NOTICE OF COMMISSION MEETING

PLEASE TAKE NOTICE that there will be a regular meeting of the Commission of the Madison Metropolitan Sewerage District at 8 a.m. on Thursday, June 25, 2020.

This meeting will take place virtually via GoToMeeting. Please join the meeting from your computer, tablet or smartphone by visiting https://global.gotomeeting.com/join/376638981. You can also participate by phone by dialing 872-240-3412 and use access code: 376-638-981. If you are a guest attending the meeting, please fill out the following form: https://forms.gle/xbeDWVhmdBLqKack7. If you wish to participate and do not have telephone or internet access, please contact Janelle Werner at janellew@madsewer.org or 608-222-1201 to see whether an accommodation can be made.

The Commission will consider and may take action on the matters set forth on the attached agenda. If any matter on the agenda is to be considered in closed session of the Commission, please be advised that following the closed session, the Commission will reconvene into open session for purposes of taking any action based on the closed session and concluding its agenda.

June 23, 2020

D. Michael Mucha, P.E.
Chief Engineer and Director

Any person who has a qualifying disability as defined by the Americans with Disabilities Act that requires the meeting or materials at the meeting to be in an accessible location or format must contact the chief engineer and director at 608-222-1201, 1610 Moorland Road, Madison, Wis., at least 24 hours prior to the commencement of the meeting so that any necessary arrangements can be made to accommodate each request.

1. Opening
   A. Call to Order
   B. Welcome Guests
   C. Virtual Meeting Guidance – Janelle Werner
   D. Announcements

2. Appearances by the Public

3. Consent Calendar
   A. Approval Meeting Minutes from 6-11-2020
   B. Review and Approval of Sewer Extension Plans – Curt Sauser
      Commission Agenda Report
      Attachment 1: 2020-06-25 Sewer Extension Vicinity Map
      Attachment 2: 2020-06-25 Sewer Extension Financial Summary
      Attachment 3: Fox Hill Estates Phase 3, Village of DeForest - Resolution (2020-06-25-R1) & Map
   C. Award of Contract: Bulk Ferric Chloride – Eric Dundee
      Commission Agenda Report
      Attachment 1: Bid Tabulation
      Attachment 2: Resolution (2020-06-25-R2)
4. Presentation of 2021-2026 Capital Improvements Plan – Todd Gebert
   Commission Agenda Report
   Attachment 1: Draft 2021 Capital Improvements Plan (to follow presentation)
   https://www.madsewer.org/Planning/Budget-Finance
   Attachment 2: Comparison of 2020 Capital Budget & 2021 Draft CIP

   Commission Agenda Report

6. WPDES Permit Update – Martye Griffin & Paul Kent
   Commission Agenda Report
   Attachment 1: Resolution (2020-06-25-R3)
   Attachment 2: Sustainable Action Maps

7. Convene in Closed Session in accordance with 19.85(1)(g) of the Wisconsin Statutes to confer with legal counsel who is rendering oral or written advice concerning strategy to be adopted by the body with respect to litigation in which it is or is likely to become involved associated with its WPDES permit – Martye Griffin
   Commission Agenda Report

8. Reconvene in Open Session

9. Discussion or Actions, if any, Related to Items Discussed in Closed Session

10. Chief Engineer and Director’s Report
    Items to be covered include but are not limited to:
    A. CED Update – Michael Mucha
    B. Budget Update – Dana Burmaster
    C. Regulatory/Legal Review – Paul Kent
    D. Operations Report – Alan Grooms
       Attachment 1: Plant Flow Data
       Attachment 2: Plant Performance Data
    E. Future Meeting Schedule
       Future Meeting Schedule as of 06-23-2020

11. Future Agenda Topics

12. Other Business allowed by Law

13. Adjournment
Meeting of the Commissioners of the
Madison Metropolitan Sewerage District

Thursday, June 11, 8:00 a.m.
Virtual Commission Meeting

Present: Commissioner Beth Bookland
Commissioner Ken Clark
Commissioner Sara Eskrich arrived at 8:01 a.m.
Commissioner Grant Foster
Commissioner Tom Hovel
Commissioner Ezra Meyer
Commissioner Brad Murphy
Commissioner Mary Swanson
Commissioner Tom Wilson

Commission Meeting

1. Opening
   A. Call to Order 8:00 a.m.
   B. Welcome Guests: Steven Weber, Stantec; Michael DuPont, Stantec; Forbes McIntosh, Dane County Cities and Villages Association; and Greg Fries, City of Madison
   C. Virtual Meeting Guidance
   D. Announcements: Mr. Mucha noted that an upcoming sewer extension plan for Whispering Coves Phase 1 in the City of Verona was the first sewer extension for the Nine Springs Valley Interceptor Morse Pond extension.

2.Appearances by the Public

3. Consent Calendar
   A. Approval Meeting Minutes from 5-28-2020
   B. Cash Statement – Operating
   C. Cash Statement – Capital
   D. Expedited Boundary Annexation – Gust Lands (CTH M/Range Trail) 2020 City of Verona
   E. Review and Approval of Sewer Extension Plans
      • Woods at Cathedral Point, City of Verona
      • Whispering Coves Phase 1, City of Verona

Discussion: The 05-28-2020 minutes, approval of cash statements (operating and capital projects), expedited boundary annexation – Gust Lands (CTH M/Range Trail) 2020 City of Verona (2020-06-11-R1) and sewer extension plans (2020-06-11-R2 to 2020-06-11-R3) were reviewed and placed on file. The operating cash fund account shows an available balance through operating fund check #125165 in the amount of $610,522.74; subsequent receipts totaling $8,947,838.06; less disbursements of $9,058,652.50 with a resulting cash balance of $499,708.30. The capital projects fund cash statement shows an available balance through capital projects fund account check
no. 10476 in the amount of $117,921.62; subsequent receipts totaling $1,227,692.97; less disbursements $1,315,956.72 with a resulting cash balance of $29,657.87.

**Action:** Motion by Commissioner Wilson, seconded by Commissioner Meyer to approve consent items A-E.

Motion carried.

4. **Establish Commission Policy Priorities**
   **Presenter:** Michael Mucha, Chief Engineer and Director
   **Description:** Mr. Mucha presented the results of the prioritization exercise that took place and requested approval of resolution (2020-06-11-R4) that establishes policy priorities.
   **Discussion:** The Commission requested that the acceptance of wastewater (4) and use of interceptor policies (5) be optional topics if time allows them to work on them.

   **Action:** Commissioner Wilson moved, second by Commissioner Meyer to approve the resolution (2020-06-11-R4) with the note that if there is additional time to work on the two additional priorities (numbers 4 and 5 within the priorities matrix).

Motion carried.

5. **Chief Engineer and Director’s Report**
   **A. CED Update:** Mr. Mucha provided an update on a number of District happenings. He reported that there was a minor overflow on plant grounds (approximately 250 gallons) that was contained and reported to the DNR. Mr. Mucha reported that the District has implemented its COVID-19 transition plan that lags approximately three weeks behind the Dane County plan. He further reported that the WPDES topic will be brought back before the Commission at the June 25, 2020 meeting and he updated the Commission on inclusion and diversity efforts that relate to recent news.
   **B. Regulatory Report:** Vanessa Wishart provided a legal update to the Commission in the absence of Paul Kent.
   **C. Future Meeting Schedule**

6. **Convene in Closed Session in Accordance with 19.85(1)c of the Wisconsin Statutes to Consider Employment, Promotion, Compensation or Performance Evaluation Data of any Public Employee Over Which the Governmental Body has Jurisdiction or Exercise Responsibility**

   **Action:** Commissioner Eskrich moved, seconded by Commissioner Wilson to convene in closed session in accordance with 19.85(1)c of the Wisconsin Statutes to consider employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercise responsibility.

   **Roll Call Vote:**
   Commissioner Tom Hovel-aye
   Commissioner Beth Bookland-aye
   Commissioner Ken Clark-aye
   Commissioner Sara Eskrich-aye
Commissioner Grant Foster-aye
Commissioner Ezra Meyer-aye
Commissioner Brad Murphy-aye
Commissioner Mary Swanson-aye
Commissioner Tom Wilson-aye

Motion carried.

6. **Reconvene in Open Session**
The Commission reconvened from the closed session in accordance with 19.85(1)c of the Wisconsin Statutes to consider employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercise responsibility.

**Discussion:** The purpose of the closed session being a continuation of the process for the annual performance review of the Chief Engineer and Director.

**Action:** Commissioner Wilson moved, seconded by Commissioner Meyer to reconvene in open session.

Roll Call Vote:
Commissioner Tom Hovel-aye
Commissioner Beth Bookland-aye
Commissioner Ken Clark-aye
Commissioner Sara Eskrich-aye
Commissioner Grant Foster-aye
Commissioner Ezra Meyer-aye
Commissioner Brad Murphy-aye
Commissioner Mary Swanson-aye
Commissioner Tom Wilson-aye

Motion carried.

7. **Discussion or Actions, if any, Relative to Items Discussed in Closed Session**

**Discussion:** Staff members were requested to place a closed session agenda item onto the Commission agenda for the next meeting.

**Action:** No formal action at this time.

8. **Future Agenda Topics**

**Action:** The Commission requested several topics be added to the Commission calendar. First, a topic related to recording meetings and offering the meetings online, second a topic to discuss public access and when closed sessions are used and a final topic to discuss the future of Commission meetings and the utilization of meeting software.

9. **Other Business Allowed by Law**

**Action:** None.

10. **Adjournment**
**Action:** Commissioner Wilson moved, seconded by Commissioner Foster to adjourn the meeting.

Motion carried and meeting adjourned at 9:03 a.m.

Regular Meeting of the Commissioners
Thursday, June 11, 2020

______________________________
Mary Swanson, Secretary

**Future Meetings:**
Thursday, June 25, 2020
Thursday, July 16, 2020
Thursday, July 30, 2020
EXPEDITED BOUNDARY ANNEXATION
2020-06 GUST LANDS
RESOLUTION 2020-06-11-R1

WHEREAS, an annexation request referred to as the Gust Lands was submitted to the Madison Metropolitan Sewerage District (District), by Theran Jacobson, Director of Public Works for the City of Verona, on May 28, 2020, and

WHEREAS, the City of Verona requesting that approximately 68.35 acres of land, generally located south of County Trunk Highway 'M' and east of Range Trail in the City of Verona, be added to the boundaries of the Madison Metropolitan Sewerage District, and

WHEREAS, the City of Verona annexed the subject lands from the Town of Verona with Ordinance #19-147, adopted on May 26, 2020, and

WHEREAS, the subject annexation request is consistent with section §200.15(1)(a)(3) of the Wisconsin statutes, and

WHEREAS, the proposed annexation parcel is adjacent to territory presently served by the District, and

WHEREAS, the District has sufficient design capacity to serve the lands proposed for annexation, and

WHEREAS, the subject lands were recommended for addition to the Verona Urban Service Area by Dane County Regional Planning Commission Resolution #662 on May 27, 1993, Dane County Regional Planning Commission Resolution # 896 on October 28, 1999, and Capital Area Regional Planning Commission Water Quality Management Letter #1904 on September 12, 2019. The Wisconsin Department of Natural Resources subsequently approved the amendments to the Dane County Water Quality Management Plan in their letters dated August 4, 1993, January 10, 2000, and October 7, 2019, and

WHEREAS, the subject annexation will promote sewerage management policies and operations; will promote public health and welfare; will effect efficiency and economy in sewerage management based upon currently accepted engineering standards regarding prevention and abatement of environmental pollution, and federal and state rules and policies in furtherance thereof; and will be consistent with adopted plans of municipal, regional, and state agencies, and
WHEREAS, the Chief Engineer and Director of the District has recommended the approval of said annexation request.

