



NORTHERN MORAIN WASTEWATER RECLAMATION DISTRICT

113 Timber Trail, Island Lake, Illinois 60042

REGULAR MEETING MINUTES

November 10, 2020

Zoom Meeting w/ Video: <https://us02web.zoom.us/j/7578151340>

Present by Zoom: Trustees: John Ragland, Timothy Brunn, Lydia Ryberg, Jacob Mann, Ken Michaels (late)
District Manager: Mohammed Haque; District Clerk: Deborah Martin
Others: Superintendent: Luke Markko, Engineer: Joe Lapastora

District Manager Mohammed Haque informed the Board that President Michaels was running late due to problems with commuter trains coming out of Chicago. Manager Haque stated that he would preside over the meeting until President Michaels was able to join. Manager Haque called the meeting to order at 7:30 p.m.

Before starting the meeting, District Manager Haque stated that due to the Governor's statewide disaster declaration relating to COVID-19, and in following social distancing guidelines, it is not prudent for the members of the District Board or staff to convene in person for tonight's meeting. The meeting is being held by video conference. The public is also invited to attend and listen to the meeting through Zoom or by phone as indicated on the meeting agenda. The meeting is being recorded in compliance with the Open Meetings Act.

1. CALL TO ORDER:

Roll Call: Timothy Brunn – Present
John Ragland - Present
Lydia Ryberg – Present
Ken Michaels – Absent, believed to be attending later

2. PLEDGE OF ALLEGIANCE:

Those present recited the Pledge of Allegiance

3. PRESENTATION & APPROVAL OF MINUTES:

a. Regular Meeting, October 13, 2020

Motion by Trustee Brunn to approve the Regular Meeting minutes of October 13, 2020 as presented.

2nd by Trustee Ragland

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Lydia Ryberg – Aye
Ken Michaels – Absent

3 ayes 0 nays 1 absent

MOTION CARRIED

b. Executive Session, October 13, 2020

Motion by Mr. Brunn to approve the Executive Meeting minutes of October 13, 2020 as presented.

2nd by Mr. Ragland

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Lydia Ryberg – Aye
Ken Michaels – Absent

3 ayes 0 nays 1 absent

MOTION CARRIED



Northern Moraine Wastewater Reclamation District
Regular Meeting Minutes
November 10, 2020

4. OATH OF OFFICE

Having been duly appointed by the Appointing Authorities of the State of Illinois, Jacob Mann took the Oath of Office as District Trustee for the period through April 2021.

5. TREASURER'S REPORT:

a. Approval of the Monthly Treasurer's Report for month ending September 30, 2020

Motion by Mr. Brunn to approve the Treasurer's Report for month ending September 30, 2020 as presented by Trustee Ryberg.

2nd by Mr. Ragland

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Lydia Ryberg - Aye
Jacob Mann - Aye
Ken Michaels - Absent

4 ayes 0 nays 1 absent

MOTION CARRIED

6. PUBLIC COMMENTS: none

7. MANAGER'S REPORT:

Superintendent Luke Markko reported to the Board that the District has hired an operator in training, Walter Amador, a resident of Island Lake. Mr. Ragland asked if the District knew of a projected complete date for the Lily Lake Road Improvement Project; District Manager Haque commented that the force mains have been moved and Superintendent Markko stated that the concrete will be poured shortly and after time for the concrete to cure, paving would begin.

President Ken Michaels joined the meeting at 7:38 pm.

Mr. Brunn asked what the other sludge drying bed that is covered is used for; Manager Haque explained that equipment and other items are kept there. The Board made comment on the status of the District's delinquent accounts and felt encouraged that the rate is not rising considering COVID-19. Manager Haque told the Board that he did not include the Mid-Year Fiscal Report and Project Adjustments in the month's Manager's Report because he was still recording payments. Manager Haque informed the Board that he included a Phosphorus Discharge Optimization Report for their information; he stated that he felt the District will need to address how to look at future Phosphorus removal requirements as a result of more restrictive permit limits.

8. TRUSTEE REPORTS - none

9. LEGAL BUSINESS - none

Manager Haque informed the Board about the amount of time and work that District Attorney Vic Filippini had spent in helping with the negotiations for the settlement on the Lily Lake Road Improvement Project. He also stated that there has been nothing new concerning the Rockwell issue in Lakemoor.

10. OLD BUSINESS - none



Northern Moraine Wastewater Reclamation District
Regular Meeting Minutes
November 10, 2020

11. NEW BUSINESS

a. Adoption of 2020-2021 Tax Levy Ordinance No. 20-08

District Manager Haque related to the Board that this is the 10th year in a row the District has lowered its tax levy. President Michaels asked that the District's Public Relations firm put out a media notice concerning this achievement.

Motion by Mr. Ragland to approve the 2020-2021 Tax Levy Ordinance as presented, setting the Levy at \$99,947.76.

2nd Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

b. Approval of a Resolution to Ratify the Lily Lake Road Project Settlement Agreement

Motion by Mrs. Ryberg to approve a Resolution Ratifying the Lily Lake Road Project Settlement Agreement, including payment of \$143,000 for the project costs.

2nd Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

c. Approval of District Insurance Policy Renewals

Motion by Mr. Brunn to authorize the District Manager to execute agreements to bind coverage for the renewal of District Insurance Policies for Property, Liability, Automobile, Crime, and Inland Marine coverage with Illinois Counties Risk Management Trust; Cyber Liability coverage with Wright Specialty; Workers Compensation coverage with Illinois Public Risk Fund; and Flood Insurance coverage with Selective Insurance Company as presented.

2nd Mrs. Ryberg

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED



Northern Moraine Wastewater Reclamation District
Regular Meeting Minutes
November 10, 2020

d. Approval of District Employee Health Insurance Coverage Renewal

Motion by Mr. Ragland to approve a Resolution Authorizing the District Manager to execute enrollment documents to renew Employee Health Insurance coverage with BlueCross BlueShield of Illinois and to approve any additional premium fees up to 10% due to personnel changes during the coverage period.

