Street (Manhole). Land: Area around manhole, Waterbody: None entered	Root blockage at a service lead connection in the sewer pipe cause sewage to backup and spill out of a manhole.
16880	11/18/14 4:15 P	11/19/14 8:45 A	0.00064 Million Gallons	Raw sewage	5589 76th Street, Caledonia (force main break). Land: Area around the force main break., Waterbody: None entered	Failure of 6" ductile iron force main due to directional bore for phone lines.

Summary for Caledonia Township:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Caledonia Township

County: Kent

Outfall Corrective Actions:

Associated Outfall(s): MH 7-420, located near 5246 68th Street (Manhole)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None needed

Actions to Prevent Reoccurrence Jetted sewer line and removed blockage

Comments: None entered

Associated Outfall(s): 5589 76th Street, Caledonia (force main break)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None at this time.

Actions to Prevent Reoccurrence Repaired the forcemain.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Caspian, City of

County: Iron

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15810	04/02/14 7:00 A	04/09/14 1:00 P	0.035 Million Gallons	Diluted raw sewage	Intersection of Caspian Road and Bengal Street (Manholes). Land: Area next to intersection, Waterbody: Iron River	Ice in Sewer Line

Summary for Caspian, City of:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.035 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Intersection of Caspian Road and Bengal Street (Manholes)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence None entered

Comments: Negotiating a District Compliance Agreement

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Cassopolis

County: Cass

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15677	02/25/14 10:00 A	02/25/14 10:00 A	0.002 Million Gallons	Raw sewage	DPW Soil Storage Area. Land: Soil Storage Area at DPW, Waterbody: None	Vactor Truck was dumped at DPW shop so they could respond to another emergency situation.
15722	03/07/14 11:59 P	03/08/14 1:00 P	0.75 Million Gallons	Raw sewage	Don Horne Park. Land: Area behind baseball field and partially on field, Waterbody: None	Interceptor Force Main Broke.
15723	03/10/14 3:00 P	03/10/14 3:00 P	0.001 Million Gallons	Raw sewage	Peavine St Lift Station. Land: Area around lift station, Waterbody: Unnamed Creek	Both pumps failed in the lift station and the bypass pump could not keep up with the flow.
15897	05/16/14 1:00 P	05/16/14 1:30 P	0.0002 Million Gallons	Raw sewage	South Disbrow St., NW of M62, South of Jefferson St (MH Cover in South Disbrow St.). Land: Paved road and gravel parking area, Waterbody: None	Sewer main blockage causing raw sewage to come out of a manhole lid.
16124	08/01/14 6:00 P	08/01/14 6:15 P	0.0008 Million Gallons	Raw sewage	Peavine Street, LaGrange Township. Land: Minimal, Waterbody: Dowagiac Creek	Bypass pump failure
16901	12/01/14 7:30 P	12/01/14 8:00 P	0.002 Million Gallons	Raw sewage	Peavine Street, LaGrange Township. Land: Minimal, Waterbody: Dowagiac Creek	The on-call DPW worker responded to the by-pass pump alarm. The by-pass pump failed and the excavation for the Lift station repairs had been filled with sanitary sewage.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Cassopolis

County: Cass

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
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Summary for Cassopolis: 6 of 6 Events with a Reported Volume Total SSO Volume Reported: 0.756 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Peavine St Lift Station (Peavine St Lift Station)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Add Bollards

Comments: None entered

Associated Outfall(s): Peavine Street, LaGrange Township *** Peavine Street, LaGrange Township

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence New electrical equipment was thoroughly inspected before being placed back in service.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Center Line

County: Macomb

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15941	05/28/14 12:45 P	05/28/14 7:30 P	2.42 Million Gallons	Diluted raw sewage	SW corner of Stephens and Van Dyke Road. (Wet well with HWL to manually opened SSO gate.). Land: None entered, Waterbody: Lorraine Drain (tributary to Bear Creek)	Overflow valve downstream of pump station was opened due to heavy rain event which raised the wet well level to 26 ft. This correlates to the critical water surface elevation of 609.99 ft USGS to prevent basement flooding.
16530	08/11/14 6:42 P	08/12/14 10:42 A	4.15 Million Gallons	Diluted raw sewage	SW corner of Stephens and Van Dyke Road. (Wet well with HWL to manually opened SSO gate.). Land: None entered, Waterbody: Lorraine Drain (tributary to Bear Creek)	Overflow valve downstream of pump station manually opened. High I/I.

Summary for Center Line:**2 of 2 Events with a Reported Volume Total SSO Volume Reported: 6.57 Million Gallons****Outfall Corrective Actions:**

Associated Outfall(s): SW corner of Stephens and Van Dyke Road. (Wet well with HWL to manually opened SSO gate.) *** SW corner of Stephens and Van Dyke Road. (Wet well with HWL to manually opened SSO gate.)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: City is not in compliance with its CAP. Evaluating whether ACO will be amended. **Schedule of Compliance Approved by MDEQ:** Yes

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Center Line*County: Macomb*

Actions by MDEQ: MDEQ entered into and ACO with the city for correction.

Actions to Prevent Reoccurrence I/I removal, increased contract capacity and other corrective actions needed.

Comments: None entered

Chain of Lakes Sewer Authority*County: Newaygo***Reported Events:**

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16902	11/26/14 6:00 A	11/26/14 7:30 A	0.0025 Million Gallons	Raw sewage	56th/Centerline Road Lift Station, SE corner of road crossing (Property of Sewer Authority/Lift station area). Land: driveway & property of lift station, Waterbody: Penoyer Creek	Work was conducted earlier in the week at this lift station for other issues. The manager believes this may have caused the float in lift station to fail. This may also be the reasoning of why the telemetering & communications failed.

Summary for Chain of Lakes Sewer Authori: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Chain of Lakes Sewer Authority

County: Newaygo

Outfall Corrective Actions:

Associated Outfall(s): 56th/Centerline Road Lift Station, SE corner of road crossing (Property of Sewer Authority/Lift station area)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Repaired Float in lift station, along with repairing the telemetering and communications.

Comments: None entered

Charlevoix

County: Charlevoix

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15914	05/12/14 6:15 A	05/12/14 6:30 A	Unspecified	Raw sewage	one mile east of intersection of pa-beshan trail and orchard rd. Land: none, Waterbody: None entered	raw sewage eff;iemt - no solids dischargd. Broken fitting in a manhole allowed the effluent to fill the manhole and overflow

Summary for Charlevoix: 0 of 1 Events with a Reported Volume Total SSO Volume Reported: Unspecified

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Chesaning

County: Saginaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16063	07/07/14 3:00 A	07/07/14 4:30 A	0.00225 Million Gallons	Diluted raw sewage	#003 Canal St. at Shiawassee River (Canal St. PS) (Plugged sewer main). Land: None entered, Waterbody: Shiawassee River	Pump Station overwhelmed by inflow

Summary for Chesaning:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	#003 Canal St. at Shiawassee River (Canal St. PS) (Plugged sewer main)		
Corrective Action(s) Complete: (repairs/modifications complete)	No		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ:	Yes
Actions by MDEQ:	ACO entered for eliminating SSO's.		
Actions to Prevent Reoccurrence	Presently doing an I/I study to determine most effective solution.		
Comments:	None entered		
Associated Outfall(s):	#003 Canal St. at Shiawassee River (Canal St. PS) (Plugged sewer main)		
Corrective Action(s) Complete: (repairs/modifications complete)	Yes		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ:	No
Actions by MDEQ:	ACO planned re problems at pump station		

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Chesaning

County: Saginaw

Actions to Prevent Reoccurrence sewer cleaning schedule

Comments: This was atypical sewer plugging on the line influent to the wet well. Cleaning the sewer fixed the problem.

Chikaming Township

County: Berrien

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15686	02/26/14	2:30 P	02/26/14	3:30 P	0.005 Million Gallons	Raw sewage	LS 13 on Ridge Ave, West of Red Arrow Hwy. Land: small area around lift station, Waterbody: None	Breaker at lift station tripped shutting down pumps and local alarm system.
16013	06/24/14	12:00 A	06/24/14	12:30 A	0.01 Million Gallons	Raw sewage	LS #5 14352 Bluff Rd, Chikaming Twp. Land: Area around Lift station, Waterbody: None	Lightning strike tripped pumps and damaged alarm dialer.

Summary for Chikaming Township: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.015 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Clinton Township

County: Macomb

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15885	05/15/14 10:54 A	05/15/14 12:55 P	0.07 Million Gallons	Diluted raw sewage	34013 Beaconfield (SSO Pump Station #9). Land: None entered, Waterbody: Clinton River *** 35846 Rutherford (SSO Pump Station #6). Land: None entered, Waterbody: Clinton River	Heavy rain
16471	08/11/14 6:43 P	08/12/14 2:42 A	1.61 Million Gallons	Raw sewage	34013 Beaconfield (SSO Pump Station #9). Land: None entered, Waterbody: Clinton River *** 35846 Rutherford (SSO Pump Station #6). Land: None entered, Waterbody: Clinton River *** 35541 Golden & Danbury (SSO Pump Station #4). Land: Storm System, Waterbody: clinton river *** Coleman at Little Mack (Location of formerly Pump # 8). Land: None entered, Waterbody: clinton river *** 35860 Little Mack at Tulio (SSO Pump Station #5). Land: None entered, Waterbody: Clinton River *** 22808 N. Nunneley (SSO Pump Station #2). Land: Storm System, Waterbody: clinton river *** 37938 Mulberry (SSO Pump Station #1). Land: None entered, Waterbody: Clinton River *** 22833 King Rd (SSO Pump Station #3). Land: None, Waterbody: clinton river	sewer overflow due to heavy rain
16759	09/10/14 5:11 P	09/10/14 5:41 P	0.02 Million Gallons	Diluted raw sewage	34013 Beaconfield (SSO Pump Station #9). Land: None entered, Waterbody: Clinton River	sewer overflow due to heavy rain

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Clinton Township

County: Macomb

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16912	12/13/14 9:56 P	12/14/14 12:14 P	0.01 Million Gallons	Raw sewage	35846 Rutherford (SSO Pump Station #6). Land: None entered, Waterbody: Clinton River	sewer overflow due to plug sewer downstream from the station

Summary for Clinton Township:

4 of 4 Events with a Reported Volume Total SSO Volume Reported: 1.71 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):

34013 Beaconfield (SSO Pump Station #9) *** 22833 King Rd (SSO Pump Station #3) *** 35846 Rutherford (SSO Pump Station #6) *** 37938 Mulberry (SSO Pump Station #1) *** 34013 Beaconfield (SSO Pump Station #9) *** 22808 N. Nunneley (SSO Pump Station #2) *** 35846 Rutherford (SSO Pump Station #6) *** 35541 Golden & Danbury (SSO Pump Station #4) *** 34013 Beaconfield (SSO Pump Station #9) *** 35860 Little Mack at Tulio (SSO Pump Station #5) *** 35846 Rutherford (SSO Pump Station #6)

Corrective Action(s) Complete:
(repairs/modifications complete)

No

Schedule of Compliance:

Sixth Amended Administration Consent Order, AFO-SW10-007. On or before December 31, 2017, the Township shall complete construction of the approved alternative

Schedule of Compliance Approved by MDEQ: Yes

Actions by MDEQ:

ACO

Actions to Prevent Reoccurrence

ACO corrective action program with schedule

Comments:

None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Coldwater

County: *Branch*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16093	07/21/14 6:10 P	07/21/14 6:35 P	0.04 Million Gallons	Raw sewage	100 Jay St, Coldwater Wastewater Treatment Plant (Main Lift Station at WWTP). Land: Area between Lift Station and Storm Drain, Waterbody: Sauk River	Partial phase failure on primary and backup power prevented the backup power supply from engaging.

Summary for Coldwater:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.04 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Colfax Twp

County: *Huron*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15927	04/17/14 10:00 A	04/25/14 11:00 P	2.5 Million Gallons	Raw sewage	WWSL. Land: none, Waterbody: Bad Axe Drain	WWSL was above capacity due to the addition volume generated due to drinking water issuing a "Let water Run" during the winter.

Summary for Colfax Twp:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 2.5 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Commerce Twp

County: Oakland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16032	06/28/14 10:45 A	06/28/14 3:00 P	0.0072 Million Gallons	Raw sewage	Union Lake @ Golfside Dr. Land: 10 ft x 15 ft area arround air relief valve chamber, Waterbody: None	failed ARV, repaired ARV

Summary for Commerce Twp: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.007 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Union Lake @ Golfside Dr

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: No further action required.

Actions to Prevent Reoccurrence County will respond as required to deal with any future issues at this location

Comments: None entered

Associated Outfall(s): Union Lake @ Golfside Dr

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Review of SSO event information determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of sewer system to prevent reoccurrence.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Commerce Twp

County: Oakland

Comments: None entered

Constantine

County: St Joseph

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16909	06/05/14 4:10 P	06/05/14 4:25 P	0.0015 Million Gallons	Raw sewage	Air Release Manhole approx 2 miles South of Three Rivers on West side of US 131. Land: 20 x 80 ft area in ROW, Waterbody: None	Malfunctioning air release valve

Summary for Constantine: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Corunna

County: Shiawassee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17027	05/21/14 5:30 P	05/21/14 10:00 P	0.13 Million Gallons	Diluted raw sewage	701 Pine St, EQ Basin (heavy rainfall and I/I). Land: None entered, Waterbody: Shiawassee River	heavy rainfall and I/I caused capacity of collection system to be exceeded resulting in discharge to river.

Summary for Corunna: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.13 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Country Acres MHP

County: Allegan

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15717	03/04/14 4:00 P	03/05/14 8:00 A	0.00002 Million Gallons	Raw sewage	Lot 15 (Lot 15 - 5904 142nd Ave, Holland MI 49423). Land: 100 square feet at Lot 15, Waterbody: None entered	Sewer line obstruction. Improperly disposed items by tenants.