NOW, THEREFORE, and following consideration of the above recitals which are incorporated by reference, it is hereby resolved by the Madison Metropolitan Sewerage District Commission as follows:

1. The request for annexation of the Gust Lands, made by Theran Jacobson, Director of Public Works for the City of Verona, submitted on May 28, 2020, is approved.

2. The Commission President and District Chief Engineer and Director shall execute the order for District Annexation #2020-06.

3. The City of Verona shall pay the expedited annexation fee of $1,425 to the District within 30 days of receiving an invoice for the fee.

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District at their meeting held on June 11, 2020.

MADISON METROPOLITAN SEWERAGE DISTRICT

Attested by:

[Signatures]

Thomas Hovel, President

Mary Swanson, Secretary
THE WOODS AT CATHEDRAL POINT PHASE 1
2020-06-11-R2

WHEREAS, plans for extension of the City of Verona’s public sanitary sewer system were submitted to the Madison Metropolitan Sewerage District (District) for The Woods at Cathedral Point Phase 1, on May 28, 2020, by Kenton Brose, D’Onofrio Kottke and Associates, and

WHEREAS, the project consists of installing 2,753 feet of 8-inch and 18-inch diameter sanitary sewers on Wild Willow Way, East Chapel Royal Drive, Range Trail and within a public sanitary sewer easement to serve an ultimate service area of 1,170 acres, and

WHEREAS, the proposed sewers will provide immediate service to Lots 23-67 of the unrecorded plat of The Woods at Cathedral Point (plat) and are hereinafter referred to as the “Phase 1 lots”, and

WHEREAS, Lots 17-22 and Lots 68-73 of the plat are adjacent to proposed sewers but are not included within the city’s development agreement for Phase 1. Said lots are not being developed and are not connecting to the public sewer system at this time, and are hereinafter referred to as the “deferred lots”, and

WHEREAS, environmental corridors in the City of Verona are being modified to include the extents of Outlot 2, Outlot 4 and Outlot 6 of the plat. A 75-foot wetland setback has been delineated on the plat and includes the rear portion of Lots 23-28. Said outlots and wetland setback areas are recognized by the Capital Area Regional Planning Commission (CARPC) as being within an environmental corridor, will not receive sanitary sewer service, and are hereinafter referred to as the “exempt areas”, and

WHEREAS, the proposed sanitary sewer extension will connect to the City of Verona’s sanitary sewer facilities is within the district’s Nine Springs Valley Interceptor/Pumping Station 17 basin, and

WHEREAS, plan review fees are due, and

WHEREAS, conveyance facility and treatment plant connection charges for the lands to be served have not been paid, and

WHEREAS, the District has received a sewer extension review letter #23-20-1 from the CARPC dated May 11, 2020 stating the CARPC staff has reviewed the proposed extension and has determined that it is consistent with the urban service area provisions of the Dane County
Water Quality Plan and the conditions of Resolutions DCRPC #896 and CARPC #2019-4, which added this area to the Verona Urban Service Area in 1999 and 2014, and

WHEREAS, the Chief Engineer and Director of the District has recommended the approval of said plans.

THEREFORE, BE IT RESOLVED, that sanitary sewer extension plans for The Woods at Cathedral Point Phase 1, in the City of Verona, submitted on May 28, 2020, by Kenton Brose, D’Onofrio Kottke and Associates, be approved subject to the following conditions:

1. That the City of Verona shall pay the plan review fee of $1,550 to the District within 30 days of receiving an invoice for the fee.

2. That the aforementioned exempt areas of the unrecorded plat of The Woods at Cathedral Point are exempted from conveyance facility and treatment plant connection charges and shall not be served by the City of Verona's public sanitary sewerage system.

3. That the aforementioned deferred lots may not be connected to the public sewerage system at this time. Prior to installation of the proposed sewers, the City of Verona shall record a document with the Dane County Register of Deeds, indicating that District connection charges for the deferred lots have not been paid. Said deferred lots are not to be connected to the public sewerage system until appropriate conveyance facility connection charges and treatment plant connection charges have been paid. If the proposed sewers are constructed and said document is not recorded within six months of approval of this resolution, conveyance facility and treatment plant connection charges on the deferred lots shall be due by the City of Verona.

4. That prior to installation of the proposed sanitary sewers, the City of Verona shall have paid to the District the sum of $78,007.20 for payment of $53,197.97 in Nine Springs Valley Interceptor/Pumping Station 17 basin conveyance facility connection charges and $24,809.23 in treatment plant connection charges for the lands to be served; said lands being the aforementioned Phase 1 lots.

5. That if lot areas shown on the final, recorded plat of The Woods at Cathedral Point differ from the unrecorded plat submitted to the District for approval, additional conveyance facility and treatment plant connection charges may be due from the City of Verona.

6. That payment of the aforementioned conveyance facility and treatment plant connection charges shall be made to the District within six months of the date of approval of this resolution. If payment in full is not received by the District within six months of the date of this resolution, the approval shall become void and new plans shall be submitted.

7. That conveyance facility and treatment plant connection charges are adjusted from time to time and said connection charges will be due based on the rate in place at the time at which the payment is made.
8. That if said connection charges remain unpaid after construction of said sewer extensions, a late fee of 0.5 percent of the amount due shall be charged to the City of Verona for each month or partial month thereafter following connection. A one-time $500 administrative fee shall also be charged.

9. That the City of Verona shall require the presence of an engineer or an inspector on the construction of said sewer extensions who shall make a record showing in detail the construction as built and shall furnish the District with as-built plans in the case of any significant deviations from the original design.

10. That the construction, operation, maintenance and use of said sewer extensions shall be in accordance with the lawful rules and regulations of the District and with the applicable State of Wisconsin plumbing and sewerage codes.

11. That if construction of the sewer extensions covered by said plans has not commenced within four years following the approval date of this resolution, this approval shall become void and new plans shall be submitted. If construction has commenced but has not been completed within the four-year approval period, the unbuilt portion must be submitted for reapproval if it is a significant portion of the project and would require DNR approval.

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District on June 11, 2020.

MADISON METROPOLITAN SEWERAGE DISTRICT

Attested by:

Thomas Hovel, President

Mary Swanson, Secretary
WHISPERING COVES PHASE 1
2020-06-11-R3

WHEREAS, plans for extension of the City of Verona’s public sanitary sewer system were submitted to the Madison Metropolitan Sewerage District (District) for Whispering Coves Phase 1, on May 29, 2020, by Tomas Toro, JSD Professional Services, and

WHEREAS, the project consists of installing 3,268 feet of 8-inch, 10-inch, 12-inch and 15-inch diameter sanitary sewers on Morningside Boulevard, Harvest Moon Trail, Morning Cove Circle, Hemlock Drive and Evening Sun Way to serve an ultimate service area of 152 acres, and

WHEREAS, the proposed sewers will provide immediate service to the following parcels within the unrecorded plat of Whispering Coves (plat): Block 3, Lots 1-22 and Outlot 3; Block 4, Lots 1-12; Block 5, Lots 1-7 and 33-36; Block 6, Lots 1-3; Block 15, Lots 12-19 and Outlot 2. Said parcels are hereinafter referred to as the “Phase 1 lots”, and

WHEREAS, Block 1, Lot 1 and Block 2, Lot 1 of the plat are adjacent to proposed sewers but are not included within the city’s development agreement for Phase 1. Said lots are not being developed and are not connecting to the public sewer system at this time, and are hereinafter referred to as the “deferred lots”, and

WHEREAS, environmental corridors in the City of Verona are being modified to include the extents of the following parcels of the plat: Block 2, Outlots 1-3; Block 3, Outlots 1, 2 and 4; Block 4, Outlot 1; Block 5, Outlot 1 and Outlot 3; Block 6, Outlots 1-2. Said outlots are recognized by the Capital Area Regional Planning Commission (CARPC) as being within an environmental corridor, will not receive sanitary sewer service, and are hereinafter referred to as the “exempt outlots”, and

WHEREAS, the proposed sanitary sewer extension will connect to the City of Verona’s sanitary sewer facilities and is within the district’s Nine Springs Valley Interceptor/Morse Pond extension basin, and

WHEREAS, plan review fees are due, and

WHEREAS, conveyance facility and treatment plant connection charges for the lands to be served have not been paid, and

WHEREAS, the District has received a sewer extension review letter #23-20-3 from the CARPC dated May 27, 2020 stating the CARPC staff has reviewed the proposed extension and has determined that it is consistent with the urban service area provisions of the Dane County
Water Quality Plan and the conditions of Resolution CARPC #2016-01 and DNR Approval Letter #DC-0169, which added this area to the Verona Urban Service Area in 2016, and

WHEREAS, the Chief Engineer and Director of the District has recommended the approval of said plans.

THEREFORE, BE IT RESOLVED, that sanitary sewer extension plans for Whispering Coves Phase 1, in the City of Verona, submitted on May 29, 2020, by Tomas Toro, JSD Professional Services, be approved subject to the following conditions:

1. That the City of Verona shall pay the plan review fee of $1,550 to the District within 30 days of receiving an invoice for the fee.

2. That the aforementioned exempt outlots of the unrecorded plat of Whispering Coves are exempted from conveyance facility and treatment plant connection charges and shall not be served by the City of Verona’s public sanitary sewerage system.

3. That the aforementioned deferred lots may not be connected to the public sewerage system at this time. Prior to installation of the proposed sewers, the City of Verona shall record a document with the Dane County Register of Deeds, indicating that District connection charges for the deferred lots have not been paid. Said deferred lots are not to be connected to the public sewerage system until appropriate conveyance facility connection charges and treatment plant connection charges have been paid. If the proposed sewers are constructed and said document is not recorded within six months of approval of this resolution, conveyance facility and treatment plant connection charges on the deferred lots shall be due by the City of Verona.

4. That prior to installation of the proposed sanitary sewers, the City of Verona shall have paid to the District the sum of $274,206.48 for payment of $210,587.15 in Nine Springs Valley Interceptor/Morse Pond extension conveyance facility connection charges and $63,619.33 in treatment plant connection charges for the lands to be served; said lands being the aforementioned Phase 1 lots.

