



NORTHERN MORAIN WASTEWATER RECLAMATION DISTRICT

113 Timber Trail, Island Lake, Illinois 60042

REGULAR MEETING MINUTES

February 11, 2020

Present: Trustees: Ken Michaels, John Ragland, Timothy Brunn, Dena Battaglia, Lydia Ryberg
District Manager: Mohammed Haque; District Clerk: Deborah Martin

President Michaels called the meeting to order at 7:30 p.m.

1. CALL TO ORDER:

Roll Call: Timothy Brunn – Present
John Ragland - Present
Dena Battaglia - Present
Lydia Ryberg – Present
Ken Michaels – Present

2. PLEDGE OF ALLEGIANCE:

Those present stood and pledged allegiance to the flag.

3. PRESENTATION & APPROVAL OF MINUTES:

a. Regular Meeting, January 14, 2020

Motion by Trustee Brunn to approve the Regular Meeting minutes of January 14, 2019 as presented.

2nd by Trustee Battaglia

5 ayes 0 nays 0 abstain

MOTION CARRIED

4. TREASURER'S REPORT:

a. Approval of the Monthly Treasurer's Report for month ending December 31, 2019

Mrs. Ryberg presented the Monthly Treasurer's Report for month ending December 31, 2019 for Board approval.

Motion by Trustee Ragland to approve the Treasurer's Report for month ending December 31, 2019 as presented.

2nd by Mrs. Battaglia

5 ayes 0 nays 0 abstain

MOTION CARRIED

5. PUBLIC COMMENTS: none

6. MANAGER'S REPORT:

District Manager Haque gave the Board a brief summary of his Manager's Report. He told the Board that he is making a presentation later in the meeting concerning the North Clarifier repairs. He also told the Board that he hand-delivered the Village of Lakemoor check from last month to Village officials where he explained the 10% holdback on the check amount to cover remaining open items on the development. Manager Haque also informed the Board that there would be an inspection later in the week for the Woodman's punch list, and he hoped to have everything wrapped up on this project. Manager Haque reported that the sludge bed improvements were moving ahead; he also reported that he had assurances that the capital bill funding was coming our way. He met with the Department of Commerce and Economic Opportunity and believes they will start the grant process soon. He also informed the Board that in capital bill funding, there are funds available for providing sewers to regional, unsewered communities. He feels it is an opportunity to see how the District can help areas like Holiday Hills, which has been looking for funding to connect to the District for a long time.



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This funding may also be available for portions of the Darrell Road sewer expansion project. He explained that he wanted the District to be ready for these grants when they become available through either the DCEO or the IEPA and said that he would talk about the IEPA funding later in the meeting. He informed the Board that next month the Board will hear a final presentation for Eric Rothstein concerning the User Rate Study. Manager Haque reported that an operator, Miguel Mercado, had been hired. He told the Board that he felt the floodproofing modifications would be completed shortly and that phosphorous removal tanks had been ordered. He explained that the other various projects were moving at a slower pace, due to the need to concentrate on the North Clarifier and its repairs. Manager Haque reported that staff was pleased at the results of the Septage Receiving Program. There was a brief discussion concerning the District's capacity to accept more septage haulers along with the need to continue with the upgrading of some of the older equipment at the treatment plant. Manager Haque reminded the Board that the last scheduled upgrade plans were over 20 years ago, and that staff has been diligent in getting older equipment replaced, especially in recent years.

7. TRUSTEE REPORTS

Trustee Ragland reported that he attended the McHenry County Council of Governments Legislative Dinner last month and reported that those attending the dinner were presented with a map outlining where proposed priority transportation improvements would take place. He brought to the Board's attention that one of those proposed improvements was Chapel Hill Road, which falls into the District's Facility Planning Area. He stated that those in attendance were also given information about the Illinois Municipal League's legislative agenda. President Michaels reported that he had a conversation with a Village of Island Lake trustee concerning the increased presence of Village of Island Lake patrol cars on Timber Trail and the reasoning for the patrol cars to park outside our treatment plant. President Michaels told the Board that although he had been told that the Police Chief had advised patrol cars not to make these regular patrols on Timber Trail, District staff have noted that they are continuing to park on Timber Trail. He reminded the Board that Timber Trail does not fall under the Village of Island Lake's jurisdiction. President Michaels wanted the Board to know that this police presence began after one of our operators was terminated; this former operator has a brother on the Island Lake police force.

8. LEGAL BUSINESS - none

9. OLD BUSINESS -none

10. NEW BUSINESS

a. Approval of Ordinance 20-02, Special Connection Fee for Darrell Road Facilities.

Manager Haque presented an Ordinance to establish a special connection fee that will allow for a fund to help initiate the Darrell Road Sewer Expansion Project, which was discussed in the User Rate study last month. Manager Haque stated this fund can also be used as a match for any financing and grants obtained for the project. He stated that he shared this information with Matt Dabrowski of the Village of Lakemoor.

Motion by Mrs. Ryberg to adopt Ordinance 20-02, amending the District's connection fee and establishing a Special Connection Fee for Darrell Road Facilities.

2nd Mr. Brunn

Roll Call Vote:

Dena Battaglia - Aye

Timothy Brunn - Aye

John Ragland - Aye

Lydia Ryberg - Aye

Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED



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b. Approval of Ordinance 20-03, Amending the District's User Rate Ordinance.

Last month, the Board was presented with the results of Galardi Rothstein Group's user rate study. It was recommended by GRG that the District consider raising the user rates over the next few years to help with the financing of the several equipment renewal projects the District has pending. It was also determined that the emergency repair costs to the North Clarifier would have to be considered, pending capital improvement funding and the result of the insurance claim. Another factor GRG brought to the Board's attention was the increased IEPA requirements of phosphorous removal and the expense of chemicals or capital costs for biological treatment to comply with this and other IEPA increased regulations. The Board discussed the means that were being used to calculate rates of inflation, and the results of an increase of rates for the residents. The Board members agreed that the increase each year over the next five years was in keeping with inflationary figures, but the concern was expressed over those residents on fixed income. Manager Haque also presented the new fee schedule which showed the new rates for filing liens and release of liens with both McHenry and Lake counties.

Motion by Mrs. Battaglia to adopt Ordinance 20-03, Amending the District's User Rate Fees and Special Fees
2nd by Mrs. Ryberg

Roll Call Vote: Dena Battaglia - Aye
 Timothy Brunn - Aye
 John Ragland - Nay
 Lydia Ryberg - Aye
 Ken Michaels - Aye

4 ayes 1 nay 0 abstain

MOTION CARRIED

c. Approval of IEPA Pre-Applications for State Revolving Loan Fund.