Summary for Country Acres MHP:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Country Estates

County: Oakland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16877	02/18/14 8:00 A	02/18/14 3:00 P	0.01 Million Gallons	Partially treated sewage	Treatment Plant (holding tank near pump station). Land: Land adjacent to treatment plant., Waterbody: None entered	Back up occurred due to DTE electrical failure/fuse at the service pole on nearby road. This failure caused loss of power causing the pumps in the front pump house to go off line. This, in turn, caused the system to back up in the pump house holding
16878	10/27/14 5:30 P	10/27/14 9:00 P	0.00004 Million Gallons	Raw sewage	Collection System (Leak from broken collection system line.). Land: Ground near residence, Waterbody: None entered	Sewer line backed up due to sanitary trash in line

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Country Estates

County: Oakland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
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Summary for Country Estates: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.01 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Treatment Plant (holding tank near pump station) *** Collection System (Leak from broken collection system line.)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Review of SSO event determined no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence

Comments: None entered

Dearborn

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16542	08/11/14 12:59 P	08/11/14 9:26 P	1.42 Million Gallons	Diluted raw sewage	Ford Field Park (In the vicinity of Outfall B-110). Land: Yes, Waterbody: Rouge River, Lower Branch	Heavy rain that caused surcharge conditions resulting in SSO from a sanitary manhole

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Dearborn

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16543	08/11/14 3:00 P	08/13/14 6:30 A	10.64 Million Gallons	Diluted raw sewage	Greenfield PS (1st manhole downstream of Greenfield PS). Land: Sewerage Division parking lot, Waterbody: Rouge River	Interceptor was surcharges and would not allow Dearborn to discharge 60 cfs. Approximately 10 cfs overflowed into the Sewerage Division parking lot and its storm drain
16753	09/10/14 5:30 P	09/10/14 7:10 P	0.004488 Million Gallons	Diluted raw sewage	Greenfield PS (1st manhole downstream of Greenfield PS). Land: Sewerage Division parking lot, Waterbody: Rouge River	DWSD NW Interceptor would not allow Dearborn to discharge 50 cfs, approximately 1 cfs overflowed into the Sewerage Division's parking lot and into a storm drain.
16783	09/15/14 9:37 A	09/15/14 12:30 P	0.1759 Million Gallons	Raw sewage	004, East of Telegraph and North of the River. Land: None entered, Waterbody: Rouge River	The inlet pipe to the diversion chamber had a partial blockage of roots and other debris
16793	09/22/14 8:05 A	09/22/14 10:15 A	0.128 Million Gallons	Diluted raw sewage	004, East of Telegraph and North of the River. Land: None entered, Waterbody: Rouge River	the inlet pipe to the diversion chamber had a partial blockage with a piece of 4x4 and debris

Summary for Dearborn:

5 of 5 Events with a Reported Volume Total SSO Volume Reported: 12.368 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Dearborn**County: Wayne****Outfall Corrective Actions:**

Associated Outfall(s): 004, East of Telegraph and North of the River (004, East of Telegraph and North of the River) *** Greenfield PS (1st manhole downstream of Greenfield PS) *** Greenfield PS (1st manhole downstream of Greenfield PS) *** 004, East of Telegraph and North of the River (004, East of Telegraph and North of the River)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Evaluation of event has determined that no further action is necessary at this time

Actions to Prevent Reoccurrence Entity performs routine inspection and maintenance

Comments: None entered

Dearborn Heights**County: Wayne****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16518	08/11/14 6:38 P	08/12/14 7:25 A	7.2 Million Gallons	Diluted raw sewage	5600 Jackson Street. Land: None entered, Waterbody: Ecorse Creek, North Branch	Bypass of station, capacity of station exceeded due to wet weather

Summary for Dearborn Heights: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 7.2 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Dearborn Heights

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): 5600 Jackson Street

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Event likely exceeded remedial design standard of SSO Policy. DEQ will monitor system performance as a followup to this determination.

Actions to Prevent Reoccurrence None entered

Comments: None entered

DEG Development Company, LLC

County: Kent

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16951	10/29/14 8:00 A	10/30/14 8:00 A	Unspecified	Raw sewage	1110 Robbins Rd, Grand Haven (Location is commercial complex of businesses). Land: None entered, Waterbody: Grand River	Sewage overflow due to sewer blockage of grease. Discharge flowed over pavement into storm sewer catch basin. Unknown volume.

Summary for DEG Development Company, LLC:

0 of 1 Events with a Reported Volume Total SSO Volume Reported: Unspecified

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

DEG Development Company, LLC

County: Kent

Outfall Corrective Actions:

Associated Outfall(s): 1110 Robbins Rd, Grand Haven (Location is commercial complex of businesses)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: A Violation Notice was issued.

Actions to Prevent Reoccurrence Catch basin and downstream sewer was cleaned.

Comments: None entered

Delta Township

County: Eaton

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15958	06/04/14 7:15 A	06/04/14 8:15 A	0.00025 Million Gallons	Raw sewage	S of Webster Rd & Old River Trail intersection - on Webster Rd (hole in forcemain). Land: area around defective forcemain, Waterbody: None entered	discharge caused by hole in lift station forcemain

Summary for Delta Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00025 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Detroit

County: Wayne

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15840	04/04/14 1:45 P	04/04/14 2:14 P	0.002 Million Gallons	Diluted raw sewage	Outfall 063 (B064 Plymouth & Rouge Park). Land: None entered, Waterbody: Rouge River	very dilute combined sewageWater main break
16545	08/13/14 2:15 A	08/13/14 3:21 A	2.1 Million Gallons	Diluted raw sewage	Outfall 049F. Land: None entered, Waterbody: Detroit River	WWTP did not maintain 1700 MGD pumping capacity for raw sewage. Main Lifp Pump #15 kicked out and would not restart. After 2 failed attempts another pumpwas placed in service and flow was restored to 1750 MGD rate.
16717	09/01/14 7:48 P	09/03/14 7:49 A	264.4 Million Gallons	Partially treated sewage	Outfall 50A (WWTP Rouge River Outfall). Land: None entered, Waterbody: Rouge River	

Summary for Detroit:

3 of 3 Events with a Reported Volume Total SSO Volume Reported: 266.502 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	Outfall 049F *** Outfall 049F *** Outfall 049F *** Outfall 049F	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	NPDES Permit requires implementation of CSO Control Plan	Schedule of Compliance Approved by MDEQ: Yes
Actions by MDEQ:	Issued NPDES Permit with CSO Control Program requirements to permittee.	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Detroit

County: Wayne

Actions to Prevent Reoccurrence Corrective actions being implemented by the permittee.

Comments: None entered

Dowagiac

County: Cass

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15898	05/17/14 7:17 P	05/17/14 9:09 P	0.00015 Million Gallons	Raw sewage	200 Block of Lincoln St. (MH in 200 Block of Lincoln St.). Land: Roadway, Waterbody: None	Plugged sanitary sewer main overflowed at a manhole.

Summary for Dowagiac: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00015 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Evergreen MHP

County: Ionia

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15766	01/22/14 8:00 A	01/23/14 11:00 A	0.003 Million Gallons	Raw sewage	2096 North State Road, Ionia, MI 48846 (Main lift station). Land: Ground around main lift station, Waterbody: None entered	Lift station pumps were both inoperable

Summary for Evergreen MHP: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Farmington Hills

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15634	02/09/14 12:00 P	02/09/14 11:35 P	0.001425 Million Gallons	Raw sewage	31005 Orchard Lake Rd (manhole). Land: Parking lot area between manhole and catch basin, Waterbody: Rouge River	Grease created a back-up in the sanitary sewer, which caused an overflow at Manhole FAT009119. The overflow reached a nearby storm sewer catch basin.

Summary for Farmington Hills:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 31005 Orchard Lake Rd (manhole)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: NA

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Review of SSO event information determined that no further action is necessary at this time

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Fenton

County: Genesee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16982	12/15/14 8:30 A	12/15/14 10:00 A	0.015 Million Gallons	Raw sewage	150 S. LeRoy, Fenton (broke sewer line excavating foundation at community center). Land: area of excavation, Waterbody: Shiawassee River	contractor was excavating a foundation and in process broke an old line resulting in sewage discharge.

Summary for Fenton: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.015 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Fenton Township

County: Genesee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15660	01/20/14 7:30 A	01/20/14 8:30 A	0.0004 Million Gallons	Raw sewage	11300 blk of Main St, Fenton Twp (broken forcemain). Land: 100 ft of ditch at site of FM break, Waterbody: None entered	discharge due to broken forcemain

Summary for Fenton Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0004 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Flint County: *Genesee*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
17041	05/13/14 6:10 P	05/16/14 7:30 P	75 Million Gallons	Partially treated sewage	WWTP RTB, Beecher Rd, Flint (Retention Treatment Basin (RTB) outfall 003). Land: None entered, Waterbody: Flint River	extended heavy rainfall and I/I caused capacity of sewer system and RTB to be exceeded.
17043	06/30/14 7:00 A	06/30/14 11:00 A	0.001 Million Gallons	Partially treated sewage	storm sewer catch basin on WWTP grounds (sludge spill). Land: area surround spill and catch basin, Waterbody: Flint River	discharge of wwtp sludge due to sludge pump failure
16465	08/11/14 7:35 P	08/12/14 7:00 A	12.3 Million Gallons	Partially treated sewage	WWTP RTB, Beecher Rd, Flint (Retention Treatment Basin (RTB) outfall 003). Land: None entered, Waterbody: Flint River	extended heavy rainfall and I/I caused capacity of sewer system and RTB to be exceeded.
17044	08/20/14 5:20 A	08/20/14 2:15 P	3.75 Million Gallons	Raw sewage	3rd Ave Pump Station (TAPS) (Influent pump station to WWTP). Land: None entered, Waterbody: Flint	discharge due to failure of both power feeds from Consumers Energy. Auto accident was original cause, and CE had a cross connection which resulted in the redundant power source failure.

Summary for Flint:

4 of 4 Events with a Reported Volume Total SSO Volume Reported: 91.051 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Flint County: *Genesee*

Outfall Corrective Actions:

Associated Outfall(s): WWTP RTB, Beecher Rd, Flint (Retention Treatment Basin (RTB) outfall 003) *** WWTP RTB, Beecher Rd, Flint (Retention Treatment Basin (RTB) outfall 003)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence collection system and treatment facility capacity analysis is underway

Comments: None entered

Flushing County: *Genesee*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16985	04/21/14 9:00 A	04/21/14 10:30 A	0.001 Million Gallons	Raw sewage	312 Mark Dr. Land: None entered, Waterbody: Flint River	blockage in sewer resulting in discharge from manhole to river

Summary for Flushing: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Flushing

County: Genesee

Outfall Corrective Actions:

Associated Outfall(s): 312 Mark Dr

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence cleaned sewer

Comments: None entered

Galien River SD Sewer Authority

County: Berrien

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15687	02/11/14 12:30 P	02/11/14 1:00 P	0.00002 Million Gallons	Partially treated sewage	GRSD WWTP (Plant Lift Station). Land: Lawn area around valve Chamber, Waterbody: None	Drian in plant lift station valve camber plugged at WWTP.
15650	02/22/14 8:00 A	02/22/14 8:05 A	0.005 Million Gallons	Partially treated sewage	GRSD WWTP (Gravity Thickener overflow). Land: Lawn at WWTP, Waterbody: Wetlands	Gravity Thickener overflowed due to power interruption.
16028	07/01/14 12:40 P	07/01/14 1:30 P	0.0005 Million Gallons	Partially treated sewage	GRSD WWTP (Plant Lift Station). Land: Lawn area around valve Chamber, Waterbody: None	Sludge Digester overflowed due to excessive influent flow.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Galien River SD Sewer Authority

County: Berrien

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16464	08/08/14 11:00 P	08/09/14 7:45 A	0.05 Million Gallons	Partially treated sewage	GRSD WWTP (Gravity Thickener overflow). Land: Lawn at WWTP, Waterbody: Wetlands	The Anaerobic Digester overflowed due to an operator leaving the Co-Thickened pump in th emanual position and overfilling it.
16833	10/20/14 8:00 A	10/20/14 8:30 A	0.0001 Million Gallons	Partially treated sewage	GRSD WWTP (Plant Lift Station). Land: Lawn area around valve Chamber, Waterbody: None	Plugged line from grease well to plan recycle station.

Summary for Galien River SD Sewer Author: 5 of 5 Events with a Reported Volume Total SSO Volume Reported: 0.056 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

General Motors

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15671	02/24/14 7:00 A	02/24/14 8:00 P	0.0001 Million Gallons	Raw sewage	GM LGR Plant - Olds Ave inside LGR property (plugged sewer line). Land: None entered, Waterbody: Grand River	plugged sewer line resulted in overflow from manhole into a nearby catch basin
15747	03/11/14 12:00 P	03/18/14 9:30 P	0.2265 Million Gallons	Raw sewage	GM Flint Metal Center property (clogged sewer line). Land: gravel area from MH to storm sewer, Waterbody: Swartz Creek	overflow due to sewer line blockage

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

General Motors

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
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Summary for General Motors: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.227 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Genesee County Drain Commissioner

County: Genesee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15878			Unspecified		Land: None entered, Waterbody: None entered	
16990	04/14/14 9:00 P	04/15/14 11:00 A	0.002 Million Gallons	Raw sewage	7200 blk Theather Ct, Deerfield Twp (broken line). Land: area around pump station, Waterbody: Bennett Lake	discharge due to broken sewer main
15875	05/12/14 8:00 P	05/12/14 8:30 P	0.0001 Million Gallons	Diluted raw sewage	16300 Blk of Oakhill, Argentine Twp (capacity of PS exceeded during wet weather). Land: Area around cover of PS, Waterbody: Lobdell Lake	capacity of pump exceeded during period of heavy rainfall.
16996	05/13/14 10:25 A	05/13/14 10:27 A	0.003 Million Gallons	Diluted raw sewage	WWTP at Linden (Genesee #3 WWTP at Linden,). Land: None entered, Waterbody: Shiawassee	heavy rainfall caused flow to plant to exceed capacity, flow was diverted to the EQ basin which overflowed the sidewalls briefly.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Genesee County Drain Commissioner

County: Genesee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
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Summary for Genesee County Drain Commiss: 3 of 4 Events with a Reported Volume Total SSO Volume Reported: 0.005 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 16300 Blk of Oakhill, Argentine Twp (capacity of PS exceeded during wet weather)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: response adequate

Actions to Prevent Reoccurrence NA

Comments: Linden plant (GCDC #3) said 1/24 that sewage had leaked around cover of PS

Associated Outfall(s): WWTP at Linden (Genesee #3 WWTP at Linden,)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Negotiating settlement.