5. That if lot areas shown on the final, recorded plat of Whispering Coves differ from the unrecorded plat submitted to the district for approval, additional conveyance facility and treatment plant connection charges may be due from the City of Verona.

6. That payment of the aforementioned conveyance facility and treatment plant connection charges shall be made to the District within six months of the date of approval of this resolution. If payment in full is not received by the District within six months of the date of this resolution, the approval shall become void and new plans shall be submitted.

7. That conveyance facility and treatment plant connection charges are adjusted from time to time and said connection charges will be due based on the rate in place at the time at which the payment is made.
8. That if said connection charges remain unpaid after construction of said sewer extensions, a late fee of 0.5 percent of the amount due shall be charged to the City of Verona for each month or partial month thereafter following connection. A one-time $500 administrative fee shall also be charged.

9. That the City of Verona shall require the presence of an engineer or an inspector on the construction of said sewer extensions who shall make a record showing in detail the construction as built and shall furnish the District with as-built plans in the case of any significant deviations from the original design.

10. That the construction, operation, maintenance and use of said sewer extensions shall be in accordance with the lawful rules and regulations of the District and with the applicable State of Wisconsin plumbing and sewerage codes.

11. That if construction of the sewer extensions covered by said plans has not commenced within four years following the approval date of this resolution, this approval shall become void and new plans shall be submitted. If construction has commenced but has not been completed within the four-year approval period, the unbuilt portion must be submitted for reapproval if it is a significant portion of the project and would require DNR approval.

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District on June 11, 2020.

MADISON METROPOLITAN SEWERAGE DISTRICT

Attested by:

Thomas Hovel, President

Mary Swanson, Secretary
ESTABLISHING POLICY PRIORITIES
2020-06-11-R4

WHEREAS, every year the Commission establishes policy priorities, and

WHEREAS, priorities assist the Commission in making governance decisions, and

WHEREAS, these governance decisions will require careful weighing of benefits, beneficiaries and cost of the benefits, and

WHEREAS, the policy priorities are intended to provide the Commission and staff with time to evaluate implications of District policies and make changes as appropriate to best meet the needs of District customers and meet our mission of protecting public health and the environment, and

WHEREAS, these priorities may take a year or longer to fully research, discuss and implement.

THEREFORE, BE IT RESOLVED, that the Commission of the Madison Metropolitan Sewerage District adopts the "District Policy Priorities" as set forth in full herein.

1. Who are the District’s owners and clients?

2. How should the Commission monitor its own performance?

3. What monitoring reports should the CED provide to the Commission?

4. How should the District handle biosolids and analytical services for municipalities outside the District’s service area?

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District held on June 11, 2020.

MADISON METROPOLITAN SEWERAGE DISTRICT

Attested by:

Thomas Hovel, President

Mary Swanson, Secretary
BEFORE THE COMMISSIONERS OF THE
MADISON METROPOLITAN SEWERAGE DISTRICT

In the Matter of the Notice from the City of Verona, Dane County, Wisconsin for the Attachment of Certain Territories in the City of Verona to the Madison Metropolitan Sewerage District.

ANNEXATION NO. 2020-06

EXPEDITED ANNEXATION

ANNEXING LANDS IN THE CITY OF VERONA TO MADISON METROPOLITAN SEWERAGE DISTRICT

The City of Verona, Dane County, Wisconsin ("Petitioner") submitted notice dated May 28, 2020 ("Notice") to the Madison Metropolitan Sewerage District ("District" or "MMSD") requesting annexation of lands to the District ("Subject Land").

DOCUMENTATION FOR REVIEW BY COMMISSION

District staff has reviewed the request for annexation, including the following items (collectively, the "Exhibits"):

1. Notice requesting Annexation from the City of Verona, received on May 28, 2020.
2. Map of proposed annexation, municipal boundaries, and urban service areas, prepared by MMSD.
3. Letter from Mike Rupiper of CARPC to MMSD dated June 2, 2020, with determination of consistency with adopted regional plans.
4. MMSD Ordinance on Annexation Charges.
5. District Regulations: District Connection Charges - Conveyance Facility Connection Charges (CFCC) and Treatment Plant Connection Charges (TPCC).
RECOMMENDATION FROM DISTRICT STAFF

District staff recommends addition of the territory to the District based on the following:

1. The purpose of the Notice and proposed annexation is to annex the Subject Land in the City of Verona to the District in order to provide sewerage service to the Subject Land. See Exhibit 1.

2. The Subject Land is adjacent to territory presently served by the District. See Exhibit 2.

3. The District has sufficient design capacity to serve the land proposed for annexation.

4. The Subject Land is located in the Urban Service Area as designated by the Capital Area Regional Planning Commission ("CARPC") and annexation is consistent with adopted regional plans. Annexation of the Subject Land is also consistent with the Dane County Water Quality Plan as approved by the Wisconsin Department of Natural Resources ("DNR"). See Exhibit 3.

5. Annexation of the Subject Land to the District will:
   a. Promote sewerage management policies and operations;
   b. Promote the public health and welfare;
   c. Effect efficiency and economy in sewerage management based upon currently accepted engineering standards regarding prevention and abatement of environmental pollution, and federal and state rules and policies in furtherance thereof; and
   d. Be consistent with adopted plans of municipal, regional and state agencies.

6. The Commission has authority under Wis. Stat. § 200.13(3) to establish sewer service charges to cover its construction, maintenance and operating costs, and debt service charges, and also to levy a tax upon the taxable property in the District to enable it to carry out its statutory procedures; and, therefore, it is appropriate that this annexation be conditioned
upon the payment of appropriate sewer service charges and tax levies, as determined by District policy.

7. The Commission has authority under Wis. Stat. § 200.15(3) to subject this annexation to reasonable requirements as to participation by newly annexed areas in the costs of existing or proposed District facilities.

8. The proportionate cost of wastewater conveyance facilities and the wastewater treatment plant facilities that serve the area should be recovered by calculating a conveyance facility connection charge (CFCC) and a treatment plant connection charge (TPCC). These charges shall be calculated in accordance with district regulations and imposed on an area basis. See District Regulations, Exhibit 5.

9. Approval of the request should be subject to Petitioner's compliance with District policy, as applicable, and payment of applicable charges. Charges shall be calculated based on the District policies and the rate in effect at the time that a particular area of the Subject Land is to be connected to the District’s system. Payment of the associated charges shall be made in full at or before the time that the land annexed is to be connected to the District's system, as set forth in District policy. See MMSD Connection Charge Rates-2020, Exhibit 6.
MMSD ANNEXATION NO. 2020-06

ANNEXING LANDS IN THE CITY OF VERONA TO
MADISON METROPOLITAN SEWERAGE DISTRICT

Notice Dated: JUNE 11, 2020

The Commission of the Madison Metropolitan Sewerage District, Following Consideration of
Documentation and Recommendations from District Staff, Which Are Incorporated By Reference,
Does Hereby Ordain as Follows:

1. The Commission has no objection to addition of the Subject Land to the territory of the District, all
   as set forth herein.

2. The Subject Land, as described in Exhibit 1, is hereby annexed to the District, subject to each and all
   of the following conditions:

   a. The Petitioner shall participate in the cost of the existing conveyance facilities and treatment
      plant necessary to serve the annexed lands in accordance with District Policies, and

   b. The Petitioner shall be and is subject to the District’s Sewer Use Ordinance and shall comply
      therewith; and

   c. The Petitioner shall pay such sewer service charges as may, from time to time, be made by the
      District; and

   d. The Petitioner shall pay such ad valorem taxes as the District may, from time to time, assess and
      levy against the land annexed.

Approved by the Commission of the Madison Metropolitan Sewerage District at a duly noticed
meeting held on the 11 day of June, 2020.

MADISON METROPOLITAN SEWERAGE DISTRICT COMMISSION

Thomas D. Hovel, Commission President

Incorporated by Reference:
Exhibits reviewed by District staff

Attested by:
D. Michael Mucha, Chief Engineer & Director
COMMISSION AGENDA REPORT  
Meeting of June 25, 2020  
Review and Approval of Sanitary Sewer Extensions

Lead Staff: Curt Sauser, Engineering Technician

Requested Action: Adopt resolution 2020-06-25-R1 approving the sanitary sewer extension plan.

Attachments:
Attachment 1: 2020-06-25 Sewer Extension Vicinity Map  
Attachment 2: 2020-06-25 Sewer Extension Financial Summary  
Attachment 3: Fox Hill Estates Phase 3 – Resolution 2020-06-25-R1 & Map

Financial Impact:
A plan review fee of $1,550 will be due for the “new construction” projects for external customers which propose to install new publicly owned sewers. Conveyance facility and treatment plant connection charges will also be due for the lands which can be served from the sewers being installed, as identified above. A plan review fee is not charged for reconstruction projects.

Background:
The District is directed under Section 200.11(b) of the Wisconsin Statutes and NR108.04(4) of the Wisconsin Administrative Code to review and approve any proposed sanitary sewerage system construction or installation projects within the Madison Metropolitan area for which Wisconsin Department of Natural Resources approval is required.

It is requested that the commission adopt resolutions approving sanitary sewer extension plans that were reviewed by staff and placed on file with the District.

New Construction Projects:
• Fox Hill Estates Phase 3, Village of DeForest

Analysis and Options:
Recommendation: Adopt resolution 2020-06-25-R1 approving the sanitary sewer extension plan.

Key consideration:
• The plan has been reviewed by the planning department and is acceptable.
**Option 1:**
Approve sewer extension, with modifications determined by the Commission.

Key consideration:
- The Commission may choose to place conditions on the approval, as necessary.

