



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO ATTENTION OF
ECW-15J

Via Email: perkovichb@mwrdd.org

Brian Perkovich
Executive Director
Metropolitan Water Reclamation District
of Greater Chicago
100 East Erie Street
Chicago, Illinois 60611

Re: *United States and State of Illinois v. Metropolitan Water Reclamation District of Greater Chicago*, Mainstream/Lower Des Plaines TARP System Post Construction Monitoring Plan (NPDES Permit # IL0028088 and IL0028053)

Dear Mr. Perkovich:


The U.S. Environmental Protection Agency received a May 11, 2021 letter, via email, from the Metropolitan Water Reclamation District of Greater Chicago (MWRD) submitting its revised Mainstream/Lower Des Plaines TARP System Post Construction Monitoring Plan for approval pursuant to Paragraph 35(b) and Section X of the Consent Decree in *United States and State of Illinois v. Metropolitan Water Reclamation District of Greater Chicago*, Civil Action No. 11-C-8859. EPA has reviewed MWRD's revised Mainstream/Lower Des Plaines TARP System Post Construction Monitoring Plan and has consulted with the Illinois Environmental Protection Agency regarding the plan, pursuant to Section X of the Consent Decree.

By this letter, EPA approves MWRD's revised Mainstream/Des Plaines TARP System Post Construction Monitoring Plan pursuant to Section X of the Consent Decree. Pursuant to Paragraph 35(d) of the Consent Decree, MWRD must implement the approved Mainstream/Des Plaines TARP System Post Construction Monitoring Plan within one year after MWRD has commenced full operation of the Stage 2 of the McCook Reservoir in accordance with Paragraph 17(g) of the Consent Decree. In addition, MWRD should notify EPA and the Illinois Environmental Protection Agency of any proposed changes, pursuant to the provisions of the approved Mainstream/Des Plaines TARP System Post Construction Monitoring Plan, at least six months prior to the implementation of this plan.

If you have any questions, please contact Keith Middleton, of my staff, at (312) 886-6465 or middleton.keith@epa.gov. If you have any legal inquiries, please contact Deborah Carlson, Office of Regional Counsel, at (312) 353-6121 or carlson.deboraha@epa.gov.

Sincerely,

NEFERTITI
DICOSMO

 Digitally signed by NEFERTITI
DICOSMO
Date: 2021.06.09 07:22:22 -05'00'

Nefertiti DiCosmo, Chief
Water Enforcement and Compliance Branch

cc: Charles Gunnarson, Illinois Environmental Protection Agency
(Charles.Gunnarson@Illinois.gov)
Cathy Banerjee Rojko, United States Department of Justice (Cathy.Rojko@usdoj.gov)
Deborah Carlson, U.S. EPA Region 5 Office of Regional Counsel
(carlson.deboraha@epa.gov)
Steve Sylvester, Illinois Attorney General's Office (ssylvester@atg.state.il.us)
Brendan O'Connor, MWRD (OConnorB@mwrld.org)

bcc: Keith Middleton, U.S. EPA Region 5 (middleton.keith@epa.gov)

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May 11, 2021

CERTIFIED MAIL

Mr. Dean Maraldo, Chief
Water Enforcement and Compliance Assurance
Branch
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77 West Jackson Boulevard
Chicago, Illinois 60604

Mr. Jay Patel, Manager
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Chief, Environmental Enforcement Section
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Mr. Roger Callaway, Manager
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Mr. Stephen Sylvester
Assistant Attorney General
Environmental Bureau
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69 West Washington Street, Suite 1800
Chicago, Illinois 60602

Dear Mr. Maraldo, et al:

By letter dated November 5, 2018, the Metropolitan Water Reclamation District of Greater Chicago (District) timely submitted the Post-Construction Monitoring Report for the Mainstream/Lower Des Plaines TARP System (MSLDP PCMP), as required and in compliance with the District's Consent Decree entered on January 6, 2014. Thereafter, District staff and USEPA staff have had a series of discussions on questions, clarifications, and corrections to the MSLDP PCMP. Some of these discussions were delayed by Governor Pritzker's Disaster Declaration and corresponding Stay-at-Home directive, requiring many of us to immediately transition to working from home beginning in March 2020.

Attached please find a final draft of the MSLDP PCMP. Thank you for your attention to this matter.

Sincerely,



Brian A. Perkovich

STM:BO'C:nl

Enclosure

cc: E. Podczerwinski, Monitoring and Research Department
S. Morakalis, Law Department
J. Murray, Maintenance and Operations Department

Post Construction Monitoring Plan for MSLDP TARP System

Background

Portions of the Mainstream/Lower Des Plaines (MSLDP) tunnel system began operation in 1985 and the entire system was completed in 1999. The design storage capacity of the MSLDP tunnel system is approximately 1600 million gallons. Stage 1 of the McCook Reservoir is at the downstream end of the MSLDP TARP System and measures approximately 3000 feet in length by a width that varies from 500-1000 feet with a maximum water depth of 255 feet. Stage 1 has a total capacity of 3.5 billion gallons and was operational starting January 1, 2018. Stage 2 of the reservoir is scheduled to be fully operational by December 31, 2030 and will bring the total capacity of the McCook Reservoir to 10 billion gallons.

The Chicago and Des Plaines River Systems are made up of natural and man-made channels as well as natural waterways upstream of the Chicago Area Waterway System (CAWS). The Chicago Sanitary and Ship Canal (CSSC) extends upstream from its junction with the Des Plaines River at Lockport, Illinois for 33.9 miles to the South Branch of the Chicago River (SBCR). The SBCR extends upstream 4.5 miles, to its intersection with the main stem of the Chicago River, which extends upstream 1.5 miles to Lake Michigan; and the North Branch of the Chicago River (NBCR), which extends 8.7 miles upstream to its intersection with the North Shore Channel (NSC). The South Fork of the South Branch extends 1.3 miles to its intersection with the SBCR. The NSC extends upstream 7.7 miles to Lake Michigan. The West Fork of the NBCR extends 14 miles upstream from its junction with the NBCR. The Des Plaines River (DPR) extends upstream from its junction with the CSSC approximately 60 miles upstream into Lake County ([Figure 1](#)). Salt Creek extends upstream from its junction with the DPR 43 miles; Addison Creek extends upstream 10.7 miles from its junction with Salt Creek.

Reaches of the Chicago and Des Plaines River Systems with combined sewer overflows (CSOs) include the Chicago Sanitary & Ship Canal (30 outfalls), the South Branch of the Chicago River (42 outfalls), the South Fork of the South Branch of the Chicago River (9 outfalls, including the Racine Avenue Pump Station), the Chicago River (17 outfalls); the North Branch of the Chicago River (86 outfalls, including the North Branch Pump Station), the West Fork of the NBCR (1 outfall); the North Shore Channel (48 outfalls), the Des Plaines River (64 outfalls), Salt Creek (17 outfalls), Addison Creek (1 outfall, the Westchester Pump Station). [Appendix A](#) is a detailed list of CSOs, including outfall number, TARP connection ID, ownership, and monitoring status.

Objectives

One of the requirements of the Metropolitan Water Reclamation District of Greater Chicago (MWRD) Consent Decree is that a Post Construction Monitoring Plan (PCMP) shall be developed which includes, “in stream water quality monitoring relating to applicable water quality standards,” and “determination of whether MWRD’s CSOs are in compliance with the then-

effective Stickney and Terrence J. O'Brien Water Reclamation Plants' (WRP) National Pollutant Discharge Elimination System (NPDES) Permits, including applicable water quality standards incorporated therein." The District's Maintenance and Operations (M&O) Department will be responsible for tracking the frequency, duration, and volume of CSOs within the Chicago and Des Plaines River Systems and the District's Monitoring and Research Department (M&R) will be responsible for implementing the water quality monitoring component of the PCMP. M&R will conduct monitoring in the Chicago and Des Plaines River Systems in 2031 and 2032 (January 1, 2031 through December 31, 2032), following completion of the MSLDP TARP System's McCook Reservoir Stage 2, scheduled for completion by December 31, 2029 and full operation by December 31, 2030. MWRD will compare the 2031 – 2032 post-completion data under wet and dry weather conditions to water quality standards to assess the effectiveness of TARP. In addition, MWRD will compare ambient water quality monitoring data collected prior to 1985, before any portion of the MSLDP TARP system was on-line, and 2016 – 2017 monitoring data, before McCook Reservoir Stage 1 was on-line, to post-completion ambient water quality data collected in 2031 and 2032, to assess overall improvements due to MSLDP TARP System.

The District will conduct ambient water quality monitoring, continuous dissolved oxygen monitoring, and wet weather water quality monitoring during 2031 and 2032 to document water quality under various weather conditions in the Chicago and Des Plaines River Systems following the completion of the MSLDP TARP System's McCook Reservoir. By June 30, 2033, a report will be submitted summarizing and analyzing CSO frequency, duration, and volume, as well as water quality data generated during the post construction monitoring period.

