

Village of Mukwonago
Notice of Meeting and Agenda

REGULAR VILLAGE BOARD MEETING
Wednesday, November 16, 2022

Time: **6:30 pm**

Place: **Mukwonago Municipal Building/ Board Room, 440 River Crest Court,
Mukwonago, WI 53149**

1. Call to Order

2. Roll Call

3. Pledge of Allegiance

4. Comments from the Public

The Public Comment Session shall last no longer than fifteen (15) minutes and individual presentations are limited to three (3) minutes per speaker. These time limits may be extended at the discretion of the Chief Presiding Officer. The Village Board may have limited discussion on the information received, however, no action will be taken on issues raised during the Public Comment Session unless they are otherwise on the Agenda for that meeting. Public comments should be addressed to the Village Board as a body. Presentations shall not deal in personalities personal attacks on members of the Village Board, the applicant for any project or Village employees. Comments, questions and concerns should be presented in a respectful professional manner. Any questions to an individual member of the Commission or Staff will be deemed out of order by the Presiding Officer.

5. Public Hearings

All persons interested in making comments about any of the public hearing items will be heard. Formal petitions and written comments regarding any of the public hearing items may be submitted tonight. During the public hearing(s), if you wish to be heard, the Village Board asks that you begin by stating your name and address, speak for no more than three minutes and attempt to avoid duplication. Each person speaking at the public hearing must sign the Public Hearing Appearance sign-in sheet before speaking. The sign-in sheet is available on the table located in the back of the room.

5.1 Public Hearing before the Village Board to consider a proposed Amendment of the Village's Comprehensive Plan with regard to 560 Bay View Rd..

[Public notice for VB hearing 560 Bay View Rd.doc](#)

5.2 Public Hearing on the proposed 2023 Budget for the Village of Mukwonago.

[Budget Notice for FY-2023](#)

6. Consent Agenda

All items listed are considered routine and/or have been unanimously recommended by the Committee of the Whole and will be enacted by one motion. There will be no separate discussion of these items unless a Board member so requests, in which event the item will be removed from the Consent agenda and be considered on the regular agenda.

6.1 Approve Minutes of the Village Board meeting of October 19, 2022 and Special meeting of October 24, 2022.

[2022-10-19 Draft VB Minutes](#)

- 6.2 Approve Accounts Payable Vouchers in the amount of \$394,952.13.
[110222 VB COW Packet.pdf](#)
- 6.3 Approve **Ordinance 1013** an Ordinance to amend **Section 2-26** Village Board and **Ordinance 1014** an Ordinance to amend **Section 2-34** Committee of the Whole to reflect the correct day of the week for monthly meetings to be held.
[Cover Report - Chapter 2 Ordinance Amend.pdf](#)
[ORDINANCE 1013 - Hours of Board 2022.docx](#)
[ORDINANCE 1014 - Hours of COW 2022.docx](#)
- 6.4 Approve Pre-bid design **Task Order 2022-11** for Well 3 and 4 HMO Treatment Predesign Study with Ruekert-Mielke, Inc.
[Cover Report Radium Treatment Plant Pre-design Task Order](#)
[Task Order 2022-11 Well Nos. 3 and 4 HMO Treatment Predesign Study_1.pdf](#)
[Wells No. 3 and 4 Radionuclide Removal Analysis Memo.pdf](#)
[Water and Wastewater System Capacity Analysis-202105.pdf](#)
- 6.5 Approve the Atkinson Lift Station Pump Improvements Bid to August Winter & Sons Inc in the amount of \$1,184,000.
[Atkinson LS Cover Report](#)
[Recommendation of Award - Atkinson lift station.pdf](#)
- 6.6 Approve **Resolution 2022-65** to approve a Letter of Credit reduction for Minors Estates Phase 2.
[Minors 4-Phase 2 - Letter of Credit Reduction #1](#)
[RESOLUTION 2022-65 \(LOC Reduction Minors Estates PH2\)](#)
- 6.7 Approve authorizing the Public Works Director to issue a Right of Way permit to IDC subject to DNR approval and property owner agreeing to indemnify and hold the Village harmless.
[IDC Combined Cover Report.pdf](#)
[IDC-Treatment Map_Oct 2022.pdf](#)
[IDC_EX9 GWQM-VC _Aug 2022.pdf](#)

7. Planning Commission Recommendations

Discussion and possible action on the following Plan Commission Recommendations

- 7.1 Discussion and possible action on **Ordinance 1015** An Ordinance to approve an Amendment to the Village Comprehensive Plan with regard to the classification of the property located at 560 Bay View Rd; Parcel MUKV 2010-978-017.
[Staff report for October 11 2022.pdf](#)
[PC-RESOLUTION 2022-18 Comp Plan Amend - 560 Bay View Rd - Signed.pdf](#)
[ORDINANCE 1015 - Zoning 560 Bayview.docx](#)

8. Finance Committee, Trustee Darlene Johnson

Discussion and possible action on the following items

- 8.1 Discussion and possible action to approve Accounts Payable Vouchers in the amount of \$154,996.70.