**Option 2:**
Other options brought forward by the Commission.

**Next Steps:**
Upon Commission approval, plan will be forwarded to the Wisconsin DNR for final approval, prior to construction.
## Sewer Extension - Resolution Approvals - Year 2020

<table>
<thead>
<tr>
<th>Meeting Apvl Date</th>
<th>Sewer Plan Agenda Item</th>
<th>Sewer Extension</th>
<th>Community</th>
<th>Proposed Use</th>
<th>Length and Size</th>
<th>Plan Review Fee</th>
<th>CFCC (Conveyance Facility Charges)</th>
<th>TPCC (Treatment Plant Charges)</th>
<th>Sewer Plan Total</th>
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</thead>
<tbody>
<tr>
<td>6/25/2020 a.</td>
<td>Fox Hill Estates Phase 3</td>
<td>Village of DeForest</td>
<td>13 Commercial Lots &amp; 8 Outlots</td>
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<td>1,550.00</td>
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2020 Charges Approved: Current Meeting

<table>
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<tr>
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<th>CFCC</th>
<th>TPCC</th>
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<tr>
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<td>$437,001.02</td>
<td>$207,385.15</td>
<td>$645,936.17</td>
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Previous Total Approved (by Resolution)

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Current Total Approved (by Resolution)

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<table>
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<th>Actual vs. Budget comparison</th>
<th>Plan Review</th>
<th>CFCC &amp; TPCC</th>
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<td>2020 Income: Actual Collected</td>
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<tr>
<td>2020 Income: Budgeted</td>
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<td>$2,750,000.00</td>
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<tr>
<td>Percent of Budget</td>
<td>64%</td>
<td>34%</td>
</tr>
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</table>

ICCAS_apvls.xlsx

Day of the year 177

% Yr passed by 48%
WHEREAS, plans for extension of the Village of DeForest’s public sanitary sewer system were submitted to the Madison Metropolitan Sewerage District (District) for Fox Hill Estates Phase 3, on June 11, 2020, by Michael Calkins of Snyder & Associates, and

WHEREAS, the project consists of installing 5,907 feet of 10-inch diameter sanitary sewers on Williamsburg Way, Pederson Crossing Boulevard and within sanitary sewer easements to serve an ultimate service area of 185 acres, and

WHEREAS, the existing and proposed sewers are capable of providing service to Lots 76-84 and Outlots 11-13 of the unrecorded plat of Fox Hill Estates Replat (replat), Outlots 6-8 of the plat of Fox Hill Estates and to Lots 1-3 and Outlot 1 of an unrecorded Certified Survey Map prepared by Snyder & Associates (Snyder CSM) and

WHEREAS, Lot 76 of the replat is adjacent to existing sewers but is not included within the Village’s development agreement for Phase 3. Said Lot 76 is not being developed and is not connecting to the public sewer system at this time, and is hereinafter referred to as the “deferred lot,” and

WHEREAS, environmental corridors in the Village of DeForest are being modified to include the full extents of Outlots 11-13 of the replat and Outlot 1 of the Snyder CSM. Environmental corridors have been previously established to include the full extents of Outlots 6-8 of the plat of Fox Hill Estates. Environmental corridors have also been delineated on parts of Lots 77-79 of the replat, and Lots 1-2 of the Snyder CSM. The areas described are recognized by the Capital Area Regional Planning Commission (CARPC) as being within an environmental corridor, will not receive sanitary sewer service, and are hereinafter collectively referred to as the “exempt outlots,” and

WHEREAS, the existing and proposed sewers will provide immediate service to Lots 77-84 of the replat and to Lots 1-3 of the Snyder CSM. Said parcels are hereinafter referred to as the “Phase 3 Lots,” and

WHEREAS, the proposed sanitary sewer extension will connect to the Village of DeForest’s sanitary sewer facilities and is within the District’s Northeast Interceptor/Highway 19 extension basin, and

WHEREAS, plan review fees are due, and
WHEREAS, conveyance facility and treatment plant connection charges for the lands to be served have not been paid, and

WHEREAS, the District has received a sewer extension review letter #175-20-3 from CARPC dated June 8, 2020 stating the CARPC staff has reviewed the proposed extension and has determined that it is consistent with the urban service area provisions of the Dane County Water Quality Plan and the conditions of Resolution CARPC 2010-17 and DNR Approval Letter DC-0142, which added this area to the Northern Urban Service Area in 2011, and

WHEREAS, the Chief Engineer and Director of the District has recommended the approval of said plans,

THEREFORE, BE IT RESOLVED, that sanitary sewer extension plans for Fox Hill Estates Phase 3, in the Village of DeForest, submitted on June 11, 2020, by Michael Calkins of Snyder & Associates, be approved subject to the following conditions:

1. That the Village of DeForest shall pay the plan review fee of $1,550 to the District within 30 days of receiving an invoice for the fee.

2. That the aforementioned exempt outlots are exempted from conveyance facility and treatment plant connection charges and shall not be served by the Village of DeForest’s public sanitary sewerage system.

3. That the aforementioned deferred lot may not be connected to the public sewerage system at this time. Prior to installation of the proposed sewers, the Village of DeForest shall record a document with the Dane County Register of Deeds, indicating that District connection charges for the deferred lot have not been paid. Said deferred lot is not to be connected to the public sewerage system until appropriate conveyance facility connection charges and treatment plant connection charges have been paid. If the proposed sewers are constructed and said document is not recorded within six months of approval of this resolution, conveyance facility and treatment plant connection charges on the deferred lot shall be due by the Village of DeForest.

4. That prior to installation of the proposed sanitary sewers, the Village of DeForest shall have paid to the District the sum of $644,386.17 for payment of $437,001.02 in Northeast Interceptor/Highway 19 extension conveyance facility connection charges and $207,385.15 in treatment plant connection charges for the lands to be served; said lands being the aforementioned Phase 3 Lots.

5. That if lot areas shown on the final, recorded plat of Fox Hill Estates Replat or Snyder CSM differ from the unrecorded documents submitted to the District for approval, additional conveyance facility and treatment plant connection charges may be due from the Village of DeForest.

6. That payment of the aforementioned conveyance facility and treatment plant connection charges shall be made to the District within six months of the date of
approval of this resolution. If payment in full is not received by the District within six months of the date of this resolution, the approval shall become void and new plans shall be submitted.

7. That conveyance facility and treatment plant connection charges are adjusted from time to time and said connection charges will be due based on the rate in place at the time at which the payment is made.

8. That if said connection charges remain unpaid after construction of said sewer extensions, a late fee of 0.5% of the amount due shall be charged to the Village of DeForest for each month or partial month thereafter following connection. A one-time $500 administrative fee shall also be charged.

9. That the Village of DeForest shall require the presence of an engineer or an inspector on the construction of said sewer extension who shall make a record showing in detail the construction as built and shall furnish the district with as-built plans in the case of any significant deviations from the original design.

10. That the construction, operation, maintenance and use of said sewer extension shall be in accordance with the lawful rules and regulations of the District and with the applicable State of Wisconsin plumbing and sewerage codes.

11. That if construction of the sewer extension covered by said plans has not commenced within four years following the approval date of this resolution, this approval shall become void and new plans shall be submitted. If construction has commenced but has not been completed within the four-year approval period, the unbuilt portion must be submitted for reapproval if it is a significant portion of the project and would require DNR approval.

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District at their meeting held on June 25, 2020.

MADISON METROPOLITAN SEWERAGE DISTRICT

Attested by:

__________________________________  ___________________________________________
Thomas Hovel, President                Mary Swanson, Secretary
COMMISSION AGENDA REPORT
Meeting of June 25, 2020
Award of Contract: 2020 Bulk Ferric Chloride FeCl₃

Lead Staff: Eric Dundee, Director of Wastewater Operations and Reliability

Requested Action: The Commission is requested to adopt resolution 2020-06-25-R2 awarding Kemira Water Solutions, Inc. a contract to furnish and deliver bulk ferric chloride (FeCl₃) from July 1, 2020 through June 30, 2021 at a maximum cost of $230,000 with an option for up to three (3) additional calendar years at a maximum additional cost of $760,000. The total approved transaction amount over the four years would be $990,000.

Attachments:
Attachment 1: Bid Tabulations
Attachment 2: Resolution 2020-06-25-R2

Financial Impact:
The charges associated with furnishing and delivering ferric chloride are anticipated to cost up to $230,000 for the first year covering July 1, 2020 through June 30, 2021 with additional costs in 2021 through 2024. The total maximum contract cost is $990,000.

Background:
Ferric Chloride (FeCl₃) is used at the District to control hydrogen sulfide content in raw biogas as well as for control of nuisance struvite formation in pumps for our sludge thickening and dewatering processes. Ferric chloride chemically binds the hydrogen sulfide and maintains levels low enough to comply with air permit limits as well as extend the life of biogas cleaning equipment. Ferric chloride also chemically binds with ortho-phosphate in fluids associated with our post-digestion thickening and dewatering processes to control buildup and reduce maintenance in these pumps.

Two bids were received on May 26, 2020. Kemira Water Solutions, Inc. provided the low bid for furnishing and delivering bulk ferric chloride. Kemira Water Solutions, Inc. was also found to have provided all necessary contract documents.

Analysis and Options
The District’s production of biogas requires raw biogas to contain less than 1,500 ppm of hydrogen sulfide to remain in compliance with the air emissions permit. Adding ferric chloride in low quantities to the anaerobic digesters allows hydrogen sulfide levels to be controlled
within permit limits. Additionally, reducing the hydrogen sulfide level in raw biogas allows the biogas cleaning equipment to operate more reliably in removal of hydrogen sulfide in the clean biogas, which also ensures lowest cost of operation for that equipment and reliable performance.

The District also uses ferric chloride in centrate and filtrates produced from thickening/dewatering of anaerobically digested sludges, because these fluids are prone to form nuisance struvite deposits and results in premature equipment failure and higher cost to maintain if left unchecked; addition of ferric chloride controls these deposits and is a common means of such control in wastewater facilities.

**Recommendation:**
The Commission is requested to adopt resolution 2020-06-25-R2 awarding Kemira Water Solutions, Inc. a contract to furnish and deliver bulk ferric chloride (FeCl₃) from July 1, 2020 through June 30, 2021 at a maximum cost of $230,000 with an option for up to three (3) additional calendar years at a maximum additional cost of $760,000. The total approved transaction amount over the four years would be $990,000.

Key considerations:
- Kemira Water Solutions, Inc. has provided all necessary documentation, was the low bid, and is qualified to furnish and deliver the chemical
- Kemira Water Solutions, Inc is the current supplier and is known to be capable of continuing to fill the District’s needs
- A one-year contract with the ability to continue the contract for up to an additional three years will allow the District to maintain supply of the chemical while providing flexibility to procure the chemical at the lowest cost in future years

**Option 1:**
Reject all proposals and maintain current purchasing agreement with existing vendor.

Key considerations:
- Without a contract, the District has more flexibility to purchase ferric chloride from other vendors.
- Could lead to higher costs compared to the recommended option

**Option 2:**
Discontinue use of ferric chloride.

Key considerations:
- The District could discontinue use of ferric chloride
- Hydrogen sulfide content in the raw biogas would be uncontrollable and variations above the permit limit would be reported as violations of the District’s air permit
• Higher costs for equipment O&M for biogas cleaning equipment as well as sludge dewatering systems.