CSO Monitoring

The MWRD shall utilize its approved and most recently revised version of the CSO Representative Monitoring and Reporting Plan for the Stickney and North areas to track the frequency, duration, and volume of individual CSOs within the Chicago and Des Plaines River Systems (Appendix B). In summary, the District has tide gate monitors installed on 151 of the 319 total outfalls. Unmonitored outfalls are assumed to discharge when select monitored ones discharge because of similar invert elevations. Signals are transmitted to the Stickney WRP when the tide gate is open and assumed to be discharging. These signals are verified by plant staff and then volume estimates are performed via a conservative method which assumes that all rainfall that falls in the respective watershed during the period that a tide gate is open, is being discharged to the waterway. These discharge volumes are then compared to two boundary conditions: (1) total area rainfall volume and (2) outfall pipe capacity. The minimum of these three values is used as the final discharge volume.

Per the Stickney and O'Brien WRP NPDES permits, all individual CSO discharges resulting from the same storm shall be reported as one CSO event. MWRD compiles the above detailed individual CSO information in order to obtain an annual number of CSO events per

waterway reach. [Appendix C](#) contains an example of the summary CSO report by reach from 2019.

Water Quality Monitoring

Ambient Water Quality Monitoring

[Table 1](#) shows the ambient water quality monitoring (AWQM) stations on the Chicago and Des Plaines River Systems that will be used to assess the overall impact of MSLDP TARP System completion. A map of these stations is presented in [Figure 1](#). AWQM will be conducted on a monthly basis in the Chicago and Des Plaines River Watersheds on the first three Mondays of each month. Alternative stations may be considered and submitted to EPA and IEPA for approval pursuant to Section X (Approval of Deliverables) of the Consent Decree, if altered bridge conditions prior to the post-construction monitoring period preclude safe sampling. Upon approval, MWRD shall incorporate the changes and send the revised PCMP to EPA and IEPA to replace the previously approved PCMP.

Table 1: AWQM locations that will be assessed in MSLDP TARP System monitoring

Location	Station No.	Waterway	GPS Coordinates	
Loomis Street	108	South Branch Chicago River ¹	41° 50' 45.24"	-87° 39' 38.31"
18 th Street	115	South Branch Chicago River ¹	41° 51' 28.0"	-87° 38' 06.5"
Archer Avenue	99	Bubbly Creek ²	41° 50' 18.78"	-87° 39' 50.34"
Cicero Avenue ³	75	Chicago Sanitary and Ship Canal ¹	41° 49' 10.47"	-87° 44' 35.93"
Harlem Avenue ³	41	Chicago Sanitary and Ship Canal ¹	41° 48' 04.36"	-87° 48' 06.80"
Route 83 ³	42	Chicago Sanitary and Ship Canal ¹	41° 42' 07.37"	-87° 56' 23.65"
Ogden Avenue	22	Des Plaines River ²	41° 49' 15.36"	-87° 48' 39.24"
Willow Springs Rd.	23	Des Plaines River ²	41° 44' 08.31"	-87° 52' 53.32"

¹Southern Chicago River System

²Des Plaines River System

³Indicates sampling by boat; MWRD may sample 108 and 99 by boat during certain circumstances

Monitoring activities will be conducted in accordance with Revision 2.5 of the District's Ambient Water Quality Monitoring Quality Assurance Project Plan (QAPP), effective April 1, 2019 ([Appendix D](#)), or the most recent QAPP revision at the time sampling commences. The MWRD will provide the updated QAPP when it is finalized and effective. Locations listed in this

Plan override those listed in the QAPP for the purposes of MSLDP TARP System Post Construction Monitoring.

In order to assess effects of CSOs on the Chicago and Des Plaines River Watershed after the McCook Reservoir Stage 2 is on-line, the constituents listed in Table 2 will be analyzed. The rationale for inclusion of these constituents is also shown in Table 2.

Table 2: Constituents to be Analyzed in Post Construction Monitoring Plan

Water Quality Constituent (Analytical Method)	Rationale for Inclusion
Dissolved oxygen (SM 4500-O C)	Current designated use impairment in one or more receiving waterbodies
Ammonia (EPA 350.1)	Commonly present in combined sewage
Total Suspended Solids (SM2540 D)	Commonly present in combined sewage
Total Dissolved Solids (SM2530 C)	Current designated use impairment in one or more receiving waterbodies
Fecal Coliform (Colilert-18) ¹	Current designated use impairment in one or more receiving waterbodies
	Commonly present in combined sewage
<i>Escherichia coli</i> (SM9223 B) ²	Illinois bacterial water quality standard may change to <i>E. coli</i> by the post construction monitoring period
	Commonly present in combined sewage
Five-day Biochemical Oxygen Demand (SM 5210 B)	Commonly present in combined sewage

¹MWRD will analyze fecal coliform at each AWQM location for the duration of the sampling period to compare with pre-construction conditions, even if another bacterial constituent replaces the current fecal coliform state water quality standard.

²MWRD will only analyze *E. Coli* or another bacterial constituent if the State of Illinois has replaced the fecal coliform water quality standard. In this event, MWRD will perform a study to establish a relationship between the new bacterial water quality constituent and fecal coliform to facilitate comparing bacterial data collected before and after the applicable standard was changed. In order to establish this relationship, MWRD will analyze samples collected during dry-weather and wet-weather without CSOs during the post construction monitoring period from the locations identified in Table 1 and analyze samples for both fecal coliform and the new bacterial water quality standard constituent. If MWRD performs such a study, it will include the study in the Mainstream/Lower Des Plaines TARP System Post Construction Monitoring Report.

Wet Weather Sampling

In addition to the monthly sampling in the AWQM Program, water quality sampling will be conducted during various wet weather conditions at each of the eight sampling locations listed on Table 1, in the Chicago and Des Plaines River Systems. Due to the wide geographic distance covered by the McCook Reservoir, wet weather sampling events will be divided into two watersheds: The southern Chicago River System and Des Plaines River System.

Constituents listed in Table 2 will be measured during the conditions listed in items 1, 2 and 3 below.

The USEPA CSO Post Construction Compliance Monitoring guidance document (2012) prescribes wet weather sampling to evaluate receiving water impacts under a range of weather conditions. To achieve this, MWRD will capture five events for each of the following conditions during 2031 and 2032:

1. Dry weather (<0.1 inch precipitation). Dry weather will be defined by antecedent dry conditions for 2 days following a 0.25-0.49 inch event, 4 days following a 0.50-0.99 inch event, and 6 days following a >1.0 inch event (from wet weather limited use analysis done during Chicago Area Waterway System Use Attainability Analysis).
2. Wet weather without CSOs (>0.5 inch precipitation). Water sampling shall occur within 12 hours of the end of the rain event.
3. Wet weather with CSOs, to the extent such events occur, shall be sampled as soon as possible after the conclusion of the precipitation event but no later than 12 hours from the end of the precipitation event, from 7:30 am to 7:30 pm, seven days a week, or as soon as safe sampling conditions resume. MWRD shall sample at the eight locations listed on Table 1, substituting any alternate locations approved by EPA and IEPA, as applicable, with prioritization given to AWQM locations within the South Branch of the Chicago River and Bubbly Creek to be sampled first, if possible. In the MSLDP TARP System Final Post Construction Monitoring Report submitted pursuant to Consent Decree Paragraph 36, MWRD will document any instances of delayed sampling, including the reason sampling was delayed, the impacted sampling locations and the length of the delay.

For either scenario one or two above, if MWRD obtains fewer than five events during 2031 – 2032, then AWQM and CDOM sampling will continue until five events are captured for all locations listed in Table 1.

In the Mainstream TARP System Final Post-Construction Monitoring Report, MWRD shall include the following information for each wet weather sampling event with CSO(s):

1. The time when the precipitation event started;

2. The amount of precipitation that occurred at each rain gauge identified in Figure 1 of the Post Construction Monitoring Plan for MSLDP TARP System;
3. The time when the precipitation event stopped;
4. The time when MWRD conducted the in-stream sampling at each AWQM sampling location;
5. The time when any upstream CSO(s) began discharging (if applicable);
6. The time when any upstream CSO(s) stopped discharging (if applicable);
7. A table showing that the wet weather with CSO sampling timeframe of a 12-hour period from the end of the rain event was met; and
8. If the 12-hour timeframe was not met, MWRD will provide the reason and justification for the delay.

Average rainfall data from United States Geological Survey (USGS) (<https://waterdata.usgs.gov/il/nwis/current/?type=precip>) and MWRD (<https://gispub.mwrld.org/raingaugeviewer/>) rain gauges, shown in Figure 1, will be used to determine that the above conditions have been met. United States Geological Survey rain gauge stations 415155087451901, 415118087381201, and 414529087460501; and MWRD's gauge at 87th and Western Avenue, in Chicago, Illinois, will be used to calculate the average rainfall for the southern Chicago River System. USGS gauges 415755087525300, 415537087525801, 415057087524801, and 414454087533201 will be used to calculate the average rainfall for the Des Plaines River System. Although rain gauge locations have been designated above, gauge locations will be re-evaluated six months prior to the first year of post-construction monitoring, to account for the activation of new and discontinuation of previously designated locations. If MWRD changes any of the rain gauge locations based on that re-evaluation, MWRD shall submit the revised rain gauge locations to EPA and IEPA for approval pursuant to Section X (Approval of Deliverables) of the Consent Decree. Upon approval, MWRD shall incorporate the changes and send the revised PCMP to EPA and IEPA to replace the previously approved PCMP.