2nd Mrs. Ryberg

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

e. Approval of Change Order #1 for the Sludge Drying Bed Cover

Motion by Mr. Brunn to approve a Resolution Authorizing the District Manager to remit payment for Change Order #1 for the Sludge Drying Bed Cover Project with Greenfield Contractors, LLC for an amount of \$968.80.

2nd Mrs. Ryberg

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

f. Approval of 2nd Amendment to the IGA with the Village of Lakemoor for the Expansion of Sanitary Sewer Infrastructure

After discussing the reasoning for the Village of Lakemoor's wish to again amend the original IGA, the Board decided to table this Agenda Item due to current concerns about Woodman's car wash expansion sewer hookup.

Motion by Mr. Ragland to table Agenda Item 11F until more information is available about Woodman's car wash expansion.

2nd Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

12. MISCELLANEOUS CORRESPONDENCE

- a. MCCG Legislative Meeting: none scheduled due to COVID-19 pandemic



Northern Moraine Wastewater Reclamation District
Regular Meeting Minutes
November 10, 2020

13. APPROVAL OF BILLS

Motion by Mrs. Ryberg to approve payment of bills on the November 10, 2020 bill list as presented, in the amount of \$432,268.37.

2nd by Mr. Brunn

Roll Call Vote: Timothy Brunn - Aye
John Ragland - Aye
Jacob Mann - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 absent

MOTION CARRIED

14. OTHER BUSINESS – Executive Session - none

ADJOURNMENT

Motion by Mr. Brunn to adjourn at 8:17 p.m.

2nd by Mrs. Ryberg

5 ayes 0 nays 0 absent

MOTION CARRIED



November 10, 2020

To: NMWRD Board of Trustees

From: Mohammed Haque, District Manager

Subject: Manager's Report

All update items are in italics.

CMMS / Sewer Cleaning & Televising

The District is working on the conversion of the newly purchased van into an inexpensive CCTV station and has started to get quotes for the winch, flooring, power and generator package and ventilation that will be needed for the conversion. *See updates in Engineering and Operations Report.*

2020 Project Funding / Grants

The State Revolving Loan Fund priority listing has been released and the District has four future projects on it. The current SRF priority listing indicates that there will be principal forgiveness up to \$5 million per agency in future SRF loans. We have also worked with the Village of Lakemoor and made an application for the entire Darrell Road Sewer project for a DCEO Infrastructure Grant. *We are still waiting on word of our Darrell Road Project (Complete) DCEO grants. We have received word that our application for the \$200,000 grant for our Control Building Electrical Upgrades has been assigned to a DCEO reviewer and that we should know soon about that grant. Our application for a grant for COVID related expenditures was also approved and to date we have received \$12,222. We anticipate receiving another \$10,000-20,000 of related expenses. We have also received word that our grant for assistance for the Lift Station 1-7 Upgrades in Lakemoor has moved on to the next stage of approval. We will be making application for the Unsewered Grant Fund in Illinois for the Holiday Hills Sewer Project and will be working on that very shortly.*

COVID-19 Adjustments

Staff have made numerous adjustments to accommodate the ongoing pandemic. The lobby remains closed, but we have installed a plexiglass barrier and re-opened the drive-through. We will continue to keep the lobby closed until Phase 5 or sooner if we feel it is needed. So far, we have not had anyone request an in-person meeting. *As I reported, we had our first employee test positive for COVID-19. That has caused us to re-establish separation at the office with 2 staff members working from home on any given day. This will continue for the near future, although today's news of a vaccine sounds promising.*

Lily Lake Road Improvements – Nunda Township

See agenda item.

Wegner Road Stormwater Improvements – Nunda Township

J Condon and Associates are designing a storm sewer for Nunda Township on Wegner Road, east of Lily Lake Road. This area also has both of our Lakemoor force mains as well as a gravity line. We have sent them plans for the sewers so that they can incorporate them in their designs. We have received the engineering plans from the Village of Lakemoor. *Trotter & Associates has issued a letter regarding our sewer*



locations to J Condon. One portion of the force main was not able to be located by potholing and will have to be observed during the stormwater work.

North Clarifier Repairs

See Operations and Engineering report for further updates.

Woodmans [Force Main + Gravity Sewer Extension + Lift Station]

District board has approved the project improvements, contingent on punchlist item completion. We have received final as-built drawings of the improvements and have accepted the improvements. Final payment is contingent upon the Village meeting the requirements as outlined in our Intergovernmental Agreement with them. *No Update.*

Personnel

We are holding off on PT Office Clerk (over 200 applied) because the office is closed. *We have hired a person for the Operator-in-Training position and they have started this week.*

Floodproofing of Control Building and Generator Modifications

Floodproofing angles and supports have been delivered. Coping and other architectural metals have been received and are currently being installed by District staff. Final as-builts will be completed by TAI. *Door installation has been started.*

Headworks / Screening Issues

Change order approved to convert to MS2 bar screen and waiting final engineering drawings by TAI. *Delivery of the new bar screen is expected tomorrow.*

Maintenance Garage

I am working with ADG Design on the architectural drawings and will submit to the board in the future. Permits from McHenry County Stormwater have been received for the paving work related to the maintenance garage and plant. *Revisions to the architectural drawings were sent back to ADG Design and we are waiting for the next iteration of drawings. This project has been slowed down to make time for current workload.*

Ordinance Review

Currently the District has Sewer rates, usage, construction details and specifications in seven (7) different documents. There is some duplication (and related confusion) as a result. I am currently working with our attorney Vic Filippini to streamline this into 2-3 ordinances, which is the standard for agencies such as ours. This will make things easier for staff and for the public. *No update.*



Circle K

Waiting on retained personnel fee. No contact has been made with the District for several months. We have reached out to inspector at Island Lake. *No update. This will be removed next month.*

