



August 3, 2020

Mr. Jacob Wedesky
Wastewater Engineer
Wisconsin Department of Natural Resources
2300 North Dr Martin Luther King Jr Drive
Milwaukee, WI 53212-3128

Subject: August 2, 2020 Sanitary Sewer Overflow Event Five-Day Report
WPDES Permit No. WI-0036820-04-0

Mr. Wedesky:

The following information is being provided in compliance with the terms and conditions listed in section 9.3.1.3 of MMSD's (District) WPDES permit for sanitary sewage overflows.

The overflow occurred due to heavy precipitation on August 2, 2020. Between 8:00 PM – 11:00 PM, District rain gauge WS1216 at 3563 S 97th Street measured 4.5 inches of rain with a maximum intensity of 8.4 inches per hour. The National Oceanic and Atmospheric Administration (NOAA) gauge at General Mitchell Airport (MKE) measured a record amount for August 2nd of 4.79 inches. In response to locally intense rain, the District's emergency bypass pump station at 74th Street & Oklahoma Ave activated to prevent basement backups and to protect public health and safety.

The Depth Duration Frequency Curves are attached and were generated for rain gauge WS1216, using NOAA Atlas 14, Volume 8, Version 2. This reference shows this rainfall event was representative of a 200-year recurrence interval storm.

On August 2, the bypass station ran from 9:47 PM – 11:47 PM. The flows are pumped from the station into Honey Creek. The estimated discharge was 175,000 gallons.

The District's six-year investment plan calls for \$1.4 billion in improvements to regional water reclamation facilities and sewers to reduce the risk of overflows and basement backups. Part of that spending includes the private property inflow and infiltration reduction program throughout our service area. MMSD and Veolia Water Milwaukee will continue to operate the conveyance system, Inline Storage System, Northwest Side Relief Sewer and the water reclamation facilities in a manner to provide the level of protection required to prevent basement backups and to protect public health.

Mr. Jacob Wedesky

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Page 2

For the DNR Compliance Maintenance Annual Report (CMAR), this overflow is assigned to the South Shore Water Reclamation Facility.

The following required document is included:

- WDNR Form 3400-184 – Overflow Notification Summary Report
- Precipitation Map at District Rain Gauges for August 2, 2020
- Depth Duration Frequency Curve

If you have any questions concerning this report, please contact me at (414) 277-6384.

Sincerely,

A handwritten signature in blue ink that reads "Sharon K. Mertens". The signature is fluid and cursive, with the first name being the most prominent.

Sharon K. Mertens
Director, Water Quality Protection
Milwaukee Metropolitan Sewerage District

c: K. Lazarski, MMSD
T. Nowicki, MMSD
S. Royer, Veolia Water Milwaukee

Sanitary Sewage Overflow Notification Summary Report

Notice: An overflow is defined as a release of wastewater from a sewage collection system (SSO) or from a location within a sewage treatment facility (TFO) other than a permitted outfall structure, directly to a water of the state or land surface. Pursuant to s. 283.55(1)(dm), Wis. Stats., s. NR 210.21(4)(5)(8) Wis. Adm. Code and in accordance with reporting requirements in your WPDES permit, permittees shall submit a written report form for each overflow. This record is used to administer the water quality program, and any personally identifiable information may be provided to requesters as required under the Wisconsin Open Records law (ss. 19.31-19.39, Wis. Stats.).

- Sanitary Sewer Overflow (SSO)
 Treatment Facility Overflow (TFO)

Use one form per SSO location. Submit within five calendar days to your Department wastewater representative. Attach additional information as necessary to explain or document each overflow occurrence. A single SSO may be more than one day if the circumstance causing the overflow results in discharge duration more than 24 hours. If there is a stop and restart of the overflow within 24 hours, but it's caused by the same circumstances, report it as one SSO. If the discharges are separated by more than 24 hours, they should be reported as separate SSOs.

Notifications

Department Notification

Permittee (Municipality or Facility Name) Milwaukee Metropolitan Sewerage District	Permit No. WI-0036820-04-0
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Person Who Contacted the DNR
Sharon K. Mertens

DNR Person Contacted Jacob Wedesky	Date (mm/dd/yyyy) 08/03/2020	Time of Day 11:12 <input checked="" type="radio"/> am <input type="radio"/> pm	Within 24 hours? <input checked="" type="radio"/> Yes <input type="radio"/> No
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Public Notification

Date (mm/dd/yyyy) 08/03/2020	How the Public was Notified Posted on MMSD's website
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Describe the actual or potential for human exposure or contact with overflowing wastewater

There is potential for human exposure through recreational use of the waterway

Other Notifications (if applicable)	Drinking Water Intake Owner Cudahy, Milwaukee, North Shore, Oak Creek and South Milw. Waterworks	Date (mm/dd/yyyy) 08/03/2020
	Regional Wastewater Treatment Facility NA	Date (mm/dd/yyyy)

(Satellite collection permittees are required to submit a copy of this report to the regional plant to which they discharge.)