M&R staff will work closely with M&O staff to predict potential wet weather sampling events. The M&O dispatcher will notify M&R staff when wet weather events are forecast for the Stickney and/or North areas. M&R staff will consult with M&O staff at Stickney and O'Brien WRPs to confirm the above wet weather criteria have been met. As soon as monitoring of a wet

weather event is scheduled, lab managers should be notified (see notification flow chart in [Figure 3](#)).

The AWQM and wet weather sampling locations are representative of water quality in the various waterbody reaches receiving CSO flow. [Figure 2](#) displays CSO locations in the Chicago and Des Plaines River Systems.

Continuous Dissolved Oxygen Monitoring

M&R will also collect hourly DO data from MWRD’s Continuous Dissolved Oxygen Monitoring (CDOM) program for use in assessing waterway compliance and impact of CSOs on the Chicago and Des Plaines River Systems.

[Table 3](#) shows the 13 CDOM locations on the Chicago and Des Plaines River Systems that will be used to assess the impact of the MSLDP TARP System completion. These stations are also indicated on [Figure 1](#). Alternative stations may be considered and submitted to EPA and IEPA for approval pursuant to Section X of the Consent Decree, if altered bridge or waterway conditions prior to the post construction monitoring period preclude safe access to monitor housings. These station locations will allow MWRD to compare in-stream DO concentrations to applicable water quality standards in waterway reaches receiving CSO flow. If DO concentrations decrease below the water quality standard following CSO discharges into the Chicago and Des Plaines River Systems, continuous DO data will be included in the Post Construction Monitoring Report for the period until DO increases to above the water quality standard. If DO does not decrease below the water quality standard following CSO discharge, then 7 days of continuous DO data will be included in the report.

Table 3: CDOM locations that will be assessed in MSLDP TARP System monitoring

Location	Waterway	GPS Coordinates	
Church Street	North Shore Channel ¹	42° 2' 53.40"	-87° 42' 35.00"
Foster Avenue	North Shore Channel ¹	41° 58' 33.17"	-87° 42' 17.46"
Foster Avenue	North Branch Chicago River ¹	41° 58' 23.67"	-87° 43' 05.84"
Addison Street	North Branch Chicago River ¹	41° 56' 48.42"	-87° 41' 46.82"
Division Street	North Branch Chicago River ¹	41° 54' 13.02"	-87° 39' 26.15"
Michigan Avenue	Chicago River ²	41° 53' 16.05"	-87° 37' 50.76"
Taylor Street ³	South Branch Chicago River ²	41° 52' 11.7"	-87° 38' 07.5"
Loomis Street	South Branch Chicago River ²	41° 50' 46.05"	-87° 39' 38.40"
Interstate 55	Bubbly Creek ²	41° 50' 22.44"	-87° 39' 52.87"
36 th Street	Bubbly Creek ²	41° 49' 44.85"	-87° 39' 28.41"
Cicero Avenue	Chicago Sanitary and Ship Canal ²	41° 49' 11.16"	-87° 44' 35.64"

B&O Railroad	Chicago Sanitary and Ship Canal ²	41° 46' 59.70"	-87° 49' 33.89"
Willow Springs Road ⁴	Chicago Sanitary and Ship Canal ²	41° 44' 25.90"	-87° 52' 20.40"
Irving Park Road	Des Plaines River ⁵	41° 57' 11.37"	-87° 51' 14.91"
Ogden Avenue	Des Plaines River ⁵	41° 49' 15.00"	-87° 48' 37.86"
Wolf Road	Salt Creek ⁵	41° 49' 33.24"	-87° 54' 01.41"

¹Northern Chicago River System

²Southern Chicago River System

³The District may present information prior to the start of the post construction monitoring period (2031) that indicates CDOM is not essential at this location. If agreed upon by EPA and IEPA, the Plan will be revised to exclude this station.

⁴Willow Springs Road is an approximate location for a new monitoring location for the post construction monitoring period that is downstream of all Mainstream TARP CSO outfalls. The bridge at Willow Springs Road is not suitable for a monitor housing, but a housing may be constructed on the channel wall in this reach after appropriate permits are in place.

⁵Des Plaines River System

Continuous DO monitoring activities will be conducted in accordance with Revision 2.1 of the District’s Continuous Dissolved Oxygen Monitoring Program QAPP, effective July 1, 2016 (Appendix E), or the most recent QAPP revision at the time sampling commences. The MWRD will provide the updated QAPP to EPA and IEPA when it is finalized and becomes effective. Locations listed in this Plan override those listed in the QAPP for the purposes of MSLDP TARP System Post Construction Monitoring.

If, after reissuance or modification and final ruling on any appeal, the CSO-related requirements of MWRD’s Stickney or O’Brien NPDES permits change, then the District will comply with those new requirements. Additionally, if such change occurs during the time period following EPA’s approval of this PCMP and at least six months before MWRD is required to begin implementing the PCMP, then MWRD shall revise the PCMP to include any additional sampling or monitoring and to address any then effective CSO-related requirements not addressed in the PCMP as approved by EPA. No later than three months prior to the time at which MWRD must begin implementation of the PCMP, MWRD shall submit any such new or modified provisions to the PCMP to EPA and IEPA for approval in accordance with Paragraph 35(c) and Section X (Approval of Deliverables) of the Consent Decree. Upon approval, MWRD shall incorporate the changes and send the revised PCMP to EPA and IEPA to replace the previously approved PCMP.

Deliverables

After it is approved, MWRD will conduct monitoring in accordance with this PCMP and complete such monitoring by December 31, 2032. The Post Construction Monitoring Report for the MSLDP TARP System will be submitted to EPA and Illinois EPA by June 30, 2033. The report will detail receiving water impacts and effectiveness of CSO controls and otherwise meet the requirements of Section IX of the Consent Decree.

Reference

United States Environmental Protection Agency. EPA-833-K-11-001. *CSO Post Construction Compliance Monitoring Guidance*. May, 2012.

Figure 1: Ambient Water Quality, Continuous Dissolved Oxygen Monitoring Stations and Precipitation Gauges for MSLDP TARP Post Construction Monitoring.



Figure 2: Map of MSLDP Area Combined Sewer Overflow Outfalls

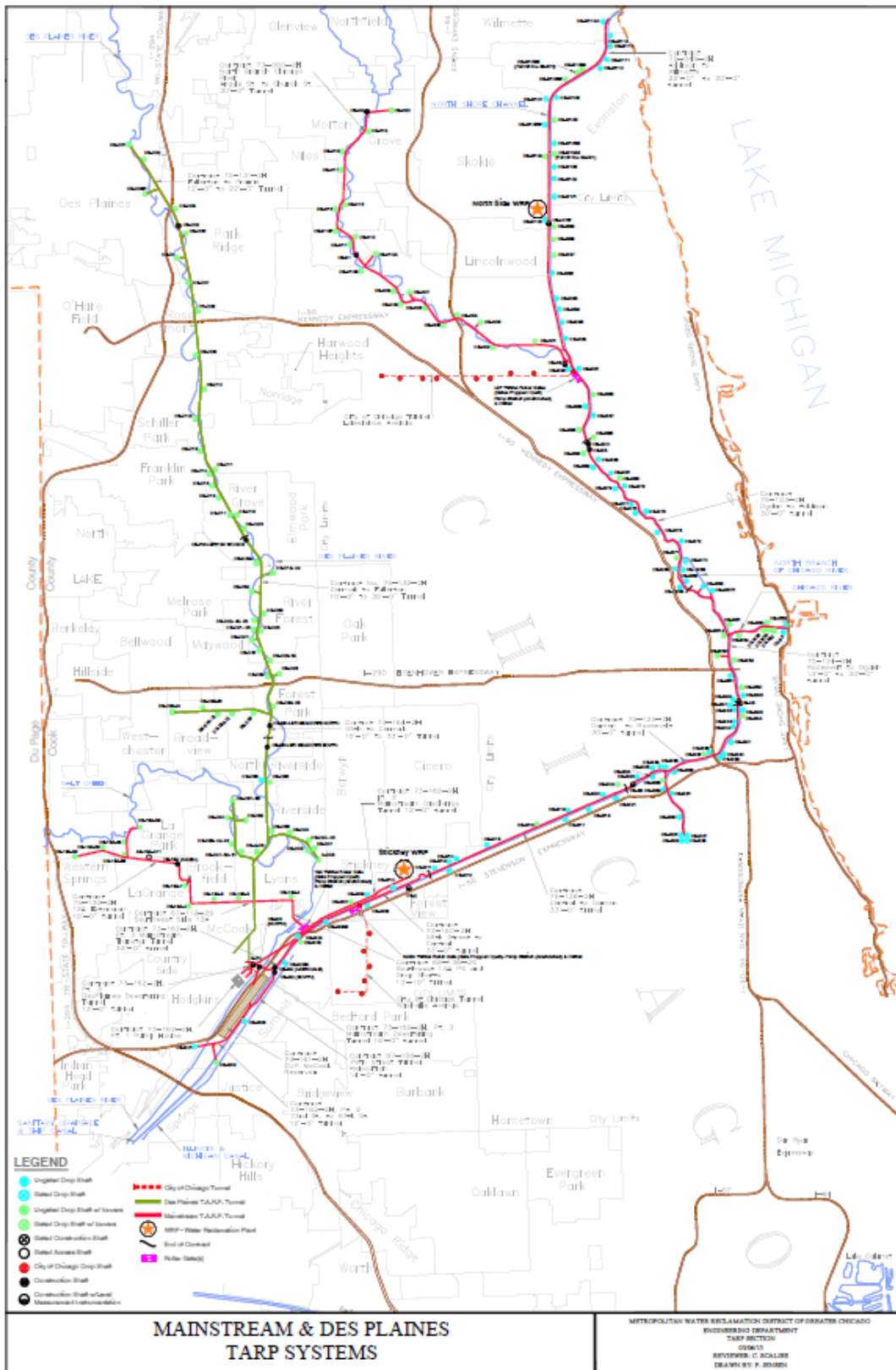
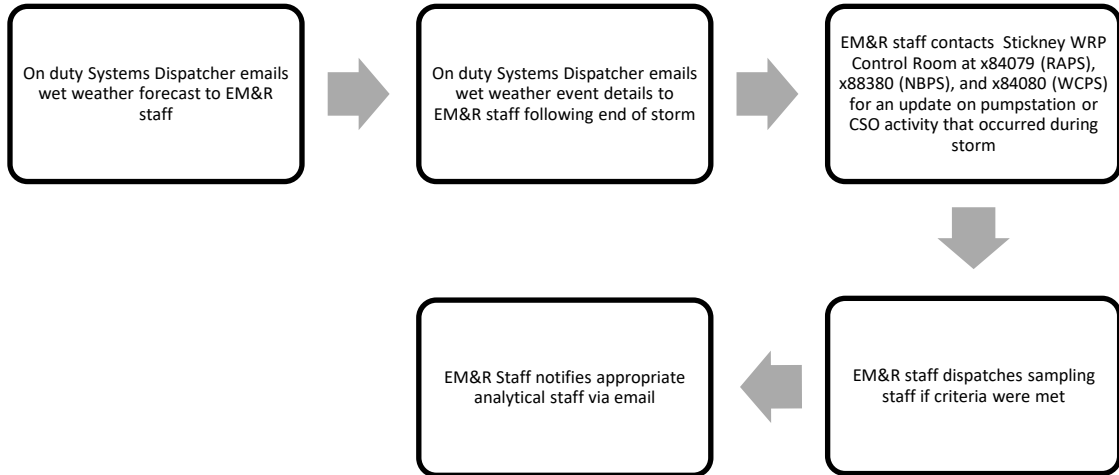