Skipper Bud's

Skipper Bud's request to connect to NMWRD did not garner the full support of all five parties. LRSD has requested that the matter be delayed until their dissolution/transfer to Lake County. *No update. This will be removed next month.*

Lift Station Controls

The Hale control panel has been delivered and because of the 50th Anniversary, we have decided to use it at the Treatment Plant Lift Station. A new one will be ordered for Hale, as well as panels at additional locations in the next few months utilizing contributions from state legislature capital bill funding. *Plans are nearly complete and ready to bid once the funding source is confirmed.*

520 Wegner Road

We are working with Lakemoor and the new owner of this property for a new auto-mechanic shop at this location. *Additional coordination with the Village of Lakemoor and the builder were received and currently in review.*

Woodman's Car Wash - Expansion

An inquiry has been made for an expansion of the Woodman's Car Wash. *We have indicated the very large fees (over \$300,000) that are due b/c the car wash has much greater water usage than originally expected plus the additional of a new stall. In the event Woodman's does not move forward with an additional stall, there is still a discrepancy in the sewer connection permit fee that will need to get resolved. There is a discrepancy in the meter size that we were told for permitting and what was ultimately installed.*

Woodman's Outlots - Starbucks

I am informed that Starbucks is looking at one of the outlots. We will be working on coordinating that connection.

Phosphorus Discharge Optimization Plan

Attached is the Phosphorus Discharge Optimization Plan that is required per our current NPDES permit. Based on the PDOP, we will be looking at some capital expenditures if the limit on future permits is lower than 0.5 mg/L of Phosphorus in our effluent. While we do not need formal approval of this plan, it is good to keep in mind for our future funding needs when our limits for Phosphorus become more stringent.

Northern Moraine WRD - Septage Receiving Tracking
FY 2020-21



Month	Loads	Gallons	Revenue FY20-21	Revenue FY19-20	YTD FY20-21
May-20	19	53200	\$3,396.60	\$1,260.00	\$3,396.60
Jun-20	20	63400	\$3,763.80	\$1,320.00	\$7,160.40
Jul-20	25	80700	\$4,528.80	\$711.00	\$11,689.20
Aug-20	16	58900	\$2,927.40	\$1,335.00	\$14,616.60
Sep-20	22	78250	\$3,937.20	\$777.00	\$18,553.80
Oct-20	22	74950	\$4,018.80	\$2,304.00	\$22,572.60
Nov-20				\$2,550.00	
Dec-20				\$1,968.60	
Jan-21				\$1,642.20	
Feb-21				\$1,632.00	
Mar-21				\$2,682.60	
Apr-21				\$2,488.80	

	Date	Company Name	Gallons	Cost/Gal	Revenue	Time	Type
May	5/1/2020	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	10:35AM	Septic
	5/4/2020	Weidners	3100	Flat Rate	\$183.60	10:30AM	Septic
	5/5/2020	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	1:45PM	Septic
	5/6/2020	Comm. Sewer & Septic	1500	Flat Rate	\$173.40	10:05AM	Septic
	5/6/2020	Weidners	3000	Flat Rate	\$183.60	2:45PM	Septic
	5/7/2020	Weidners	3100	Flat Rate	\$183.60	11:45AM	Septic
	5/7/2020	Weidners	3500	Flat Rate	\$183.60	2:50PM	Septic
	5/12/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	10:10AM	Septic
	5/12/2020	Weidners	3400	Flat Rate	\$183.60	3:25PM	Septic
	5/14/2020	Comm. Sewer & Septic	3200	Flat Rate	\$173.40	10:30AM	Septic
	5/14/2020	Weidners	3200	Flat Rate	\$183.60	3:00PM	Septic
	5/15/2020	Weidners	3000	Flat Rate	\$183.60	10:00AM	Septic
	5/19/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	3:40PM	Septic
	5/20/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	10:30AM	Septic
	5/20/2020	Weidners	3500	Flat Rate	\$183.60	11:45AM	Septic
	5/20/2020	Weidners	3600	Flat Rate	\$183.60	3:00PM	Septic
	5/21/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:10AM	Septic
	5/21/2020	Weidners	3100	Flat Rate	\$183.60	2:55PM	Septic
	5/28/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:30AM	Septic
June	6/1/2020	Weidners	3250	Flat Rate	\$183.60	8:30AM	Septic
	6/2/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	3:20PM	Septic
	6/3/2020	Comm. Sewer & Septic	2250	Flat Rate	\$173.40	12:30PM	Septic
	6/5/2020	Weidners	3500	Flat Rate	\$183.60	9:00AM	Septic
	6/5/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	10:00AM	Septic
	6/9/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	11:22AM	Septic
	6/10/2020	Weidners	3750	Flat Rate	\$183.60	9:05AM	Septic
	6/10/2020	Weidners	3800	Flat Rate	\$183.60	12:00PM	Septic
	6/10/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	12:50PM	Septic
	6/10/2020	Weidners	3800	Flat Rate	\$183.60	-	Septic
	6/11/2020	Weidners	3800	Flat Rate	\$183.60	9:55AM	Septic
	6/11/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	2:50PM	Septic
	6/12/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	12:00PM	Septic
	6/17/2020	Weidners	3800	Flat Rate	\$183.60	2:55PM	Septic
	6/19/2020	Weidners	3800	Flat Rate	\$183.60	8:45AM	Septic
	6/19/2020	Weidners	3750	Flat Rate	\$183.60	3:10PM	Septic
	6/24/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	10:45AM	Septic
	6/24/2020	Weidners	3800	Flat Rate	\$183.60	12:15PM	Septic
	6/25/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	10:30AM	Septic
	6/25/2020	Weidners	3600	Flat Rate	\$183.60	3:30PM	Septic
	6/26/2020	Weidners	4000	Flat Rate	\$183.60	9:00AM	Septic
	6/29/2020	Weidners	3900	Flat Rate	\$183.60	12:15PM	Septic