Manager Haque informed the Board about the IEPA's State Revolving Loan Fund for water and wastewater projects. This loan fund typically provides lower interest rates than any other private loan mechanisms. He also told the Board that filling out these pre-applications was not a commitment to accept a loan from the IEPA. However, given the unknown costs of the North clarifier repairs and the District's portion of the Darrell Road interceptor and other projects, he felt it would be wise to get these pre-applications completed in case they are needed in the future, or if grant opportunities present themselves similar to ARRA funding a few years back.

Motion by Mr. Brunn to give the District Manager the authority to submit funding nominations for Water Pollution Control Loan Program for the Darrell Road Sewer Expansion, Holiday Hills Sewer, Maintenance Garage and Lakemoor Lift Station Upgrades

2nd by Mrs. Ryberg

Roll Call Vote: Dena Battaglia - Aye
 Timothy Brunn - Aye
 John Ragland - Aye
 Lydia Ryberg - Aye
 Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

d. North Clarifier Emergency Repair Update Presentation.

The Board listened to a presentation by District Manager Haque concerning the damage to the North Clarifier and the progress in making repairs so far. The presentation included detailed graphics as to the perceived timeline of what may have caused the damage, the results of the insurance claim, and the options to having the North Clarifier repaired or replaced. After a brief discussion the Board took the following action.



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Motion by President Michaels to support the diligent work of Manager Haque and to authorize him to continue to explore options and to effectuate repairs to the North Clarifier.

2nd by Mrs. Battaglia

5 ayes 0 nays 0 abstain

MOTION CARRIED

e. Annual Wage Adjustment Review

Pursuant to the Salary Ordinance and Administration Policy and Procedures adopted in 2012 and revised in 2013, the District Manager presented an update on the wage adjustments provided since the beginning of the fiscal year for all full time, non-exempt and exempt class employees. Manager Haque brought to the District's attention that the survey of surrounding wastewater treatment facilities showed the District to have a lower headcount for operators than most other treatment facilities in the area. Although he agreed with the Board's opinion that our operators were extremely efficient, he reminded the Board that future projects may require adding more operators and office staff. The review was informational only and did not require Board action.

11. MISCELLANEOUS CORRESPONDENCE

- a. MCCG Dinner Meeting: Wednesday, February 26, 2020 at Paisano's on Broadway in Richmond.

President Michaels reminded all Board members to inform District Clerk Debi Martin if they wished to attend this social function for MCCG.

12. APPROVAL OF BILLS

Motion by Mrs. Ryberg to approve payment of bills on the February 11, 2020 bill list as presented, in the amount of \$124,303.98.

2nd Mr. Brunn

Roll Call Vote: Dena Battaglia - Aye
Timothy Brunn - Aye
John Ragland - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

13. OTHER BUSINESS - none

ADJOURNMENT

Motion by President Michaels to adjourn at 9:02 p.m.

2nd Mrs. Ryberg

5 ayes 0 nays 0 abstain

MOTION CARRIED



February 11, 2020

To: NMWRD Board of Trustees

From: Mohammed Haque, District Manager

Subject: Manager's Report

All update items are in italics.

North Clarifier Issue

A lot of time in January has been spent on getting the engineers to come up with their recommended repair that takes into consideration all the facts and investigation to date, insurance claim and sequence of repairs. Insurance has denied the claim based on a groundwater exclusion. We have been discussing the matter with counsel to determine the next best course of action. In the meantime, we have taken additional soil borings and been monitoring groundwater levels to determine patterns. The 24" pipe connecting the clarifier and oxidation ditch was televised, showing that it is in good shape and it appears that the pipe has not moved. We have been working with McHenry County Department of Health and have received TEMPORARY dewatering well permits. An alternate approach is being considered for dewatering to save the District money and avoid the dewatering permitting issues. As part of the alternative analysis, we have decided to integrate wells into a revised design so that they can be part of the permanent fix. Remainder of the work and next steps will be explained during the presentation.

Future steps are as follows:

- *Prepare repair engineering plans*
- *Enter into contracts for repair and mechanism order*

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

We continue to work with Lakemoor to ensure that startup was completed in time of the store opening. The District allowed temporary bypass pumping and operations without the permanent generator to avoid delays and to accommodate the Village's schedule. Since that time, the generator has been installed and tested. District board has approved the project improvements, contingent on punchlist item completion. *The final inspection is expected to be done later this week. I expect that after that, we will accept the improvements per past board direction and action. The check was delivered with the 10% holdback. The village was understanding of the holdback.*

Sludge Bed Cover and Conveyor

Greenfield Contractors was awarded the bid for the Sludge bed covers. We are currently in the process of submittal review and finalization. Once submittal is approved, we expect that it will be installed in 60-90 days. We have moved the sludge conveyor to directly discharge to the sludge bed to the east of the Dewatering building and are currently setting up the conveyor to dump into the bed. Once the system works and the covers are installed, we expect to order a full stainless conveyor with cleated belts that should function well long-term. *We are getting quotes for concrete blocks that the structure will sit on.*



Capital Bill

I have been working with the staff at Representative Weber's office to get them information on the member initiative funding for Lakemoor Lift Station improvements. *I continue to work with Mike Tryon to identify other sources of funding for Darrell Road Interceptor, Holiday Hills, Clarifier Repair and Maintenance Garage. Plans for the lift station work in Lakemoor have been finalized and will be shared with Representative Tom Weber. IAWA hosted a meeting that Senator Wilcox attended which provided an update on the Illinois DCEO status for funding availability from the Capital bill. Steps are being taken by staff to ensure we are ready to receive the grant.*

User Rate Study

Now that the picture regarding the capital bill is more certain, the rate study should be completed soon and we will incorporate information from a new capital improvement plan and anticipated construction for Darrell Road and it's related timing. We will also discuss the special connection fee concept that we had previously briefly looked at a few months back. *Eric Rothstein will provide his final report for next month. A user rate ordinance is on the agenda.*

Personnel

Miguel Mercado was hired recently to fill this position. An additional person was considered for the 4th operator opening, but ultimately that did not work out. See Salary Update report for other staffing discussions. We are still weighing what to do with the part-time office clerk position that was previously discussed and put on hold.