[20221116 VB Packet.pdf](#)

- 8.2 Discussion and possible action to approve **Resolution 2022-66** a Resolution adopting the 2023 Annual Budget and establishing the Property Tax Levy.

[RESOLUTION 2022-66 \(Adopt 2023 Village Budgets & 2022 Tax Levy\).docx](#)

[2023 Other Village Funds Budget Exhibit for Resolution.pdf](#)

[2023 General Fund Budget Exhibit for Resolution.pdf](#)

- 8.3 Discussion and possible action on **Resolution 2022-67** a Resolution adopting the 2023 Storm Water Utility District #1 Budget.

[RESOLUTION 2022-67 \(Adopt 2023 Storm Water Utility District 1 Budget\).docx](#)

[2023 Storm Water Utility Budget Exhibit for Resolution.pdf](#)

9. Public Works Committee, Trustee Brill

Discussion and possible action on the following items

10. Protective Services, Trustee Decker

Discussion and possible action on the following items

- 10.1 Monthly Police Report for October 2022. *(For Information Only)*

[Monthly Report October 2022](#)

- 10.2 Fire Department Reports *(For Information Only)*

[Fire Reports Combined](#)

11. Downtown Development Committee Recommendations, Trustee Reeves

- 11.1 Discussion and possible action to authorize staff to bid way-finding signs for the Village as adopted by the Village Board, to include all four years of planned work with a clause the Village may cancel future work if necessary.

[Agenda Cover Report Bidding of Wayfind Signage.pdf](#)

[Entry Way Signage Locations.pdf](#)

[Primary Entry Way Sign.pdf](#)

[Secondary Entry Sign.pdf](#)

12. Village Administrator

- 12.1 Discussion and possible action on FIRM (Flood Insurance Rate Map) map updates.

[FIRM Agenda Cover Report.pdf](#)

[FIRM Email from RM.pdf](#)

13. Village Clerk-Treasurer

13.1 Review of November 8, 2022 Election Day activities and statistics report.

[Election Statistics Report Updated 11-08-2022](#)

[I Voted Sticker Design Winners](#)

[Vote Tally of all Sticker Design Entries](#)

14. Closed Session

Closed session pursuant to **Wis. Stats § 19.85 (1) (g)** (Conferring with legal counsel who either orally or in writing will advise governmental body on strategy to be adopted with respect to current or likely litigation) concerning GFLP v Village of Mukwonago.

15. Reconvene into Open Session

Motion to reconvene into open session pursuant to Wis. Stats. §19.85(2) for possible discussion and/or action concerning any matter discussed in closed session

16. Adjournment

It is possible that a quorum of, members of other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information. No action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice. Please note, upon reasonable notice, efforts will be made to accommodate the needs of individuals with disabilities through appropriate aids and services. For additional information or to request this service, contact the Municipal Clerk's Office, (262) 363-6420.

NOTICE OF PUBLIC HEARING BEFORE THE VILLAGE OF MUKWONAGO VILLAGE
BOARD TO CONSIDER A PROPOSED AMENDMENT OF THE VILLAGE'S
COMPREHENSIVE PLAN WITH REGARD TO 560 BAY VIEW ROAD

The Village of Mukwonago Village Board will conduct a public hearing in the Board Room of the Village Hall, 440 River Crest Court, Mukwonago, Waukesha and Walworth counties, on November 16, 2022, commencing at 6:30 P.M. or soon thereafter to consider a recommendation from the Village's Plan Commission to amend the future land use map in the Village's adopted comprehensive plan as petitioned by the Mukwonago Area School District for property located at 560 Bay View Road.

A copy of the Plan Commission's resolution recommending the proposed change is available for inspection at Village Hall during regular business hours.

All interested parties will be heard. Written comments will be accepted up to the time of the hearing. For more information, please contact the village planner at (262) 363-6420 x. 2111, or at planner@villageofmukwonago.com.

For additional information or to request accommodations, please contact Diana Dykstra, Village Clerk, at (262) 363-6420 x. 2103.