Figure 3: Notification flow chart for MSLDP TARP post construction wet weather event sampling



Appendix A

MWRD McCook PCMP CSO List

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
M	CG172	172	Chicago	TG-M22	Chicago Sanitary and Ship Canal
M	CG173	173	Chicago	DS-M21	Chicago Sanitary and Ship Canal
M	CG174	174	Chicago	DS-M20	Chicago Sanitary and Ship Canal
M	CG176	176	Chicago	DS-M19	Chicago Sanitary and Ship Canal
U	CG180	179	Chicago	DS-M18	Chicago Sanitary and Ship Canal
M	CG180	180	Chicago	DS-M17	Chicago Sanitary and Ship Canal
U	CG184	181	Chicago	I-10	Chicago Sanitary and Ship Canal
M	CG182	182	Chicago	TG-M16	Chicago Sanitary and Ship Canal
M	CG183	183	Chicago	TG-I9	Chicago Sanitary and Ship Canal
M	CG184	184	Chicago	TG-I8	Chicago Sanitary and Ship Canal
M	CG185	185	Chicago	DS-M15	Chicago Sanitary and Ship Canal
M	CG186	186	Chicago	TG-I5	Chicago Sanitary and Ship Canal
M	CG187	187	Chicago	DS-M12	Chicago Sanitary and Ship Canal
M	MWRD143	143	MWRD	DS-M13	Chicago Sanitary and Ship Canal
M	MWRD003	003	MWRD	DS-M11	Chicago Sanitary and Ship Canal
M	MWRD144	144	MWRD	DS-M10	Chicago Sanitary and Ship Canal
M	ST001	001	Stickney	DS-M09	Chicago Sanitary and Ship Canal
M	MWRD145	145	MWRD	DS-M09	Chicago Sanitary and Ship Canal
M	CG188	188	Chicago	DS-M08	Chicago Sanitary and Ship Canal
M	CG189	189	Chicago	TG-NASH	Chicago Sanitary and Ship Canal
U	CG189	001	Forest View	DS-M07	Chicago Sanitary and Ship Canal
U	MWRD146	001	Summit	DS-M5B	Chicago Sanitary and Ship Canal
M	MWRD146	146	MWRD	TG-13A	Chicago Sanitary and Ship Canal
M	SU002	002	Summit	TG-M05	Chicago Sanitary and Ship Canal
U	MWRD147	003	Summit	Indirect (DS-M03)	Chicago Sanitary and Ship Canal
M	MWRD147	147	MWRD	DS-M03	Chicago Sanitary and Ship Canal
U	MWRD147	148	MWRD	DS-M01	Chicago Sanitary and Ship Canal
U	MWRD147	149	MWRD	DS-M02	Chicago Sanitary and Ship Canal
M	MWRD002	002	MWRD	None	Chicago Sanitary and Ship Canal
U		003	Lemont	None	Chicago Sanitary and Ship Canal
M	MWRD101	101	MWRD	DS-M114N	North Shore Channel
M	WM001	001	Wilmette	DS-M114N-2	North Shore Channel
U	MWRD101	002	Wilmette	DS-M113	North Shore Channel
U	MWRD102	003	Evanston	I-109	North Shore Channel
U	MWRD102	004	Evanston	DS-M110	North Shore Channel
M	MWRD102	102	MWRD	DS-M109N	North Shore Channel
U	MWRD102	NP	Evanston	I-108	North Shore Channel
M	EVA04	A04	Evanston	DS-M109S	North Shore Channel

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
U	EVA07 (DS-M107-2)	005	Evanston	DS-M106W	North Shore Channel
M	EVA07	A07	Evanston	DS-M107-2	North Shore Channel
U	SK003 (DS-M107-1)	103	MWRD	DS-M108	North Shore Channel
U	SK003 (DS-M107-1)	006	Evanston	DS-M107-2	North Shore Channel
U	SK003 (DS-M107-1)	A06	Evanston	DS-M108	North Shore Channel
M	SK003	003	Skokie	DS-M107-1	North Shore Channel
U	SK002 (DS-M105W)	004	Skokie	I-104	North Shore Channel
U	SK002 (DS-M105W)	A08	Evanston	DS-M106E	North Shore Channel
M	MWRD104	104	MWRD	DS-M106E	North Shore Channel
M	SK002	002	Skokie	DS-M105W	North Shore Channel
M	EV009	009	Evanston	TG-M105E	North Shore Channel
M	SK005 (DS-M104W)	005	Skokie	DS-M104W	North Shore Channel
M	EV010	010	Evanston	DS-M104E	North Shore Channel
U	EV010	A10	Evanston	DS-M104E	North Shore Channel
U	SK005 (DS-M104W)	011	Evanston	DS-M103	North Shore Channel
U	SK005 (DS-M104W)	110	MWRD	I-102	North Shore Channel
U	SK005 (DS-M104W)	012	Evanston	DS-M102	North Shore Channel
U	EVA13	013	Evanston	DS-M101	North Shore Channel
M	EVA13	A13	Evanston	DS-M101	North Shore Channel
M	MWRD105	105	MWRD	DS-M100	North Shore Channel
U	EV010	001	Skokie	I-99	North Shore Channel
U	EV010	039	Chicago	DS-M99	North Shore Channel
U	CG002	001	Chicago	DS-M98	North Shore Channel
U	CG003	106 / 001	MWRD / Lincolnwood	I-97	North Shore Channel
M	CG002	002	Chicago	DS-M97	North Shore Channel
U	CG003	002	Lincolnwood	I-96	North Shore Channel
M	CG003	003	Chicago	DS-M97	North Shore Channel
U	CG003	004	Chicago	I-95	North Shore Channel
U	CG002	005	Chicago	DS-M96	North Shore Channel
U	CG010	006	Chicago	DS-M95	North Shore Channel
U	CG010	007	Chicago	I-94	North Shore Channel
U	CG010	008	Chicago	I-93	North Shore Channel
U	CG010	009	Chicago	I-92	North Shore Channel
M	CG010	010	Chicago	TG-M94	North Shore Channel
U	CG010	011	Chicago	DS-M93	North Shore Channel
U	CG010	012	Chicago	I-91	North Shore Channel
U	CG010	038	Chicago	I-116	North Shore Channel
U	CG010	233	Chicago	DS-M92	North Shore Channel
U	CG010	014	Chicago	I-89	North Shore Channel