July	7/1/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	12:00PM	Septic
	7/1/2020	Weidners	3850	Flat Rate	\$183.60	1:30PM	Septic
	7/7/2020	Weidners	3950	Flat Rate	\$183.60	12:00PM	Septic
	7/8/2020	Weidners	3600	Flat Rate	\$183.60	9:00AM	Septic
	7/9/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	1:15PM	Septic
	7/10/2020	Weidners	3800	Flat Rate	\$183.60	9:35AM	Septic
	7/10/2020	Weidners	2800	Flat Rate	\$183.60	12:55PM	Septic
	7/13/2020	Weidners	3800	Flat Rate	\$183.60	12:15PM	Septic
	7/14/2020	Comm. Sewer & Septic	1750	Flat Rate	\$173.40	11:30AM	Septic
	7/15/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:30AM	Septic
	7/15/2020	Weidners	3750	Flat Rate	\$183.60	12:45PM	Septic
	7/15/2020	Weidners	2550	Flat Rate	\$183.60	3:20PM	Septic
	7/16/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	9:30AM	Septic
	7/17/2020	Weidners	3400	Flat Rate	\$183.60	9:05AM	Septic
	7/17/2020	Weidners	3400	Flat Rate	\$183.60	9:20AM	Septic
	7/17/2020	Weidners	3500	Flat Rate	\$183.60	10:55AM	Septic
	7/20/2020	Weidners	3500	Flat Rate	\$183.60	3:10PM	Septic
	7/21/2020	Weidners	3800	Flat Rate	\$183.60	8:30AM	Septic
	7/24/2020	Weidners	3700	Flat Rate	\$183.60	8:15AM	Septic
	7/28/2020	Weidners	3800	Flat Rate	\$183.60	8:45AM	Septic
	7/29/2020	Weidners	3800	Flat Rate	\$183.60	9:30AM	Septic
	7/29/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	3:40PM	Septic
	7/31/2020	Weidners	3700	Flat Rate	\$183.60	9:00AM	Septic
	7/31/2020	Weidners	3500	Flat Rate	\$183.60	1:15PM	Septic
	7/31/2020	Weidners	3750	Flat Rate	\$183.60	2:00PM	Septic
August	8/5/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	11:55am	Septic
	8/6/2020	Weidners	3800	Flat Rate	\$183.60	11:45am	Septic
	8/7/2020	Weidners	3500	Flat Rate	\$183.60	3:15pm	Septic
	8/11/2020	Weidners	3700	Flat Rate	\$183.60	2:30pm	Septic
	8/12/2020	Weidners	3800	Flat Rate	\$183.60	12:35pm	Septic
	8/13/2020	Weidners	3850	Flat Rate	\$183.60	3:10m	Septic
	8/14/2020	Weidners	3100	Flat Rate	\$183.60	9:15am	Septic
	8/14/2020	Weidners	4000	Flat Rate	\$183.60	12:00pm	Septic
	8/19/2020	Weidners	4000	Flat Rate	\$183.60	11:45am	Septic
	8/19/2020	Weidners	3700	Flat Rate	\$183.60	3:00pm	Septic
	8/21/2020	Weidners	3750	Flat Rate	\$183.60	9:30am	Septic
	8/21/2020	Weidners	3800	Flat Rate	\$183.60	12:30pm	Septic
	8/26/2020	Weidners	3800	Flat Rate	\$183.60	9:30am	Septic
	8/27/2020	Weidners	3800	Flat Rate	\$183.60	1:30pm	Septic
	8/28/2020	Weidners	3700	Flat Rate	\$183.60	8:45am	Septic
	8/28/2020	Weidners	3600	Flat Rate	\$183.60	1:35pm	Septic
September	9/3/2020	Weidners	3500	Flat Rate	\$183.60	6:30am	Septic
	9/3/2020	Weidners	3200	Flat Rate	\$183.60	12:40pm	Septic
	9/9/2020	Weidners	3700	Flat Rate	\$183.60	9:30am	Septic
	9/9/2020	Weidners	3900	Flat Rate	\$183.60	12:30pm	Septic
	9/10/2020	Weidners	3800	Flat Rate	\$183.60	12:30pm	Septic
	9/11/2020	Rechel	3300	Flat Rate	\$173.40	12:15pm	Septic
	9/11/2020	Rechel	3300	Flat Rate	\$173.40	12:15pm	Septic
	9/11/2020	Weidners	3800	Flat Rate	\$183.60	1:00pm	Septic
	9/11/2020	Rechel	3300	Flat Rate	\$173.40	2:30pm	Septic
	9/11/2020	Rechel	3400	Flat Rate	\$173.40	2:30pm	Septic
	9/15/2020	Weidners	3700	Flat Rate	\$183.60	-	Septic
	9/15/2020	Weidners	3800	Flat Rate	\$183.60	12:00pm	Septic
	9/18/2020	Rechel	3000	Flat Rate	\$153.00	9:45am	Septic
	9/18/2020	Rechel	3000	Flat Rate	\$153.00	10:20am	Septic
	9/18/2020	Weidners	3700	Flat Rate	\$183.60	1:30pm	Septic
	9/22/2020	Weidners	3750	Flat Rate	\$183.60	9:00am	Septic
	9/23/2020	Weidners	3600	Flat Rate	\$183.60	3:05pm	Septic
	9/25/2020	Weidners	3750	Flat Rate	\$183.60	-	Septic
	9/25/2020	Weidners	3750	Flat Rate	\$183.60	1:30pm	Septic
	9/29/2020	Weidners	3750	Flat Rate	\$183.60	2:15pm	Septic
	9/30/2020	Weidners	3750	Flat Rate	\$183.60	9:15am	Septic
	9/30/2020	Weidners	3500	Flat Rate	\$183.60	3:25pm	Septic

