



September 18, 2019

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

Subject: September 13, 2019 Sanitary Sewer Overflow Event Five-Day Notification Letter
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 the MMSD's (District) WPDES permit for sanitary sewage overflows.

A sanitary sewer overflow started on September 13 at 2:00 AM and concluded at 3:30 AM for a total duration of 1.5 hours. The estimated discharge volume to Wilson Park Creek at S. Howell Avenue was 41,000 gallons.

Intense rainfall on September 13 between 12:00 AM and 4:30 AM caused the overflow. MMSD rain gauge WS1222 at 6060 S. 13th St. measured 2.6 inches of rain with a maximum intensity of 4.5 inches per hour. The District's 27" sewer line filled, causing excess flow to be released to the 24" gravity overflow pipe. The sanitary sewer overflow structure operated as designed and was necessary to provide the level of protection required to prevent basement backups and to protect public health.

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.

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

The following supporting documents are attached:

- Sanitary Sewerage Overflow Verification Notification Summary Report Form 3400-184
- Precipitation Map at District Rain Gauges for September 10-13, 2019

Milwaukee Metropolitan Sewerage District

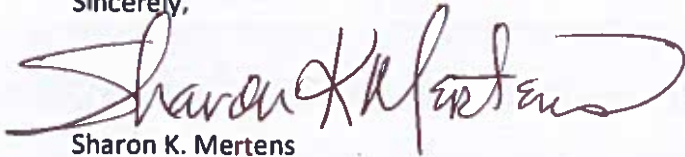
260 W. Seeboth Street, Milwaukee, WI 53204-1446

414-272-5100 www.mmsd.com 

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Sharon K. Mertens". The signature is fluid and cursive, with a large loop at the end.

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

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

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)(6) 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) 09/13/2019	Time of Day 1:12	<input type="radio"/> am <input checked="" 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) 09/13/2019	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) 09/13/2019
	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: 09/13/2019 12:05 am pm 2.9 inches
 Date (mm/dd/yyyy) Start Time Rainfall Amount

Rainfall End: 09/13/2019 5:30 am pm According to NOAA, as of 9/13/19,
 Date (mm/dd/yyyy) End Time Milwaukee was 1.45 inches above normal
 Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.): for monthly rainfall.

Overflow Details

Location (Street Address)
South Howell Avenue, South of East Grange Avenue

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 42.9477 Longitude: -87.909686
 (e.g. 43.075350) (e.g. -89.379770)

Overflow Start: 09/13/2019 2:00 am pm 1.5 hours 41,000 gallons
 Date (mm/dd/yyyy) Start Time Duration Volume

Overflow End: 09/13/2019 3:30 am pm

Date (mm/dd/yyyy) End Time

<p>Cause: (select all that apply)</p> <p><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: _____</p>	<p>Overflow Occurred From: (select only one)</p> <p><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: _____</p>
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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: Wilson Park Creek at S. Howell Avenue

Surface water -- Name of waterbody: _____

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 September 13, there was intense rainfall between 12:00 AM and 4:30 AM. MMSD rain gauge WS1222 at 6060 S. 13th St. measured 2.6 inches of rain with a maximum intensity of 4.5 inches per hour. The overflow occurred because heavy rainfall filled the District's 27" sewer line causing excess flow to be released to the 24" gravity overflow pipe. 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from September 13 at 1:25 AM until 11:50 PM for a total of 22.4 hours. Total volume for this process was estimated to be 48.3 million gallons.

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: 0

Locations of Building 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.

 9/18/19
Signature of Authorized Representative 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)

Sept. 10-13, 2019

Maintenance Outages:
WS1218, WS1220,
& WS1227

Legend

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