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
U	EV010	NP	Skokie	DS-M100	North Shore Channel
U	CG106	104	Chicago	DS-M59	Chicago River
U	CG106	105	Chicago	DS-M60	Chicago River
M	CG106	106	Chicago	TG-M60	Chicago River
M	CG107	107	Chicago	DS-M55	Chicago River
U	CG107	109	Chicago	I-59	Chicago River
U	CG107	114	Chicago	I-53	Chicago River
U	CG107	110	Chicago	I-58	Chicago River
U	CG107	111	Chicago	I-56	Chicago River
U	CG107	112	Chicago	I-55	Chicago River
U	CG107	113	Chicago	I-54	Chicago River
U	CG107	115	Chicago	I-52	Chicago River
U	CG107	116	Chicago	I-51	Chicago River
U	CG107	117	Chicago	I-49 & I-50	Chicago River
U	CG107	118	Chicago	I-48	Chicago River
U	CG107	119	Chicago	I-47A & I-47B	Chicago River
U	CG107	120	Chicago	I-46	Chicago River
M	CG121	121	Chicago	DS-M54	Chicago River
U	MG002	001	Golf	Indirect (DS-N20)	West Fork- North Branch of the Chicago River
U	MG002	001	Morton Grove	DS-N20	North Branch of the Chicago River
M	MG002	002	Morton Grove	DS-N19	North Branch of the Chicago River
M	NI001	001	Niles	DS-N18	North Branch of the Chicago River
M	NI002	002	Niles	DS-N17	North Branch of the Chicago River
M	NI003	003	Niles	DS-N16	North Branch of the Chicago River
U	NI003	NP	Niles	Indirect (DS-N16)	North Branch of the Chicago River
U	NI003	NP	Chicago / Niles	DS-N15	North Branch of the Chicago River
U	NI003	006	Niles	DS-N15	North Branch of the Chicago River
U	NI003	007	Niles	DS-N15	North Branch of the Chicago River
M	CG236	008 / 236	Niles / Chicago	DS-N13R	North Branch of the Chicago River
M	NI010	010	Niles	DS-N12	North Branch of the Chicago River
M	NI090	009	Niles	DS-N11	North Branch of the Chicago River
M	CG017	017	Chicago	DS-N10B	North Branch of the Chicago River
M	CG016	016	Chicago	DS-N10A	North Branch of the Chicago River
M	CG018	018	Chicago	DS-N09	North Branch of the Chicago River
U	CG020	019	Chicago	DS-N08	North Branch of the Chicago River
M	CG020	020	Chicago	DS-N08	North Branch of the Chicago River
M	CG021	021	Chicago	DS-N07	North Branch of the Chicago River

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
M	CG234	234	Chicago	DS-N06	North Branch of the Chicago River
M	CG024	024	Chicago	DS-N05	North Branch of the Chicago River
U	CG026	023	Chicago	Indirect (DS-N04)	North Branch of the Chicago River
M	CG026	026	Chicago	DS-N04	North Branch of the Chicago River
M	CG029	029	Chicago	DS-N03	North Branch of the Chicago River
M	CG030	030	Chicago	DS-N02	North Branch of the Chicago River
U	CG030	235	Chicago	DS-N01	North Branch of the Chicago River
U	CG042	040	Chicago	I-88	North Branch of the Chicago River
U	CG042	035	Chicago	I-88	North Branch of the Chicago River
M	CG042	042	Chicago	DS-LAT	North Branch of the Chicago River
M	MWRD107	107	MWRD	DS-M90 & DS-M91 (NBPS)	North Branch of the Chicago River
U	CG042	041	Chicago	I-87	North Branch of the Chicago River
U	MWRD107	043	Chicago	I-86	North Branch of the Chicago River
U	CG042	044	Chicago	I-85	North Branch of the Chicago River
U	MWRD107	046	Chicago	I-82	North Branch of the Chicago River
U	MWRD107	047	Chicago	I-83	North Branch of the Chicago River
U	CG057	048	Chicago	I-81	North Branch of the Chicago River
U	CG057	049	Chicago	I-80	North Branch of the Chicago River
U	CG057	050	Chicago	I-79A	North Branch of the Chicago River
U	CG057	051	Chicago	DS-M89	North Branch of the Chicago River
U	CG057	052	Chicago	I-78	North Branch of the Chicago River
M	CG057	057	Chicago	DS-M88	North Branch of the Chicago River
U	CG057	058	Chicago	DS-M87	North Branch of the Chicago River
U	CG057	059	Chicago	I-77	North Branch of the Chicago River
U	CG231	060	Chicago	Indirect (DS-M90)	North Branch of the Chicago River
M	CG231	231	Chicago	DS-M86	North Branch of the Chicago River
U	CG061	062	Chicago	I-76	North Branch of the Chicago River
M	CG061	061	Chicago	DS-M85	North Branch of the Chicago River
M	CG063	063	Chicago	DS-M84	North Branch of the Chicago River
M	CG238	238	Chicago	DS-M83	North Branch of the Chicago River
M	CG064	064	Chicago	DS-M82	North Branch of the Chicago River
M	CG065	065	Chicago	TG-M81	North Branch of the Chicago River
M	CG067	067	Chicago	DS-M80	North Branch of the Chicago River
M	CG068	068	Chicago	DS-M79	North Branch of the Chicago River
U	CG070	069	Chicago	DS-M78	North Branch of the Chicago River
M	CG070	070	Chicago	DS-M79	North Branch of the Chicago River
U	CG073	072	Chicago	DS-M77	North Branch of the Chicago River
M	CG073	073	Chicago	DS-M76	North Branch of the Chicago River
M	CG074	074	Chicago	DS-M75	North Branch of the Chicago River

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
U	CG077	075	Chicago	I-75	North Branch of the Chicago River
U	CG077	076	Chicago	I-75	North Branch of the Chicago River
M	CG077	077	Chicago	DS-M73	North Branch of the Chicago River
U	CG077	078	Chicago	I-74	North Branch of the Chicago River
U	CG077	079	Chicago	I-73	North Branch of the Chicago River
U	CG077	080	Chicago	I-72	North Branch of the Chicago River
U	CG082	081	Chicago	DS-M72	North Branch of the Chicago River
M	CG082	082	Chicago	TG-M71	North Branch of the Chicago River
M	CG083	083	Chicago	DS-M70	North Branch of the Chicago River
M	CG084	084	Chicago	DS-M66	North Branch of the Chicago River
U	CG084	085	Chicago	DS-M69	North Branch of the Chicago River
U	CG083	086	Chicago	I-71	North Branch of the Chicago River
U	CG084	087	Chicago	I-70	North Branch of the Chicago River
U	CG092	088	Chicago	DS-M65	North Branch of the Chicago River
U	CG092	090	Chicago	DS-M67R	North Branch of the Chicago River
U	CG092	091	Chicago	I-68B	North Branch of the Chicago River
M	CG092	092	Chicago	DS-M64	North Branch of the Chicago River
U	CG092	093	Chicago	DS-M64	North Branch of the Chicago River
U	CG092	230	Chicago	DS-M67R	North Branch of the Chicago River
U	CG092	094	Chicago	I-68A	North Branch of the Chicago River
U	CG092	095	Chicago	DS-M63	North Branch of the Chicago River
U	CG092	237	Chicago	I-67	North Branch of the Chicago River
U	CG092	096	Chicago	I-67	North Branch of the Chicago River
U	CG103	097	Chicago	I-66	North Branch of the Chicago River
U	CG103	098	Chicago	I-65(A&B)	North Branch of the Chicago River
U	CG103	099	Chicago	I-64	North Branch of the Chicago River
U	CG103	100	Chicago	I-63	North Branch of the Chicago River
U	CG103	101	Chicago	I-62	North Branch of the Chicago River
M	CG103	103	Chicago	DS-M61A	North Branch of the Chicago River
U	CG129	123	Chicago	I-44 & I-45	South Branch of the Chicago River
U	CG129	124	Chicago	I-44	South Branch of the Chicago River
M	CG125	125	Chicago	Indirect (TG-M53)	South Branch of the Chicago River
U	CG129	126	Chicago	I-42	South Branch of the Chicago River
U	CG129	127	Chicago	I-41	South Branch of the Chicago River
M	CG129	129	Chicago	DS-M52	South Branch of the Chicago River
U	CG129	128	Chicago	I-39	South Branch of the Chicago River
U	CG129	130	Chicago	I-38	South Branch of the Chicago River
U	CG129	131	Chicago	I-35	South Branch of the Chicago River

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
M	CG132	132	Chicago	DS-M51	South Branch of the Chicago River
U	CG132	133	Chicago	I-33	South Branch of the Chicago River
M	CG134	134	Chicago	TG-I32	South Branch of the Chicago River
U	CG134	137	Chicago	DS-M50	South Branch of the Chicago River
M	CG136	136	Chicago	TG-I28 & I29	South Branch of the Chicago River
M	CG138	138	Chicago	DS-M49	South Branch of the Chicago River
M	CG140	140	Chicago	DS-M47	South Branch of the Chicago River
U	CG143	141	Chicago	DS-M46	South Branch of the Chicago River
M	CG143	143	Chicago	DS-M45	South Branch of the Chicago River
U	CG143	144	Chicago	DS-M44	South Branch of the Chicago River
U	CG143	145	Chicago	DS-M43	South Branch of the Chicago River
U	CG143	146	Chicago	I-25	South Branch of the Chicago River
U	CG151	148	Chicago	I-24	South Branch of the Chicago River
U	CG143	147	Chicago	DS-M42	South Branch of the Chicago River
U	CG151	149	Chicago	I-23	South Branch of the Chicago River
M	CG151	151	Chicago	DS-M41	South Branch of the Chicago River
U	CG151	150	Chicago	Indirect (DS-M41)	South Branch of the Chicago River
U	CG151	152	Chicago	I-123	South Branch of the Chicago River
U	CG151	153	Chicago	I-21	South Branch of the Chicago River
M	CG154	154	Chicago	DS-M40	South Branch of the Chicago River
U	CG154	155	Chicago	DS-M39	South Branch of the Chicago River
M	CG156	156	Chicago	DS-M38	South Branch of the Chicago River
U	CG156	157	Chicago	DS-M37	South Branch of the Chicago River
U	CG156	158	Chicago	I-20	South Branch of the Chicago River
U	CG156	159	Chicago	I-19	South Branch of the Chicago River
U	CG156	160	Chicago	I-18	South Branch of the Chicago River
U	CG166	163	Chicago	I-15	South Branch of the Chicago River
U	CG166	165	Chicago	DS-M36	South Branch of the Chicago River
M	CG166	166	Chicago	DS-M35	South Branch of the Chicago River
U	CG166	167	Chicago	DS-M34	South Branch of the Chicago River
M	CG168	168	Chicago	DS-M25	South Branch of the Chicago River
U	CG168	169	Chicago	DS-M23	South Branch of the Chicago River
U	CG168	170	Chicago	DS-M23	South Branch of the Chicago River
U	CG194	190	Chicago	DS-M33	South Fork- South Branch of the Chicago River
U	CG194	191	Chicago	DS-M32	South Fork- South Branch of the Chicago River
U	CG194	192	Chicago	DS-M31	South Fork- South Branch of the Chicago River
U	CG194	193	Chicago	DS-M31	South Fork- South Branch of the Chicago River
U	CG194	195	Chicago	I-119	South Fork- South Branch of the Chicago River