Wet Weather Information (if applicable)

Was this overflow wet weather related? Yes No (skip this section)

Rainfall Start: 05/17/2020 2:15 am pm 4.7 inches
 Date (mm/dd/yyyy) Start Time Rainfall Amount

Rainfall End: 05/17/2020 11:50 am pm
 Date (mm/dd/yyyy) End Time

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.): According to NOAA, as of 8/1/20, Milwaukee was 2.64 inches above normal for annual rainfall.

Overflow Details

Location (Street Address)
S 74th St and W Oklahoma Ave

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 42.988275 Longitude: -88.00538
 (e.g. 43.075350) (e.g. -89.379770)

Overflow Start: 08/02/2020 9:47 am pm
 Date (mm/dd/yyyy) Start Time

Overflow End: 08/02/2020 11:47 am pm
 Date (mm/dd/yyyy) End Time

2 hours 175,000 gallons
 Duration Volume

Cause: (select all that apply) <input checked="" type="checkbox"/> Rain <input type="checkbox"/> Plugged Pipe <input type="checkbox"/> Snow Melt <input type="checkbox"/> Broken Pipe <input type="checkbox"/> Flooding <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Power Outage <input type="checkbox"/> Contractor Related <input type="checkbox"/> Other-Explain: _____	Overflow Occurred From: (select only one) <input type="radio"/> Lift Station - Name: _____ <input type="radio"/> Manhole - MH#: _____ <input type="radio"/> Gravity Sewer Pipe <input type="radio"/> Pressure Sewer Pipe (Forcemain) <input type="radio"/> River or Stream Crossing - Select one: <input type="radio"/> Forcemain <input type="radio"/> Siphon <input checked="" type="radio"/> Permanent Overflow Structure <input type="radio"/> Treatment Plant Unit or Pipe: _____ <input type="radio"/> Other: _____
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Destination: (select all that apply)

Ditch - Name of surface water it drains to: _____

Storm sewer - Name of surface water it goes to: _____

Surface water - Name of waterbody: Honey Creek

Ground - Seeps into soil: _____

Other - Describe: _____

Overflow Explanation (This includes any information, whether the overflow was unavoidable to prevent loss of life, personal injury, or severe property damage and whether there were feasible alternatives to the overflow.)

On August 2, there was localized intense rainfall. Between 8:00 PM and 11:00 PM, MMSD rain gauge WS1216 at 3563 S 97th St. measured 4.5 inches of rain with a maximum intensity of 8.4 inches per hour. The overflow occurred because heavy rainfall filled the District's sewer lines and elevated levels in area waterways restricted typical discharge paths, causing excess flow to be released. The Milwaukee Metropolitan Sewerage District feels that this Sanitary Sewer Overflow was necessary to provide the level of protection required to prevent basement backups and to protect public health.

Immediate Corrective Action and Steps Taken to Reduce this Overflow Volume and Impacts

MMSD will continue to operate the conveyance system in a manner to prevent separate sewer overflows.

Long Term Plan to Reduce, Eliminate, Prevent Reoccurrence of this Overflow

The District actively pursues the elimination of excess inflow and infiltration by funding a \$58 million-dollar Private Property Inflow and Infiltration Reduction Program throughout our service area to further reduce the risk of basement backups and separate sewer overflows.

Building Backups

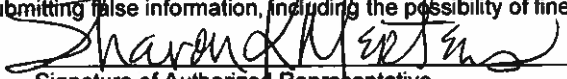
Number of building backups occurring during this time in Area of Overflow: _____

Locations of Building Backups: Tributary municipalities record and respond to backups.
(list each one)

Certification

Authorized Representative Name Sharon K. Mertens	Authorized Representative Title Water Quality Protection Division Director
Email Address smertens@mmsd.com	Phone Number (414) 277-6384

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is/ to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Signature of Authorized Representative

8/3/2020
Signed Date (mm/dd/yyyy)

Note: Submit this form to your DNR wastewater representative. Permittees who are required to submit monthly Discharge Monitoring Reports (DMRs) shall report this overflow on the DMR.