October	10/1/2020	Weidners	3500	Flat Rate	\$183.60	12:00pm	Septic
	10/6/2020	Weidners	3600	Flat Rate	\$183.60	8:45am	Septic
	10/7/2020	Weidners	3750	Flat Rate	\$183.60	1:30pm	Septic
	10/7/2020	Comm. Sewer & Septic	600	Flat Rate	\$173.40	-	Septic
	10/7/2020	Weidners	3400	Flat Rate	\$183.60	3:30pm	Septic
	10/9/2020	Weidners	3600	Flat Rate	\$183.60	9:30am	Septic
	10/9/2020	Weidners	3700	Flat Rate	\$183.60	1:30pm	Septic
	10/13/2020	Weidners	3500	Flat Rate	\$183.60	9:30am	Septic
	10/13/2020	Weidners	3700	Flat Rate	\$183.60	11:00am	Septic
	10/13/2020	Weidners	3950	Flat Rate	\$183.60	2:00pm	Septic
	10/15/2020	Weidners	3800	Flat Rate	\$183.60	6:15am	Septic
	10/20/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	-	Septic
	10/21/2020	Weidners	3700	Flat Rate	\$183.60	9:00am	Septic
	10/21/2020	Weidners	3800	Flat Rate	\$183.60	1:05pm	Septic
	10/22/2020	Weidners	3500	Flat Rate	\$183.60	12:00pm	Septic
	10/23/2020	Weidners	3700	Flat Rate	\$183.60	10:10am	Septic
	10/23/2020	Weidners	3500	Flat Rate	\$183.60	11:15am	Septic
	10/23/2020	Weidners	3750	Flat Rate	\$183.60	2:30pm	Septic
	10/26/2020	Weidners	3900	Flat Rate	\$183.60	2:30pm	Septic
	10/27/2020	Weidners	3650	Flat Rate	\$183.60	9:45am	Septic
	10/27/2020	Weidners	3600	Flat Rate	\$183.60	3:00pm	Septic
	10/29/2020	Weidners	3750	Flat Rate	\$183.60	9:30am	Septic

NMWRD Sewer Connection Permit Tracking
FY 2020-21



Permit Date	Address	City	Subdivision/ Business	Re-Connect, Repair, Demo or New Connection	Permit Owner	Permit No.	Connection/ Inspection Fee	Darrell Road Special Connection Fee
6/19/2020	204 Eastwood Avenue	PB	Eastwoods	Repair	Wielogorski	5299-B	\$ 100.00	\$ -
6/29/2020	32044 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5647	\$ 7,674.00	\$ 3,248.00
6/29/2020	32054 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5648	\$ 7,674.00	\$ 3,248.00
8/11/2020	733 Dartmouth Drive	IL	Dartmouths	Repair	Carver/Mr. Rooter	1627-A	\$ 100.00	\$ -
8/19/2020	215 Eastwood Court	PB	Eastwoods	Demo	VOPB/Modern Concrete Inc.	5378-A	-	\$ -
8/27/2020	32052 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5649	\$ 7,674.00	\$ 3,248.00
9/10/2020	32064 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5650	\$ 7,674.00	\$ 3,248.00
9/15/2020	32051 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5651	\$ 7,674.00	\$ 3,248.00
9/18/2020	334 Rosedale Drive	LM	Rosedales	New Connection	Buckhalter	5652	\$ 7,674.00	\$ 3,248.00
9/18/2020	336 Rosedale Drive	LM	Rosedales	Re-Connect	Buckhalter	4450-A	-	\$ 3,248.00
9/21/2020	32038 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5653	\$ 7,674.00	\$ 3,248.00
10/27/2020	32048 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5654	\$ 7,674.00	\$ 3,248.00
10/27/2020	32050 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5655	\$ 7,674.00	\$ 3,248.00

	Standard Connections	Darrell Road Connections
FY 2020 - 2021 Total:	\$ 69,266.00	\$ 32,480.00
Approved Budget FY 2020 - 2021	\$ 108,536.00	\$ 25,984.00
Approved +/- vs. Current YTD	\$ (39,270.00)	\$ 6,496.00



NMWRD October 2020 Operations Report

As of November 5th, 2020

Prepared by: Luke Markko, Superintendent

COVID-19 Response – See Manager’s Report for details regarding employee testing positive, and mitigation efforts as state positivity is on the rise.

Lily Lake Rd. Improvements – At the preparation of this report, the work to relocate and adjust the force mains on Lily Lake Rd. is nearing completion. All new connections have been completed and tested. Remaining items include adjusting the height of several manhole structures to match the new grade, and replacement of air release valves.



Installation of new pipe and structures on Lily Lake Rd. Concrete thrust blocs are installed at bends to maintain connection integrity.

Wegner Rd. Stormwater Improvements – The District has completed its comments regarding the upcoming storm sewer improvements. See details in Engineering Report.



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Drying Bed Cover – The new sludge bed cover has been installed. District staff laid, strapped, and anchored the block foundation in place while Greenfield, the company the cover was purchased from, installed the cover. This now provides us with a dry location for sludge to be conveyed directly out of the Dewatering building after passing through the centrifuge. This will again reduce the need for manhours to be allocated to simply moving sludge several hundred feet every time we dewater. Discussions are ongoing with a regional dealer of grain conveyors to select a unit that will fit our application. This will move the point where the sludge is deposited further into the bed and further limit the need to manually move the sludge.



Outer view showing conveyor entry point.



Interior view of covered bed.

Sludge Hauling – While we are on the topic of sludge... Our stockpile has been hauled out for application to local farm fields by Dahm Enterprises. This follows our typical schedule of having sludge hauled around April and October of each year. At times this can be impacted by weather and delayed. Fortunately this was not the case on this occurrence.