Actions to Prevent Reoccurrence (no entry)

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Genoa Twp

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15659	01/23/14 1:00 A	02/24/14 11:30 A	0.02 Million Gallons	Raw sewage	MH in 2500 b k of Monte Vista, Brighton, MI (discharge due to frozen line). Land: onsite pond no outlet and area around MH, Waterbody: unnamed pond	sewer line froze (in area of low cover) causing line blockage and overflow.

Summary for Genoa Twp:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.02 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Genoa-Oceola Sewer Authority

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17017	03/24/14 11:00 A	03/24/14 2:00 P	0.05 Million Gallons	Raw sewage	2200 blk Grand River Ave at Golf Club (forcemain break). Land: area surrounding the site of break, Waterbody: storm water detention pond	forcemain break
17018	08/12/14 2:30 P	08/12/14 3:00 P	0.0001 Million Gallons	Raw sewage	700 blk of Pathway Dr. Land: area around pump station, Waterbody: Lake Chemung	discharge due to broken line between pump station and shutoff valves.

Summary for Genoa-Oceola Sewer Authority:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.05 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

GM LLC Pontiac Powertrain

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15739	03/13/14 12:20 P	03/13/14 3:50 P	0.003 Million Gallons	Raw sewage	895 Joslyn Ave, N of Central Energy Plant (sewer). Land: area surrounding sewer break to the storm sewer, Waterbody: Clinton River	Break in sanitary sewer resulted in release of 3,000 gal of primarily boiler makeup water (purified city water that is not chemically treated) and sanitary from one bathroom

Summary for GM LLC Pontiac Powertrain: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 895 Joslyn Ave, N of Central Energy Plant (sewer)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Evaluation of event has determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence None entered

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Gogebic-Iron Wastewater Authority

County: Gogebic

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15781	04/09/14 8:45 A	04/12/14 11:59 A	6.08 Million Gallons	Blended	Flow Equalization Basin (Outfall 002 at the WWTP). Land: NA, Waterbody: Montreal River *** Blended Outfall 001 (Blended Sewage). Land: None entered, Waterbody: Montreal River	warm temperatures melted 19 inches of snow with a water content of 7.2 inches
15809	04/20/14 4:30 P	04/25/14 5:00 P	5.33 Million Gallons	Partially treated sewage	Blended Outfall 001 (Blended Sewage). Land: None entered, Waterbody: Montreal River *** Flow Equalization Basin (Outfall 002 at the WWTP). Land: NA, Waterbody: Montreal River	melting snow pack
15836	04/30/14 12:54 P	05/02/14 7:45 A	2.012 Million Gallons	Blended	Blended Outfall 001 (Blended Sewage). Land: None entered, Waterbody: Montreal River	frost, snow melt, precipitation, and let run conditions all contributed to clear water infiltration into sewers of the CMs.
15852	05/08/14 10:06 A	05/09/14 11:00 P	3.84 Million Gallons	Blended	Flow Equalization Basin (Outfall 002 at the WWTP). Land: NA, Waterbody: Montreal River *** Blended Outfall 001 (Blended Sewage). Land: None entered, Waterbody: Montreal River	2.01 of rain on saturated and frozen ground
16747	09/10/14 10:31 A	09/11/14 12:30 P	1.26 Million Gallons	Blended	Blended Outfall 001 (Blended Sewage). Land: None entered, Waterbody: Montreal River	excessive rain

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Gogebic-Iron Wastewater Authority

County: Gogebic

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16915	12/16/14 12:20 A	12/16/14 7:00 A	0.134 Million Gallons	Partially treated sewage	Blended Outfall 001 (Blended Sewage). Land: None entered, Waterbody: Montreal River	0.9 inches of rain and 6 inches of melting snow

Summary for Gogebic-Iron Wastewater Auth: 6 of 6 Events with a Reported Volume Total SSO Volume Reported: 18.656 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	Flow Equalization Basin (Outfall 002 at the WWTP) *** Flow Equalization Basin (Outfall 002 at the WWTP) *** Flow Equalization Basin (Outfall 002 at the WWTP)
Corrective Action(s) Complete: (repairs/modifications complete)	No
Schedule of Compliance:	None entered Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Notice Letter, Proposed Draft Administrative Consent Order
Actions to Prevent Reoccurrence	Conducting I/I studies to eliminate clear water from sanitary sewer system
Comments:	Negotiating ACO with communities and Wastewater Authority
Associated Outfall(s):	Flow Equalization Basin (Outfall 002 at the WWTP) *** Flow Equalization Basin (Outfall 002 at the WWTP) *** Flow Equalization Basin (Outfall 002 at the WWTP)
Corrective Action(s) Complete: (repairs/modifications complete)	No
Schedule of Compliance:	None entered Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	ACO, flow allocation study for CMs

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Gogebic-Iron Wastewater Authority

County: Gogebic

Actions to Prevent Reoccurrence city of Hurley has spent \$6.3M since 2006 and continue to work. Ironwood Twp is in process of completing a \$1.083M phase I project to replace sewer mains. Ironwood started phase I of III \$16M project

Comments: None entered

Grand Rapids

County: Kent

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15769	03/25/14 8:20 A	03/25/14 9:50 A	0.0008 Million Gallons	Raw sewage	6860 Cascade Rd SE, Cascade. Land: None entered, Waterbody: Thornapple River	A flow monitor device came loose and rags & other debris were snagged on the brackets eventually plugging the sewer, resulting in an overflow.
15975	06/13/14 4:40 P	06/13/14 5:31 P	0.0005 Million Gallons	Raw sewage	2673 32nd St SE, Kentwood. Land: None entered, Waterbody: Plaster Creek	Due to a blockage caused by grease, the sewer overflowed.
16505	08/13/14 2:35 P	08/13/14 3:00 P	0.000001 Million Gallons	Raw sewage	947 Hayes St., Marne, Tallmadge Twp. Land: Soils around the manhole, Waterbody: None entered	An air relief valve on the force main failed allowing 1 gallon of sewage to escape to the ground.
16824	10/15/14 7:05 P	10/15/14 11:00 P	0.0073 Million Gallons	Raw sewage	Cascade Rd & East Paris- Intersection. Land: Soil around the sewer line, Waterbody: None entered	A contractor who was installing temporary sheeting to lay telephone cable cut through the 10" sanitary sewer line resulting in a lost of sewage to the ground.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Grand Rapids

County: Kent

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
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Summary for Grand Rapids: 4 of 4 Events with a Reported Volume Total SSO Volume Reported: 0.009 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 2673 32nd St SE, Kentwood

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence City is working with commercial users who appear to be the source of the problem.

Comments: None entered

Grosse Ile

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15565	01/14/14 8:00 A	01/14/14 8:02 A	0.0001 Million Gallons	Partially treated sewage	Grosse Ile WWTP. Land: None entered, Waterbody: Detroit River (Trenton Channel)	While draining secondary clarifier, operator started pump without opening tank bypass valve, then it accidently filled the biosolids tank and water overflowed out the tank's inspection hatch.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Grosse Ile

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15908	05/15/14 4:15 P	05/16/14 1:30 A	0.547 Million Gallons	Diluted raw sewage	24975 West River Rd. EQ Basin. Land: none, Waterbody: Detroit River (Trenton Channel)	Flow being pumped through the WWTP exceeded peak capacity and excess was diverted to equalization basin which filled and overflowed before flows dropped to an amount that the WWTP could handle.
16774	09/10/14 12:00 P	09/11/14 7:00 A	0.5 Million Gallons	Diluted raw sewage	24975 West River Rd. EQ Basin. Land: none, Waterbody: Detroit River (Trenton Channel)	Equalization Basin overflow with disinfection due to rain.

Summary for Grosse Ile:**3 of 3 Events with a Reported Volume Total SSO Volume Reported: 1.047 Million Gallons****Outfall Corrective Actions:**

Associated Outfall(s):	24975 West River Rd. EQ Basin *** 24975 West River Rd. EQ Basin	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	Storage system corrections are in process. Storage basin to come on-line in 2005 to store excess flow for complete treatment.	Schedule of Compliance Approved by MDEQ: Yes
Actions by MDEQ:	ACO issued	
Actions to Prevent Reoccurrence	Storage basin to come on-line in 2005.	
Comments:	None entered	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Grosse Ile

County: Wayne

Associated Outfall(s): Grosse Ile WWTP

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: ACO is being processed which will incorporate date specific schedule.Meeting is scheduled for negotiating the schedule. **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: 6th Amended ACO is being processed which will incorporate date specific schedule.

Actions to Prevent Reoccurrence I/I removal and corrective actions needed.

Comments: None entered

Hamburg Twp

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15699	01/06/14 11:00 A	01/06/14 4:00 P	0.0005 Million Gallons	Raw sewage	8700 blk of Century Dr (broken fitting at sewer main and lateral). Land: area around broken sewer line, Waterbody: None entered	cracked fitting between service lateral and sewer main
15593	02/02/14 10:00 P	02/03/14 11:00 A	0.001 Million Gallons	Raw sewage	7300 blk of M-36. Land: land at area of discharge, Waterbody: None entered	discharge due to broken check valve at service lateral

Summary for Hamburg Twp: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Harbor Springs Area SDA

County: Emmet

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16088	07/16/14 2:00 P	07/16/14 2:25 P	0.002 Million Gallons	Raw sewage	8840 Page Hill Road (Pump Station #3). Land: 30 ft. ditch, Waterbody: Unnamed Creek/Lake Michigan	Lead pump failed/stalled and lag (redundant) pump failed to start.
16683	08/25/14 12:00 P	08/25/14 1:30 P	0.01 Million Gallons	Raw sewage	8840 Page Hill Road (Pump Station #3). Land: 30 ft. ditch, Waterbody: Unnamed Creek/Lake Michigan	Lightning strike caused voltage spike, leading to variable frequency drives going into over-volt condition, shutting down the units to protect them.

Summary for Harbor Springs Area SDA: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.012 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	8840 Page Hill Road (Pump Station #3) *** 8840 Page Hill Road (Pump Station #3)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	None entered	
Actions to Prevent Reoccurrence	Working on administrative safeguards	
Comments:	None entered	
Associated Outfall(s):	8840 Page Hill Road (Pump Station #3) *** 8840 Page Hill Road (Pump Station #3)	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Harbor Springs Area SDA

County: Emmet

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Ensure emergency protocol is followed by emergency answering service. Alarm added for the stalled pump alarm.

Comments: None entered

Hillshire Brands-Zeeland

County: Ottawa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15936	05/28/14 9:30 A	05/28/14 9:35 A	0.00005 Million Gallons	Raw sewage	South Side of Production Facility (raw sewage from break in pipe joint). Land: 8 ft x 8 ft area, Waterbody: Blendon/Olive Drain via DeWitt Drain	Pipe joint failed at "clean-out" connection, which caused the gravel and sand in the area to become contaminated with wastewater.
15967	06/06/14 7:30 A	06/06/14 7:35 A	0.00002 Million Gallons	Raw sewage	Southeast corner of Production Facility (Hot Dog Production area) (Pipeline by lift station). Land: None entered, Waterbody: Blendon/Olive Drain via DeWitt Drain	A pipe line broke just outside of the back-up lift station (near the hot dog production area).

Summary for Hillshire Brands-Zeeland: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.00007 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Hillshire Brands-Zeeland

County: Ottawa

Outfall Corrective Actions:

Associated Outfall(s): South Side of Production Facility (raw sewage from break in pipe joint)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Removed the clean-out piping.

Comments: None entered

Holland Charter Township

County: Ottawa

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15724	03/06/14 11:00 A	03/06/14 4:00 P	0.003 Million Gallons	Raw sewage	84th St, between Felch and Riley. Land: None entered, Waterbody: Brower Drain	A plug in a manhole intended for future use failed, filling the sewer with sand. This resulted in a backup and overflow into an open field and drainage swale.

Summary for Holland Charter Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Howell Estates

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17036	03/06/14 4:53 P	03/07/14 8:00 P	0.0002 Million Gallons	Raw sewage	515 Mason Rd, area behind community center, Howell (plugged sewer at MHC). Land: area around manhole, Waterbody: Marion-Genoa Drain	discharge due to plugged sewer behind MHC community center. SSO report was submitted, but no indication given that problem was resolved.

Summary for Howell Estates: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Howell Township

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17011	05/05/14 2:00 P	05/05/14 3:30 P	0.0002 Million Gallons	Raw sewage	3900 blk Tractor Dr, Howell Twp (plugged sewer). Land: parking lot and surrounding soil, Waterbody: Shiawassee River	discharge due to plugged sewer line

Summary for Howell Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Independence Township

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15825	04/24/14 7:40 A	04/24/14 8:24 A	0.00002 Million Gallons	Raw sewage	Maybe Rd and Waterford Rd (manhole). Land: surrounding area around manhole, Waterbody: Spring Lake	Plugged manhole, excessive sand and gravel. Call came into the Fire Department at 7:40 AM.