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
M	CG194	194	Chicago	DS-M30	South Fork- South Branch of the Chicago River
U	CG198	196	Chicago	I-117	South Fork- South Branch of the Chicago River
M	CG198	198	Chicago	DS-M26	South Fork- South Branch of the Chicago River
M	MWRD142	142	MWRD	DS-M27,DS-M28,& DS-M29	South Fork- South Branch of the Chicago River
U	DP001	109	MWRD	Indirect (DS-D03R)	Des Plaines River
M	DP001	001	Des Plaines	DS-D01	Des Plaines River
M	PR005	005	Park Ridge	DS-D02	Des Plaines River
U	PR005	003	Des Plaines	DS-D02	Des Plaines River
U	PR005	NP	Methodist Campground	DS-D02	Des Plaines River
U	PR005	002	Des Plaines	DS-D02	Des Plaines River
M	DP005	005	Des Plaines	DS-D03R	Des Plaines River
U	DP005	004	Des Plaines	DS-D03R	Des Plaines River
U		006	Des Plaines	None	Des Plaines River
M	PR002	002	Park Ridge	DS-D05	Des Plaines River
M	PR006	006	Park Ridge	DS-D05	Des Plaines River
M	PR003	003	Park Ridge	DS-D06	Des Plaines River
M	PR007	007	Park Ridge	DS-D06	Des Plaines River
M	MWRD131	131	MWRD	DS-D07	Des Plaines River
M	PR004	004	Park Ridge	DS-D07	Des Plaines River
M	PR008	008	Park Ridge	DS-D07	Des Plaines River
M	MWRD132	132	MWRD	DS-D08	Des Plaines River
M	MWRD133	133	MWRD	DS-D09	Des Plaines River
M	CG226	226	Chicago	DS-D10	Des Plaines River
M	SL001	001	Schiller Park	DS-D12I	Des Plaines River
M	FK001	001	Franklin Park	DS-D13	Des Plaines River
U	FK004	003	Franklin Park	DS-D14	Des Plaines River
M	CG227	227	Chicago	DS-D11	Des Plaines River
M	FK004	004	Franklin Park	DS-D14	Des Plaines River
M	FK002	001 / 002	River Grove / Franklin Park	DS-D15	Des Plaines River
M	RG002	002	River Grove	DS-D16	Des Plaines River
M	RG003	003	River Grove	DS-D17	Des Plaines River
M	RG004	004	River Grove	DS-D17	Des Plaines River
M	RG005	005	River Grove	DS-D18	Des Plaines River
M	RG006	006	River Grove	DS-D20I	Des Plaines River
M	MWRD134	134	MWRD	DS-D19,23	Des Plaines River
M	MP001	001	Melrose Park	DS-D52	Des Plaines River
M	MW002	001	Maywood	DS-D22,24,25	Des Plaines River
M	MW002	002	Maywood	DS-D22,24,25	Des Plaines River

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
M	MW NP (DS-D22, 24, 25)	NP	Maywood	DS-D22,24,25	Des Plaines River
M	MWRD135	135	MWRD	DS-D63	Des Plaines River
M	MW NP (DS-D21,25)	NP	Maywood	DS-D21,25	Des Plaines River
M	RF003	003	River Forest	DS-D26	Des Plaines River
M	MW NP (DS-D21, 25)	NP	Melrose Park	DS-D21,25	Des Plaines River
M	MW003	003	Maywood	DS-D21,25	Des Plaines River
M	MW NP (DS-D27I)	NP	Maywood	DS-D27I	Des Plaines River
M	MW004	004	Maywood	DS-D27I	Des Plaines River
M	MW005	005	Maywood	DS-D27I	Des Plaines River
M	MW NP (DS-D31)	NP	Maywood	DS-D31	Des Plaines River
M	MW006	006	Maywood	DS-D31	Des Plaines River
M	RF004	004	River Forest	DS-D29,64	Des Plaines River
M	MW007	007	Maywood	DS-D32	Des Plaines River
M	FP002	002	Forest Park	DS-D28	Des Plaines River
M	FP001	001	Forest Park	DS-D30,28	Des Plaines River
U	MW008	136	MWRD	DS-D34-DI	Des Plaines River
M	MW008	008	Maywood	DS-D33	Des Plaines River
M	NR001	001	North Riverside	DS-D36	Des Plaines River
M	NR002	002	North Riverside	DS-D35	Des Plaines River
M	RS013	013	Riverside	DS-D66	Des Plaines River
M	RS010	010	Riverside	DS-D44,45	Des Plaines River
M	RS NP (DS-D44, 45)	NP	Riverside	DS-D44,45	Des Plaines River
M	RS011	011	Riverside	DS-D44,45	Des Plaines River
M	RS012	012	Riverside	DS-D41	Des Plaines River
M	LY001	001	Lyons	DS-D49	Des Plaines River
M	LY002	002	Lyons	DS-D48	Des Plaines River
M	LY003	003	Lyons	DS-13A-4 (TG137)	Des Plaines River
U		NP	Riverside	None	Des Plaines River
U		007	Riverside	None	Des Plaines River
U	BF006	NP	Brookfield	DS-DA6	Des Plaines River
U	LP003	001	LaGrange Park	DS-13A-53	Salt Creek
U	LP003	002	LaGrange Park	DS-13A-53	Salt Creek
U	LP003	004	LaGrange Park	DS-13A-54	Salt Creek
U	LP003	001	Western Springs	DS-13A-55	Salt Creek
U	LP003	002	Western Springs	DS-13A-56	Salt Creek
M	BF001	001	Brookfield	DS-D37,38	Salt Creek
M	LP003	003	LaGrange Park	DS-D37,38	Salt Creek
M	BF003	003	Brookfield	DS-D40	Salt Creek

Monitored or Unmonitored	Monitored Outfall that represents this outfall	Outfall #	Owner	TARP Connection	Waterway
M	BF008	008	Brookfield	DS-D62	Salt Creek
M	BF007	007	Brookfield	DS-D39,42,46	Salt Creek
M	BF004	004	Brookfield	DS-D39,42,46	Salt Creek
M	BF005	005	Brookfield	DS-D39,42,46	Salt Creek
M	BF006	006	Brookfield	DS-D47,50,51	Salt Creek
M	BF009	009	Brookfield	DS-D47,50,51	Salt Creek
M	LG001	001	LaGrange	DS-D47,50,51 & DS-13A-1	Salt Creek
U	LP003	005	LaGrange Park	DS-13A-54	Salt Creek
U	LP003	006	LaGrange Park	DS-13A-54	Salt Creek
M	MWRD150	150	MWRD	DS-D34-AI	Addison Creek

Appendix B

O'Brien (North)
CSO Monitoring and Reporting Plan
Rev. February 2018

O'Brien (North Side) and Kirie WRPs
 NPDES Permit Nos. IL0028088 and IL0047741
 CSO Representative Monitoring and Reporting Plan
 September 1, 2002
 Rev. August 22, 2005
 Rev. December 15, 2008
 Rev. December 1, 2009
 Rev. December 1, 2010
 Rev. October 4, 2011
 Rev. May 18, 2012
 Rev. February 1, 2013
 Rev. August 1, 2014
 Rev. February 15, 2018

In accordance with Special Conditions (SCs) 8.13 and 14.11 of the O'Brien (North Side) and Kirie National Pollutant Discharge Elimination System (NPDES) Permit Nos. IL0028088 (effective August 1, 2017) and IL0047741 (effective August 1, 2004), the following plan is approved for monitoring the frequency and duration of the discharge from select representative CSO outfalls authorized in the permits for which the Metropolitan Water Reclamation District of Greater Chicago (District) has the ability to monitor through telemetry. These monitored CSO outfalls represent the remaining unmonitored CSO outfalls, so if the monitored outfalls discharge, it is assumed that the associated unmonitored outfalls also discharge.