Floodproofing of Control Building and Generator Modifications

Since we have had considerable savings on this project, we are replacing the weathered and rusting doors on this building with extruded aluminum doors as well as the entire mansard to have a uniform look to the building. We are also having some landscaping work done around the building and replacing several linear feet of damaged sidewalks and stoops. Some of the concrete work is necessary to allow for the flood barriers to work properly. *Floodproofing angles and supports have been delivered. Coping and other architectural metals have been received and are currently being installed by District staff.*

Phosphorus Removal

Currently on hold due to other work and preparation for the 50th Anniversary, however, we know what we need to do for a long-term arrangement and expect to complete this project by spring. *We have ordered the permanent Hyper Ion storage tanks and will be getting it installed by a mechanical contractor.*



SCADA(Supervisory Control and Data Acquisition) and Telemetry

Fiber optics backbone has been installed and most hardware components have been purchased. *A purchase order has been issued for installation and termination of fiber optics. No update.*

Plant Process Automation – Phase 1

Three control panels have been delivered and are currently awaiting installation in the Control Building, Oxidation Ditch and Chemical Building. *We are waiting on quotes for the installation. We expect to have the panels installed over the winter. No update.*

Headworks / Screening Issues

The influent grinder was installed and continues to work well after it was fixed under warranty. There is a need to change the motor stem height. In addition, some alignment issues will require us to move it slightly in conjunction with the installation of the new replacement screen and conveyor. I am waiting on Trotter & Associates to prepare some drawings for the installation of the new Headworks MS1 bar screen, conveyor, new gates and the repositioning of the grinder. *Once revised submittals are reviewed, the screen will be put into production and scheduled for delivery. Plans from Trotter & Associates have been received.*

Non-Potable Water Improvements

Self-cleaning filter/strainer has been started up and is working quite well. In the process we have discovered that of the three existing NPW pumps, one does not work properly and another is showing extreme age and corrosion. Due to a failure of a second pump, an emergency repair was completed. *A new pump skid has been ordered from MP Pumps and we are waiting for delivery.*

Maintenance Garage

CE Ltd has started the work for stormwater permitting by McHenry County. I am working with ADG Design on the architectural drawings and will submit to the board in late fall. *A revised set of drawings has been received and permits have been applied for the paving work at this time.*

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. *Awaiting receipt of draft from Vic Filippini.*

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.*



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.*

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. Due to ongoing trouble with the Grundfos Remote Management system, we are looking into alternate alarming system for the new conversions. *Work will resume on this now that the Open House is complete. Quotes have been requested for control panel installation.*

Northern Moraine WRD - Septage Receiving Tracking
FY 2019-2020



Month	Loads	Gallons	Revenue	YTD
May-19	9	21000	\$1,260.00	\$1,260.00
Jun-19	10	22000	\$1,320.00	\$2,580.00
Jul-19	5	11850	\$711.00	\$3,291.00
Aug-19	9	22250	\$1,335.00	\$4,626.00
Sep-19	5	12950	\$777.00	\$5,403.00
Oct-19	16	38400	\$2,304.00	\$7,707.00
Nov-19	14	40100	\$2,550.00	\$10,257.00
Dec-19	10	32350	\$1,968.60	\$12,225.60
Jan-20	9	25400	\$1,642.20	\$13,867.80
Feb-20				
Mar-20				
Apr-20				

	Date	Company Name	Gallons	Cost/Gal	Revenue	Time	Type
May	5/1/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	11:15AM	Septic
	5/3/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	10:00AM	Septic
	5/6/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:15AM	Septic
	5/9/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	12:35PM	Septic
	5/10/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	9:35AM	Septic
	5/10/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	3:10PM	Septic
	5/22/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:40AM	Septic
	5/24/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	11:15AM	Septic
June	5/30/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	10:00AM	Septic
	6/3/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:45AM	Septic
	6/5/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:20AM	Septic
	6/5/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	11:15AM	Septic
	6/10/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	9:55AM	Septic
	6/12/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	8:15AM	Septic
	6/14/2019	Comm. Sewer & Septic	2500	\$0.06	\$150.00	7:55AM	Septic
	6/17/2019	Comm. Sewer & Septic	1000	\$0.06	\$60.00	1:40PM	Septic
July	6/24/2019	Comm. Sewer & Septic	2750	\$0.06	\$165.00	10:55AM	Septic
	6/25/2019	Comm. Sewer & Septic	1000	\$0.06	\$60.00	-	Septic
	6/27/2019	Comm. Sewer & Septic	2250	\$0.06	\$135.00	-	Septic
	7/8/2019	Comm. Sewer & Septic	2850	\$0.06	\$171.00	-	Septic
	7/9/2019	Comm. Sewer & Septic	2250	\$0.06	\$135.00	-	Septic
August	7/11/2019	Comm. Sewer & Septic	1200	\$0.06	\$72.00	-	Septic
	7/17/2019	Comm. Sewer & Septic	2550	\$0.06	\$153.00	-	Septic
	7/18/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	-	Septic
	8/12/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	-	Septic
	8/14/2019	Comm. Sewer & Septic	3500	\$0.06	\$210.00	10:05AM	Septic
	8/14/2019	Comm. Sewer & Septic	2100	\$0.06	\$126.00	2:05PM	Septic
	8/16/2019	Comm. Sewer & Septic	2750	\$0.06	\$165.00	1:00PM	Septic
	8/19/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:40AM	Septic
September	8/21/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	2:10PM	Septic
	8/23/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	-	Septic
	8/26/2019	Comm. Sewer & Septic	1950	\$0.06	\$117.00	8:30AM	Septic
	8/29/2019	Comm. Sewer & Septic	1950	\$0.06	\$117.00	8:10AM	Septic
	9/3/2019	Comm. Sewer & Septic	2200	\$0.06	\$132.00	10:00AM	Septic
	9/4/2019	Comm. Sewer & Septic	3500	\$0.06	\$210.00	2:45PM	Septic
	9/5/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	11:05AM	Septic
	9/6/2019	Comm. Sewer & Septic	2500	\$0.06	\$150.00	1:55PM	Septic
	9/22/2019	Comm. Sewer & Septic	3250	\$0.06	\$195.00	9:00AM	Septic