Summary for Independence Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00002 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Maybe Rd and Waterford Rd (manhole)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Review of SSO event information determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Interior Township, Trout Creek

County: Ontonagon

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15819	04/23/14 8:00 A		Unspecified		Land: None entered, Waterbody: None entered	volume exceeds capacity of lagoons

Summary for Interior Township, Trout Cre: 0 of 1 Events with a Reported Volume Total SSO Volume Reported: Unspecified

Outfall Corrective Actions: (No corrective actions entered)

Iron River, City of

County: Iron

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15734	02/20/14 12:00 P	03/05/14 12:00 P	0.48 Million Gallons	Diluted raw sewage	Boyington - Between 8th and 9th St. (Manhole). Land: Street, Waterbody: storm sewer	Frozen Sewer Main
15735	03/07/14 6:00 A	03/07/14 11:30 A	0.0033 Million Gallons	Diluted raw sewage	Lay Ave at Hemlock St (Manhole). Land: Street, Waterbody: storm sewer	Frozen Sewer Main

Summary for Iron River, City of: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.483 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Ironwood Charter Township

County: Gogebic

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15853			Unspecified		Land: None entered, Waterbody: None entered	

Summary for Ironwood Charter Township: 0 of 1 Events with a Reported Volume Total SSO Volume Reported: Unspecified

Outfall Corrective Actions: (No corrective actions entered)

Jamestown Charter Township

County: Ottawa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15876	05/12/14 9:00 A	05/12/14 1:30 P	0.006075 Million Gallons	Raw sewage	2200 Riley St (Lift Station) (Country Hills Acres). Land: Soils from retention area to the creek, Waterbody: Rush Creek	Pump failure at a sewer lift station resulted in an overflow to the ground. Due to rain, some sewage may have made it into Rush Creek.
16796	09/19/14 2:00 P	09/22/14 4:00 P	0.058 Million Gallons	Raw sewage	Royal Ct. Lift Station (manhole). Land: area around manhole, Waterbody: None entered	Pumps at lift station quit working due to severe clogging & a metal impediment in one of the pumps propeller. The amps were also set too high, causing the pumps to not start up, which then caused the alarms to not go off.

Summary for Jamestown Charter Township: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.064 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Jamestown Charter Township

County: Ottawa

Outfall Corrective Actions:

Associated Outfall(s): Royal Ct. Lift Station (manhole)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Spread lime down on area of overflow.

Actions to Prevent Reoccurrence Working with Grantech to assure that alarm system works for an automatic re-set in any future instance.

Comments: The operator spread lime down on the surrounding soils around the manhole on the 24th of Sept.

Kalamazoo

County: Kalamazoo

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16828	10/17/14 9:45 A	10/17/14 11:05 A	0.0001 Million Gallons	Raw sewage	Spring Valley Park Manhole (Manhole at inlet to Spring Valley Lake). Land: None entered, Waterbody: Spring Valley Lake	Grease/rags partially plugged upstream sanitary sewer MH.
16845	10/21/14 3:30 P	10/21/14 5:00 P	0.00099 Million Gallons	Raw sewage	Intersection of East Michigan & Wallace Street (MH KC 14318). Land: Excavation Trench, Waterbody: None entered	MH KC14318 had a partial blockage releasing wastewater into the excavation trench.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Kalamazoo

County: Kalamazoo

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16872	11/07/14 8:50 A	11/07/14 9:15 A	0.00225 Million Gallons	Raw sewage	1/4 mile west of the intersection of 11th Street & Crystal Lane (MH). Land: Area around MH, Waterbody: None entered	A grease blockage in the sanitary sewer on Crystal Lane caused the wastewater flow to back up and overflow the MH on Crystal Lane.
16903	12/02/14 1:00 P	12/02/14 3:20 P	0.00028 Million Gallons	Raw sewage	50 yards north of Schuster Avenue and Hatfield. (Sanitary MH). Land: Washout area, Waterbody: None entered	Dirt from previous construction caused a blockage in a downstream MH creating a back-up of sewage in the sanitary pipe.

Summary for Kalamazoo:**4 of 4 Events with a Reported Volume Total SSO Volume Reported: 0.004 Million Gallons****Outfall Corrective Actions:****Associated Outfall(s):** Spring Valley Park Manhole (Manhole at inlet to Spring Valley Lake)**Corrective Action(s) Complete:** Yes
(repairs/modifications complete)**Schedule of Compliance:** None entered**Schedule of Compliance Approved by MDEQ:** No**Actions by MDEQ:** None entered**Actions to Prevent Reoccurrence** Plugged sewer main was cleaned out.**Comments:** None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Kinross Township

County: Chippewa

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15730	02/12/14 12:00 A	02/12/14 7:00 A	0.00003 Million Gallons	Partially treated sewage	WWTP digestors. Land: areas around WWTP, drains back to headworks, Waterbody: None entered	Pressure relief valve failed due to condensate freezing the lead weights down which resulted in sludge being forced by pressure out of a 6" portion of the scum seal between the cover and the digerstor wall.

Summary for Kinross Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00003 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Kristana MHC

County: Clinton

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17028	09/08/14 1:30 P	09/09/14 11:30 A	0.00005 Million Gallons	Raw sewage	16900 blk US27, DeWitt Twp (broken sewer line). Land: area around break and US27 ROW, Waterbody: Looking Glass River	broken sewer line from park to connection with Lansing sewer.

Summary for Kristana MHC: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00005 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lake Charter Township

County: Berrien

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15692	02/28/14 10:30 P	03/01/14 12:30 A	0.005 Million Gallons	Raw sewage	Lift Station 43, Holden Rd 1/4 mile N. or Russell Rd. Land: Small area around lift station, Waterbody: None	Both pumps were plugged.
16014	06/24/14 1:00 P	06/24/14 1:15 P	0.001 Million Gallons	Raw sewage	LS #44. Land: Area around lift station, Waterbody: None	Power surge tripped pumps
16054	07/09/14 9:30 P	07/09/14 10:30 P	0.005 Million Gallons	Raw sewage	Warren Dunes State Park (North Bath House Sewer Line). Land: 100 ft of ditch along West side of Red Arrow Hwy., Waterbody: None	Sewer line broke by contractor installing utilities

Summary for Lake Charter Township: 3 of 3 Events with a Reported Volume Total SSO Volume Reported: 0.011 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Lakewood Wastewater Authority

County: Ionia

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15774	04/06/14 6:00 A	04/06/14 9:30 A	0.01 Million Gallons	Raw sewage	PS- #6 (1697 Jordan Lake Rd, Lake Odessa). Land: Soil around pump station, Waterbody: None entered	The discharge hose associated with the bypass pump in Lift Station #6 split, releasing sewage.
15902	05/15/14 9:00 P	05/15/14 11:00 P	0.035 Million Gallons	Raw sewage	PS - #4 (3 manholes on Pollard Dr). Land: None entered, Waterbody: Jordan Lake	Bypass pumping operations failed resulting in overflow from three manholes into Jordan Lake.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lakewood Wastewater Authority

County: Ionia

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16007	06/23/14 11:00 A	06/23/14 2:00 P	0.00075 Million Gallons	Partially treated sewage	WWTP-13751 Harwood Rd. Land: None entered, Waterbody: Little Thornapple River	When pumping sludge out of the scum tank of the secondary clarifier, the hatch on the vactor truck opened up spilling sludge onto the access road at the WWTP and ground.
16487	08/04/14 5:48 P	08/04/14 6:37 P	0.01 Million Gallons	Raw sewage	PS-#11 (5555 N Main St, Woodland) (Pump station PS-11). Land: Ground near lift station, Waterbody: Woodland Creek	Due to heavy rains and significant inflow and infiltration, the lift station was overwhelmed, resulting in an overflow into the adjacent creek.
16529	08/19/14 7:45 P	08/19/14 10:45 P	0.0031 Million Gallons	Raw sewage	7455 Woodland Rd, Woodland Twp. Land: Soils around the manhole, Waterbody: None entered	The air release valve on the forcemain failed resulting in an overflow of sewage to the ground.
16743	09/08/14 2:00 P	09/08/14 2:30 P	0.000003 Million Gallons	Partially treated sewage	WWTP-13751 Harwood Rd. Land: None entered, Waterbody: Little Thornapple River	Leaking valve in a manhole at the wastewater treatment plant resulting in an overflow of the manhole to the ground.

Summary for Lakewood Wastewater Authorit: 6 of 6 Events with a Reported Volume Total SSO Volume Reported: 0.059 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lakewood Wastewater Authority

County: Ionia

Outfall Corrective Actions:

Associated Outfall(s): WWTP-13751 Harwood Rd *** WWTP-13751 Harwood Rd *** PS-#11 (5555 Woodland Rd, Woodland) (Pump station PS-11)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: We are working with the Authority to work through the upgrade.

Actions to Prevent Reoccurrence The Authority is committed to a 10.2 million dollar upgrade to the collection system and wastewater treatment plant.

Comments: None entered

Associated Outfall(s): PS-#11 (5555 Woodland Rd, Woodland) (Pump station PS-11)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: An escalated enforcement action is underway

Actions to Prevent Reoccurrence This area is being repaired to eliminate or reduce the I&I, which contributes excessive flows during wet weather

Comments: None entered

Associated Outfall(s): PS - #4 (3 manholes on Pollard Dr)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lakewood Wastewater Authority

County: Ionia

Actions by MDEQ: Will send violation notice for sewage overflow.

Actions to Prevent Reoccurrence Programmed the SCADA to recognize "no run period".

Comments: None entered

Lansing

County: Ingham

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16033	07/02/14 11:00 A	07/02/14 12:00 P	0.0003 Million Gallons	Raw sewage	SW corner of Aurelius & Jolly Rds. (damage occurred due to excavation by contractors). Land: grassy area west of excavation, Waterbody: None entered	line at air relief station on forcemain was broken by contractors, check valve at air relief did not seat, resulting in discharge.

Summary for Lansing: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0003 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Lathrup Village

County: Oakland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16483	08/11/14 8:30 P	08/13/14 3:17 A	0.575 Million Gallons	Diluted raw sewage	Manhole #29-25 (manhole). Land: None entered, Waterbody: Rummel Drain	Unusually high rainfall in region

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lathrup Village

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
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Summary for Lathrup Village: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.575 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Manhole #29-25 (manhole)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: ACO with corrective action program and schedule under negotiation in 2004, entered in 2005. Entity is in process of certifying that corrective actions meet state requirements. **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: ACO issued

Actions to Prevent Reoccurrence ACO with corrective action program and schedule

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Leonard Gardens MHC

County: Kent

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16068	05/07/14 8:00 A	05/14/14 11:30 A	0.0025 Million Gallons	Raw sewage	4586 Garden Boulevard, Grand Rapids (location - city of Walker). Land: about 15 feet under and surrounding the home, Waterbody: None entered	Sewer pipe under the home broke, releasing sewage under and around the home.

Summary for Leonard Gardens MHC: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 4586 Garden Boulevard, Grand Rapids (location - city of Walker)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Sent Violation Notice

Actions to Prevent Reoccurrence Developed SOP for reporting of SSOs.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lexington

County: Sanilac

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16736			Unspecified		Land: None entered, Waterbody: None entered	
15757	03/21/14 10:00 A	03/21/14 2:30 P	0.025 Million Gallons	Raw sewage	main pumping station at Boyington and Washington (pump station). Land: None entered, Waterbody: Lake Huron	power outage to pump station

Summary for Lexington:

1 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.025 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Lincoln Park

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16524	08/12/14 12:30 A	08/12/14 1:00 P	1.89 Million Gallons	Diluted raw sewage	Lincoln Park Basin. Land: ecorse creek, Waterbody: None entered	Amount of rainfall exceeded design capacity of collection system

Summary for Lincoln Park:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 1.89 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lincoln Park

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): Lincoln Park Basin

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: Schedule of Compliance completed as required in a Federal Consent Judgment. Upon completion, Federal Consent Judgment was terminated. **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: This event is currently under review to determine if it meets the requirements of the Federal Consent Judgment and the State's SSO Policy.

Actions to Prevent Reoccurrence None entered

Comments: None entered

Livingston County Drain Commissioner

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15655	02/18/14 4:00 P	02/18/14 10:00 P	0.005 Million Gallons	Raw sewage	5700 blk of Bullard Rd, Hartland Twp, Fenton 48430 (check valve failure). Land: rear yard to lake, Waterbody: Tyrone Lake	failure of check valve at line to residence. stated- due to freeze thaw.
17025	04/20/14 10:50 A	04/20/14 11:30 A	0.0001 Million Gallons	Raw sewage	6000 blk Bullard, Tyrone Twp, Fenton 48430 (forcemain break). Land: area surrounding break, Waterbody: None entered	broken valve on forcemain

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Livingston County Drain Commissioner

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17037	04/23/14 11:10 A	04/23/14 12:15 P	0.0005 Million Gallons	Raw sewage	6100 blk Bullard, Tyrone Twp, Fenton 48430 (forcemain leak). Land: area at leak and from point of discharge to lake, Waterbody: Lake Tyrone	forcemain leak at air relief valve
17024	05/05/14 12:55 P	05/05/14 4:15 P	0.0001 Million Gallons	Raw sewage	10400 blk Hillcrest Dr, Tyrone Twp, Fenton 48430 (forcemain leak). Land: area surrounding leak, Waterbody: None entered	wastewater oozing from faulty forcemain coupling
17026	08/31/14 12:44 P	08/31/14 1:25 P	0.0004 Million Gallons	Raw sewage	6300 blk Chanwick, Tyrone Twp, Fenton 48430 (forcemain leak). Land: area surrounding FM leak, Waterbody: None entered	blockage in sewer line resulted in pipe separation and discharge of sewage to ground

Summary for Livingston County Drain Comm: 5 of 5 Events with a Reported Volume Total SSO Volume Reported: 0.006 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 5700 blk of Bullard Rd, Hartland Twp, Fenton 48430 (check valve failure)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence replaced faulty valve

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Livingston County Drain Commissioner

County: Livingston

Lyndon Township

County: Washtenaw

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15657	02/05/14 5:15 P	02/06/14 2:00 P	0.0071 Million Gallons	Raw sewage	18901 Waterloo Rd (Cassidy lift station). Land: Area surrounding the lift station, Waterbody: None entered	Blown control fuse disabled the alarm circuit. A sensor on the door shorted and shorted the control fuse causing the overflow.