**Next Steps:**
Upon approval of the Commission, a contract will be executed with Kemira Water Solutions, Inc.
Bid Opening  
May 26, 2020 1:00 pm  
2020 Ferric Chloride

**Present:** Eric Dundee, Director of Operations and Maintenance  

**Witness:** Jessica Spiegel, Resource Team Associate

<table>
<thead>
<tr>
<th>Bidding Company</th>
<th>Comments</th>
<th>Lump Sum ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Univar Solutions</td>
<td>No bid enclosed</td>
<td>N/A</td>
</tr>
<tr>
<td>PVS Technologies</td>
<td>$694 per dry ton for 37-42%</td>
<td>$141,840</td>
</tr>
<tr>
<td>Kemira</td>
<td>$554 per dry ton for 37-42%</td>
<td>$209,412</td>
</tr>
</tbody>
</table>

Witness Signature: [Signature]

**NOTATION:** No bids received for 33-36% concentration
WARD OF CONTRACT: 2020 Bulk Ferric Chloride FeCl₃
2020-06-25-R2

WHEREAS, The Madison Metropolitan Sewerage District (“District”) uses ferric chloride in its treatment process, and

WHEREAS, the District advertised a request for proposals to furnish and deliver ferric chloride on May 11, 2020 and May 18, 2020, and

WHEREAS, the District publicly opened and read aloud bids for an estimated annual cost for ferric chloride on May 26, 2020, and

WHEREAS, Kemira Water Solutions, Inc. was the low bidder at $554 per dry ton of ferric for an estimated total of $230,000 for ferric chloride deliveries from July 1, 2020, to June 30, 2021 and

WHEREAS, the annual contract can be extended for up to three additional years if mutually agreed upon by both parties, and

WHEREAS, the estimated overall contract cost for the maximum length of contract exceeds $50,000, and

THEREFORE, BE IT RESOLVED, that a contract be awarded to Kemira Water Solutions, Inc. to furnish and deliver ferric chloride subject to the following conditions:

1. The initial contract will start on July 1, 2020 and run through June 30, 2021, with an option to extend the contract up to three (3) periods of twelve (12) months each with mutual consent of both parties.

2. Price changes may be proposed by either party no later than ninety (90) days prior to contract extension. The contract will not be extended if price change is not accepted by both parties. Supplier price changes must be supported with documentation. Increase in price must be approved by the Chief Engineer and Director, and by the commission if transaction approval authority limits are exceeded on an annual basis. If the District deems a proposed cost for the upcoming year as not acceptable, it reserves the right to re-bid the contract in whole or part.
3.

<table>
<thead>
<tr>
<th>Year</th>
<th>Maximum Transaction Amount</th>
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<tbody>
<tr>
<td>July 1, 2020 to June 30, 2021</td>
<td>$230,000</td>
</tr>
<tr>
<td>July 1, 2021 to June 30, 2022</td>
<td>$241,000</td>
</tr>
<tr>
<td>July 1, 2022 to June 30, 2023</td>
<td>$253,000</td>
</tr>
<tr>
<td>July 1, 2023 to June 30, 2024</td>
<td>$266,000</td>
</tr>
</tbody>
</table>

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District at their meeting held on June 25, 2020.

**MADISON METROPOLITAN SEWERAGE DISTRICT**

*Attested by:*

____________________________  ______________________________
Thomas Hovel, President      Mary Swanson, Secretary
Lead Staff: Todd Gebert, Capital Planning Engineer
William Walker, Director of Planning & Strategy

Requested Action: No action is required. This is a study session with the Commissioners on the draft 2021 Capital Improvements Plan (CIP). Staff will ask for acceptance of the plan at the July 16, 2020 Commission meeting.

Attachments:
Attachment 1: Draft 2021 Capital Improvements Plan (available via district website after the meeting)
Attachment 2: Comparison of 2020 Capital Budget & 2021 Draft CIP

Financial Impact:
The Capital Improvements Plan (CIP) does not directly authorize expenditures. Spending authorization is given in the capital budget each fall. However, the projects proposed in the CIP have a significant impact on the District’s long-term finances, as described in the draft plan.

Background:
The CIP is a six-year plan for District capital projects. Most capital projects span multiple years. The plan sets forth the scope and justification for each project as well as the schedule and estimated costs. Funding sources for all projects are identified and their impact on the District’s financial situation is also assessed in the plan. The District updates its CIP annually to reflect project progress, changing needs and other issues.

The plan informs the District’s capital projects budget, authorized each fall. The Commission reviews the CIP before budget deliberations to improve planning and to give the Commission time to review and consider capital projects. Because the CIP does not directly authorize expenditures and is used only for planning purposes, the Commission “accepts” the CIP for planning purposes but does not “adopt” or “authorize” the CIP as it does the capital budget.

Analysis and Options:
The draft 2021 Capital Improvements Plan will be presented for Commission review, discussion and comment. No action is required at the study session on June 25, 2020. Staff will ask for
acceptance of the plan at the July 16, 2020 Commission meeting. As a draft, the CIP is subject to change up to and through approval of the capital budget in October.

The 2021 draft CIP proposes an increase in the annual cash transfer from the operating fund to the capital projects fund. These increases are proposed to support costs of projects that are not eligible for subsidized Clean Water Fund loans, to offset the anticipated loss of connection charge revenue due to the COVID-19 pandemic, and to better position the capital reserves fund for long term fiscal sustainability. Details of financing aspects of the plan will be presented in a Companion session at this meeting.

The draft plan will be available under the Planning/Budget & Finance section ([Madison Metropolitan Sewerage District > Planning > Budget & Finance](#)) of the District’s website shortly following its presentation to the Commission. Detailed project information will also be available at that link.

The attached table at the end of this report compares the 2020 capital budget and the draft 2021 CIP. Significant changes or other highlights of the table are summarized below (note that the project name and project identifier have been included in the description to allow for reference to the draft 2021 CIP):

- **Resource Recovery Facility (A03).** This project will investigate the feasibility of developing an alternate end use product for the District’s biosolids. Preliminary study and testing to date have focused on a composted product. The project budget for the 2021 CIP includes costs for planning, study, testing and design of possible future improvements. Costs for future infrastructure have been removed from the project budget at this time. Any necessary infrastructure costs for this item will be offset, in part, by savings from the avoided purchase of Metrogro applicators within the next five years (see related Project ID A08).

- **Metrogro Applicators & Equipment (A08).** The District has four biosolids applicators that will be reaching the recommended number of service hours within the next five years. It is proposed that a new applicator be purchased each year between 2021 and 2024 to ensure that the equipment is dependable and meets the necessary standards. It is possible that these equipment purchases may not be needed, pending the results of a comprehensive biosolids study that will be performed in 2020.

- **Operations Building First Floor Remodel (A09).** This project will remodel the lab and control room on the first floor of the Operations Building to improve working conditions for staff and to improve safety for both staff and the general public during tours. The scope of the project has been increased to include a new pedestrian bridge which will connect the lab entrance and the main entrance to the Operations Building. The expanded scope also includes landscaping renovations at the main entrance.
• **Lagoon Dikes Improvements (A13).** The heavy rains and subsequent flooding in the Madison area in the fall of 2018 demonstrated the need to protect critical infrastructure from rising flood waters. Small leaks were observed in the district’s lagoon dikes during the 2018 flooding and further study is required to ensure that they are stable. This multi-year project will involve a thorough investigation of the stability of the dikes and implement any recommended repairs. The project budget for the 2021 CIP has been increased to better reflect the level of staff involvement that will be needed to manage the project.

• **Plant HVAC Improvements (A14).** The project in the 2020 CIP focused on improvements to the HVAC systems in dissolved air flotation (DAF) thickener 1 and in the Gravity Belt Thickener building. The project scope for the 2021 CIP has been expanded to take a more comprehensive look at the HVAC needs for all plant buildings and systems constructed prior to the Eleventh Addition project.

• **Northeast Interceptor Joint Grouting Manhole 10-101 to Manhole 10-106 (B02).** Significant amounts of inflow and infiltration (I/I) have been observed upstream of Pumping Station 10 in the Northeast Interceptor for a distance of approximately 5,000 feet. A project is currently underway to locate and rehabilitate the sources of I/I in one-half of the defective sewer length. This project will correct the I/I in the remaining half.

• **West Interceptor – Shorewood Relief (B03).** This project will increase the capacity of the District’s West Intercepting System along the University Avenue corridor from Walnut Street to Whitney Way. Due to the length and complexity of the project, construction is scheduled in three separate phases, with the first phase proposed for 2021 between Whitney Way and Shorewood Boulevard.

• **Northeast Interceptor – Truax Extension Rehabilitation (B04).** The Northeast Interceptor – Truax Extension Relief Sewer is nearing completion. Once completed, the original 1969 sewer which is roughly parallel to the relief sewer will need to be rehabilitated to address corrosion issues. The 2020 CIP proposed undertaking this project in 2021 but it has been moved back one year due to staffing and budgetary issues.

• **NSVI Capacity Improvements – Phase I (B08).** Continued growth in the southwest portions of the District’s service area will require additional capacity in the District’s Nine Springs Intercepting System. A capacity improvement project is currently under design along the Military Ridge and Cannonball bike trails from McKee Road to Dunn’s Marsh. Additional projects will be needed in the coming years. This project is the first of at least four planned projects that will be undertaken over the next 15-20 years to address capacity needs in this interceptor system.
• **Pumping Station 6 to Pumping Station 10 Connector (B09).** While the District’s pumping stations operate efficiently and reliably, they are still susceptible to intermittent outages caused by disruptions in the electrical power grid and force main breaks. One way to mitigate against these occurrences is to connect pumping stations with redundant lines that allow the diversion of flow in wet weather or other extreme events. This project proposes to connect Pumping Station 10, currently the District’s second highest station in terms of flow, with Pumping Station 6 via a gravity connector.

• **Grass Lake Dike Stabilization (C01).** This project was undertaken to investigate the condition of the dikes separating the District’s Badfish Creek effluent channel and Grass Lake. Based on a consultant’s study in 2018 and 2019, there are several sections of the channel which are badly eroded and in need of repair. The 2021 CIP includes the latest estimate of funds which are necessary to rehabilitate and restore the effluent channel using a variety of construction methods.

• **Pumping Station 17 Force Main Relief – Phase 1 (C02) & Phase 2 (C06).** Work for this phased project includes constructing a relief force main for Pumping Station 17 in advance of the station reaching capacity in 2024. Phase 1 is scheduled for construction in 2020-2021 and Phase 2 will be constructed in 2023. The design and construction of Phase 1 is being coordinated with the City of Verona’s plans to replace a gravity sewer in the same corridor along Badger Mill Creek in an effort to minimize disruption to the public, reduce utility conflicts, and maximize economies of scale. The project budgets for both phases in the 2021 CIP have been increased to reflect the final design of the Phase 1 improvements.

• **Pumping Station 13 & 14 Rehabilitation (C03).** Both of these stations are approaching service lives of 50 years. As such, the projects include replacement of all major systems including pumps, electrical and control equipment and HVAC. New flowmeters and standby electrical generators will also be provided. The cost estimates in the 2021 CIP are based on the final plans and specifications for the project.

• **Pumping Station 17 Rehabilitation (C05).** The capacity of Pumping Station 17 will be exceeded when flows in the Lower Badger Mill Creek watershed north of Midtown Road are diverted to Pumping Station 17. This is expected to occur in or about 2024. Prior capital improvement plans proposed to increase capacity at the station with modest improvements that focused only on capacity needs. The project in the 2021 CIP includes an expanded scope that also addresses condition needs such as replacement of electrical and control equipment and the HVAC system.