The 56 CSO outfalls listed below will be monitored as required in SCs 8.13 and 14.11. They include all CSOs for which the District has the ability to monitor through telemetry. This list has been updated to account for multiple outfalls associated with each dropshaft/TARP structure.

The District will document the frequency and duration of CSOs through the outfalls listed below along with an estimate of storm duration and total rainfall for each storm event. Based on this information, the District will estimate CSO volume (MG), BOD5 loading (pounds), and SS loading (pounds) that accounts for all of the CSO outfalls within the District's service area. The District will continue to monitor these designated CSO outfalls at all times unless the telemetry is out of service due to malfunction or routine maintenance. The results of the monitoring will be submitted to the IEPA on a quarterly basis: February 25, May 25, August 25, and November 25.

Receiving Water: North Shore Channel (total: 16)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
010	TG-M94	Ardmore, (E)	1 – Chicago
002	DS-M97	Pratt Ave., (E)	1 – Chicago
003	DS-M97	North Shore Ave., (E)	1 – Chicago
A13	DS-M101	Mulford St., (E)	1 – Evanston
010	DS-M104E	Main St., (E)	1 – Evanston
009	TG-M105E	Greenleaf St., (E)	1 – Evanston
A07	DS-M107-2	Emerson St., (W)	1 – Evanston
A04	DS-M109S	Green Bay Rd. & McCormick Blvd., (W)	1 – Evanston
105	DS-M100	Howard Street, (W)	1 – MWRD
104	DS-M106E	Lake St., (E)	1 – MWRD
102	DS-M109N	Green Bay & McCormick, (W)	1 – MWRD
101	DS-M114N	(Wilmette PS) Sheridan Rd. (W)	1 – MWRD
005	DS-M104W	Main St., (W)	1 – Skokie
002	DS-M105W	Greenwood & McCormick Blvd., (W)	1 – Skokie
003	DS-M107-1	Emerson, (W)	1 – Skokie
001	DS-M114N-2	Sheridan Rd., (W)	1 – Wilmette

Receiving Water: North Branch Chicago River (total: 30)

<u>Discharge No.</u>	<u>TARP Structure</u>	<u>Outfall Location</u>	<u>CSO Outfall Owner(s)</u>
073	DS-M76	Fullerton, (W)	1 – Chicago
068	DS-M79	Diversey, (W)	1 – Chicago
070	DS-M79	Logan, S of Diversey, (W)	1 – Chicago
067	DS-M80	Leavitt St. (NE), SW of DS-M80	1 – Chicago
065	TG-M81	Western Ave., (NE)	1 – Chicago
064	DS-M82	Belmont Ave., (W)	1 – Chicago
238	DS-M83	Melrose St. & Rockwell St., (W)	1 – Chicago
063	DS-M84	Roscoe St., (W)	1 – Chicago
061	DS-M85	Addison St., (E), (Inside ComEd's property)	1 – Chicago
231	DS-M86	Grace St., (W), N of DS-M86	1 – Chicago
057	DS-M88	Berteau Ave., (W)	1 – Chicago
042	DS-LAT	Lawrence Ave., (W)	1 – Chicago
030	DS-N02	Foster Ave. and Keeler, (W)	1 – Chicago
029	DS-N03	Bryn Mawr and Kilbourn Ave., (N)	1 – Chicago
026	DS-N04	Cicero, S. of Forest Glen, (N)	1 – Chicago
024	DS-N05	Forest Glen Ave., W of Cicero (S)	1 – Chicago
234	DS-N06	Ardmore Ave. (Indian and Ardmore), (W)	1 – Chicago
021	DS-N07	Central Ave., (N), (5900-6100 North)	1 – Chicago
020	DS-N08	Mango Ave. (Ext.), (W) (Leonard & Miltmore)	1 – Chicago
018	DS-N09	Miami Ave., (W) (Indian & Monitor)	1 – Chicago
016	DS-N10A	Wildwood Ave.(Ext.), (E) (Caldwell & Tonty)	1 – Chicago
017	DS-N10B	Imlay St. & Milwaukee Ave., (W)	1 – Chicago
236/008	DS-N13R	Franks and Nieman, (W) (6872 Touhy)	1 – Chicago
107	DS-M90 & DS-M91	North Branch Pump Station (NBPS) (E)	1 – MWRD
002	DS-N19	Dempster and Lincoln, (E)	1 – Morton Grove
009	DS-N11	Forestview Lane & Riverside Dr., (W) (East of Milwaukee)	1 – Niles
010	DS-N12	Caldwell & Touhy Ave., (E) (Harts & Touhy)	1 – Niles
003	DS-N16	Nordica and Dobson, (W)	1 – Niles
002	DS-N17	Cleveland St., E. of Caldwell Ave. (W)	1 – Niles
001	DS-N18	Main St. (Ext), E of Caldwell Ave. (W)	1 – Niles

Receiving Water: Weller Creek (total: 8)

<u>Discharge No.</u>	<u>TARP Structure (Gate)</u>	<u>Outfall Location</u>	<u>CSO Outfall Owner(s)</u>
001	UDP-DS1 (K1) & UDP-DS1A (K1A)	S of Central Rd. Bridge, (N)	1 – Arlington Heights
007	UDP-DS5 (K27) Indirect	E of Columbia and Seegers, (N)	1 – Des Plaines
111	UDP-DS1 (K2-1&K2-2)	S of Central Rd. Bridge, (N)	1 – MWRD
001	UDP-DS3 (K11)	Can-Dota Ave. (extended), (S)	1 – Mt. Prospect
002	UDP-DS3 (K14)	Wa-Pella Ave. (extended), (S)	1 – Mt. Prospect
003	UDP-DS4 (K20)	W of Elmhurst Rd., (N)	1 – Mt. Prospect
004	UDP-DS6 (K22)	William St. Bridge, (N)	1 – Mt. Prospect
NA	None (K3)	S of Lincoln St., (E)	1 – Mt. Prospect

Receiving Water: Feehanville Ditch (total: 2)

<u>Discharge No.</u>	<u>TARP Structure (Gate)</u>	<u>Outfall Location</u>	<u>CSO Outfall Owner(s)</u>
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005	UDP-DS8 (K25-1&K25-2) E of Feehanville Rd., (W)	1 – Mt. Prospect
006	UDP-DS8 (K26) E of Feehanville Rd., (W)	1 – Mt. Prospect

Summary of Monitored CSO Outfalls:

North Shore Channel	16
North Branch of Chicago River	30
Weller Creek	8
Feehanville Ditch	<u>2</u>
Total CSO Outfalls	56

Appendix B

Stickney (Central)
CSO Monitoring and Reporting Plan
Rev. February 2018

Stickney WRP
 NPDES Permit No. IL0028053
 CSO Representative Monitoring and Reporting Plan
 September 1, 2002
 Rev. August 22, 2005
 Rev. January 26, 2006
 Rev. December 15, 2008
 Rev. December 1, 2009
 Rev. December 1, 2010
 Rev. May 18, 2012
 Rev. February 1, 2013
 Rev. August 1, 2014
 Rev. January 22, 2016
 Rev. February 15, 2018

In accordance with Special Condition (SC) 13.13 of the Stickney WRP National Pollutant Discharge Elimination System (NPDES) Permit No. IL0028053, effective January 1, 2014 and modified on July 6, 2017, the following plan is approved for monitoring the frequency and duration of the discharge from select representative CSO outfalls authorized in the permits for which the Metropolitan Water Reclamation District of Greater Chicago (District) has the ability to monitor through telemetry. These monitored CSO outfalls represent the remaining unmonitored CSO outfalls, so if the monitored outfalls discharge, it is assumed that the associated unmonitored outfalls also discharge.

The 112 CSO outfalls listed below will be monitored as required in SC 13.13. They include all CSOs for which the District has the ability to monitor through telemetry. This list has been updated to account for multiple outfalls associated with each dropshaft/TARP structure.

The District will document the frequency and duration of CSOs through the outfalls listed below along with an estimate of storm duration and total rainfall for each storm event. Based on this information, the District will estimate CSO volume (MG), BOD5 loading (pounds), and SS loading (pounds) that accounts for all of the CSO outfalls within the District's service area. The District will continue to monitor these designated CSO outfalls at all times unless the telemetry is out of service due to malfunction or routine maintenance. The results of the monitoring will be submitted to the IEPA on a quarterly basis: February 25, May 25, August 25, and November 25.