Summary for Lyndon Township:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.007 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 18901 Waterloo Rd (Cassidy lift station)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Review response and talk with DPW supervisor

Actions to Prevent Reoccurrence Repair faulty comm system.

Comments: Comm system has been repaired.

Associated Outfall(s): 18901 Waterloo Rd (Cassidy lift station)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Lyndon Township*County: Washtenaw*

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Reviewed report and talked with Mr. Manke

Actions to Prevent Reoccurrence Need to have on keep fill status for fuel.

Comments: Once new procedures are in place, response will be adequate.

Manistee WWTP*County: Manistee****Reported Events:***

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15791	04/13/14 9:00 A	04/13/14 12:09 P	0.072 Million Gallons	Diluted raw sewage	Pine Street Dead-end Between 1st and 2nd Streets (Manhole). Land: Downhill from Pine Street Dead-end, Waterbody: Manistee River	Blockage in sewer main at dead-end of Pine Street. Excessive amt of additional flow due to I&I.

Summary for Manistee WWTP: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.072 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Manistique

County: Schoolcraft

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16835	06/17/14 2:15 A	06/17/14 2:30 P	0.00025 Million Gallons	Raw sewage	Manhole #92, 520 Main Street (Schoolcraft County Medical Care Facility). Land: Road surface, Waterbody: None entered	Facility at 520 Main Street dumping grease and large food chunks

Summary for Manistique:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00025 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Martin Retention Treatment Basin

County: Macomb

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15570	01/11/14 12:45 P	01/12/14 11:45 P	23 Million Gallons	Partially treated sewage	001 Martin Retention Treatment Basin. Land: None entered, Waterbody: Lake St. Clair	heavy rain, thaw
15917	05/15/14 11:20 A	05/16/14 1:00 A	34.2 Million Gallons	Partially treated sewage	001 Martin Retention Treatment Basin. Land: None entered, Waterbody: Lake St. Clair	RTB discharge
15944	05/27/14 8:17 P	05/29/14 5:20 A	74.7 Million Gallons	Partially treated sewage	001 Martin Retention Treatment Basin. Land: None entered, Waterbody: Lake St. Clair	retention basin overflow

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Martin Retention Treatment Basin

County: Macomb

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16120	07/27/14 7:35 P	07/28/14 3:30 A	19.1 Million Gallons	Partially treated sewage	001 Martin Retention Treatment Basin. Land: None entered, Waterbody: Lake St. Clair	Heavy rainfall
16522	08/11/14 7:00 P	08/13/14 1:45 A	121.4 Million Gallons	Partially treated sewage	001 Martin Retention Treatment Basin. Land: None entered, Waterbody: Lake St. Clair	excessive rainfall
16766	09/10/14 5:50 P	09/11/14 1:19 A	18.3 Million Gallons	Partially treated sewage	001 Martin Retention Treatment Basin. Land: None entered, Waterbody: Lake St. Clair	heavy rain

Summary for Martin Retention Treatment B: 6 of 6 Events with a Reported Volume Total SSO Volume Reported: 290.7 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Melvindale

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16527	08/11/14 9:30 P	08/12/14 7:00 A	2.35 Million Gallons	Diluted raw sewage	Melvindale PS (3390 Greenfield Road). Land: None entered, Waterbody: Rouge River	Heavy rain/flooding

Summary for Melvindale: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 2.35 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Melvindale

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): Melvindale PS (3390 Greenfield Road)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: The ACO requires a Project Performance Certification Report to be submitted by December 1, 2016 to determine if the system meets the State's SSO Policy. This event will be used for that analysis. **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: On June 16, 2004, MDEQ and the City signed an Administrative Consent Order (ACO) to prevent future SSO discharges.

Actions to Prevent Reoccurrence Construction of a 1 MG SSO storage tank and additional inline storage

Comments: None entered

Michigan Cogeneration Venture

County: Midland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15689	02/11/14 12:00 P	02/11/14 4:30 P	0.001 Million Gallons	Raw sewage	Bullock Creek Bridge (Forcemain). Land: none, Waterbody: Tittabawassee River	Fronxen Pipe. Pipe cracked

Summary for Michigan Cogeneration Ventur: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Monroe**County: Monroe****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16805	09/10/14 5:00 P	09/11/14 5:00 A	5.522 Million Gallons	Diluted raw sewage	Monroe St Riverwalk (manhole). Land: ground around manhole, Waterbody: River Raisin *** Outfall 001D. Land: None, Waterbody: Lake Erie *** 2205 E Front Street (grit vortex chamber). Land: ground around grit vortex chamber, Waterbody: River Raisin *** 915 E Front Street (flood pump bypass station). Land: none, Waterbody:	Heavy rain resulted in excess flows at the WWTP, exceeding plant capacity & surcharging the collection system. Partially treated sewage blended with fully treated wastewater & diluted raw sewage discharged to River Raisin.

Summary for Monroe:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 5.522 Million Gallons****Outfall Corrective Actions:****Associated Outfall(s):** 2205 E Front Street (grit vortex chamber)**Corrective Action(s) Complete:** Yes
(repairs/modifications complete)**Schedule of Compliance:** None entered**Schedule of Compliance Approved by MDEQ:** No**Actions by MDEQ:** Response evaluated; planned response adequate.**Actions to Prevent Reoccurrence** Will install a plate in influent chamber to equalize flow to grit vortex units #1 & #2**Comments:** None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Monroe*County: Monroe*

Associated Outfall(s):	2205 E. Front St (primary clarifier effluent well)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Response adequate.	
Actions to Prevent Reoccurrence	Reset electrical distribution panel; investigating source of electrical malfunction.	
Comments:	None entered	
Associated Outfall(s):	Monroe St Riverwalk (manhole)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Response evaluated; response adequate.	
Actions to Prevent Reoccurrence	Secured bolt down lid with additional bolts; inspected all lids to ensure they are secure.	
Comments:	None entered	
Associated Outfall(s):	2205 E Front Street (grit vortex chamber) *** Monroe St Riverwalk (manhole)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Response adequate.	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Monroe

County: Monroe

Actions to Prevent Reoccurrence Ongoing collection system rehabilitation throughout the City of Monroe to reduce I/I.

Comments: None entered

Associated Outfall(s): Outfall 001D

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Evaluated event; effluent parameters are in compliance with NPDES permit limitations for outfall 001D; ongoing activites are in compliance with flow study requirements.

Actions to Prevent Reoccurrence Flow meters installed in collection system to find problem areas.

Comments: This activity is in compliance with the Collection System and Treatment Facility Flow Study required in the NPDES permit.

Muskegon County

County: Muskegon

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>		<i>End Date/Time</i>		<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15804	04/14/14	12:00 A	04/14/14	8:30 A	0.025 Million Gallons	Raw sewage	Pump Station D. Land: NA, Waterbody: Ruddiman Creek (tributary to Muskegon Lake)	Malfunction of SCADA and computerized pump control at Pumping Station D during the storm
15841	04/23/14	10:30 A	04/23/14	11:45 A	0.0001 Million Gallons	Raw sewage	115 Lake Street. Land: Area around manhole, Waterbody: None entered	Malfunctioning air release valve. Debris is valve prevented it from sealing and closing properly.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Muskegon County

County: Muskegon

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
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Summary for Muskegon County: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.025 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Pump Station D

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Improve/install back-up control system for SCADA at pumping station

Comments: None entered

Associated Outfall(s): 115 Lake Street

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Repaired/replaced defective air release valve

Comments: None entered

Associated Outfall(s): Pump Station D

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Muskegon County

County: Muskegon

Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	MDEQ and county are in process of setting schedule for forcemain replacement	Schedule of Compliance Approved by MDEQ: Yes
Actions by MDEQ:	MDEQ has met with county and consultants regarding replacement/rerouting of forcemain	
Actions to Prevent Reoccurrence	Partial replacement of 66" forcemain	
Comments:	Forcemain replacement construction completed 12/2002. Comment only applies to April 2001 event.	
Associated Outfall(s):	Pump Station D	
Corrective Action(s) Complete: (repairs/modifications complete)	No	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	NL	
Actions to Prevent Reoccurrence	Notice Letter issued requiring corrective action plan	
Comments:	None entered	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Muskegon, City of

County: Muskegon

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15849	05/02/14 12:00 A	05/02/14 1:00 P	0.0005 Million Gallons	Raw sewage	Manhole behind 1388 Glen Avenue, Muskegon, Michigan. Land: Area around manhole, Waterbody: None entered	A sanitary sewer line was blocked by roots and sewage seeped from the manhole.

Summary for Muskegon, City of:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0005 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	Manhole behind 1388 Glen Avenue, Muskegon, Michigan	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	None entered	
Actions to Prevent Reoccurrence	Removed roots and debris plugging sewer	
Comments:	None entered	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

New Buffalo

County: Berrien

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16022	06/23/14 10:00 A	06/23/14 10:30 A	0.0001 Million Gallons	Raw sewage	1 North Whittaker St. (Cleanout for New Buffalo Pharmacy). Land: Parking lot, Waterbody: None	Plumber removed a clean out cover to open a drain.

Summary for New Buffalo:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Newaygo

County: Newaygo

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15802	04/13/14 12:45 A	04/13/14 1:30 A	0.0005 Million Gallons	Diluted raw sewage	219 Part Street Lift Station. Land: 100 square feet surrounding station, Waterbody: None entered	Basement sumps connected to sanitary sewer system temporarily overwhelmed the lift station at 219 Park Street.
15969	06/04/14 11:00 A	06/04/14 5:00 P	0.0001 Million Gallons	Raw sewage	8121 S. Mundy, Newaygo, MI. Land: 100 square foot area around pipe, Waterbody: None entered	Excavating crew inadvertently hit forcemain with equipment

Summary for Newaygo:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.0006 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Newaygo

County: Newaygo

Outfall Corrective Actions:

Associated Outfall(s): 8121 S. Mundy, Newaygo, MI

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Repaired broken pipe

Comments: None entered

Associated Outfall(s): 219 Part Street Lift Station

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Letter to homeowners directing disconnection of sump pumps from sanitary sewer line

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Northfield Township

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17016	05/12/14 9:00 A	05/19/14 6:00 A	3.177 Million Gallons	Diluted raw sewage	11500 Lemon Rd. Land: None entered, Waterbody: Horseshoe Lake Drain	flow exceeded plant capacity due to heavy rainfall and I/I.
16927	06/04/14 3:30 P	06/05/14 8:00 A	0.015 Million Gallons	Raw sewage	11500 Lemon Rd. Land: None entered, Waterbody: Horseshoe Lake Drain	discharge due to forcemain break

Summary for Northfield Township: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 3.192 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Norton Shores

County: Muskegon

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16067	07/11/14 10:00 A	07/11/14 10:01 A	0.00001 Million Gallons	Raw sewage	2195 Reneer Avenue (Lift Station Overflow). Land: None entered, Waterbody: ground	Blockage in force main caused wet well to overflow.

Summary for Norton Shores: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Novi

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15900	05/17/14 10:45 A	05/17/14 6:00 P	0.0008 Million Gallons	Raw sewage	Ella Mae Power Park (45175 W. Ten Mile Road). Land: Ditch next to cleanout, Waterbody: On-site detention pond	Duplex grinder pump failed for a bathroom facility at power park.

Summary for Novi:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0008 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Oakland County Drain Commissioner

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15965	06/06/14 11:35 A	06/06/14 1:00 P	0.0051 Million Gallons	Raw sewage	S of 14 Mile Rd, East of Halsted, MH 009, Farmington Hills (manhole). Land: area surrounding manhole to drain, Waterbody: Minnow Pond Drain	Plug in sewer
16482	08/11/14 7:30 P	08/11/14 10:15 P	0.472 Million Gallons	Diluted raw sewage	Walnut Station #1 - 14 Mile Road & Inkster Road (pump station). Land: None, Waterbody: Rouge River	Heavy rains
16480	08/11/14 7:45 P	08/11/14 9:00 P	2.4 Million Gallons	Diluted raw sewage	Eight Mile Road Pump Station Overflow Chamber, West Of Evergreen in Southfield (pump station). Land: None, Waterbody: Rouge River	Heavy rains caused a discharge at the Eight Mile Road Pump Station Overflow Chamber

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Oakland County Drain Commissioner

County: Oakland

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16488	08/12/14 1:30 A	08/12/14 5:30 A	0.48 Million Gallons	Diluted raw sewage	Manhole SOT 128015, west of Telegraph north of 8 Mile (manhole). Land: None, Waterbody: Rouge River	Heavy rains caused the safe wet well level at the Eight Mile Road-Muirwood 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 to the Rouge River.
16491	08/12/14 3:30 A	08/12/14 5:30 A	0.03 Million Gallons	Diluted raw sewage	Manhole SOT131001, Berg and Eight Mile intersection (manhole). Land: None, Waterbody: Rouge River	Heavy rains caused the safe wet well level at the Eight Mile Road-Muirwood Pump Station to be exceeded. In order to prevent upstream basement flooding, WRC staff pumped flow from 3 manholes located upstream of the pump station to the Rouge River.
16490	08/12/14 3:30 A	08/12/14 5:30 A	0.12 Million Gallons	Diluted raw sewage	Manhole SOT128018, west of Telegraph, north of 8 Mile (manhole). Land: None, Waterbody: Rouge River	Heavy rains caused the safe wet well level at the Eight Mile Road-Muirwood Pump Station to be exceeded. In order to prevent upstream basement flooding, WRC staff pumped flow from 3 manholes located upstream of the pump station to the Rouge River.