October	10/7/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	10:05AM	Septic
	10/7/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	2:55PM	Septic
	10/9/2019	Comm. Sewer & Septic	3100	\$0.06	\$186.00	2:45PM	Septic
	10/11/2019	Comm. Sewer & Septic	3100	\$0.06	\$186.00	2:30PM	Septic
	10/17/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:05AM	Septic
	10/17/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	3:10PM	Septic
	10/25/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	2:00PM	Septic
	10/25/2019	Weidner' Septic Service	3100	\$0.06	\$186.00	4:30PM	Septic
	10/28/2019	Weidner' Septic Service	3500	\$0.06	\$210.00	AM	Septic
	10/29/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	1:35PM	Septic
	10/29/2019	Weidner' Septic Service	3300	\$0.06	\$198.00	9:30AM	Septic
November	10/31/2019	Weidner' Septic Service	3400	\$0.06	\$204.00	9:45AM	Septic
	10/31/2019	Weidner' Septic Service	2900	\$0.06	\$174.00	12:05PM	Septic
	11/6/2019	Weidner' Septic Service	2850	Flat Rate	\$183.60	12:45PM	Septic
	11/7/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	9:10AM	Septic
	11/7/2019	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	12:20PM	Septic
	11/7/2019	Weidner' Septic Service	2500	Flat Rate	\$183.60	2:25PM	Septic
	11/8/2019	Weidner' Septic Service	3200	Flat Rate	\$183.60	-	Septic
	11/8/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	12:50PM	Septic
	11/15/2019	Weidner' Septic Service	2500	Flat Rate	\$183.60	9:00AM	Septic
	11/19/2019	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	11:40AM	Septic
	11/21/2019	Weidner' Septic Service	2500	Flat Rate	\$183.60	3:05PM	Septic
December	11/22/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	12:05PM	Septic
	11/22/2019	Weidner' Septic Service	2750	Flat Rate	\$183.60	1:25PM	Septic
	11/25/2019	Weidner' Septic Service	2800	Flat Rate	\$183.60	10:00AM	Septic
	11/25/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	2:05PM	Septic
	11/27/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	11:15AM	Septic
	12/2/2019	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	12:40PM	Septic
	12/3/2019	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	12:15PM	Septic
	12/3/2019	Weidner' Septic Service	3300	Flat Rate	\$183.60	3:10PM	Septic
	12/5/2019	Weidner' Septic Service	2750	Flat Rate	\$183.60	9:00AM	Septic
	12/12/2019	Comm. Sewer & Septic	3550	Flat Rate	\$173.40	9:15AM	Septic
	12/12/2019	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	1:40PM	Septic
January	12/13/2019	Weidner' Septic Service	3200	Flat Rate	\$183.60	1:10PM	Septic
	12/13/2019	Weidner' Septic Service	3200	Flat Rate	\$183.60	1:25PM	Septic
	12/17/2019	Weidner' Septic Service	2250	Flat Rate	\$183.60	10:30AM	Septic
	12/18/2019	Comm. Sewer & Septic	2700	Flat Rate	\$173.40	12:15PM	Septic
	12/18/2019	Weidner' Septic Service	3400	Flat Rate	\$183.60	1:45PM	Septic
	1/3/2020	Comm. Sewer & Septic	2700	Flat Rate	\$173.40	11:00AM	Septic
	1/3/2020	Weidner' Septic Service	2500	Flat Rate	\$183.60	12:00PM	Septic
	1/8/2020	Weidner' Septic Service	2700	Flat Rate	\$183.60	10:00AM	Septic
	1/10/2020	Weidner' Septic Service	3500	Flat Rate	\$183.60	-	Septic
	1/14/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	12:05PM	Septic
	1/14/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	2:45PM	Septic
	1/16/2020	Weidner' Septic Service	2000	Flat Rate	\$183.60	1:55PM	Septic
	1/17/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	1:40PM	Septic
	1/21/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	2:00PM	Septic

NMWRD Sewer Connection Permit Tracking

FY 2019-20



Permit Date	Address	City	Re-Connect, Repair, Demo or New Connection	Permit Owner	Permit No.	Amount Paid
5/22/2019	1245 Noble Drive	PB	New Connection	Deer Grove II Partners	5637	\$ 7,674.00
6/3/2019	204 Eastwood Avenue	PB	Re-Connect	Dariusz Urban	5637	\$ 100.00
6/11/2019	1990 Fox Ridge Drive	IL	New Connection	William Ryan Homes	5299-A	\$ 7,674.00
6/17/2019	316 Richard Court	IL	Repair	Manuel Sosa	5638	\$ -
6/19/2019	106 E. State Road	IL	New Connection	Kaya Properties	214-A	\$ 11,757.67
8/1/2019	205 Rand Road	LM	New Connection	FNC RE Entity - Dunkin Donuts	5639	\$ 32,565.00
11/5/2019	1241 Noble Drive	PB	New Connection	Jarvis	5640	\$ 7,674.00
11/5/2019	1237 Noble Drive	PB	New Connection	Jarvis	5641	\$ 7,674.00
11/7/2019	804 W Sheridan Road	LM	Repair	Pearson	214-A	\$ -
11/13/2019	316 Richard Court	IL	Repair	Manuel Sosa	214-B	\$ -
11/27/2019	2170 Walnut Glen Blvd	IL	New Connection	William Ryan Homes	5642	\$ 7,674.00
12/3/2019	437 Northlake Road	LM	Demolition	Walley / Eagle BioMass	4146-A	-
12/6/2019	203 E State Road	IL	Repair	Diemer Plumbing	1476-A	\$ 100.00
12/30/2019	3410 Woodland Cir. N	IL	Repair	Mr. Rooter	528-A	\$ 100.00
1/24/2020	3410 Woodland Cir. N	IL	Repair	Mr. Rooter	528-A	-

FY 2019 - 2020 Total: \$ 82,992.67

Proposed Budget FY 2019 - 2020 \$ 153,472.00

Proposed +/- vs. Current \$ (70,479.33)

NMWRD Sewer Connection Permit Tracking

FY 2019-20



Permit Date	Address	City	Re-Connect, Repair, Demo or New Connection	Permit Owner	Permit No.	Amount Paid
5/22/2019	1245 Noble Drive	PB	New Connection	Deer Grove II Partners	5637	\$ 7,674.00
6/3/2019	204 Eastwood Avenue	PB	Re-Connect	Dariusz Urban	5637	\$ 100.00
6/11/2019	1990 Fox Ridge Drive	IL	New Connection	William Ryan Homes	5299-A	\$ 7,674.00
6/17/2019	316 Richard Court	IL	Repair	Manuel Sosa	5638	\$ -
6/19/2019	106 E. State Road	IL	New Connection	Kaya Properties	214-A	\$ 11,757.67
8/1/2019	205 Rand Road	LM	New Connection	FNC RE Entity - Dunkin Donuts	5639	\$ 32,565.00
11/5/2019	1241 Noble Drive	PB	New Connection	Jarvis	5640	\$ 7,674.00
11/5/2019	1237 Noble Drive	PB	New Connection	Jarvis	5641	\$ 7,674.00
11/7/2019	804 W Sheridan Road	LM	Repair	Pearson	214-A	\$ -
11/13/2019	316 Richard Court	IL	Repair	Manuel Sosa	214-B	\$ -
11/27/2019	2170 Walnut Glen Blvd	IL	New Connection	William Ryan Homes	5642	\$ 7,674.00
12/3/2019	437 Northlake Road	LM	Demolition	Walley / Eagle BioMass	4146-A	-
12/6/2019	203 E State Road	IL	Repair	Diemer Plumbing	1476-A	\$ 100.00
12/30/2019	3410 Woodland Cir. N	IL	Repair	Mr. Rooter	528-A	\$ 100.00
1/24/2020	3410 Woodland Cir. N	IL	Repair	Mr. Rooter	528-A	-

