PARTNERS FOR A CLEANER ENVIRONMENT

May 22, 2020

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

Subject: May 17, 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.

Due to service area wide heavy rains onto saturated ground the District experienced eight sanitary sewer overflows on May 17. By 3:45 PM, District rain gauge WS1206 at 3626 W. Fond du Lac Ave measured 3.1" inches of rain. Total precipitation measured at WS1206 on May 17 was 4.46". Please see attached precipitation map for amounts measured at all District rain gauges.

Earliest overflow began at 4:30 PM. All sanitary sewer overflows were concluded by 10:40 PM.

The current estimate of the total volume of these overflows is 14 MG. See the notification summary forms for details on each overflow. The District will continue its analysis of the overflow volumes and will report any significant volume revisions.

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 prevent separate sewer overflows and to maximize the capture of combined sewer flow volumes.

Milwaukee Metropolitan Sewerage District
260 W. Seeboth Street, Milwaukee, WI 53204-1446
414-272-5100 www.mmsd.com

For the DNR Compliance Maintenance Annual Report (CMAR), all overflows are assigned to the South Shore Water Reclamation Facility except for BS0503 at 35th & Roosevelt. That overflow is assigned to Jones Island Water Reclamation Facility.

The following supporting documents are attached:

- WDNR Form 3400-184 – Eight Overflow Notification Summary Reports
- May 17 Precipitation Map at District Rain Gauges

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

Sincerely,

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

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

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

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)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (●) pm	(●) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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): 05/17/2020
	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (●) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (●) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

Location (Street Address): North Broadmoor Road

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 43.190614 (e.g. 43.075350) Longitude: -87.913364 (e.g. -89.379770)

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 5:00 (Start Time) ( ) am (●) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 8:00 (End Time) ( ) am (●) pm

3 (Duration) hours — 666,000 (Volume) gallons

Cause: (select all that apply)

- [x] Rain
- [ ] Snow Melt
- [ ] Flooding
- [ ] Power Outage
- [ ] Plugged Pipe
- [ ] Broken Pipe
- [ ] Equipment Failure
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
- ( ) Manhole – MH#:
- ( ) Gravity Sewer Pipe
- ( ) Pressure Sewer Pipe (Forcemain)
- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (●) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe:
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report

Destination: (select all that apply)

- ☐ Ditch – Name of surface water it drains to: _____
- ☒ Storm sewer – Name of surface water it goes to: Lake Michigan via Fish Creek
- ☐ 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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from 05/17/2020 at 11:00 AM until 05/20/2020 at 8:15 AM for a total of 69.25 hours. Total volume for this process was 175 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: _____

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

Certification

Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

Email Address	Phone Number
smertens@mmsd.com	(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.

Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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)	

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

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(●) **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)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (●) pm	(●) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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): 05/17/2020
	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (●) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (●) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

Location (Street Address): North River Road and W Green Tree Road

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 43.144336 (e.g. 43.075350) Longitude: -87.927142 (e.g. -89.379770)

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 4:40 (Start Time) ( ) am (●) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 10:40 (End Time) ( ) am (●) pm

6 (Duration) hours — 9,065,000 (Volume) gallons

Cause: (select all that apply)

- [X] Rain
- [ ] Snow Melt
- [ ] Flooding
- [ ] Power Outage
- [ ] Plugged Pipe
- [ ] Broken Pipe
- [ ] Equipment Failure
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
- ( ) Manhole – MH#:
- ( ) Gravity Sewer Pipe
- ( ) Pressure Sewer Pipe (Forcemain)
- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (●) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe:
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report

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: _____
- ☐ Ground – Seeps into soil: _____
- ☒ Other – Describe: Flows over land to the Milwaukee River

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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from 05/17/2020 at 11:00 AM until 05/20/2020 at 8:15 AM for a total of 69.25 hours. Total volume for this process was 175 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: _____

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

Certification

Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

Email Address	Phone Number
smertens@mmsd.com	(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.

Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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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Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

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(●) 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)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (●) pm	(●) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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): 05/17/2020
	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (●) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (●) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

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

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

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 5:30 (Start Time) ( ) am (●) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 7:00 (End Time) ( ) am (●) pm

1.5 (Duration) hours — 30,000 (Volume) gallons

Cause: (select all that apply)

- [X] Rain
- [ ] Plugged Pipe
- [ ] Snow Melt
- [ ] Broken Pipe
- [ ] Flooding
- [ ] Equipment Failure
- [ ] Power Outage
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
- ( ) Manhole – MH#:
- ( ) Gravity Sewer Pipe
- ( ) Pressure Sewer Pipe (Forcemain)
- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (●) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe:
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report

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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from 05/17/2020 at 11:00 AM until 05/20/2020 at 8:15 AM for a total of 69.25 hours. Total volume for this process was 175 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: _____

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

Certification

Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director
Email Address	**Phone Number**
smertens@mmsd.com	(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.

Sharon K Mertens — Signature of Authorized Representative

05/22/2020 — 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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Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

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(●) Sanitary Sewer Overflow (SSO)
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Department Notification

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DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (●) pm	(●) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
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	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (●) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (●) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

Location (Street Address): West Manitoba Street and South 35th Street

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 42.990431 (e.g. 43.075350) Longitude: -87.957958 (e.g. -89.379770)

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 4:59 (Start Time) ( ) am (●) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 6:41 (End Time) ( ) am (●) pm

1.7 (Duration) hours — 1,335,000 (Volume) gallons

Cause: (select all that apply)

- [X] Rain
- [ ] Snow Melt
- [ ] Flooding
- [ ] Power Outage
- [ ] Plugged Pipe
- [ ] Broken Pipe
- [ ] Equipment Failure
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
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- ( ) Gravity Sewer Pipe
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- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (●) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe:
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report

Destination: (select all that apply)

- ☐ Ditch – Name of surface water it drains to: _____
- ☒ Storm sewer – Name of surface water it goes to: Kinnickinnic River
- ☐ 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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

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

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

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Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

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Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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.

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Department of Natural Resources
dnr.wi.gov

Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

◉ Sanitary Sewer Overflow (SSO)
◯ Treatment Facility Overflow (TFO)

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.)."

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)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ◯ am ◉ pm	◉ Yes ◯ No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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): 05/17/2020
	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 (Date) 2:00 (Start Time) ◉ am ◯ pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date) 10:30 (End Time) ◯ am ◉ pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

Location (Street Address): West Roosevelt Drive and North 35th Street

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 43.089458 (e.g. 43.075350) Longitude: -87.957619 (e.g. -89.379770)

Overflow Start: 05/17/2020 (Date) 4:46 (Start Time) ◯ am ◉ pm

Overflow End: 05/17/2020 (Date) 8:32 (End Time) ◯ am ◉ pm

3.8 (Duration) hours — 3,060,000 (Volume) gallons

Cause: (select all that apply)

- ☒ Rain
- ☐ Plugged Pipe
- ☐ Snow Melt
- ☐ Broken Pipe
- ☐ Flooding
- ☐ Equipment Failure
- ☐ Power Outage
- ☐ Contractor Related
- ☐ Other–Explain:

Overflow Occurred From: (select only one)

- ◯ Lift Station – Name:
- ◯ Manhole – MH#:
- ◯ Gravity Sewer Pipe
- ◯ Pressure Sewer Pipe (Forcemain)
- ◯ River or Stream Crossing – Select one: ◯ Forcemain ◯ Siphon
- ◉ Permanent Overflow Structure
- ◯ Treatment Plant Unit or Pipe:
- ◯ Other:

Sanitary Sewage Overflow Notification Summary Report

Destination: (select all that apply)

- ☐ Ditch – Name of surface water it drains to: _____
- ☒ Storm sewer – Name of surface water it goes to: Lincoln Creek
- ☐ 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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from 05/17/2020 at 11:00 AM until 05/20/2020 at 8:15 AM for a total of 69.25 hours. Total volume for this process was 175 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: _____

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

Certification

Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

Email Address	Phone Number
smertens@mmsd.com	(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.

Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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)	

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

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(◉) **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)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (◉) pm	(◉) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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)		Date (mm/dd/yyyy)
	Drinking Water Intake Owner: Cudahy, Milwaukee, North Shore, Oak Creek and South Milw. Waterworks	05/17/2020
	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (◉) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (◉) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

Location (Street Address)

S 79th St extended at W Dickinson Oklahoma Avenue. State Fair Parking Lot.

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 43.025 (e.g. 43.075350) Longitude: -88.010672 (e.g. -89.379770)

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 4:30 (Start Time) ( ) am (◉) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 5:15 (End Time) ( ) am (◉) pm

0.8 (Duration) hours — 5,000 (Volume) gallons

Cause: (select all that apply)

- [x] Rain
- [ ] Plugged Pipe
- [ ] Snow Melt
- [ ] Broken Pipe
- [ ] Flooding
- [ ] Equipment Failure
- [ ] Power Outage
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
- ( ) Manhole – MH#:
- ( ) Gravity Sewer Pipe
- ( ) Pressure Sewer Pipe (Forcemain)
- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (◉) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe :
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report

Destination: (select all that apply)

- ☐ Ditch – Name of surface water it drains to: _____
- ☒ Storm sewer – Name of surface water it goes to: Honey Creek
- ☐ 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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from 05/17/2020 at 11:00 AM until 05/20/2020 at 8:15 AM for a total of 69.25 hours. Total volume for this process was 175 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: _____

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

Certification

Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

Email Address	Phone Number
smertens@mmsd.com	(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.

Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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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Sanitary Sewage Overflow Notification Summary Report

Form 3400-184 (R 7/17) Page 1 of 2

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(●) **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)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (●) pm	(●) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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): 05/17/2020
	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (●) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (●) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

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

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

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 4:53 (Start Time) ( ) am (●) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 5:30 (End Time) ( ) am (●) pm

0.6 (Duration) hours — 40,000 (Volume) gallons

Cause: (select all that apply)

- [x] Rain
- [ ] Plugged Pipe
- [ ] Snow Melt
- [ ] Broken Pipe
- [ ] Flooding
- [ ] Equipment Failure
- [ ] Power Outage
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
- ( ) Manhole – MH#:
- ( ) Gravity Sewer Pipe
- ( ) Pressure Sewer Pipe (Forcemain)
- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (●) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe:
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report
Form 3400-184 (R 7/17)

Destination: (select all that apply)

- ☐ Ditch – Name of surface water it drains to: _____
- ☒ Storm sewer – Name of surface water it goes to: Honey Creek at W Oklahoma 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 May 17, there was intense and prolonged rainfall between 2:00 AM and 10:30 PM. MMSD rain gauge WS1206 at 3626 W Fond du Lac Ave measured 4.5 inches of rain with a maximum intensity of 2.5 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

To maximize system storage and conveyance capacity, the Combined Sewer Wet Weather Flow Treatment Process was utilized at Jones Island Water Reclamation Facility from 05/17/2020 at 11:00 AM until 05/20/2020 at 8:15 AM for a total of 69.25 hours. Total volume for this process was 175 million gallons.

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

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Building Backups

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

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

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Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

Email Address	Phone Number
smertens@mmsd.com	(414) 277-6384

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Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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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Sanitary Sewage Overflow Notification Summary Report

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

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Notifications

Department Notification

Permittee (Municipality or Facility Name)	Permit No.
Milwaukee Metropolitan Sewerage District	WI-0036820-04-0

Person Who Contacted the DNR: Sharon K. Mertens

DNR Person Contacted	Date (mm/dd/yyyy)	Time of Day	Within 24 hours?
Jacob Wedesky	05/18/2020	2:15 ( ) am (◉) pm	(◉) Yes ( ) No

Public Notification

Date (mm/dd/yyyy)	How the Public was Notified
05/17/2020	Posted on MMSD's website