• **Badger Mill Creek Phosphorus Compliance (D03).** The District’s discharge permit from the WDNR includes provisions to reduce the concentration of phosphorus in the effluent to Badger Mill Creek over a nine-year period. The District began studying options to meet these new requirements well in advance of the permit’s reissuance earlier this
year. Initial efforts have been focused on pilot testing new technologies to reduce concentrations at the treatment plant. The current project budget includes costs to identify and investigate compliance options up through the year 2023. The project budget will be updated in future capital improvements plans to reflect any required infrastructure that is identified from the chosen compliance option.

**Next Steps:**
Commissioners are invited to review the draft CIP on the District’s website. A follow-up session scheduled for the July 16, 2020 Commission meeting will allow for further discussion and comment. At that session, staff will ask for “Acceptance of the Draft 2021 Capital Improvements Plan for Planning Purposes” and will ask for guidance on the financing aspects of the plan.

Staff will develop the 2021 capital projects fund budget based upon the projects and financing plan included in the accepted 2021 CIP with the inclusion of any changes as recommended by the Commission. Staff will inform the Commission of any additional project changes that occur prior to final approval of the 2021 capital projects fund budget and 2021 CIP.
### Attachment 2: Table Showing Comparisons between 2020 Capital Budget and 2021 CIP

<table>
<thead>
<tr>
<th>2021 CIP ID</th>
<th>Project Description</th>
<th>Anticipated Total Project Cost</th>
<th>Construction (or planning) start</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2020 Capital Budget</td>
<td>2021 CIP Budget</td>
<td>difference</td>
<td>% difference</td>
</tr>
<tr>
<td></td>
<td>$</td>
<td>$</td>
<td>$</td>
<td></td>
</tr>
<tr>
<td>- Liquid Processing Improvements - Phase 1</td>
<td>16,788,000</td>
<td>16,818,000</td>
<td>30,000</td>
<td>0%</td>
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<tr>
<td>- Headworks Flow Metering</td>
<td>2,291,000</td>
<td>2,291,000</td>
<td>-</td>
<td>0%</td>
</tr>
<tr>
<td>A01.1 Activated Sludge Projects</td>
<td>10,769,000</td>
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<tr>
<td>A01.2 Nitrite Shunt/Low DO Pilot</td>
<td>2,631,000</td>
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<td>160,000</td>
<td>6%</td>
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<tr>
<td>A01.3 Septage Receiving Modifications</td>
<td>3,392,000</td>
<td>3,502,000</td>
<td>110,000</td>
<td>3%</td>
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<tr>
<td>A01.4 Headworks Screening</td>
<td>3,999,000</td>
<td>4,109,000</td>
<td>110,000</td>
<td>3%</td>
</tr>
<tr>
<td>A01.5 Plant Aeration Systems Projects (Nitrite Shunt/Low DO)</td>
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<td>1,339,000</td>
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<tr>
<td>A01.6 East and West Blower Switchgear</td>
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<td>(2,000)</td>
<td>0%</td>
</tr>
<tr>
<td>A02 Final Clarifier 4, 5 and 6 Effluent Launder Trough Replacement</td>
<td>239,000</td>
<td>239,000</td>
<td>-</td>
<td>0%</td>
</tr>
<tr>
<td>A03 Resource Recovery Facility</td>
<td>2,899,000</td>
<td>899,000</td>
<td>(2,000,000)</td>
<td>-69%</td>
</tr>
<tr>
<td>A04.1 Energy Management Master Plan</td>
<td>624,000</td>
<td>624,000</td>
<td>-</td>
<td>0%</td>
</tr>
<tr>
<td>A04.2 Plant Energy Facilities Plan</td>
<td>942,000</td>
<td>942,000</td>
<td>-</td>
<td>0%</td>
</tr>
<tr>
<td>A04.3 Plant Energy Projects</td>
<td>17,524,000</td>
<td>17,529,000</td>
<td>5,000</td>
<td>0%</td>
</tr>
<tr>
<td>A05 Annual Process Tank Coating and Repair</td>
<td>1,232,000</td>
<td>1,076,000</td>
<td>(156,000)</td>
<td>-13%</td>
</tr>
<tr>
<td>A06 Annual Pavement Improvements</td>
<td>392,000</td>
<td>408,000</td>
<td>16,000</td>
<td>4%</td>
</tr>
<tr>
<td>A07 Minor Capital Improvements</td>
<td>706,000</td>
<td>726,000</td>
<td>20,000</td>
<td>3%</td>
</tr>
<tr>
<td>A08 Metrogro Applicators &amp; Equipment</td>
<td>4,104,000</td>
<td>4,148,000</td>
<td>44,000</td>
<td>1%</td>
</tr>
<tr>
<td>A09 Operations Building First Floor Remodel</td>
<td>1,729,000</td>
<td>2,397,000</td>
<td>668,000</td>
<td>39%</td>
</tr>
<tr>
<td>A10 Miscellaneous Treatment Plant Projects</td>
<td>545,000</td>
<td>562,000</td>
<td>17,000</td>
<td>3%</td>
</tr>
<tr>
<td>A11 15 KV Electrical Service Replacement</td>
<td>3,002,000</td>
<td>3,093,000</td>
<td>91,000</td>
<td>3%</td>
</tr>
<tr>
<td>A12 CMMIS Replacement</td>
<td>4,282,000</td>
<td>4,373,000</td>
<td>91,000</td>
<td>2%</td>
</tr>
<tr>
<td>A13 Lagoon Dikes Improvements</td>
<td>1,719,000</td>
<td>2,109,000</td>
<td>390,000</td>
<td>23%</td>
</tr>
<tr>
<td>A14 Plant HVAC Improvements</td>
<td>580,000</td>
<td>838,000</td>
<td>258,000</td>
<td>44%</td>
</tr>
<tr>
<td>A15 Campus Space Master Plan</td>
<td>915,000</td>
<td>915,000</td>
<td>-</td>
<td>0%</td>
</tr>
<tr>
<td>B01 NSVI Improvements-McKee Road to Dunn's Marsh</td>
<td>4,621,000</td>
<td>4,754,000</td>
<td>133,000</td>
<td>3%</td>
</tr>
<tr>
<td>B02 Northeast Interceptor Joint Grouting MH10-101 to MH10-106</td>
<td>-</td>
<td>309,000</td>
<td>-</td>
<td>NMF</td>
</tr>
<tr>
<td>B03 West Interceptor - Shorewood Relief (Phases 1-3)</td>
<td>14,242,000</td>
<td>14,646,000</td>
<td>404,000</td>
<td>3%</td>
</tr>
<tr>
<td>B04 NEI - Truax Extension Rehab (lining project)</td>
<td>5,875,000</td>
<td>5,991,000</td>
<td>116,000</td>
<td>2%</td>
</tr>
<tr>
<td>B05 NEI - Waunakee Extension Relief (Phase 1)</td>
<td>7,665,000</td>
<td>7,133,000</td>
<td>(532,000)</td>
<td>-7%</td>
</tr>
<tr>
<td>B06 NEI - FEI to SEI Rehab (lining project)</td>
<td>2,069,000</td>
<td>2,070,000</td>
<td>1,000</td>
<td>0%</td>
</tr>
<tr>
<td>B07 Lower Badger Mill Creek Interceptor - Phase 5</td>
<td>4,291,000</td>
<td>4,289,000</td>
<td>(2,000)</td>
<td>0%</td>
</tr>
<tr>
<td>B08 NSVI Capacity Improvements - Phase 1</td>
<td>-</td>
<td>13,250,000</td>
<td>-</td>
<td>NMF</td>
</tr>
</tbody>
</table>

NMF = No meaningful figure.
## Attachment 2: Table Showing Comparisons between 2020 Capital Budget and 2021 CIP

<table>
<thead>
<tr>
<th>2021 CIP ID</th>
<th>Project Description</th>
<th>2020 Capital Budget</th>
<th>2021 CIP Budget</th>
<th>Difference</th>
<th>% Difference</th>
<th>Construction (or planning) start</th>
<th>2020 Capital Budget</th>
<th>2021 CIP Budget</th>
<th>Difference</th>
<th>% Difference</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>B09</td>
<td>Pump Station 6 to Pump Station 10 Connector</td>
<td>- $7,097,000</td>
<td>$7,097,000</td>
<td>-</td>
<td>NMF</td>
<td>- $0</td>
<td>-</td>
<td>2024</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C01</td>
<td>Grass Lake Dike Stabilization</td>
<td>$542,000</td>
<td>$864,000</td>
<td>$322,000</td>
<td>59%</td>
<td>2020</td>
<td>2021</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C02</td>
<td>PS 17 Force Main Relief - Phase 1</td>
<td>$2,994,000</td>
<td>$3,346,000</td>
<td>$352,000</td>
<td>12%</td>
<td>2020</td>
<td>2020</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C03</td>
<td>PS 13 &amp; PS 14 Rehabilitation</td>
<td>$11,350,000</td>
<td>$11,973,000</td>
<td>$623,000</td>
<td>5%</td>
<td>2020</td>
<td>2020</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C04</td>
<td>PS 4 Rehabilitation</td>
<td>$5,162,000</td>
<td>$5,328,000</td>
<td>$166,000</td>
<td>3%</td>
<td>2021</td>
<td>2022</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C05</td>
<td>PS 17 Rehabilitation</td>
<td>$1,623,000</td>
<td>$5,232,000</td>
<td>$3,609,000</td>
<td>222%</td>
<td>2023</td>
<td>2023</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C06</td>
<td>PS 17 Force Main Relief - Phase 2</td>
<td>$3,049,000</td>
<td>$4,276,000</td>
<td>$1,227,000</td>
<td>40%</td>
<td>2023</td>
<td>2023</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C07</td>
<td>PS 16 Force Main Rehabilitation</td>
<td>$1,657,000</td>
<td>$1,652,000</td>
<td>$5,000</td>
<td>0%</td>
<td>2023</td>
<td>2023</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C08</td>
<td>Miscellaneous Collection System Improvements</td>
<td>$515,000</td>
<td>$451,000</td>
<td>$64,000</td>
<td>-12%</td>
<td>Annual</td>
<td>Annual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D01</td>
<td>Capital Budget Expenses</td>
<td>$334,000</td>
<td>$334,000</td>
<td>-</td>
<td>0%</td>
<td>Annual</td>
<td>Annual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D02</td>
<td>Collection System Facilities Plan Update</td>
<td>$206,000</td>
<td>$206,000</td>
<td>-</td>
<td>0%</td>
<td>2018</td>
<td>2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D03</td>
<td>Badger Mill Creek Phosphorus Compliance</td>
<td>$1,733,000</td>
<td>$1,499,000</td>
<td>$274,000</td>
<td>-15%</td>
<td>2019</td>
<td>2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NMF = No meaningful figure.
COMMISSION AGENDA REPORT
Meeting of June 25, 2020

Capital Finance Metrics and Anticipated 2021 Capital Budget

Lead Staff: William D. Walker, Director of Planning and Strategy
            Todd Gebert, Capital Planning Engineer

Requested Action: None.

Attachments: None.

Financial Impact:
This agenda item will have no immediate financial impact.