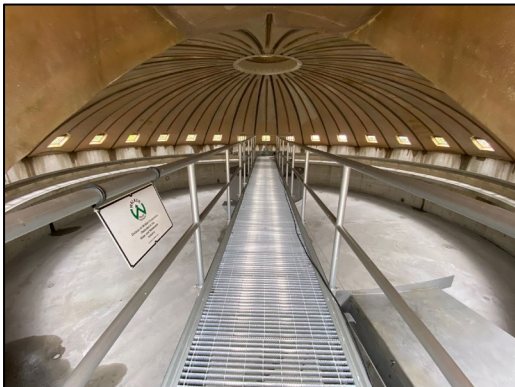
Emptied storage bed.





NORTHERN MORaine W R D

North Secondary Clarifier – We have progressed nicely since the time of the last report left us with completion of the floor, collection mechanism installation, and dome being replaced. A spray bar was installed along the length of the catwalk. The purpose of this spray bar is to direct non-potable water along the surface of the clarifier and push scum towards the outer perimeter to facilitate collection into the scum box for retreatment. This spray bar differs from the one previously installed in that it will operate intermittently when triggered by the position of the collection arm. This takes us away from having the water spraying continuously, saving energy and wear on the non-potable water pumps. New stainless-steel pressure relief valves (PRVs) have replaced the old steel units and match the stainless steel PRVs that were integrated into the new floor as it was poured. As supplying power to the new mechanism was being evaluated it was noted that the existing conduit that brought power to the clarifier had been overcrowded with additional wiring over the years, and that both power and control wiring shared the same conduit. This is normally avoided to prevent signal interference. Upon investigation, the same circumstance existed at the South Clarifier as well. It was determined that to correct these issues that new conduit would need to be installed to provide separation of high voltage power, low voltage power, and data/signal cables. A conduit bank of six conduits exiting the Chemical Building is nearing completion. This conduit bank will supply both Clarifiers and the RAS/WAS Pumping Station. It made sense to have the three of these process units fed by this new conduit bank when considering their proximity to one another.



Interior view of repaired clarifier.



Overcrowded conduit entering junction box.



New conduits leaving Chemical Building.



Trenching for conduit bank installation.





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Chlorine Contact Basin Walkway – As reported last month, the old catwalk from the North Clarifier was repainted with the intent to repurpose it to provide access to one side of the Chlorine Contact Basin. This portion of the basin has historically been troublesome to clean due to the lack of overhead access. This has required operators to perform confined space entries to facilitate cleaning. With the catwalk in place cleaning the contact basin, a task that required multiple personnel and safety equipment, can simply be performed by one individual with a firehose.



Bridge placed and awaiting grating and rails.

Control Building Doors - Work continues and is nearing completion to replace several doors on the Control Building. These steel doors were beginning to rust. They were painted prior to the open house last year, but the effort was simply cosmetic. Operations staff are removing the old doors, frames, and thresholds, and installing new aluminium components.



Out with the old and in with the new.



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Rawson Bridge Lift Station – In a previous report, we had completed the process of replacing the isolation, bypass and check valves at the critical Rawson Bridge Lift Station, a lift station that receives all the flow from the Village of Port Barrington. This was a prelude replacing the base elbows in the wet well. The base elbows are important in that they are made with a mounting point for the pump discharge flange to mate, and are a mounting point for the pump guide rails. The pump guide rails allow the pump to be lowered into the wet well and meet with the mating point on the base elbow. This mating aligns the pumps with the pipes that carry the flow up out of the wet well, to the valve vault, and into the force main. In the case of Rawson Bridge Lift Station these one of the guide rails had separated from the base elbow, and the base elbows were beginning to show wear. The guide rail separation created a situation where the pump could easily tip from the base elbow. The wear on the base elbows creates inefficiencies in pumping and energy consumption as a result of water blowing out and being recirculated into the wet well. Both base elbows were replaced, and the guide rail reinstalled. A bypass of the lift station was required to allow the work to be completed. This was accomplished by installing a plug in the inlet pipe to keep the wet well dry. Wastewater was pumped out of an upstream manhole into tanker trucks contracted by Weidner's Septic Service. The work performed was no easy task. The project started at 6:00am and was completed around 8:00pm and was a coordination of effort by Dahme Mechanical, Weidner's Septic Service, and District staff that put this important lift station in a position for more reliable service in the years ahead.



Bypass pumping staging area.



Extremely loose flange on pump.



Replacement flange compared to old.



Base elbow and separated guide rail.



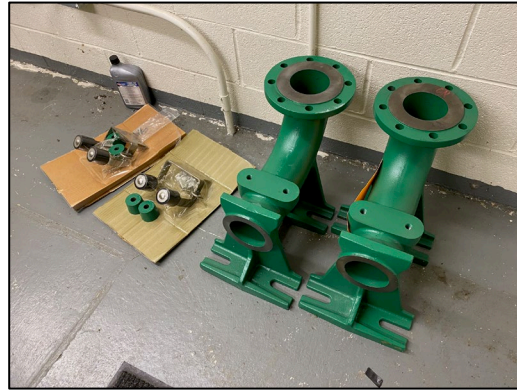


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Rawson Bridge Lift Station Continued...

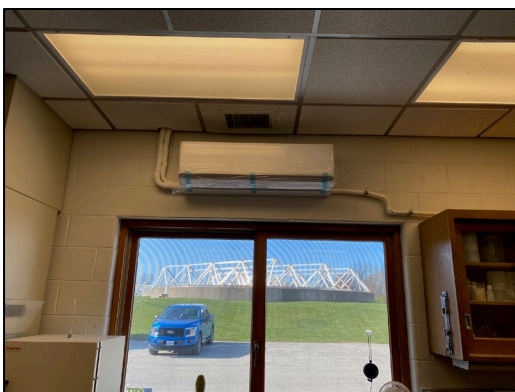


Base elbows after removal.



New base elbows awaiting installation.