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)		Date (mm/dd/yyyy)
	Drinking Water Intake Owner: Cudahy, Milwaukee, North Shore, Oak Creek and South Milw. Waterworks	05/17/2020
	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 (Date (mm/dd/yyyy)) 2:00 (Start Time) (◉) am ( ) pm — 4.5 (Rainfall Amount) inches

Rainfall End: 05/17/2020 (Date (mm/dd/yyyy)) 10:30 (End Time) ( ) am (◉) pm

According to NOAA, as of 5/17/20, Milwaukee was 1.04 inches above normal for monthly rainfall.

Contributing Soil or Other Conditions (saturated, frozen, soil type, snowmelt, etc.):

Overflow Details

Location (Street Address): North Lake Drive, North of East Ravine Lane

Location (GPS coordinates, WGS84 standard coordinate system) Latitude: 43.189279 (e.g. 43.075350) Longitude: -87.895033 (e.g. -89.379770)

Overflow Start: 05/17/2020 (Date (mm/dd/yyyy)) 5:20 (Start Time) ( ) am (◉) pm

Overflow End: 05/17/2020 (Date (mm/dd/yyyy)) 6:20 (End Time) ( ) am (◉) pm

1 (Duration) hours — 22,000 (Volume) gallons

Cause: (select all that apply)

- [x] Rain
- [ ] Plugged Pipe
- [ ] Snow Melt
- [ ] Broken Pipe
- [ ] Flooding
- [ ] Equipment Failure
- [ ] Power Outage
- [ ] Contractor Related
- [ ] Other–Explain:

Overflow Occurred From: (select only one)

- ( ) Lift Station – Name:
- ( ) Manhole – MH#:
- ( ) Gravity Sewer Pipe
- ( ) Pressure Sewer Pipe (Forcemain)
- ( ) River or Stream Crossing – Select one: ( ) Forcemain ( ) Siphon
- (◉) Permanent Overflow Structure
- ( ) Treatment Plant Unit or Pipe:
- ( ) Other:

Sanitary Sewage Overflow Notification Summary Report
Form 3400-184 (R 7/17)

Destination: (select all that apply)

- ☐ Ditch – Name of surface water it drains to: _____
- ☒ Storm sewer – Name of surface water it goes to: Lake Michigan via Fish Creek
- ☐ 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.)

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

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Building Backups

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

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

Certification

Authorized Representative Name	Authorized Representative Title
Sharon K. Mertens	Water Quality Protection Division Director