FY 2019 - 2020 Total: \$ 82,992.67

Proposed Budget FY 2019 - 2020 \$ 153,472.00

Proposed +/- vs. Current \$ (70,479.33)

Northern Moraine WRD - Septage Receiving Tracking
FY 2019-2020



Month	Loads	Gallons	Revenue	YTD
May-19	9	21000	\$1,260.00	\$1,260.00
Jun-19	10	22000	\$1,320.00	\$2,580.00
Jul-19	5	11850	\$711.00	\$3,291.00
Aug-19	9	22250	\$1,335.00	\$4,626.00
Sep-19	5	12950	\$777.00	\$5,403.00
Oct-19	16	38400	\$2,304.00	\$7,707.00
Nov-19	14	40100	\$2,550.00	\$10,257.00
Dec-19	10	32350	\$1,968.60	\$12,225.60
Jan-20	9	25400	\$1,642.20	\$13,867.80
Feb-20				
Mar-20				
Apr-20				

	Date	Company Name	Gallons	Cost/Gal	Revenue	Time	Type
May	5/1/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	11:15AM	Septic
	5/3/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	10:00AM	Septic
	5/6/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:15AM	Septic
	5/9/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	12:35PM	Septic
	5/10/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	9:35AM	Septic
	5/10/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	3:10PM	Septic
	5/22/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:40AM	Septic
	5/24/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	11:15AM	Septic
June	5/30/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	10:00AM	Septic
	6/3/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:45AM	Septic
	6/5/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:20AM	Septic
	6/5/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	11:15AM	Septic
	6/10/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	9:55AM	Septic
	6/12/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	8:15AM	Septic
	6/14/2019	Comm. Sewer & Septic	2500	\$0.06	\$150.00	7:55AM	Septic
	6/17/2019	Comm. Sewer & Septic	1000	\$0.06	\$60.00	1:40PM	Septic
July	6/24/2019	Comm. Sewer & Septic	2750	\$0.06	\$165.00	10:55AM	Septic
	6/25/2019	Comm. Sewer & Septic	1000	\$0.06	\$60.00	-	Septic
	6/27/2019	Comm. Sewer & Septic	2250	\$0.06	\$135.00	-	Septic
	7/8/2019	Comm. Sewer & Septic	2850	\$0.06	\$171.00	-	Septic
	7/9/2019	Comm. Sewer & Septic	2250	\$0.06	\$135.00	-	Septic
August	7/11/2019	Comm. Sewer & Septic	1200	\$0.06	\$72.00	-	Septic
	7/17/2019	Comm. Sewer & Septic	2550	\$0.06	\$153.00	-	Septic
	7/18/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	-	Septic
	8/12/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	-	Septic
	8/14/2019	Comm. Sewer & Septic	3500	\$0.06	\$210.00	10:05AM	Septic
	8/14/2019	Comm. Sewer & Septic	2100	\$0.06	\$126.00	2:05PM	Septic
	8/16/2019	Comm. Sewer & Septic	2750	\$0.06	\$165.00	1:00PM	Septic
	8/19/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:40AM	Septic
September	8/21/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	2:10PM	Septic
	8/23/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	-	Septic
	8/26/2019	Comm. Sewer & Septic	1950	\$0.06	\$117.00	8:30AM	Septic
	8/29/2019	Comm. Sewer & Septic	1950	\$0.06	\$117.00	8:10AM	Septic
	9/3/2019	Comm. Sewer & Septic	2200	\$0.06	\$132.00	10:00AM	Septic
	9/4/2019	Comm. Sewer & Septic	3500	\$0.06	\$210.00	2:45PM	Septic
	9/5/2019	Comm. Sewer & Septic	1500	\$0.06	\$90.00	11:05AM	Septic
	9/6/2019	Comm. Sewer & Septic	2500	\$0.06	\$150.00	1:55PM	Septic
	9/22/2019	Comm. Sewer & Septic	3250	\$0.06	\$195.00	9:00AM	Septic