DNR Follow-Up Action (DNR Use Only)	
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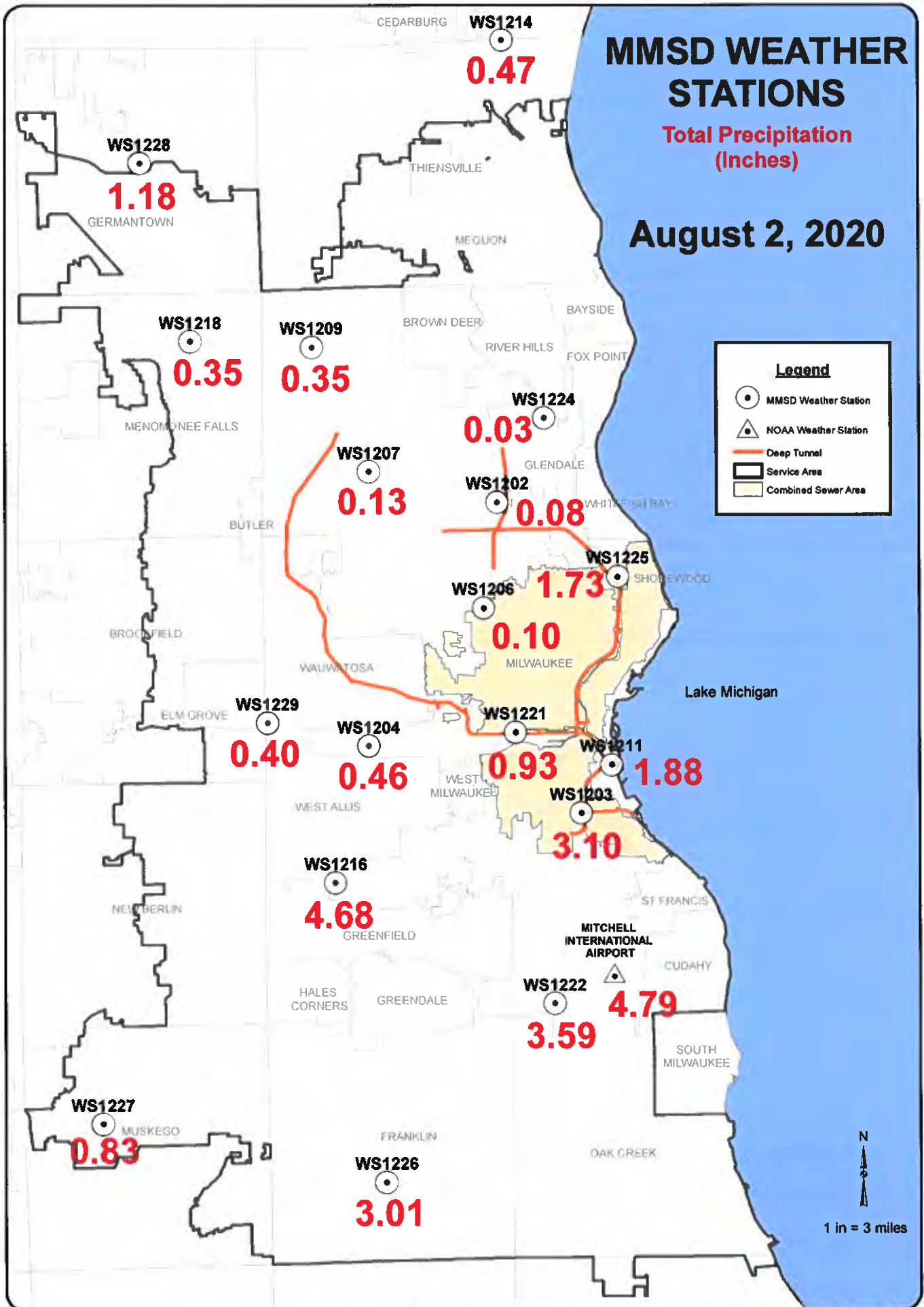
MMSD WEATHER STATIONS

Total Precipitation
(Inches)

August 2, 2020

Legend

- MMSD Weather Station
- △ NOAA Weather Station
- Deep Tunnel
- ▭ Service Area
- ▭ Combined Sewer Area



N
1 in = 3 miles

Depth Duration Frequency Curve
 Based on NOAA Atlas 14, Vol. 8, Ver. 2
 With Rainfall Data from Gauge **WS1216** Reported to MMSD
 August 2, 2020