Email Address	Phone Number
smertens@mmsd.com	(414) 277-6384

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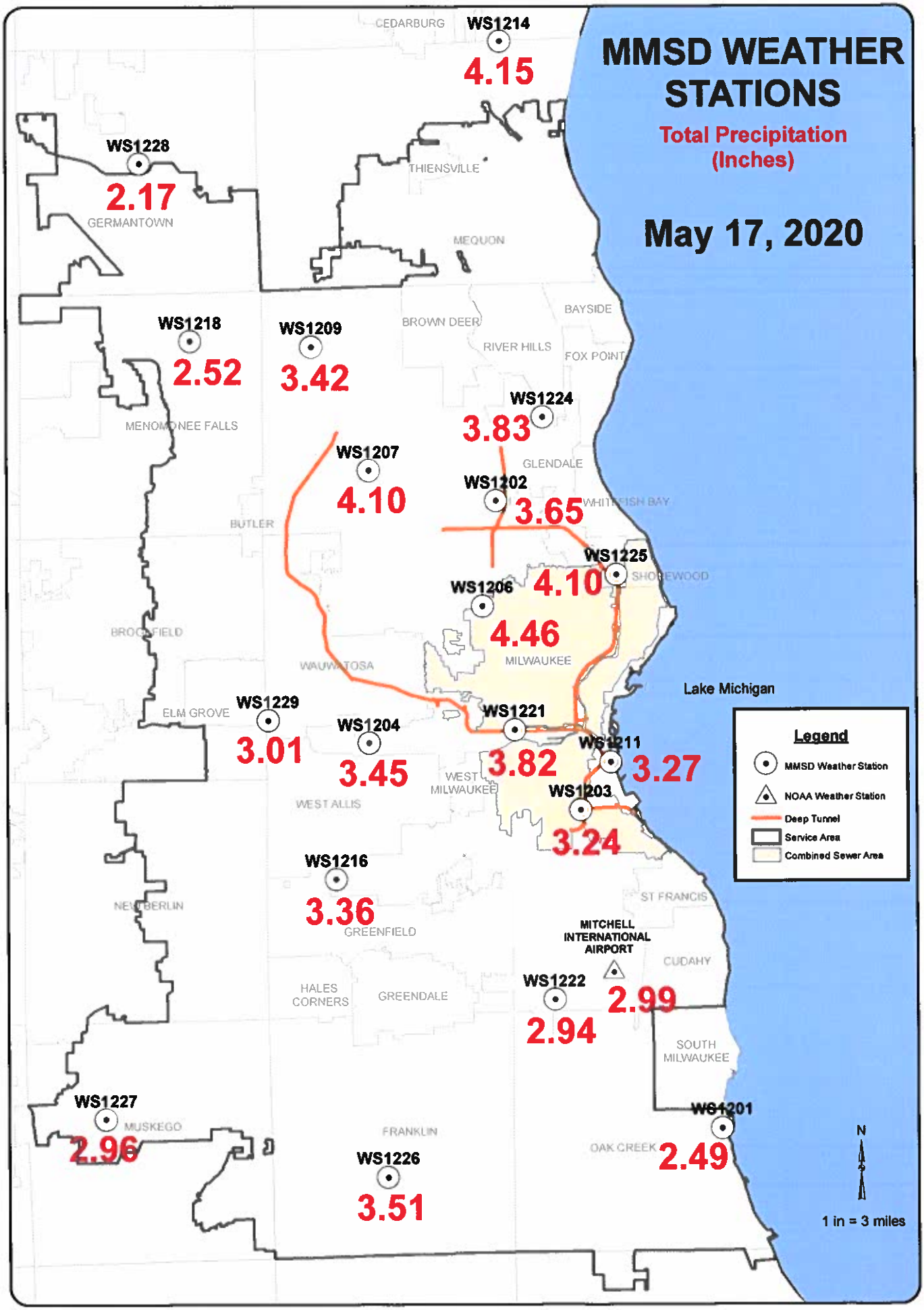
Sharon K Mertens — Signature of Authorized Representative

5/22/2020 — 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)	


MMSD WEATHER STATIONS
Total Precipitation (Inches)
May 17, 2020
WS1214
4.15
WS1228
2.17
GERMANTOWN
WS1218
2.52
WS1209
3.42
WS1224
3.83
WS1207
4.10
WS1202
3.65
WS1225
4.10
WS1206
4.46
MILWAUKEE
WS1229
3.01
WS1204
3.45
WS1221
3.82
WS1211
3.27
WS1203
3.24
WS1216
3.36
GREENFIELD
WS1222
2.94
2.99
WS1227
2.96
WS1226
3.51
WS1201
2.49
CEDARBURG
THIENSVILLE
MEQUON
BROWN DEER
BAYSIDE
RIVER HILLS
FOX POINT
MENOMONEE FALLS
GLENDALE
WHITEFISH BAY
BUTLER
SHOREWOOD
BROOKFIELD
WAUWATOSA
ELM GROVE
WEST MILWAUKEE
WEST ALLIS
NEW BERLIN
ST FRANCIS
MITCHELL INTERNATIONAL AIRPORT
CUDAHY
HALES CORNERS
GREENDALE
SOUTH MILWAUKEE
MUSKEGO
FRANKLIN
OAK CREEK
Lake Michigan
Legend
MMSD Weather Station
NOAA Weather Station
Deep Tunnel
Service Area
Combined Sewer Area
N
1 in = 3 miles