HVAC – Two “mini-split” units have been installed. One located in the lab, and the other located in the “VFD Room” in the Chemical Building. These units consist of an outdoor condensing unit and interior coil mounted inside a hood on the wall. There is a history of difficulties with balancing the cooling in the Lab and Operations Office. Automatic dampers were installed in the past to try to correct this problem, however it has proven ineffective. The mini-split unit will allow for independent cooling in each location. The VFD Room in the Chemical Building houses Variable Frequency Drives (VFDs) for the aerator motors on the Oxidation Ditch, and non-potable water pumps. These units allow control of the motor speeds, but by the nature of their operation generate a significant amount of heat. Given the small confines of the room they are in, the room temperature can rise significantly in the summer months. This can cause premature failure of the VFDs. The mini-split unit will allow us to keep this equipment operating at more ideal temperatures.



Laboratory cooling unit.



VFD Room cooling unit.



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NMWRD Engineering Report

Date: November 5th, 2020

Prepared by: Joe Lapastora, E.I.T. – Staff Engineer

Lily Lake Road Safety Improvements:

[Project Update] – See Managers report for recent developments relating to the Lily Lake Road Safety Improvements project. See Operations report for construction related developments.

Wegner Road Storm Improvements:

[Project Update] – Trotter & Associates, Inc. (TAI) completed a review of the Storm Sewer Improvements Plans prepared by J. Condon & Associates to determine potential sanitary sewer conflicts relating to the proposed construction of storm sewer along Wegner Road. A portion of the 12" forcemain that runs along Wegner road still had yet to be field verified after extensive potholing efforts by both the District and Trotter were performed. Due to the inability to locate a portion of the forcemain, the District will ensure a staff member is present onsite when construction commences at the east end of the proposed storm sewer route to communicate with the excavator about the possible FM location. At this time, there is no proposed start date for this project.

Sludge Drying Bed Cover:

[Project Update] – The District received sealed Engineering plans on June 26th and sealed foundation plans on July 6th. First quality concrete foundation blocks were delivered on July 31st from Fischer Bros, with freight services provided by Dahm Enterprises. Strapping metals were ordered through Breuer Metals and were delivered to the plant on August 18th. The construction permit was finalized and received from McHenry County during August and the signage is now posted at the treatment plant gate. Poured sections of the lower base of the foundation were poured on September 1st. Strapping metals were installed on the block foundation in early September and the foundations passed its inspection with McHenry County on September 21st. All materials for the sludge drying bed cover were delivered to the plant on September 25th. Finally, Greenfield completed the construction of the new sludge drying bed cover on October 30th. There are no more outstanding tasks associated directly with the sludge drying bed cover so this will mark the last update relating to this project.



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Picture of new sludge drying bed cover.



Picture of inside of the new sludge drying bed cover.



Picture of the endwall opening for conveyor penetration.



Picture of the exterior endwall.

Asset Management Software:

[Project Update] – The District has continued to meet with the Cartegraph project implementation team throughout the month of October. Significant developments relating to the new asset management software include; RedZone successfully exported the old televising database and mailed the hard drive to the District in early October while Cartegraph overview videos have been reviewed by District staff. At this point, the District is right on schedule as we move into the template build-out phase. We are set to receive our test site in early December where District employees will have a chance to get some familiarity of the new software before it goes live. A full “build-out” schedule was provided on August 4th and it appears that the full timeline is built through March 2021, at which point, we can expect Cartegraph to go fully live.



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North Clarifier Rehab:

See the Operations Report for a detailed update regarding the progress on the North Clarifier rehab project.

Sewer Televising & Cleaning Plan:

NMWRD unveiled its newly developed CMOM plan in March that included a sanitary sewer cleaning and televising schedule, which repeats every five (5) years. A detailed Sewer Televising & Cleaning Plan has been finalized which dictates the specifics of which gravity mains are to be televised and cleaned in any given year. The District intends to perform cleaning and televising for the majority of the collection system but may need to contract out the work for larger diameter mains. The District also took major steps forward by getting both the televising van and the new Vactor truck registered. The District has begun assigning training classes to employees for NASSCO training starting in November. This training standardizes how employees rate the District infrastructure, specifically manholes (MACP) and gravity mains (PACP), during televising runs. Moving forward, the televising van will be outfitted, and District operators will begin cleaning and televising per the final plan.

Phosphorous Discharge Optimization Plan:

The District entered into an agreement with Fehr-Graham in early April to produce a quality Phosphorous Discharge Optimization Plan (PDOP) which is required per NMWRD's NPDES permit, Special Condition 20. Note that the District requested a one (1) year extension on the PDOP report on March 26th. A draft Permit with proposed changes was received by the District in late June stating that the IEPA has initiated the 'Public Notice' phase to amend the District's existing NPDES Permit after an extension was requested. The District received a final draft of the PDOP from Fehr-Graham on August 27th. District staff members reviewed the final draft in September and additional documents were requested. As of today, the District is in receipt of all trailing documents as well as the final report and the report is attached in this Board Packet for approval to submit to IEPA.

Woodman's Lift Station and Sanitary Sewer Additions:

[Project Update] – The District received notification of two (2) developments relating to the Woodman's during the month of August. The first project includes the expansion of the existing Woodman's car wash from two (2) bays to three (3). A submittal review document was issued to Woodman's by the District on September 14th detailing the additional connection fees and correcting underpayment discrepancies based on water use history. The second project includes the addition of an unattended gas station. It was determined that since there was no connection to NMWRD sewer, a sewer connection permit was not required. Note that a permit will be required if a water service is ever added.





In addition to the work relating to the above projects, the following engineering related work is also being performed;

- The District moved forward with purchasing a new televising laptop along with a large external hard drive that would meet the minimum specs required to run the new televising software that was purchased last month (Pipe Tech SCAN). This will allow District employees to test out the software during their NASSCO training courses during the month of November.
- The District will continue digitizing physical prints through Hainesville Print and Copy. Through October, we have digitized roughly 80 plan sets and the District will continue to send batches to Hainesville P&C to keep adding to our digital repository.
- A final component to the 2019 Disinfection Improvement project, was to install new pump skids for both the Sodium Hypochlorite and Sodium Bisulfite chemicals. After a thorough review, the district decided to construct our own pump skids, utilizing FRP grating for the backing and floor. All parts have been ordered and delivered and the skids should be fully constructed this month.
- The Cross Aluminum doors that were ordered as part of the Control Building Floodproofing project, were installed in late October into early November. District Operator, Miguel Mercado, performed all installs and although there were some challenges with the new install, Miguel proved to be a truly valuable resource and the newly installed doors look fantastic!