October	10/7/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	10:05AM	Septic
	10/7/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	2:55PM	Septic
	10/9/2019	Comm. Sewer & Septic	3100	\$0.06	\$186.00	2:45PM	Septic
	10/11/2019	Comm. Sewer & Septic	3100	\$0.06	\$186.00	2:30PM	Septic
	10/17/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	9:05AM	Septic
	10/17/2019	Comm. Sewer & Septic	2000	\$0.06	\$120.00	3:10PM	Septic
	10/25/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	2:00PM	Septic
	10/25/2019	Weidner' Septic Service	3100	\$0.06	\$186.00	4:30PM	Septic
	10/28/2019	Weidner' Septic Service	3500	\$0.06	\$210.00	AM	Septic
	10/29/2019	Comm. Sewer & Septic	3000	\$0.06	\$180.00	1:35PM	Septic
	10/29/2019	Weidner' Septic Service	3300	\$0.06	\$198.00	9:30AM	Septic
November	10/31/2019	Weidner' Septic Service	3400	\$0.06	\$204.00	9:45AM	Septic
	10/31/2019	Weidner' Septic Service	2900	\$0.06	\$174.00	12:05PM	Septic
	11/6/2019	Weidner' Septic Service	2850	Flat Rate	\$183.60	12:45PM	Septic
	11/7/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	9:10AM	Septic
	11/7/2019	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	12:20PM	Septic
	11/7/2019	Weidner' Septic Service	2500	Flat Rate	\$183.60	2:25PM	Septic
	11/8/2019	Weidner' Septic Service	3200	Flat Rate	\$183.60	-	Septic
	11/8/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	12:50PM	Septic
	11/15/2019	Weidner' Septic Service	2500	Flat Rate	\$183.60	9:00AM	Septic
	11/19/2019	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	11:40AM	Septic
	11/21/2019	Weidner' Septic Service	2500	Flat Rate	\$183.60	3:05PM	Septic
December	11/22/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	12:05PM	Septic
	11/22/2019	Weidner' Septic Service	2750	Flat Rate	\$183.60	1:25PM	Septic
	11/25/2019	Weidner' Septic Service	2800	Flat Rate	\$183.60	10:00AM	Septic
	11/25/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	2:05PM	Septic
	11/27/2019	Weidner' Septic Service	3000	Flat Rate	\$183.60	11:15AM	Septic
	12/2/2019	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	12:40PM	Septic
	12/3/2019	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	12:15PM	Septic
	12/3/2019	Weidner' Septic Service	3300	Flat Rate	\$183.60	3:10PM	Septic
	12/5/2019	Weidner' Septic Service	2750	Flat Rate	\$183.60	9:00AM	Septic
	12/12/2019	Comm. Sewer & Septic	3550	Flat Rate	\$173.40	9:15AM	Septic
	12/12/2019	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	1:40PM	Septic
January	12/13/2019	Weidner' Septic Service	3200	Flat Rate	\$183.60	1:10PM	Septic
	12/13/2019	Weidner' Septic Service	3200	Flat Rate	\$183.60	1:25PM	Septic
	12/17/2019	Weidner' Septic Service	2250	Flat Rate	\$183.60	10:30AM	Septic
	12/18/2019	Comm. Sewer & Septic	2700	Flat Rate	\$173.40	12:15PM	Septic
	12/18/2019	Weidner' Septic Service	3400	Flat Rate	\$183.60	1:45PM	Septic
	1/3/2020	Comm. Sewer & Septic	2700	Flat Rate	\$173.40	11:00AM	Septic
	1/3/2020	Weidner' Septic Service	2500	Flat Rate	\$183.60	12:00PM	Septic
	1/8/2020	Weidner' Septic Service	2700	Flat Rate	\$183.60	10:00AM	Septic
	1/10/2020	Weidner' Septic Service	3500	Flat Rate	\$183.60	-	Septic
	1/14/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	12:05PM	Septic
	1/14/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	2:45PM	Septic
	1/16/2020	Weidner' Septic Service	2000	Flat Rate	\$183.60	1:55PM	Septic
	1/17/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	1:40PM	Septic
	1/21/2020	Weidner' Septic Service	3000	Flat Rate	\$183.60	2:00PM	Septic



NMWRD February 2020 Operations Report

As of March 6th, 2020

Prepared by: Luke Markko, Superintendent

Chris Molitor Class 3 Certification - I'd like to take a moment to recognize and congratulate Operator Chris Molitor on passing the IEPA Class 3 Wastewater Operator Certification exam. Chris' efforts better both him and the District!

North Secondary Clarifier – February found us taking the first steps toward remediating the North Clarifier following a period of staff and other professional service providers taking a long hard look at how to approach repairs in a fiscally responsible manner while maximizing the longevity of our efforts. District Manager Haque has been keeping the District Board informed as we progress toward remediating the Clarifier. Here is a summary of recent activity.

- **New Mechanism** – A new clarifier mechanism has been ordered from Walker Process Systems. The new mechanism will have stainless steel components for items that will be below the water level in the tanks. This will significantly reduce rehab costs in the future. The existing coated steel needs sandblasting and recoating approximately every 10 years.
- **Dome & Mechanism Removal** – A PO was issued to DPS Equipment for the removal of the fiberglass dome, removal of the mechanism, installation of the new mechanism, and reinstallation of the dome. DPS is expected to get started on the dome removal and removal of the mechanism in the coming weeks.
- **Concrete Rehab** – District staff are close to settling on a contractor to perform the concrete rehab of the clarifier floor. We are evaluating costs and approaches to the method of repair.
- **Portable Clarifier** – Once the mechanism and floor of the North Clarifier are removed, the District will be relying solely on the South Clarifier to perform secondary clarification of the waste stream as it flows through the facility. Staff are looking into options to rent a portable clarifier or holding tanks to place on site to provide temporary redundancy in the event an issue were to arise with the South Clarifier for the period of time when it is the only available secondary treatment point in the facility.

Lakemoor Lift Station Capital Bill Improvements – An initial plan set was provided by Trotter and Associates Inc. (TAI) for the planned improvements to the Lakemoor lift stations that will be funded by the Capitol Bill. This is at an early stage and District staff have already responded to TAI with recommended revisions to the initial plans.

Crane Truck – While pulling pumps at a lift station, Operations staff noticed that the base of the crane was moving independently of the body of the truck it is mounted to. This presents a significant safety concern with the operation of the truck and crane. The crane was retrofitted to a new Ford F-550 chassis and utility body last year by Monroe Truck Equipment. Monroe has picked up the vehicle and is evaluating and making repairs to it. I am awaiting a report on what went wrong and what measures they have taken to ensure the safe operation of the vehicle in the future.



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Lift Station Automatic Transfer Switches – Automatic Transfer Switches (ATS's) have been replaced at both the Rawson Bridge Rd. Lift Station and Lift Station #3. These two ATS's each experienced mechanical failure that resulted in a need for replacement. The Rawson Bridge Rd. ATS was over twenty years old, and the one located at LS #3 was part of a residential backup generator system that is scheduled for replacement with the Lakemoor Lift Station Capital Bill Improvements. An ATS was selected that will be compatible with the future generator that will be installed at that location.



Former Rawson Bridge Rd. ATS



New Rawson Bridge Rd. ATS

SCADA Panels – Three remaining control panels that will serve as local control hubs at several locations at the treatment plant have been installed. They join a fourth that was installed in the Dewatering Building. These three are in the Control Building, Chemical Building, and at the Oxidation Ditch. Fiber optic cable is scheduled to be installed the week of March 9th. The fiber will be pulled through conduits that were directionally bored around the facility to provide a continuous loop around the treatment plant. This approach provides redundancy in that if a circumstance were to arise where the fiber optic cable was damaged at a single point, all of the SCADA panels could still communicate with one another. District staff are working with Automation System and Design to evaluate software packages to build the SCADA interface and control logic.