Summary for Oakland County Drain Commiss: 6 of 6 Events with a Reported Volume Total SSO Volume Reported: 3.507 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Oakland County Drain Commissioner

County: Oakland

Outfall Corrective Actions:

Associated Outfall(s): Manhole SOT131001, Berg and Eight Mile intersection (manhole) *** Manhole SOT 128015, west of Telegraph north of 8 Mile (manhole) *** Eight Mile Road Pump Station Overflow Chamber, West Of Evergreen in Southfield (pump station) *** Manhole SOT128018, west of Telegraph, north of 8 Mile (manhole)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: LTCAP approved November 2014 **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: Revision to 3rd Amended AFO-SW08-006 issued 4/26/2011

Actions to Prevent Reoccurrence AFO-SW08-006

Comments: None entered

Associated Outfall(s): Walnut Station #1 - 14 Mile Road & Inkster Road (pump station)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: Long-term CAP will ensure adequate capacity in Farmington interceptor and Walnut #1 PS to accommodate flows either by excess wet weather flow removal, infrastructure improvements or both. **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: ACO SW-05-001 issued on 12/08/2004.

Actions to Prevent Reoccurrence ACO SW-05-001

Comments: None entered

Associated Outfall(s): S of 14 Mile Rd, East of Halsted, MH 009, Farmington Hills (manhole)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Oakland County Drain Commissioner

County: Oakland

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Evaluation of SSO event determined that no further action is needed at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of sewer system to prevent reoccurrence.

Comments: None entered

Ontwa Township

County: Cass

Reported Events:

Event ID	Start Date/Time		End Date/Time		Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15564	01/13/14	9:15 A	01/13/14	1:15 P	0.0005 Million Gallons	Raw sewage	69700 M-62, 100 yards North between railroad tracks and M62. Land: Area between Railroad Tracks and M-62, Waterbody: None	Air Release Valve broke off of force main.
16666	08/25/14	5:15 P	08/25/14	6:15 P	0.008 Million Gallons	Raw sewage	Sandy Beach Dr. Beach Drive and Raymond Ave. Land: unknown, Waterbody: None entered	The pumps kicked out and the operator did not receive the pump fail alarm.
16715	08/31/14	8:00 P	08/31/14	9:30 P	0.015 Million Gallons	Raw sewage	Sandy Beach Dr. Beach Drive and Raymond Ave. Land: unknown, Waterbody: None entered	Pump kicked out and the operator did not receive call for High Level condition.

Summary for Ontwa Township:

3 of 3 Events with a Reported Volume Total SSO Volume Reported: 0.024 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Ontwa Township

County: Cass

Outfall Corrective Actions: (No corrective actions entered)

Orleans Township

County: Ionia

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15662	02/24/14 5:00 P	02/25/14 12:30 A	0.0001 Million Gallons	Raw sewage	Lift Station # 7 (Hidden Trail Drive) (Manhole/Clean-out upstream of Lift Station # 7). Land: 10 ft by 10 ft area, Waterbody: Woodard Creek	Clean-out piping busted off.

Summary for Orleans Township:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0001 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Lift Station # 7 (Hidden Trail Drive) (Manhole/Clean-out upstream of Lift Station # 7)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Repaired broken Manhole / Clean-out covers

Comments: Operator also shut off the lift station pumps so no more raw sewage would be pumped through this manhole / clean-out until the repairs were complete.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Otsego Paper Inc

County: Allegan

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15755	03/20/14 12:00 P	03/20/14 3:15 P	0.0035 Million Gallons	Raw sewage	Sanitary Sewer Line (Sewer line with storm water inflow.). Land: None entered, Waterbody: Kalamazoo River	Plugged Sanitary Line to the city's main sewer line

Summary for Otsego Paper Inc:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.004 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Sanitary Sewer Line (Sewer line with storm water inflow.)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Actions to Prevent Reoccurrence Valkve will be left closed. Water will be pumped to the mill's wastewater treatment system. Sanitary sewer will be cleaned out.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Owosso*County: Shiawassee***Reported Events:**

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
17038	05/15/14 8:00 A	05/15/14 4:00 P	1.5 Million Gallons	Diluted raw sewage	100ft E of Union St, S bank of river (overflow due to heavy rainfall & I/I). Land: None entered, Waterbody: Shiawassee River *** N bank Shiawassee River W of M52 bridge (overflow from MH). Land: None entered, Waterbody: Shiawassee River *** MH at WWTP on Chippewa Trail. Land: area around manhole, Waterbody: Shiawassee River	discharges due to extended heavy rainfall and I/I causing capacity of sewer system to be exceeded.

Summary for Owosso:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 1.5 Million Gallons***Outfall Corrective Actions: (No corrective actions entered)***Parma***County: Jackson***Reported Events:**

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16883	11/21/14 8:00 A	11/22/14 4:00 P	0.0003 Million Gallons	Raw sewage	North Union St north of Michigan Ave (6 inch force main sanitary sewer at North Union St, north of Michigan Ave). Land: Public roadway, Waterbody: None entered	Break in force main

Summary for Parma:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0003 Million Gallons**

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Parma**County: Jackson****Outfall Corrective Actions:**

Associated Outfall(s): North Union St north of Michigan Ave (6 inch force main sanitary sewer at North Union St, north of Michigan Ave)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Reviewed response and it was determined to be adequate.

Actions to Prevent Reoccurrence Damaged force main was repaired.

Comments: None entered

Plymouth Twp.**County: Wayne****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16804	09/30/14 9:00 A	09/30/14 10:00 A	0.003 Million Gallons	Raw sewage	Ann Arbor Rd. W of Joy Rd. (Pump Station). Land: Area around station, Waterbody: Fellows Creek Drain	Failure of a pump station control panel.

Summary for Plymouth Twp.:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons**

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Plymouth Twp.

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): Ann Arbor Rd. W of Joy Rd. (Pump Station)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Closed

Actions to Prevent Reoccurrence: Closed

Comments: None entered

Pontiac

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15901	05/14/14 7:30 A	05/14/14 10:37 A	0.0072 Million Gallons	Raw sewage	274 E. Martin Luther King Blvd (sewer). Land: area from manhole to storm drain, Waterbody: Clinton River	Partially blocked 12" sewer line.
16041	07/03/14 2:00 P	07/03/14 3:00 P	0.00015 Million Gallons	Raw sewage	1415 N Perry St (Perry Place Apartments Pump Station) (manhole adjacent to pump station). Land: Area surrounding manhole adjacent to pump station, Waterbody: None entered	Sanitary pump station failure due to a failure in the plc

Summary for Pontiac:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.007 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Pontiac

County: Oakland

Outfall Corrective Actions:

Associated Outfall(s):	1415 N Perry St (Perry Place Apartments Pump Station) (manhole adjacent to pump station)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluation of event has determined that no further action is necessary at this time.	
Actions to Prevent Reoccurrence	Necessary repairs completed.	
Comments:	None entered	
<hr/>		
Associated Outfall(s):	274 E. Martin Luther King Blvd (sewer)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	NA	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Review of SSO event information determined that no further action is necessary at this time.	
Actions to Prevent Reoccurrence	Entity performs routine inspection and preventative maintenance of sewer system to prevent reoccurrence.	
Comments:	None entered	
<hr/>		

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Port Sanilac

County: Sanilac

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16892			Unspecified		Land: None entered, Waterbody: None entered	
16893	11/02/14 3:30 P	11/02/14 5:15 P	0.1 Million Gallons	Raw sewage	South Lift Station at Goldman and South Lake Street, Port Sanilac. Land: yes, adjacent to lift station, Waterbody: None entered	Pump Station equipment failure.

Summary for Port Sanilac: 1 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.1 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Portage-Base Lakes Sewage Authority

County: Washtenaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15803	04/15/14 2:00 P	04/15/14 2:01 P	Unspecified	Raw sewage	11589 Pleasant View or Pump Station 36 (Pump Station 36). Land: Surrounding 200 square ft of the pump station, Waterbody: None entered	Broken pipe below grade

Summary for Portage-Base Lakes Sewage Au: 0 of 1 Events with a Reported Volume Total SSO Volume Reported: Unspecified

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Portage-Base Lakes Sewage Authority

County: Washtenaw

Outfall Corrective Actions:

Associated Outfall(s): 11589 Pleasant View or Pump Station 36 (Pump Station 36)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: Yes

Actions by MDEQ: Corrective action acceptable to DEQ.

Actions to Prevent Reoccurrence Spill cleaned up by crew. Permanent repairs made to sewer line made 6/21/06.

Comments: None entered

Powers Spalding

County: Menominee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16791	08/26/14 11:45 A	08/26/14 12:00 P	0.0001 Million Gallons	Raw sewage	Lift Station #1 (CR 566). Land: Ground near Lift Station, Waterbody: None entered	Malfunctioning motor drive in lift station

Summary for Powers Spalding: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Quincy

County: Branch

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16896	11/26/14 9:30 A	11/26/14 3:00 P	0.01 Million Gallons	Raw sewage	Lake Boulevard at Branch County Park (Pump Station). Land: area between pump station & lake, Waterbody: First Lake	Force main break

Summary for Quincy: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.01 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Reed City

County: Osceola

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15745	03/18/14 10:15 A	03/18/14 10:30 A	0.000001 Million Gallons	Raw sewage	Crossroads Apts - 848 S. Chestnut (Privately Owned Pump Station). Land: Ground around Pump Station Access Point, Waterbody: None entered	Pump failure at privately-owned [dual] pump station.

Summary for Reed City: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.000001 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Reese**County: Tuscola****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15821	04/24/14 2:00 P	04/25/14 10:00 A	0.7 Million Gallons	Raw sewage	WWSL on Dixon Rd. (Stabliztion Lagoon). Land: None, Waterbody: Ryan drain	Valve failure on discharge structure

Summary for Reese:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.7 Million Gallons****Outfall Corrective Actions: (No corrective actions entered)****Rochester****County: Oakland****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16744	09/01/14 3:51 P	09/02/14 9:00 A	0.02264 Million Gallons	Raw sewage	Syphon under Clinton River. Land: banks of River, Waterbody: None entered	syphon under Clinton River plugged, upstream manhole overflowed

Summary for Rochester:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.023 Million Gallons**

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Rochester

County: Oakland

Outfall Corrective Actions:

Associated Outfall(s): Syphon under Clinton River

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Review of SSO event determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence

Comments: None entered

Rockwood

County: Wayne

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16748	09/10/14 8:30 P	09/11/14 1:30 A	0.5376 Million Gallons	Diluted raw sewage	Equalization Basin at WWTP (18-inch D.I. SSO gravity pipe). Land: None entered, Waterbody: Huron River	Heavy rain. Equalization Basin (EB) overflow.

Summary for Rockwood: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.538 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Rockwood**County: Wayne****Outfall Corrective Actions:****Associated Outfall(s):** Equalization Basin at WWTP (18-inch D.I. SSO gravity pipe)**Corrective Action(s) Complete:** No
(repairs/modifications complete)**Schedule of Compliance:** None entered**Schedule of Compliance Approved by MDEQ:** No**Actions by MDEQ:** SSO is currently under investigation to determine if enforcement is necessary**Actions to Prevent Reoccurrence** SSO is currently under investigation to determine if enforcement is necessary**Comments:** None entered**Roscommon****County: Roscommon****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16676	08/14/14 3:15 P	08/14/14 4:15 P	0.0225 Million Gallons	Diluted raw sewage	Shelly Street, Between 3rd & 4th (Manhole). Land: Vicinity of Manhole, Waterbody: None entered	Water main break flooded into an adjacent sewer manhole basin overwhelming the system and raising manhole lid and overflowing onto ground and grass area. Sanitary sewage overflow mixed and significantly diluted by potable water from watermain break

Summary for Roscommon: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.023 Million Gallons**Outfall Corrective Actions: (No corrective actions entered)**

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Salem Twp

County: Washtenaw

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15951	05/12/14 6:30 P	05/12/14 9:00 P	0.005 Million Gallons	Diluted raw sewage	Salem Rd Pump Station (Collection manhole just north of pump station). Land: Side of Salem Rd ditch line, Waterbody: Johnson Drain	2+ inches of rain in less than 2 hours caused the Salem Road Pump Station to overflow.

Summary for Salem Twp:**1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.005 Million Gallons****Outfall Corrective Actions:****Associated Outfall(s):** Salem Rd Pump Station (Collection manhole just north of pump station)**Corrective Action(s) Complete:** No
(repairs/modifications complete)**Schedule of Compliance:** None entered**Schedule of Compliance Approved by MDEQ:** No**Actions by MDEQ:** Reviewed. Ongoing.**Actions to Prevent Reoccurrence** Investigate collection system to find sources of infiltration**Comments:** None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Saline

County: Washtenaw

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15880	05/13/14 12:00 P	05/13/14 1:00 P	0.146 Million Gallons	Raw sewage	WWTP (spill to ground). Land: Ground surrounding sludge digester, Waterbody: None	Partially digested activated sludge released from the tank to the ground and onsite storm drains. Sludge discharging through storm drains mixed with final effluent and discharged to the Saline

Summary for Saline:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.146 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	WWTP (spill to ground)		
Corrective Action(s) Complete: (repairs/modifications complete)	Yes		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ:	No
Actions by MDEQ:	Staff reviewed response actions and determined they were adequate.		
Actions to Prevent Reoccurrence	grey water mixed with storm water pumped to sanitary sewer		
Comments:	None entered		
Associated Outfall(s):	WWTP (spill to ground)		
Corrective Action(s) Complete: (repairs/modifications complete)	Yes		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ:	No

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Saline*County: Washtenaw*

Actions by MDEQ:	Reviewed entity response actions and determined they were adequate.	
Actions to Prevent Reoccurrence	Sludge to ground was cleaned up	
Comments:	None entered	
Associated Outfall(s):	WWTP (spill to ground)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluated Saline`s response and deemed adequate.	
Actions to Prevent Reoccurrence	Blockage cleared. Digester cleaned to remove any sand or grit	
Comments:	None entered	

Selfridge Air National Guard Base*County: Macomb***Reported Events:**

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15963	05/30/14 12:00 P	05/30/14 12:00 P	0.005538 Million Gallons	Diluted raw sewage	Wi bur Wright Blvd. and George Ave. Land: 1/4 acre grassy area, Waterbody: Lake St Clair	broken sanitary line. Estimated 537.5 gallons of sewage and 5000 gallons of process water from reverse osmosis.