(Northernmost) East Door.



(Middle) East Door



South Double Door, nearly completed.





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Drone Photos of North Clarifier Progress for October



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Drone Photos of North Clarifier Progress for October



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DELINQUENT ACCOUNTS RECAP FOR October 2020

Revised: 11/04/20 by Debi Martin, District Clerk

\$200-\$300

110 Active Accounts

Island Lake – 66 customers
66 Notices of Delinquency
Lakemoor – 32 customers
32 Notices of Delinquency
Port Barrington – 12 customers
1 Lien – 11 Notices of Delinquency, 1 Sewer Disconnection Notice

\$301-500

73 Active Accounts

Island Lake – 42 customers
42 Liens - 39 Water Shut Off Notices, 3 Final Notices of Delinquency
Lakemoor – 26 customers
26 Liens - 11 Final Notices of Delinquency, 2 Sewer Disconnection Notices, 12 Water Shut Off Notices, 1 making payments
Port Barrington – 5 customers
5 Liens - 4 Final Notices of Delinquency, 1 Sewer Disconnection Notice

\$501-\$1000

3 Active Accounts

Island Lake – 1 customer
1 lien – 1 making payments
Lakemoor – 1 customer
1 lien – 1 making payments
Port Barrington – 1 customer
1 lien – 1 to be disconnected

\$1001 and up

7 Active Accounts

Island Lake – 2 customers
2 liens – 2 with water off
Lakemoor – 3 customers
3 liens – 3 being disconnected
Port Barrington – 2 customers
2 liens – 2 to be disconnected

Delinquent Accounts total (active and inactive customers): **\$45,056.05** (\$9,701.89 inactive accts)

Oct 2019's report: **\$54,764.32**

Oct 2018's report: **\$49,744.05**

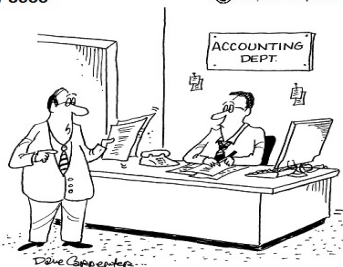
MONTHLY ACTIVITY:

4808 Monthly Bills mailed 11/02/20 (for Oct. service)
387 Bills not mailed – customers prepaid on their accounts
51 Water Shut Off Notices mailed on 11/02/20
4 Sewer Disconnection Notices mailed on 11/02/20
12 Liens released in October

109 Notices of Delinquency mailed 11/02/20
18 Final Notices of Delinquency mailed 11/02/20
22 Real Estate closings for October 2020
68 Liens filed in October

8355

© 2014, Dave Carpenter



"Can you work a little magic with these figures,
In fact, can you make them disappear?"



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NORTHERN MORaine W R D

AGENDA REGULAR MEETING 7:30 P.M. – November 10, 2020 113 Timber Trail, Island Lake, IL

Due to the Governor's statewide disaster declaration relating to the COVID-19 pandemic and current public health guidelines for social distancing, the President of the Northern Moraine Wastewater Reclamation District has determined that it is not prudent for the members of the District Board or staff to convene in-person for this meeting. Therefore, the District Board is meeting by video conference. Those same conditions require barring access to the public for in-person attendance. In light of those limitations, the public is invited to attend and listen to the meeting through Zoom platform or by phone as indicated on this meeting agenda. To comply with the Open Meetings Act requirements for virtual meetings, the meeting will be recorded.

**Zoom Meeting w/ Video: <https://us02web.zoom.us/j/7578151340>
Meeting ID: 757 815 1340**

Zoom Meeting w/ Audio Only: +13126266799,,7578151340#

- 1. CALL TO ORDER & ROLL CALL**
- 2. PLEDGE OF ALLEGIANCE**
- 3. PRESENTATION & APPROVAL OF MINUTES**
 - a. Regular Meeting Minutes – October 13, 2020
 - b. Executive Session Meeting Minutes – October 13, 2020
- 4. OATH OF OFFICE:**
 - Having been duly appointed, Trustee Mann will take the Oath of Office
- 5. TREASURER'S REPORT**
- 6. PUBLIC COMMENTS**
- 7. MANAGER'S REPORT**
 - a. Operations Report
 - b. Engineering Report
 - c. Delinquent Accounts Report
 - d. Mid-Year Fiscal Report and Project Adjustments
 - e. Phosphorus Discharge Optimization Report
- 8. TRUSTEE REPORTS**
- 9. LEGAL BUSINESS**
- 10. OLD BUSINESS**
 - a. Board of Trustees Appointment for Term Ending April 30, 2021





NORTHERN MORaine **W R D**

11. NEW BUSINESS

- a. Adoption of 2020-21 Tax Levy Ordinance
- b. Approval of Resolution Ratifying Lily Lake Road Project Settlement Agreement
- c. Approval of District Insurance Policy Renewals
- d. Approval of Employee Health Insurance Coverage Renewal
- e. Approval of Change Order for the Sludge Drying Bed Cover
- f. Approval of Second Addendum to the Intergovernmental Agreement with the Village of Lakemoor for the Expansion of Sanitary Sewer Infrastructure

12. MISCELLANEOUS CORRESPONDENCE

- a. MCCG Membership Meeting

13. APPROVAL OF BILLS

14. OTHER BUSINESS

- a. Executive Session - Litigation

Posted to www.nmwrld.org - October 9, 2020



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