Chemical Building SCADA panel



Oxidation Ditch SCADA panel





Disinfection System Improvements – As noted in previous months, improvements have been underway with the disinfection system. The disinfection chemicals are very corrosive and have taken their toll on the equipment housed in the same room. Fluorescent light fixtures have been replaced with vapor tight LED lighting that provides better illumination as well as improved longevity in a corrosive environment. New chemical storage tanks have been installed and plumbed to provide external fill ports, and rooftop venting. This will create a safer and cleaner method of filling the tanks. The former arrangement often resulted in chemicals being dripped on the floor, and a buildup of hazardous vapors in the storage room, both of which will be mitigated by the exterior fill and venting.



New bulk holding tanks



Rooftop venting will reduce interior vapors

Phosphorous Removal - Our Hyper Ion bulk storage tanks have arrived. The Hyper Ion is an alum-type chemical that is utilized to precipitate phosphorous out of the waste stream. Presently the chemical is ordered in 275 gallon totes. District staff must manually move these totes with the front-end loader to maintain a constant feed of the chemical into the oxidation ditch. The bulk storage tanks will allow for bulk tanker deliveries and house approximately a 7-week supply of Hyper Ion. Similar to the disinfection system improvements, piping will be installed to facilitate filling, venting and feeding the chemical.



1,000 Gallon Hyper Ion tank



Exterior fill ports with spill containment reservoir

Collection System Sampling – There have been intermittent periods when laboratory analysis on Mondays indicates that there are higher levels of ammonia entering and leaving the treatment plant on Sundays. This has recently resumed, and over the past several weeks, staff have been





systematically sampling at various points in the collection system to determine where it is coming from. We began by sampling at key lift stations that would indicate what region of the system it could be originating from. Those results indicated that the systems feeding into Lift Station #7 in Lakemoor were resulting in ammonia readings as high as 39 mg/L at that lift station. To put that into context, the average ammonia levels entering the treatment plant for January 2020 were 16 mg/L. So, this indicates a significant source of ammonia. Recent snowfall has made accessing manholes in the vicinity of Lift Station #7 difficult. Now that most of the snow has cleared, we have resumed sampling in this area, and continue to investigate this situation.

Lily Lake Rd. Improvements – Improvement plans by Nunda township to Lily Lake Rd. have prompted District staff to locate & evaluate the two force mains coming from Lift Station #'s 1 & 7 that run along Lily Lake Rd. These two force mains are critical because they convey all of the wastewater from the Village of Lakemoor. Locating the force mains has proved challenging in that there is no tracer wire to connect a locating machine to either force main. Staff must refer to the original plan drawings for the installation of each force main or field verify the location of air relief and cleanout structures. The latter have been found to be buried under a significant amount of topsoil and the structures will need to be brought up to grade. In fact, a manhole lid that was found buried, broke into pieces as it was removed to inspect the air relief valve in the structure below. The lid was promptly replaced. Most of the air relief valves have been found to be underwater. The structures housing them will need to be pumped out. The few air relief valves that are not submerged show a need for replacement. A more suitable replacement air relief valve is being evaluated. One that is made up of composite and stainless-steel materials that will allow for more ease in installation due to the lightweight material and allow for many years of service due to the corrosion resistant materials.



Example of buried force main manhole on Lily Lake Rd.



Heavily corroded air relief valve





NMWRD Engineering Report

Date: February 7th, 2020

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

Woodman's Lift Station and Sanitary Sewer Additions:

[Project Update] – Mainline construction and testing was completed in July while the remaining items associated with the lift station were completed in late August. Since August, there have been various areas of concern that the District requested be addressed before we assume responsibility of the lift station. The District will perform its final inspection on February 11th. Note that the access road to the lift station has not been paved but aggregate has been laid to allow for winter access.

Right turn lane at the intersection of Route 176 and Roberts:

[Project Update] – This project is nearing completion and I expect that the project will not be completed until after the winter as electrical work still needs to be wrapped up.

NMWRD Plant Projects:

[Project Update] – Plant project updates include; prep work on the Southwestern most drying beds has been completed while some block foundation blocks have been positioned for the sludge drying bed cover, a divider wall was installed between the Sodium Hypochlorite and Sodium Bisulfite in the first bay of the chemical room, new chemical storage tanks have been ordered, and various painting projects have been completed. The endwall design for the Greenfield sludge drying bed cover has been sent to Craig White with Greenfield and they are currently working with McHenry County for the permitting phase of this project. Additionally, the District was informed that Fisher Bros will not have first quality foundation blocks until the Spring, at which point the District will order the remaining blocks. There were several other plant projects, both new and continued projects, during the month of January including; District clothing order was placed, continued searching for greenhouse quotes, continued searching for door hardware quotes and starting the initial draft of the District CMOM plan. Finally, three (3) more soil borings were drilled relating to the North Secondary Clarifier. Note that two (2) of the additional soil borings were drilled outside of the clarifier around the perimeter of the structure, while the final soil boring involved coring through the concrete floor within the clarifier while the SRN team utilized a hand auger to obtain strata data. See Operations Report for more details relating to the North Secondary Clarifier.





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NMWRD SCADA & Telemetry:

[Project Update] – Completed aspects of the SCADA & Telemetry project include; underground conduit with tracer wire installed at the plant, most of the hardware has been ordered for SCADA system (recommended by ASD), one (1) actuator installed on a RAS line, one (1) actuator installed on the Oxidation Ditch, fiber cable ordered, and new concrete pads poured. The three (3) panels include; Control Building C.P., Oxidation Ditch C.P. and Chemical Building C.P. and all were delivered in October. The District issued a P.O. to Imperial CCTV to pull and terminate fiber and although we expected that work to be performed in December, we are now pushing the work back until we get the control panels placed and bring power to them. We expect to have the panels installed by mid-February so that Imperial can begin their work.

Septage Receiving:

[Project Update] – The District has been exploring the option of septage receiving at the treatment plant and intends to move forward with a permanent septage receiving station. Preliminary designs have been examined and District staff are close to finalizing plans. A new manhole was placed near the Southeast corner of the drying beds in anticipation for septage receiving. The new manhole is now connected to the headworks wet well but is currently not in use. In preparation for the next phase of septage receiving, the District is searching for revised quotes for new gate hardware that will allow haulers to enter only if they receive a District issued RFID card that will both track proximity of haulers entering the treatment plant and allows for complete control on who does and does not have access to the plant. This program will provide the District with another revenue stream with a short-term payback period.

Deer Grove Sanitary Sewer Extension:

[Project Update] – The District has officially entered the maintenance period of the project for the next three (3) years.