The Capital Improvements Plan (CIP) is a significant driver of District spending. This agenda item will review the proposed capital finance plan for the draft 2021 CIP. At the next Commission meeting, Commissioners will be asked to provide general direction on the financing plan. That information will be used to prepare the District’s proposed 2021 budget, for introduction to the commission in September. Financial impact will be determined by Commission action on the budget.

Background:
District staff are gradually improving the District’s approach to capital financing, as part of the strategic financial planning effort involving the Commission. This agenda item is a step in that effort. Staff will review Commission financial priorities, introduce metrics for evaluating performance, and explain how the metrics guided development of the 2021 CIP capital financing plan.

This is a companion session to the one presenting the draft 2021 Capital Improvements Plan.

Analysis:
In January 2020, the Commission agreed on three priorities for staff to follow in District financial planning: (1) smooth year-over-year service charge increases; (2) limit debt obligations; and (3) maintain capacity to handle unexpected costs without excessive short-term revenue increases. Staff used these priorities in developing the capital financing plan for the 2021 CIP.
To do so, staff prepared seven tentative financial metrics, to assess performance against the Commission priorities. These are:

1. Service charge impacts: Year-over-year percentage increase in the amount transferred from the operating fund to support the capital program.
2. Debt usage: Proportion of capital spending supported by borrowing.
3. Debt obligations: Total outstanding principal.
4. Capital fund cash flow risk: Annual closing balance relative to average annual spending over the planning period.
5. Capital fund revenue loss or unplanned expense risk: Available closing balance in year six relative to total cash inflow over the period.
6. Debt fund cash flow risk: (same as capital).
7. Debt fund revenue loss or unplanned expense risk: (same as capital).

Staff will explain the details of each metric and relate them to the Commission’s priorities. In addition, staff will explain how the metrics informed the preparation of the 2021 CIP capital financing plan.

**Next Steps:**
Commissioners are invited to review the draft CIP on the District’s website. A follow-up session scheduled for the July 16, 2020 Commission meeting will allow for further discussion and comment. At that session, staff will ask for “Acceptance of the Draft 2021 Capital Improvements Plan for Planning Purposes” and will ask for guidance on the financing aspects of the plan.

Staff will develop the 2021 capital projects fund budget based upon the projects and financing plan included in the accepted 2021 CIP with the inclusion of any changes as recommended by the Commission. Staff will inform the commission of any additional project changes that occur prior to final approval of the 2021 capital projects fund budget and 2021 CIP.

Furthermore, the Commission will have a study session in November to further refine the financial metrics and to adjust Commission policies as needed.
COMMISSION AGENDA REPORT
Meeting of June 25, 2020

WPDES Permit Update

Lead Staff: Martye Griffin, Ecosystem Services Director

Requested Action: The Commission is requested to approve resolution (2020-06-25-R3) authorizing the Chief Engineer and Director to work with legal services to file a petition for a contested case hearing around the permit condition outlining the District disinfection duration requirements.

Attachments:
Attachment 1: Resolution (2020-06-25-R3)
Attachment 2: Sustainable Action Maps

Financial Impact:
The financial impact is dependent upon the Commission action taken. The cost for the contested case hearing process is anticipated to be from $30,000 to $80,000. The cost of adhering to the extended disinfection season permit condition could result in approximately a $750,000 operating expense increase for life of the equipment.

Background:
The standard provision for disinfection under NR 210.06(1) requires disinfection “From May 1 to September 30 annually...”. The District’s current (2010) WDPES permit has a slightly extended disinfection season of April 15 to October 15. The draft issued for public comment on April 2019 retained those requirements. The final permit issued by DNR on April 30, 2020 extends the disinfection period from the previous permit by three months from March 1 to November 30.

Analysis and Options:
District staff evaluated options related to the extended disinfection season requirement in our reissued WPDES permit. Staff used a sustainability framework called the Sustainable Action Map (SAM) to develop a recommendation (Attachment 2).

Recommendation:
The Commission is requested to approve resolution (2020-06-25-R3) authorizing the Chief Engineer and Director to work with legal services to file a petition for a contested case hearing around the permit condition outlining the District disinfection duration requirements.
Key considerations:

- There is no scientific basis between bacteria levels and public health for non-contact recreation.
- Bacteria levels during months with no disinfection will be higher than those months with disinfection.
- Without knowing the source of the bacteria extending the District’s disinfection season may not decrease bacteria levels.
- Not extending the operation of the UV system will minimize impacts on air quality and resource consumption.
- Allows for safer facility maintenance for District employees.
- High bacteria may be perceived as a public health threat in the absence of a risk exposure study.
- Place District on same regulatory playing field as other regulated point sources on the same waterbody.

Option 1:
Authorize the Chief Engineer and Director to accept our new permit requirement with an extended disinfection season and not file a petition for contested case hearing.

Key considerations:

- Life cycle cost of an additional $750,000 due to a nine-year loss in expected life of the equipment and needing to replace the equipment sooner than the projected 25-year life cycle.
- Current studies do not support increased health of extended disinfection to recreation users.
- Public feels safer as there is a perception that extended disinfection reduces risks to non-contact recreational use.
- Environmental benefits of providing disinfected water longer resulting on lower levels of bacteria during the months of November and May offset by increased environmental impact of larger carbon footprint of running equipment longer and mercury usage related to more frequent bulb disposal.
- Maintenance activities performed during winter conditions potentially requiring mitigation efforts to ensure worker safety.
- District held to a higher standard than other utilities in the state and on the same receiving water.
- Risk of violating permit conditions of performing maintenance is necessary during the extended UV season to protect workers from winter maintenance.

Next Steps:
Next steps are contingent upon the chosen option of the Commission.
WPDES PERMIT UPDATE
2020-06-25-R3

WHEREAS, Wis. Admin Code NR 210.06 prescribes the disinfection season from May 1 to September 30, and

WHEREAS, the District’s 2010 WDPES permit has an extended disinfection season of April 15 to October 15, and

WHEREAS, The District’s 2020 WPDES permit issued by DNR on April 30, 2020, extends the disinfection period from the 2010 permit by three months from March 1 to November 30, and

WHEREAS, there is no scientific basis between bacteria levels and public health for non-contact recreation, and

WHEREAS, clarifier cleaning is a necessary part of annual maintenance, the colder the weather the more hazardous maintenance becomes when working in below freezing conditions, and

WHEREAS, clarifier cleaning performed during the disinfection season to protect worker safety increases the risk of having dislodged accumulated organic matter trigger a permit violation, and

WHEREAS, a projected additional $750,000 life cycle cost due to needing to replace the equipment sooner than the projected 25-year life of the equipment, and

WHEREAS, District staff evaluated options related to the extended disinfection season requirement using sustainability framework called the Sustainable Action Map (SAM) (attachment 2).

NOW, THEREFORE, BE IT RESOLVED by the Madison Metropolitan Sewerage District Commission, and following consideration of the above recitals which are incorporated by reference, as follows:

1. The Commission is requested to approve resolution (2020-06-25-R3) authorizing the Chief Engineer and Director to work with legal services to file a petition for a contested case hearing around the permit condition outlining the District disinfection duration requirements.

The above resolution was adopted by the Commissioners of the Madison Metropolitan Sewerage District at their meeting held on June 25, 2020.
Incorporated by Reference:
Attachment 2: Sustainable Action Map

MADISON METROPOLITAN SEWERAGE DISTRICT

Attested by:

________________________________
Thomas Hovel, President

________________________________
Mary Swanson, Secretary
## S.A.M.

**Sustainable Action Map**

**Name:** Paul, Martye, Eric and Michael  
**Decision:** UV Disinfection - Season Extended

### Healthy Environment

<table>
<thead>
<tr>
<th>Natural</th>
<th><strong>How does it impact environmental health?</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>![Checkmark]</td>
</tr>
<tr>
<td><strong>S:</strong></td>
<td>Results in lower levels of bacteria and viruses in receiving water during extended season.</td>
</tr>
</tbody>
</table>

### Strong Community

<table>
<thead>
<tr>
<th>Individual</th>
<th><strong>How does it directly impact the well-being of people?</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>![Checkmark]</td>
</tr>
<tr>
<td><strong>S:</strong></td>
<td>People feel safer. There is the perception that it reduces risks to non-contact recreational uses.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Community</th>
<th><strong>How does it impact relationships, effective government, social justice, and overall livability?</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>![Checkmark]</td>
</tr>
<tr>
<td><strong>S:</strong></td>
<td>Promotes district going above and beyond what others in state are doing.</td>
</tr>
<tr>
<td><strong>W:</strong></td>
<td>Studies do not support increased health to recreation users.</td>
</tr>
<tr>
<td><strong>W:</strong></td>
<td>Maintenance activities to be performed during winter/dangerous conditions.</td>
</tr>
<tr>
<td><strong>W:</strong></td>
<td>Worker morale decreased when job conditions deteriorate.</td>
</tr>
<tr>
<td><strong>O:</strong></td>
<td>Climate change may open waters to more recreational use for extended periods.</td>
</tr>
<tr>
<td><strong>O:</strong></td>
<td>District held to higher standard than other POTWs, including the same receiving water.</td>
</tr>
<tr>
<td><strong>O:</strong></td>
<td>May risk permit violations when performing maintenance during UV season.</td>
</tr>
</tbody>
</table>

### Vital Economy

<table>
<thead>
<tr>
<th>Economy</th>
<th><strong>How does it impact the local economy and at what long and short term costs?</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>![Checkmark]</td>
</tr>
<tr>
<td><strong>S:</strong></td>
<td>Higher use will require more parts, purchases stimulating the economy</td>
</tr>
<tr>
<td><strong>W:</strong></td>
<td>$760K present worth cost increase.</td>
</tr>
<tr>
<td><strong>W:</strong></td>
<td>Costs to mitigate climate impacts through purchase of green power</td>
</tr>
<tr>
<td><strong>O:</strong></td>
<td>Could lead to increased recreation in colder months.</td>
</tr>
<tr>
<td><strong>T:</strong></td>
<td>Contracted work to perform maintenance work to limit liability.</td>
</tr>
<tr>
<td><strong>T:</strong></td>
<td>Public and our customer communities are very sensitive to rate impacts</td>
</tr>
<tr>
<td><strong>T:</strong></td>
<td>DNR may impose future non science based standards that could have greater economic impacts.</td>
</tr>
</tbody>
</table>

### SWOT

- **S** = Strengths  
- **W** = Weaknesses  
- **O** = Opportunities  
- **T** = Threats
# ATTACHMENT 2