Receiving Water: North Branch of Chicago River (total: 7)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
103	DS-M61A	Fulton & Canal St., (W)	1 - Chicago
092	DS-M64	Cortez & Elston, (W)	1 - Chicago
084	DS-M66	Blackhawk St., (W)	1 - Chicago
083	DS-M70	North Ave., (E)	1 - Chicago
082	TG-M71	North Ave., (W)	1 - Chicago
077	DS-M73	McLean Ave., (W)	1 - Chicago
074	DS-M75	Fullerton Ave., (E)	1 - Chicago

Receiving Water: Chicago River (total: 3)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
121	DS-M54	Franklin St. (S)	1 - Chicago
107	DS-M55	Michigan Ave., (S)	1 - Chicago
106	TG-M60	Beaubien Ct. (St. Clair St.), (N)	1 - Chicago

Receiving Water: South Branch of Chicago River (total: 13)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
168	DS-M25	Paulina St., (N)	1 - Chicago
166	DS-M35	Laflin, (N)	1 - Chicago
156	DS-M38	Union Ave., (N)	1 - Chicago
154	DS-M40	Normal Ave., (S)	1 - Chicago
151	DS-M41	Canal St. & Grove St., (S)	1 - Chicago
143	DS-M45	14 th St., (E)	1 - Chicago
140	DS-M47	Maxwell St. & Lumber Ave., (W)	1 - Chicago
138	DS-M49	Roosevelt Rd. & Lumber Ave., (W)	1 - Chicago
132	DS-M51	Harrison St., (W)	1 - Chicago
129	DS-M52	Quincy St. & Lower Wacker Dr., (E)	1 - Chicago
136	TG-I28 & I29	Taylor St., (W)	1 - Chicago
134	TG-I32	Polk St., (W)	1 - Chicago
125	Indirect (TG-M53)	Washington St., (W)	1 - Chicago

Receiving Water: South Fork of SBCR (total: 3)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
198	DS-M26	Iron St., (W)	1 - Chicago
194	DS-M30	35 th St., (W)	1 - Chicago
142	DS-M27, DS-M28, & DS-M29	Racine Ave Pump Station (RAPS)	1 - MWRD

Receiving Water: Chicago Sanitary & Ship Canal (total: 20)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
188	DS-M08	Natchez Ave (Ext), (S)	1 - Chicago
187	DS-M12	Leamington Ave. (Ext), (S)	1 - Chicago
185	DS-M15	Kenton Ave. (Kostner Ave, Ext), (N)	1 - Chicago
182	TG-M16	Lawndale Ave. (N)	1 - Chicago
180	DS-M17	Kedzie Ave., (S)	1 - Chicago
176	DS-M19	California Ave., (S)	1 - Chicago
174	DS-M20	Rockwell Ave, (S)	1 - Chicago
173	DS-M21	Western Ave., (S)	1 - Chicago
172	TG-M22	Oakley Ave., (N)	1 - Chicago
186	TG-I5	Cicero Ave., (S)	1 - Chicago
184	TG-I8	Pulaski Rd., (S)	1 - Chicago
183	TG-I9	Pulaski Rd., (N)	1 - Chicago
189	TG-NASH	Nashville Ave. Pump Station	1 - Chicago
147	DS-M03	67th St. (Ext), (S)	1 - MWRD
145	DS-M09	East Ave. (Ext.), (Hiawatha Ave, Highland Ave.), (N)	1 - MWRD
144	DS-M10	Lombard Ave., (N)	1 - MWRD
143	DS-M13	Laramie Ave. (Ext) (N)	1 - MWRD
146	TG-13A	Southwest Side 13A Pump Station / McCook Pump Station	1 - MWRD
001	DS-M09	Hiawatha Ave. (Highland Ave. ext.), (N)	1 - Stickney
002	TG-M05	Lawndale Ave. (E)	1 - Summit

Receiving Water: Collateral Channel (Total: 1)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
178	TG-I12	Albany Ave. (N)	1 - Chicago

Receiving Water: Salt Creek (total: 10)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
001	DS-D37,38	30 th St. & Forest Ave., (W)	1 - Brookfield
007	DS-D39,42,46	North of Brookfield Ave., (W)	1 - Brookfield
005	DS-D39,42,46	South of Brookfield Ave. (SW wingwall of bridge), (W)	1 - Brookfield
004	DS-D39,42,46	Brookfield Ave. (SE wingwall of bridge), (E)	1 - Brookfield
003	DS-D40	Jackson & Prairie, (W)	1 - Brookfield
009	DS-D47,50,51	Southview Ave. (Ext.) & Arden, (E)	1 - Brookfield
006	DS-D47,50,51	Southview Ave. (Ext.) & Custer, (E)	1 - Brookfield
008	DS-D62	Jackson Ave. (Ext.) (Brookfield Zoo across from Wolf Den, (E)	1 - Brookfield
001	D47,50,51 & DS-13A-1	Konrad Ave. & Patricia, (S)	1 - LaGrange
003	DS-D37,38	31 st St. & Forest Ave., (W)	1 - LaGrange Park

Receiving Water: Addison Creek (total: 1)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
150	DS-D34-AI	Westchester Pump Station (WCPS)	1 - MWRD

Receiving Water: Des Plaines River (total: 54)

Discharge No.	TARP Structure	Outfall Location	CSO Outfall Owner(s)
226	DS-D10	East River Rd. & Wilson Ave., (E)	1 - Chicago
227	DS-D11	100' N of Belmont, (E)	1 - Chicago
001	DS-D01	River Rd. & Thacker St., (W) (Prairie Ave.)	1 - Des Plaines
005	DS-D03R	River Rd. & Riverview Ave., (W)	1 - Des Plaines
002	DS-D28	Van Buren (ext), (in Concordia Cemetery) (E)	1 - Forest Park
001	DS-D30,28	N of Roosevelt Rd., (E)	1 - Forest Park
001	DS-D13	River Rd. & Robinson Dr., (W)	1 - Franklin Park
004	DS-D14	SE corner of River Rd. & Belmont, (W)	1 - Franklin Park
002	DS-D15	River Rd. & Franklin, (W)	1 - Franklin Park
003	DS-13A-4 (TG137)	47 th St., (W)	1 - Lyons
002	DS-D48	40th Street (Ext) & Haas, (E)	1 - Lyons
001	DS-D49	Ogden Ave, (W)	1 - Lyons
003	DS-D21,25	North Side of Lake St. & East of 1 st Ave.	1 - Maywood
NA	DS-D21,25	South Side of Lake St. & 1 st Ave., (W)	1 - Maywood
NA	DS-D21,25	South Side of Lake St. & East of 1 st Ave.	1 - Maywood
001	DS-D22,24,25	Augusta St. (W)	1 - Maywood
002	DS-D22,24,25	Rice St. (W)	1 - Maywood
NA	DS-D22,24,25	Huron St, E of 1st Ave., (W)	1 - Maywood
005	DS-D27I	1st Ave. & Maple St., (W)	1 - Maywood
004	DS-D27I	1 st Ave. & Oak St., (W)	1 - Maywood
NA	DS-D27I	1 st Ave. & North of Oak St., (W)	1 - Maywood
NA	DS-D31	S of Washington Blvd., (W)	1 - Maywood
006	DS-D31	School St. ext., (W)	1 - Maywood
007	DS-D32	Maybrook Dr. (W)	1 - Maywood
008	DS-D33	SW Corner of 1 st Ave. & Roosevelt Rd., (W)	1 - Maywood
001	DS-D52	Division & 1 st Ave., (W)	1 - Melrose Park

131	DS-D07	S of Devon & E River Rd., (E)	1 - MWRD
132	DS-D08	N of NW Tollway, (E)	1 - MWRD
133	DS-D09	W of East River Rd. along Foster, (N)	1 - MWRD
134	DS-D19,23	North Ave., (Thatcher Rd.), (E)	1 - MWRD
135	DS-D63	S of Chicago Ave., (E)	1 - MWRD
002	DS-D35	N of 26 th St., (W)	1 - North Riverside
001	DS-D36	S of 26 th St., (E)	1 - North Riverside
005	DS-D02	Methodist Campground, (E)	1 - Park Ridge
002	DS-D05	Riverside Dr. near Sibley, (E)	1 - Park Ridge
006	DS-D05	Riverside Dr. near Sibley, (E)	1 - Park Ridge
003	DS-D06	Touhy Ave., (E)	1 - Park Ridge
007	DS-D06	Touhy Ave., (E)	1 - Park Ridge
004	DS-D07	S of Devon (E)	1 - Park Ridge
008	DS-D07	S of Devon (E)	1 - Park Ridge
003	DS-D26	S of Lake St., (E)	1 - River Forest
004	DS-D29,64	Madison & Thatcher, (E)	1 - River Forest
001	DS-D15	River Rd. & Franklin, (W)	1 - River Grove
002	DS-D16	SE corner of River Rd. & Grand, (W)	1 - River Grove
003	DS-D17	Herrick Ave., (W)	1 - River Grove
004	DS-D17	Fullerton Ave., (W)	1 - River Grove
005	DS-D18	River Grove PS, Maple & Fullerton, (E)	1 - River Grove
006	DS-D201	River Rd. & Palmer (Lyndale Ext.), (W)	1 - River Grove
012	DS-D41	N of Ogden, (E)	1 - Riverside
009	DS-D43	Near Burling Rd (Library) (N)	1 - Riverside
NA	DS-D44,45	Olmstead Rd & Riverside Dr., (N)	1 - Riverside
010	DS-D44,45	Near junction of Gage/Riverside Rd., (N)	1 - Riverside
011	DS-D44,45	Blackhawk Rd. ext., (NE)	1 - Riverside
013	DS-D66	Forest Ave (Ext.), (W)	1 - Riverside
001	DS-D121	SE corner of River Rd. & Irving Park Rd., (W)	1 - Schiller Park

Summary of Monitored CSO Outfalls:

North Branch of the Chicago River	7
Chicago River	3
South Branch of the Chicago River	13
South Fork of the SBCR	3
Chicago Sanitary & Ship Canal	20
Collateral Channel	1
Salt Creek	10
Addison Creek	1
<u>Des Plaines River</u>	<u>54</u>
Total CSO Outfalls	112

Appendix C

2019 Event Days