Summary for Selfridge Air National Guard: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.006 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Selfridge Air National Guard Base

County: Macomb

Outfall Corrective Actions:

Associated Outfall(s): Wilbur Wright Blvd. and George Ave

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: No further action at this time

Actions to Prevent Reoccurrence Permittee performs routine O&M of the system

Comments: None entered

Silvershores MHC

County: Grand Traverse

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15584	01/16/14 11:30 A	01/16/14 12:45 P	0.0004 Million Gallons	Diluted raw sewage	Septic Tanks on Plant Grounds (Septic Tank Lids). Land: Ground surrounding Septic Tank Lids, Waterbody: None entered	A pump had an eletrical failure, which tripped the breaker for whole pump station.

Summary for Silvershores MHC: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0004 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

South Haven

County: Van Buren

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15864	05/03/14 3:30 P	05/05/14 10:30 A	0.002 Million Gallons	Raw sewage	Monroe Blvd and Lovejoy St. Land: Yes - See report, Waterbody: None entered	Cracked sewer pipe.

Summary for South Haven: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Southern Clinton County

County: Clinton

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15727	03/10/14 1:00 P	03/10/14 1:30 P	0.00001 Million Gallons	Raw sewage	MH# 33080033, 900 blk of Pine St, DeWitt (sewer blockage). Land: area around MH, Waterbody: None entered	overflow from MH due to blockage in sewer
16977	11/12/14 4:00 P	11/19/14 12:00 P	0.00003 Million Gallons	Raw sewage	near 6500 b k of Park Lk Rd, Bath Twp (forcemain leak). Land: area around leakage, disinfected with lime, Waterbody: None entered	wastewater on ground surface from leaking/broken forcemain

Summary for Southern Clinton County: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.00004 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Spring Hill Camp

County: Osceola

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16166	08/05/14 10:00 A	08/05/14 11:30 A	0.004 Million Gallons	Raw sewage	7717 95th Avenue (Lift Station). Land Surrounding Lift Station Access, Waterbody: None entered	Power failure at Lift Station

Summary for Spring Hill Camp: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.004 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

St. Johns

County: Clinton

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16995	05/15/14 9:18 A	05/15/14 11:08 A	0.11 Million Gallons	Diluted raw sewage	907 E Townsend Rd, Lift Station (Heavy rainfall and I/I exceeded capacity). Land: on-site detention basin, Waterbody: Steel and Walbridge Drain	discharge due to bypassing lift station flow during period when heavy rainfall and I/I exceeded the system's capacity.

Summary for St. Johns: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.11 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

St. Johns**County: Clinton****Outfall Corrective Actions:****Associated Outfall(s):** 907 E Townsend Rd, Lift Station (Heavy rainfall and I/I exceeded capacity)**Corrective Action(s) Complete:** Yes
(repairs/modifications complete)**Schedule of Compliance:** None entered**Schedule of Compliance Approved by MDEQ:** No**Actions by MDEQ:** Negotiating settlement.**Actions to Prevent Reoccurrence** City will continue to investigate inflow/infiltration problems in areas that are serviced by this lift station**Comments:** None entered**St. Joseph****County: Berrien****Reported Events:**

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15611	01/29/14 12:41 P	02/06/14 7:58 P	2.75 Million Gallons	Raw sewage	CSO outfall #003. Land: None, Waterbody: St. Joseph River	Water main break washed sand into combined sewer that plugged sewer at CSO #003 overflow.
16039	06/27/14 2:00 P	06/28/14 9:15 A	0.0005 Million Gallons	Raw sewage	Kiwanis Park (Kiwanis Park hillside and asphalt road surface). Land: Park hillside and asphalt of Harrison st., Waterbody: None	Blockage in sanitary sewer line caused sewer to leak out of pipe joints.

Summary for St. Joseph: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 2.751 Million Gallons**Outfall Corrective Actions: (No corrective actions entered)**

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

St. Louis

County: Gratiot

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16992	04/14/14 2:00 A	04/14/14 10:00 A	0.01 Million Gallons	Diluted raw sewage	300 block of Main st @ Union St pump station (flow exceeded PS capacity). Land: ground surrounding pump station, Waterbody: Pine River	overflow due to heavy rainfall and I/I causing capacity of sewer system to be exceeded

Summary for St. Louis:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.01 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sterling Heights

County: Macomb

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16497	08/12/14 3:30 P	08/14/14 12:00 P	2.7 Million Gallons	Raw sewage	Northeast corner 15 mile and cathedral. Land: None entered, Waterbody: red run	Sanitary main break was impeding the flow of swage. The discharge was to prevent any homes from backing up

Summary for Sterling Heights:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 2.7 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Sterling Heights

County: Macomb

Outfall Corrective Actions:

Associated Outfall(s): Northeast corner 15 mile and cathedral

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: Yes

Actions by MDEQ: No further action is necessary at this time

Actions to Prevent Reoccurrence Entity perform routine inspection and maintenance

Comments: None entered

Sylvan Township

County: Washtenaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15771	04/01/14 4:00 P	04/01/14 5:00 P	0.001 Million Gallons	Raw sewage	18027 Old US-12, Chelsea Michigan (Lift station at Sylvan Twp Hall). Land: land area around LS leading to creek, Waterbody: Letts Creek upper tributary	Electrical control failure caused release of sewage to the ground around the lift station.
16474	07/27/14 5:58 P	07/27/14 6:30 P	0.0005 Million Gallons	Raw sewage	Cavanaugh Lake Road lift station. Land: Area around lift station., Waterbody: None entered	Failure of a control fuse in the pump station electrical panel. Failed during severe weather. SSO was contained within the parking area of the pump station.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Sylvan Township

County: Washtenaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16814	10/03/14 11:50 A	10/03/14 12:40 P	0.001 Million Gallons	Raw sewage	10950 Knight Rd., Grass Lake (Mt. Hope Rd Lift Station). Land: land area around lift station, Waterbody: None entered	Electrical control failure-short in door switch-caused release of wastewater to the ground around the lift station.
16869	10/29/14 11:55 A	10/29/14 3:45 P	0.007 Million Gallons	Raw sewage	ARV structure at 11061-11099 Knight Rd, Grass Lake (north side of road just east of Tim`s Lake Rd). Land: 300 ft long by 10 ft wide section on the shoulder, Waterbody: None entered	Failing air release valve (ARV) caused discharge to ground rom ARV structure.

Summary for Sylvan Township:

4 of 4 Events with a Reported Volume Total SSO Volume Reported: 0.01 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): 18027 Old US-12, Chelsea Michigan (Lift station at Sylvan Twp Hall)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Reviewed response actions and determined they were adequate

Actions to Prevent Reoccurrence Repaired pump station wiring and SCADA

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Sylvan Township

County: Washtenaw

Associated Outfall(s):	18027 Old US-12, Chelsea Michigan (Lift station at Sylvan Twp Hall)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Violation Notice for maintenance at this lift station.	
Actions to Prevent Reoccurrence	Replaced broken float bracket and replaced all other float brackets.	
Comments:	None entered	
Associated Outfall(s):	Cavanaugh Lake Road lift station (Cavanaugh Lake Road Lift Station) *** 18027 Old US-12, Chelsea Michigan (Lift station at Sylvan Twp Hall)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Review actions.	
Actions to Prevent Reoccurrence	Replace defective part. Repair SCADA.	
Comments:	None entered	
Associated Outfall(s):	Cavanaugh Lake Road lift station (Cavanaugh Lake Road Lift Station)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Reviewed report of actions. Determined that response was appropriate.	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Sylvan Township

County: Washtenaw

Actions to Prevent Reoccurrence Repaired off float.

Comments: None entered

Associated Outfall(s): Cavanaugh Lake Road lift station (Cavanaugh Lake Road Lift Station)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Reviewed actions determined acceptable.

Actions to Prevent Reoccurrence Make repairs to failed equipment.

Comments: None entered

Associated Outfall(s): ARV structure at 11061-11099 Knight Rd, Grass Lake (north side of road just east of Tim`s Lake Rd)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: Reviewed actions

Actions to Prevent Reoccurrence Replaced ARV valve

Comments: None entered

Associated Outfall(s): Cavanaugh Lake Road lift station (Cavanaugh Lake Road Lift Station) *** 10950 Knight Rd., Grass Lake (Mt. Hope Rd Lift Station)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Sylvan Township

County: Washtenaw

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: None

Actions to Prevent Reoccurrence Repaired pump station electrical panel.

Comments: None entered

Three Rivers

County: St Joseph

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15896	05/15/14 11:00 P	05/16/14 1:00 A	0.012 Million Gallons	Partially treated sewage	ATAD, located on WWTP property (Autothermal Thermophilic Aerobic Digester). Land: Area around ATAD and adjoining street, Waterbody: St. Joseph River	Operator Error - Operator left Jet Motive Pump in hand position. The SCADA system was not able to turn off the pump when the system went into alarm.
16906	12/03/14 2:10 P	12/03/14 2:30 P	0.0006 Million Gallons	Partially treated sewage	ATAD, located on WWTP property (Autothermal Thermophilic Aerobic Digester). Land: Area around ATAD and adjoining street, Waterbody: St. Joseph River	Industrial Computer Modules failed preventing the PLC from shutting the ATAD down when the foam levels became to high.

Summary for Three Rivers: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.013 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Tittabawassee Township

County: Saginaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17032	06/23/14 11:00 A	06/23/14 1:35 P	0.003225 Million Gallons	Raw sewage	10185 Pierce Rd, Freeland MI (Pump Failure). Land: Yes, Waterbody: Tittabawassee River	Pump Station Pump Failure

Summary for Tittabawassee Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.003 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Traverse City

County: Grand Traverse

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15763	03/23/14 2:00 P	03/24/14 11:00 A	0.0002 Million Gallons	Raw sewage	631 Woodmere (Force Main). Land: 200 ft of curb & gutter, Waterbody: Boardman Lake	Shear break on 10" cast iron Force Main
16167	08/05/14 8:00 A	08/05/14 4:00 P	0.001 Million Gallons	Raw sewage	6895 Franklin Woods Court (Manhole). Land: Vicinity of Manhole, Waterbody: None entered	Blockage in sewer main - tree roots.
16675	08/20/14 4:40 P	08/20/14 5:50 P	0.00452 Million Gallons	Raw sewage	WWTP, 606 Hannah Avenue (treatment plant). Land: area around anaerobic digester, Waterbody: Boardman River	Pump failure in the basement of biosolids storage tank.
16710	08/25/14 2:30 P	08/25/14 2:35 P	0.0015 Million Gallons	Partially treated sewage	1717 Ahlberg Road (Septage Receiving Facility). Land: Lawn surrounding lift station, Waterbody: None entered	Float Relay failed, preventing lift station pumps from operating.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Traverse City

County: Grand Traverse

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16861	10/24/14 2:00 P	10/24/14 4:00 P	0.0002 Million Gallons	Raw sewage	Manhole 4A in Front of Sam`s Club, between Sams Club and Cracker Barrel. Land: wetland/Miller Creek, Waterbody: wetland/Miller Creek	Grease Blockage . DPW discovered overflow from manhole 4A at 2 PM.Estimates 50 to 200 gallons ran downhill to S/E to a wetland tributary to Miller Creek. Location is in Garfield Township
16879	11/20/14 12:01 A	11/20/14 7:47 A	0.0075 Million Gallons	Partially treated sewage	1717 Ahlberg Road (Septage Receiving Facility). Land: Lawn surrounding lift station, Waterbody: None entered	The transducer on the MBR tank malfunction and showed the tank had 1 foot of room in the tank when actually it was full. The high level float tripped and allowed the partially treated wastewater to overflow the tank and discharge onto the the ground

Summary for Traverse City:

6 of 6 Events with a Reported Volume Total SSO Volume Reported: 0.015 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Troy

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16472	08/11/14 8:30 P	08/12/14 12:30 A	0.2376 Million Gallons	Diluted raw sewage	Adams & Wattles. Land: None entered, Waterbody: Rouge River *** Kent/Binbrook. Land: None entered, Waterbody: Rouge River	To prevent basement flooding, manually pumped from the sanitary sewer to the Rouge River

Summary for Troy:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.238 Million Gallons

Outfall Corrective Actions:**Associated Outfall(s):** Kent/Binbrook *** Adams & Wattles**Corrective Action(s) Complete:** No
(repairs/modifications complete)**Schedule of Compliance:** Long-term corrective action plan approved
November 2014**Schedule of Compliance Approved by MDEQ:** Yes**Actions by MDEQ:** Revision to 3rd Amended AFO-SW09-006 issued October 2011**Actions to Prevent Reoccurrence** Revision to AFO-SW09-006**Comments:** None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Tudor Estates LLC

County: Genesee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17035	05/31/14 5:00 P	05/31/14 8:30 P	0.000025 Million Gallons	Raw sewage	240 blk N Suffolk Ct (connection for one home to the Grand Blanc Twp collection system) (blocked lateral). Land: area surrounding cleanout, Waterbody: None entered	overflow due to blocked sewer lateral

Summary for Tudor Estates LLC: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.000025 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Tyrone Twp