**S.A.M.**

Sustainable Action Map

**Name:** Paul, Martye, Eric and Michael  
**Decision:** Do Not Extend Disinfection Season

<table>
<thead>
<tr>
<th>Healthy Environment</th>
<th>Strong Community</th>
<th>Vital Economy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Natural:</strong> How does it impact environmental health?</td>
<td><strong>Individual:</strong> How does it directly impact the well-being of people?</td>
<td><strong>Economy:</strong> How does it impact the local economy and at what long and short term costs?</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>S:</strong> Minimizes impact on air quality and resource consumption.</td>
<td><strong>S:</strong> It allows for safer facility maintenance for District employees.</td>
<td><strong>S:</strong> Supports asset management decision making principles of risk/hazard and total life cycle cost.</td>
</tr>
<tr>
<td><strong>W:</strong> It is likely (based on Rock Co data) that bacteria levels in the Yahara/Rock system will increase during months without disinfection.</td>
<td><strong>W:</strong> Other POTW on the same streams have no disinfection requirement; variety of other sources contribute to bacteria in stream.</td>
<td><strong>W:</strong> A full legal challenge could cost up to $30 to $80K and take staff time.</td>
</tr>
<tr>
<td><strong>O:</strong></td>
<td><strong>O:</strong> It encourages permit decisions to be based on science not public perception which could have impacts for other emerging contaminants of concern</td>
<td><strong>O:</strong> Budget constraints due to COVID-19</td>
</tr>
<tr>
<td><strong>T:</strong> Without the sources of bacteria identified, extending POTW season may not be the actual solution. Rock County Public Health will be doing a study to trace sources. This has yet to be done.</td>
<td><strong>T:</strong> People might be less willing to recreate in the water if they perceive a public health threat.</td>
<td><strong>T:</strong> Could impact tourism for recreation.</td>
</tr>
<tr>
<td></td>
<td><strong>T:</strong> There may be the perception that failure to extend the season creates a public health issue. This perception could be heightened with the concern over COVID-19.</td>
<td>Decreased demand for waste recycling businesses due to fewer lamp and component replacements</td>
</tr>
</tbody>
</table>

**SWOT:** S=Strengths  W=Weaknesses  O=Opportunities  T=Threats

**Leadership Required**  ✓

**Manageable Risks**

**Value Delivered**

---

*Madison Metropolitan Sewerage District*
COMMISSION AGENDA REPORT
Meeting of June 25, 2020
Closed Session of Consultation with Legal Services
on Potential Litigation Related to WPDES Permit

Lead Staff: Martye Griffin, Director of Ecosystem Services

Requested Action: The Commission will receive information and options relative to the re-issuance of the WPDES Discharge Permit by the DNR in 2020.

Attachments: None.

Financial Impact: None at this time.

Background: The Commission will Convene in Closed Session in Accordance with Wis. Stat. s. 19.85(1)(g) for the purpose of conferring with legal counsel for oral or written advice concerning strategy to be adopted by the Commission with respect to litigation in which it is or is likely to become involved associated with its WPDES permit.

Next Steps: The Commission will review information regarding decision options around the permit reissuance in closed session and will take action as appropriate in open session.
<table>
<thead>
<tr>
<th>Month</th>
<th>Raw (MGD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan-17</td>
<td>39.327</td>
</tr>
<tr>
<td>Feb-17</td>
<td>39.880</td>
</tr>
<tr>
<td>Mar-17</td>
<td>41.600</td>
</tr>
<tr>
<td>Apr-17</td>
<td>43.669</td>
</tr>
<tr>
<td>May-17</td>
<td>42.889</td>
</tr>
<tr>
<td>Jun-17</td>
<td>43.637</td>
</tr>
<tr>
<td>Jul-17</td>
<td>50.007</td>
</tr>
<tr>
<td>Aug-17</td>
<td>45.015</td>
</tr>
<tr>
<td>Sep-17</td>
<td>41.812</td>
</tr>
<tr>
<td>Oct-17</td>
<td>40.917</td>
</tr>
<tr>
<td>Nov-17</td>
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**17 Avg**

- 42.077, 86.536, 1.397, 300, 88.234, 0.090, 0.398, 0.506, 40.571, 3.339
  - 0.096, 0.098, 0.094

**18 Avg**

- 44.829, 92.415, 1.361, 1.742, 95.925, 0.240, 0.638, 0.509, 43.065, 3.220
  - 0.005, 0.097, 0.092

**19 Avg**

- 46.028, 100.129, 1.650, 413, 102.193, 0.141, 0.597, 0.574, 43.665, 3.331
  - 0.005, 0.093, 0.079

**20 Avg**

- 42.018, 87.995, 1.602, 237, 89.833, 0.074, 0.489, 0.559, 40.332, 3.152
  - 0.032, 0.078, 0.119

Madison Metropolitan Sewerage District

Nine Springs Wastewater Treatment Plant

Flow Data (from Flows&Performance&AerationQuery)
<table>
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<tr>
<th>Month</th>
<th>Raw Wastewater (mg/L)</th>
<th>Final Effluent (mg/L)</th>
<th>Digestor/Methane Gas Data (kCF/day)</th>
<th>Process Air Usage (cubic feet)</th>
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<td>BOD / TSS / TKN / TP</td>
<td>BOD / CBOD / TSS / NH4 / TP</td>
<td>CI Produced / Purchased / Used / Flared</td>
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<td>259 212 45.5 5.50</td>
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<td>1.13 835 434</td>
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**17 Avg**

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<th>Raw Wastewater (mg/L)</th>
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**18 Avg**

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**19 Avg**

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**20 Avg**

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<th>Raw Wastewater (mg/L)</th>
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Effluent CBOD limits in effect starting May 2020 (2020 values in grey box are BOD values for limit in effect)
**Location:** Maintenance Training Facility  
**Note:** All dates are tentative and subject to change

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<thead>
<tr>
<th>Meeting Date</th>
<th>Agenda Topics</th>
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| **06/25/2020**  
8 a.m. | **Consent**  
➢ Approval of Minutes from 6-11-20  
➢ Review and Approval of Sewer Extension Plans – Curt Sauser  
➢ Award of Contract: Bulk Ferric Chloride – Eric Dundee  

**Topics**  
➢ Presentation of 2021-2026 Capital Improvements Plan – Todd Gebert  
➢ Capital Finance Metrics and Anticipated 2021 Capital Budget – Bill Walker  
➢ WPDES Permit and Next Steps – Martye Griffin  
➢ Convene in Closed Session in accordance with 19.85(1)(g) of the Wisconsin Statutes to confer with legal counsel who is rendering oral or written advice concerning strategy to be adopted by the body with respect to litigation in which it is or is likely to become involved associated with its WPDES permit – Martye Griffin  

**CED Update**  
➢ Chief Engineer and Director’s Report – Michael Mucha  
➢ Regulatory/Legal Review – Paul Kent  
➢ Operations Report – Alan Grooms  
➢ Budget Update – Dana Burmaster |
| **07/16/2020**  
8 a.m. | **Consent**  
➢ Approval of Minutes  
➢ Cash Statements: Operating and Capital Projects  
➢ Review and Approval of Sewer Extension Plans – Curt Sauser  

**Topics**  
➢ Auditor’s Presentation of 2019 Financial Statements and Audit Findings – Dana Burmaster  
➢ Approval of 2nd Quarter Sewer Service Charges – Todd Gebert  
➢ Discussion and Acceptance of the 2021 CIP – Todd Gebert  
➢ Project Update: Pumping Stations 13/14 Rehabilitation – Dave Lundey  
➢ Commission Phase-in Discussion — Michael Mucha & Jenni Peters  

**CED Update**  
➢ Chief Engineer and Director’s Report – Michael Mucha  
➢ Regulatory/Legal Review – Vanessa Wishart |
| **07/30/2020**  
8 a.m. | **Consent**  
➢ Approval of Minutes  
➢ Review and Approval of Sewer Extension Plans – Curt Sauser |
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<td><strong>Topics</strong>&lt;br&gt;➢ Adoption of Resolution Authorizing the Issuance of Bond Notes for Clean Water Fund Loan, Series 2020B — <em>Dana Burmaster</em>&lt;br&gt;➢ Discussion on Recording of Commission Meetings — <em>Amanda Wegner</em>&lt;br&gt;&lt;br&gt;<strong>CED Update</strong>&lt;br&gt;➢ Chief Engineer and Director’s Report – <em>Michael Mucha</em>&lt;br&gt;➢ Regulatory/Legal Review – <em>Paul Kent</em>&lt;br&gt;➢ Operations Report – <em>Alan Grooms</em>&lt;br&gt;&lt;br&gt;<strong>Consent</strong>&lt;br&gt;➢ Approval of Minutes&lt;br&gt;➢ Cash Statements: Operating and Capital Projects&lt;br&gt;➢ Review and Approval of Sewer Extension Plans – <em>Curt Sauser</em>&lt;br&gt;➢ Minor Revisions to Sewer Use Ordinance – <em>Jeff Brochtrup</em>&lt;br&gt;&lt;br&gt;<strong>Topics</strong>&lt;br&gt;➢ 2019 Compliance Maintenance Annual Report – <em>Drew Seusse</em>&lt;br&gt;➢ Review of Bids and Award of Contract: Operations Building 1st Floor Remodel – <em>Lisa Coleman</em>&lt;br&gt;➢ Project Update: NSVI Improvements-McKee Road to Dunn’s Marsh– <em>Rachel Feil</em>&lt;br&gt;➢ Discussion on Closed Sessions—<em>Michael Mucha &amp; Paul Kent</em>&lt;br&gt;&lt;br&gt;<strong>CED Update</strong>&lt;br&gt;➢ Chief Engineer and Director’s Report – <em>Michael Mucha</em>&lt;br&gt;➢ WPDES Permit Update – <em>Martye Griffin</em>&lt;br&gt;➢ Regulatory/Legal Review – <em>Paul Kent</em></td>
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<td>➢ Study Session on Defining District Owners — Michael Mucha</td>
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<td>➢ Approval of 3rd Quarter Sewer Service Charges – Todd Gebert</td>
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| **11/12/2020 8 a.m.** | **Consent**  
  - Approval of Minutes  
  - Cash Statements: Operating, Capital Projects and Debt Service  
  - Review and Approval of Sewer Extension Plans – Curt Sauser  
  **Topics**  
  - Strategic Financial Planning Update – Bill Walker  
  **CED Update**  
  - Chief Engineer and Director’s Report – Michael Mucha  
  - Regulatory/Legal Review – Paul Kent  |
| **11/25/2020 8 a.m.** | **Consent**  
  - Approval of Minutes  
  - Review and Approval of Sewer Extension Plans – Curt Sauser  
  **Topics**  
  - TBD  
  **CED Update**  
  - Chief Engineer and Director’s Report – Michael Mucha  
  - Regulatory/Legal Review – Paul Kent  |
| **12/17/2020 8 a.m.** | **Consent**  
  - Approval of Minutes  
  - Cash Statements: Operating and Capital Projects  
  - Review and Approval of Sewer Extension Plans – Curt Sauser  
  **Topics**  
  - Energy Management Master Plan Update – Matt Seib  
  - Annual Chemical Purchase – TBD  
  - UW Partnership Work – TBD  
  **CED Update**  
  - Chief Engineer and Director’s Report – Michael Mucha  
  - Regulatory/Legal Review – Paul Kent |
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