Savannah's of Lakemoor Residential Subdivision:

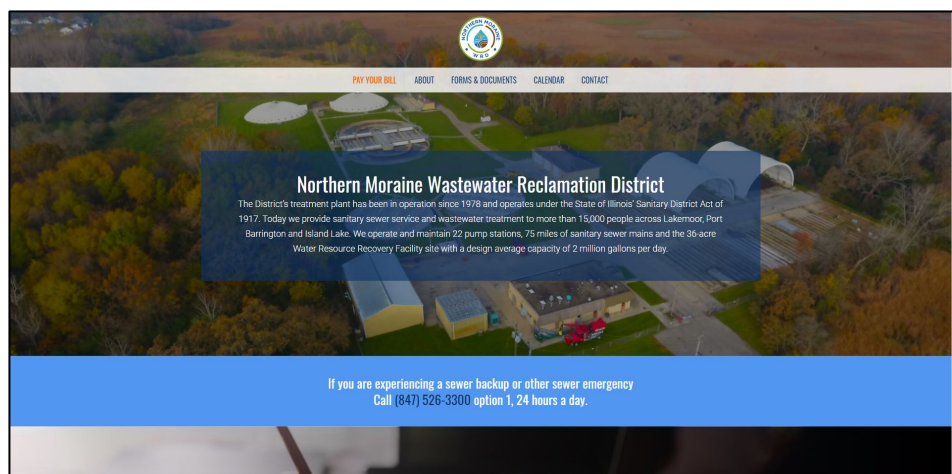
[Project Update] – The District has officially entered the maintenance period of the project for the next three (3) years.





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

- We officially launched our new NMWRD website on Tuesday, January 7th. District Clerk, Debi Martin and District Staff Engineer, Joe Lapastora received training on Monday, January 13th that will allow for the District to make all website edits in-house moving forward.



Screenshot from the new NMWRD website.

- SRN Testing returned in mid-January to drilling three (3) additional soil borings. Two (2) of the additional borings were performed around the perimeter of the North Clarifier, while one (1) involved coring through the clarifier floor to obtain a soil boring directly beneath the Clarifier itself. These additional borings were added to the existing Geotechnical Report and a revised version was provided to the District at the end of January.



First soil boring location.



Second soil boring location.



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Third soil boring/coring location.



SRN team hand augering for soil boring.



Concrete and grout core.

- Bartnick Construction returned in early-January to perform another pressure relief valve (PRV) investigation relating to the North Clarifier. Bartnick was able to locate a PRV on the East side of the tank that the District was hoping to uncover. Bartnick also installed a 12" standpipe for dual use as monitoring water levels and to be used for dewatering. Note that this standpipe was placed at a lower extent than the previous two (2) standpipes. The depth of the standpipe was just below the clarifier footing.



Location of East PRV investigation



Picture of PRV bedding.





NORTHERN MORaine **W R D**



Picture showing extent of groundwater.



Picture showing extent of Clarifier footing.



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DELINQUENT ACCOUNTS RECAP FOR January 2020

Revised: 2/04/20 by Debi Martin, District Clerk

\$200-\$300

39 Active Accounts

Island Lake – 20 customers
16 Water Shut Off Notices, 1 Sewer Disconnection Notice, 3 Final Notices of Delinquency
Lakemoor – 11 customers
1 Final Water Shut Off Notice, 6 Final Notices of Delinquency, 4 Sewer Disconnection Notices
Port Barrington – 8 customers
5 Final Notices of Delinquency, 3 Sewer Disconnection Notices

\$301-500

16 Active Accounts

Island Lake – 7 customers
4 Final Water Shut off Notices, 3 Sewer Disconnection Notices
Lakemoor – 4 customers
3 Sewer Disconnection Notices, 1 making payments
Port Barrington – 5 customers
3 Sewer Disconnection Notices, 2 making payments

\$501-\$1000

13 Active Accounts

Island Lake – 4 customers
4 liens – 3 with water off, 1 to be disconnected from sewer
Lakemoor – 6 customers
6 liens – 4 to be disconnected
Port Barrington – 3 customers
3 liens – 2 to be disconnected, with 1 now bank owned

\$1001 and up

10 Active Accounts

Island Lake – 5 customers
5 liens – 4 with water off, 1 to be disconnected from sewer
Lakemoor – 5 customers
5 liens – 2 sold for delinquent taxes; with 1 to be demolished, 3 to be disconnected

Delinquent Accounts total (active and inactive customers): **\$47,023.47** (\$9,701.89 inactive accts)

January 2019's report: **\$52,553.05**

January 2018's report: **\$51,618.84**

MONTHLY ACTIVITY:

4799	Monthly Bills mailed on 2/01/20 (for January service)	161	Notices of Delinquency mailed on 2/03/20
388	Bills <u>not</u> mailed – customers prepaid on their accounts	14	Real Estate closings for January 2019
16	Water Shut Off Notices mailed on 2/03/20	2	Liens filed in January
14	Final Notices of Delinquency mailed on 2/03/20	3	Liens released in January
17	Sewer Disconnection Notices mailed on 2/03/20	5	Final Water Shut off Notices mailed on 2/03/20

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"We found the accounting error. Somebody printed all the zeroes upside down."



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AGENDA REGULAR MEETING

7:30 P.M. – February 11, 2020

- 1. CALL TO ORDER & ROLL CALL**
- 2. PLEDGE OF ALLEGIANCE**
- 3. PRESENTATION & APPROVAL OF MINUTES**
 - a. Regular Meeting Minutes – January 14, 2020
- 4. TREASURER'S REPORT**
- 5. PUBLIC COMMENTS**
- 6. MANAGER'S REPORT**
 - a. Operations Report
 - b. Engineering Report
 - c. Delinquent Accounts Report
- 7. TRUSTEE REPORTS**
- 8. LEGAL BUSINESS**
- 9. OLD BUSINESS**
- 10. NEW BUSINESS**
 - a. Approve Ordinance 20-02 Amending the District's Connection Fee and Establishing a Special Connection Fee for Darrell Road Facilities
 - b. Approve Ordinance 20-03 Amending the District's User Rate Fee
 - c. Approve IEPA Pre-Applications for District Capital Projects
 - d. North Clarifier Emergency Repair Update
 - e. Review of 2019 Wage Increases per Salary Administration Policy
- 11. MISCELLANEOUS CORRESPONDENCE**
 - a. MCGG Membership Meeting – Wednesday, February 26, 2020 at Paisano's, Richmond, Illinois
- 12. APPROVAL OF BILLS**
- 13. OTHER BUSINESS**
 - a. Executive Session – Personnel; Litigation, if needed

Posted to www.nmwrld.org - February 7, 2020



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