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15668	01/15/14 11:00 A	01/15/14 11:45 A	0.0005 Million Gallons	Raw sewage	10100 blk of Carmer Rd, Tyrone Twp, Fenton 48430 (failed valve at residence or broken line). Land: path from leak toward lake, Waterbody: Runyan Lake	discharge caused by a joint failure of the forcemain, the failure was due to the poor construction methods used by homeowner in moving driveway.
15672	01/24/14 7:10 A	01/24/14 9:00 A	0.0005 Million Gallons	Raw sewage	10400 blk of Lakeshore Dr, Tyrone Twp, Fenton 48430 (forcemain break). Land: area surrounding damaged line, Waterbody: None entered	forcemain leak due to frozen ground

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Tyrone Twp

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15728	02/28/14 2:30 P	02/28/14 4:15 P	0.015 Million Gallons	Raw sewage	6100 blk of Bullard, Tyrone Twp, Fenton 48430. Land: area around break and path to lake, Waterbody: Tyrone Lake	leakage from forcemain, failure of check valve on lateral due to freeze/thaw effects

Summary for Tyrone Twp:**3 of 3 Events with a Reported Volume Total SSO Volume Reported: 0.016 Million Gallons****Outfall Corrective Actions:****Associated Outfall(s):** 10100 blk of Carmer Rd, Tyrone Twp, Fenton 48430 (failed valve at residence or broken line)**Corrective Action(s) Complete:** Yes
(repairs/modifications complete)**Schedule of Compliance:** None entered**Schedule of Compliance Approved by MDEQ:** No**Actions by MDEQ:** None entered**Actions to Prevent Reoccurrence** replaced check valve**Comments:** None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Tyrone Wood

County: Livingston

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15693	02/28/14 12:03 P	02/28/14 3:30 P	0.002 Million Gallons	Raw sewage	MH in 8200 b k Hidden Hollow, Tyrone Twp, Fenton 48430 (plugged sewer overflowed at manhole). Land: area surrounding manhole, Waterbody: None entered	discharge due to plugged sewer line
17034	06/25/14 1:30 P	06/25/14 2:30 P	0.00025 Million Gallons	Raw sewage	MH in 8100 b k Hidden Hollow, Tyrone Twp, Fenton 48430 (plugged sewer). Land: area surrounding manhole, Waterbody: None entered	discharge due to clogged sewer line

Summary for Tyrone Wood:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	MH in 8200 blk Hidden Hollow, Tyrone Twp, Fenton 48430 (plugged sewer overflowed at manhole)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	None entered	
Actions to Prevent Reoccurrence	cleared blockage	
Comments:	None entered	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Union City County: **Branch**

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16050	07/08/14 12:00 P	07/09/14 12:00 P	0.05 Million Gallons	Partially treated sewage	Union City WWTP. Land: None, Waterbody: St. Joseph River	Holding pond overflowed

Summary for Union City: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.05 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Vermontville County: **Eaton**

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17010	04/29/14 3:30 P	04/29/14 6:00 P	0.002 Million Gallons	Raw sewage	WWTP final LS on Nut St, Vermontville (pump failure). Land: area surrounding LS, Waterbody: None entered	failure of the final lift station to the wastewater lagoons resulting in discharge to the ground

Summary for Vermontville: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Wamplers Lake

County: Lenawee

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
17015	08/20/14 8:50 A	08/20/14 9:45 A	0.0005 Million Gallons	Raw sewage	414 Canal Street (clean out structure). Land: shoulder of road, Waterbody: None entered	The fitting in a clean out structure fractured. Raw sewage dischargedf from the structure onto the shoulder of the road along Canal Street.

Summary for Wamplers Lake:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0005 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	414 Canal Street (clean out structure)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluated response; response adequate.	
Actions to Prevent Reoccurrence	Replaced galvanized fittings with PVC	
Comments:	None entered	
Associated Outfall(s):	414 Canal Street (clean out structure)	
Corrective Action(s) Complete: (repairs/modifications complete)	Yes	
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ: No
Actions by MDEQ:	Evaluated response, response adequate	

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Wamplers Lake

County: *Lenawee*

Actions to Prevent Reoccurrence Installed a new valve & fitting

Comments: None entered

Warren

County: *Macomb*

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16993	05/28/14 11:00 P	05/29/14 7:00 A	4.4 Million Gallons	Diluted raw sewage	9 mile PS. Land: None entered, Waterbody: Red Run Drain (tributary to Clinton River)	
16504	08/12/14 6:35 A	08/14/14 6:25 A	10.4 Million Gallons	Diluted raw sewage	9 mile PS. Land: None entered, Waterbody: Red Run Drain (tributary to Clinton River)	Extremely heavy rain overwhelmed the system

Summary for Warren:

2 of 2 Events with a Reported Volume Total SSO Volume Reported: 14.8 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Outfall 001C (Blended effluent) *** 9 mile PS *** 9 mile PS *** Outfall 001C (Blended effluent)

Corrective Action(s) Complete: No
(repairs/modifications complete)

Schedule of Compliance: The NPDES permit requires construction of all SSO projects to be completed by December 1, 2017 **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: NPDES permit contains schedule to eliminate blending

Actions to Prevent Reoccurrence Schedule in NPDES permit agreed upon by City

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Warren

County: Macomb

Comments: None entered

Warren Dunes State Park

County: Berrien

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16798	07/23/14 2:30 P	07/23/14 2:45 P	Unspecified	Raw sewage	Campground lift station. Land: 3 ft by 10 ft area next to lift station, Waterbody: None	The control panel failed to turn the lift pumps on. The overflow covered a 3 ft by 10 ft area before soaking into the ground.

Summary for Warren Dunes State Park: 0 of 1 Events with a Reported Volume Total SSO Volume Reported: Unspecified

Outfall Corrective Actions: (No corrective actions entered)

Wayne Co/Dearborn Heights

County: Wayne

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16868	10/16/14 12:00 P	10/23/14 5:30 P	0.01041 Million Gallons	Raw sewage	M-14 (Weir). Land: none, Waterbody: Middle Rouge River	Partial transient blockage of local sewer system.

Summary for Wayne Co/Dearborn Heights: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.01 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Wayne Co/Dearborn Heights

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): M-14 (Weir)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: In the Process of NPDES Permit Reissuance to eliminate this outfall.

Actions to Prevent Reoccurrence In the Process of NPDES Permit Reissuance to eliminate this outfall.

Comments: None entered

Wayne County Airport

County: Wayne

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15992	06/13/14 1:15 P	06/13/14 2:00 P	0.0002 Million Gallons	Raw sewage	Lower Level-McNamara Terminal Parking Garage. Land: McNamara Terminal Parking Garage, Waterbody: none	Failure of McNamara Terminal Sanitary Lift Station

Summary for Wayne County Airport:

1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0002 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Wayne County Airport

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): Lower Level-McNamara Terminal Parking Garage

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Review of SSO event determined no purther action necessary at this time

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of the sewer system to prevent reoccurrence

Comments: None entered

West Bloomfield Township

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15879	05/14/14 12:02 P	05/14/14 12:51 P	0.00003 Million Gallons	Raw sewage	E side of Haggerty Rd, 250 ft N of Pontiac Trail (manhole). Land: 3 ft x 11 ft around manhole, Waterbody: None entered	Rubber material caused blockage in manhole, impeding flow and caused a SSO.

Summary for West Bloomfield Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00003 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

West Bloomfield Township

County: Oakland

Outfall Corrective Actions:

Associated Outfall(s): E side of Haggerty Rd, 250 ft. N of Pontiac Trail (manhole)

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: Review of SSO event has determined no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance to prevent reoccurrence.

Comments: None entered

Western Township Utility Authority

County: Wayne

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
15822	04/24/14 8:00 A	04/24/14 9:15 A	0.00001 Million Gallons	Raw sewage	Mich. Ave East of Sheldon Rd. Land: Area immediately surrounding the ARV stack., Waterbody: None	Failure of an Air Release Valve (ARV)
15833	04/29/14 2:15 P	04/29/14 3:30 P	0.00003 Million Gallons	Raw sewage	Mich. Ave. W. of Beck. Land: Area immediately surrounding the ARV., Waterbody: None	Failure of an air release valve (ARV)
16786	09/17/14 3:00 P	09/17/14 4:00 P	0.00003 Million Gallons	Raw sewage	Michigan Ave. near Wiard Rd. Land: None, Waterbody: None entered	Failure of an Air Release Valve (ARV).

Summary for Western Township Utility Aut: 3 of 3 Events with a Reported Volume Total SSO Volume Reported: 0.00007 Million Gallons

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Western Township Utility Authority

County: Wayne

Outfall Corrective Actions:

Associated Outfall(s): Mich. Ave East of Sheldon Rd *** Mich. Ave. W. of Beck *** Michigan Ave. near Wiard Rd.

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: NA **Schedule of Compliance Approved by MDEQ:** Yes

Actions by MDEQ: Review of SSO event information determined that no further action is necessary at this time.

Actions to Prevent Reoccurrence Entity performs routine inspection and preventative maintenance of sewer system to prevent reoccurrence.

Comments: None entered

Wexford County DPW

County: Wexford

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16682	08/21/14 9:45 A	08/21/14 9:56 A	0.0002 Million Gallons	Raw sewage	1754 East Lake Mitchell Dr. (pump station SPS 1B) (Lift Station 1B). Land: Wetland adjacent to lift station, Waterbody: wetland adjacent to pump station	Overflow from Lift Station due to power failure.
16719	09/01/14 10:00 A	09/01/14 12:40 P	0.006 Million Gallons	Raw sewage	1754 East Lake Mitchell Dr. (pump station SPS 1B) (Lift Station 1B). Land: Wetland adjacent to lift station, Waterbody: wetland adjacent to pump station	Pump station rehabilitation ongoing. Temporary portable pumps in use while contractor working on permanent pump station upgrades. Cam-Lock connector on portable temporary pump piping came loose. Event not associated with rainfall.

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Wexford County DPW

County: *Wexford*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
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Summary for Wexford County DPW: 2 of 2 Events with a Reported Volume Total SSO Volume Reported: 0.006 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Wheatland Twp

County: *Mecosta*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15670	02/08/14 12:00 A	02/11/14 2:00 P	0.002 Million Gallons	Raw sewage	Wheatland Avenue (M-20) West of Remus. Land: Road surface between manholes, Waterbody: None entered	Raw sewage discharged onto road surface due to a sewer plugging

Summary for Wheatland Twp: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.002 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): Wheatland Avenue (M-20) West of Remus

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered

Schedule of Compliance Approved by MDEQ: No

Actions by MDEQ: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Wheatland Twp

County: Mecosta

Actions to Prevent Reoccurrence Private contractor employed to unplug sewer and perform clean-up

Comments: None entered

White Lake Township

County: Oakland

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15974	06/14/14 2:00 P	06/14/14 7:20 P	0.00003 Million Gallons	Raw sewage	M59@Elizabeth Lake Road (parking lot) White Lake Township. Land: None entered, Waterbody: storm water detention pond	private sewer blockage leading to overflow in parking lot. Entered storm drain manhole tributary to storm water detention pond.

Summary for White Lake Township: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00003 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s): M59@Elizabeth Lake Road (parking lot) White Lake Township.

Corrective Action(s) Complete: Yes
(repairs/modifications complete)

Schedule of Compliance: None entered **Schedule of Compliance Approved by MDEQ:** No

Actions by MDEQ: no further action required at this time.

Actions to Prevent Reoccurrence County will respond as required to deal with any future issues at this location.

Comments: None entered

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Williamston

County: *Ingham*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
16984	08/28/14 5:00 P	09/02/14 2:00 A	0.0252 Million Gallons	Raw sewage	1200 blk of Zimmer Pl, Williamston (LS power failure). Land: backyard of condominium, Waterbody: None entered	power failure of lift station serving condos. Wet-well filled and overflowed from cleanout to a basement sump pit. From there it was discharged outside to the ground.

Summary for Williamston: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.025 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Wyoming

County: *Kent*

Reported Events:

<i>Event ID</i>	<i>Start Date/Time</i>	<i>End Date/Time</i>	<i>Event Volume</i>	<i>Discharge Quality</i>	<i>Point(s) of Discharge</i>	<i>Reason for Discharge</i>
15733	03/14/14 8:00 A	03/14/14 10:15 A	0.0006 Million Gallons	Raw sewage	4875 Ivanrest Ave SW. Land: Soils around the manhole, Waterbody: Behan-Foley Drain	The sewer was plugged from disposable rags resulting in an overflow.

Summary for Wyoming: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.0006 Million Gallons

Outfall Corrective Actions: (No corrective actions entered)

Sanitary Sewer Overflow (SSO) Detail Report

January 1, 2014 - Decemeber 31, 2014

Ypsilanti Community Utilities Authority

County: Washtenaw

Reported Events:

Event ID	Start Date/Time	End Date/Time	Event Volume	Discharge Quality	Point(s) of Discharge	Reason for Discharge
16787	09/16/14 11:03 A	09/16/14 12:06 P	0.00036 Million Gallons	Raw sewage	3145 Snow Rd. Valve Pit (Valve Pit - ARV). Land: None entered, Waterbody: Huron River	Air relief valve on the force main from YCUA Snow Rd. Pump Station stuck open from grease and debris allowing wastewatr to fill the valve pit and spill onto the ground.

Summary for Ypsilanti Community Utilitie: 1 of 1 Events with a Reported Volume Total SSO Volume Reported: 0.00036 Million Gallons

Outfall Corrective Actions:

Associated Outfall(s):	3145 Snow Rd. Valve Pit (Valve Pit - ARV)		
Corrective Action(s) Complete: (repairs/modifications complete)	Yes		
Schedule of Compliance:	None entered	Schedule of Compliance Approved by MDEQ:	No
Actions by MDEQ:	Review of SSO event information determined that no further action is necessary at this time.		
Actions to Prevent Reoccurrence	Entity performs routine inspection and preventative maintenance of sewer system to prevent reoccurrence.		
Comments:	None entered		