Diana Dykstra, Village Clerk

To be published: October 14, 2022

**NOTICE OF PUBLIC HEARING
2023 VILLAGE OF MUKWONAGO BUDGET**

On **Wednesday, November 16, 2022 at 6:30 p.m.**, a Public Hearing will be conducted before the Village Board in the Board Room of the Village Hall at 440 River Crest Court, Mukwonago. The purpose of this hearing is to receive citizen input on the 2023 Budget. Immediately following the public hearing the Village Board will meet for the purpose of approving the 2023 tax levy.

The schedule below summarizes the 2023 Budget as it is proposed, which indicate anticipated revenues and expenses as well as display the status of the different funds. A copy of the proposed budget is available for inspection at the Clerk-Treasurer's Office, 440 River Crest Court, during normal business hours, and on the Village website at www.villageofmukwonago.com.

Given under my hand and seal, this 28th day of October, 2022 in and for the Village of Mukwonago, Waukesha & Walworth Counties.

Diana A Dykstra, MMC
Village Clerk-Treasurer

			Estimated		Adopted	Proposed		
GENERAL FUND	Actual	Actual Thru	Balance for	Total	2022	2023	%	
Revenues	2021	6/30/2022	2022	2022	Budget	Budget	Change	
Taxes	2,939,882	2,531,578	474,811	3,006,389	3,006,389	3,208,321		
Other Taxes	441,310	201,056	239,573	440,629	436,463	440,234		
Intergovernmental Revenues	810,730	308,143	530,710	838,853	847,509	854,295		
Licenses & Permits	419,615	229,410	202,442	431,852	446,937	451,537		
Forfeitures and Penalties	159,347	94,223	68,042	162,265	173,000	173,000		
Public Charges for Services	38,245	15,667	11,435	27,102	30,488	30,488		
Leisure Activities	77,247	19,305	60,170	79,475	72,000	72,000		
Intergovernmental Charges	177,498	134,913	96,359	231,272	200,201	202,833		
Investments	11,446	17,036	50,744	67,780	11,300	68,000		
Other Revenues	26,905	11,656	16,743	28,399	25,750	28,500		
Other Financing Sources	-	-	-	-	63,944	300,229		
Total Revenues	5,102,225	3,562,987	1,751,029	5,314,016	5,313,981	5,829,437	9.70%	
Expenditures								
General Government	780,469	406,092	542,957	949,049	989,886	1,030,177		
Public Safety	2,664,756	1,283,920	1,487,831	2,771,751	2,836,317	2,982,054		
Health & Human Services	2,420	-	2,500	2,500	2,550	2,600		
Public Works	905,354	434,042	495,518	929,560	1,015,946	1,004,211		
Culture and Recreation	178,587	102,544	114,876	217,420	208,271	216,577		
Conservation & Development	175,360	83,647	94,852	178,499	206,006	250,339		
Storm Water	8,666	3,266	7,734	11,000	11,500	11,250		
Other Financing Uses	5,400	-	-	-	43,505	332,229		
Total Expenditures	4,721,012	2,313,511	2,746,268	5,059,779	5,313,981	5,829,437	9.70%	
Fund Balance, January 1	2,269,834			2,651,050		2,905,287		
Fund Balance, December 31	2,651,050			2,905,287		2,605,058		
	Total Estimated YE 2022		Total 2023	Use of	Total 2023	Fund Balance	Fund Balance	
Budget Summary by Fund	Revenues	Expenditures	Revenues	Fund Balance	Expenditures	Jan. 1, 2023	Dec. 31, 2023	
General Fund	5,314,016	5,059,779	5,529,208	300,229	5,829,437	2,905,287	2,605,058	
Fire/Ambulance Fund**	1,474,144	1,494,672	1,571,199	48,173	1,619,372	122,268	74,095	
Community Development	7,000	460,000	578,652	17,100	595,752	1,132,915	1,115,815	
Wisconsin Development	1,500	-	-	130,312	130,312	139,734	9,422	
TID #3	917,948	1,036,958	912,858	256,854	1,169,712	790,474	533,620	
TID #4	278,303	161,337	352,652	-	352,652	206,425	206,425	
TID #5	4,877,368	5,574,098	2,558,708	681,781	3,240,489	2,416,154	1,734,373	
Debt Service Fund	2,733,532	2,722,236	3,001,047	181,654	3,182,701	628,868	447,214	
Fire/Ambulance Designated Fund	1,435	140,000	700	-	700	166,037	166,037	
Village Designated Fund	143,920	14,566	125,000	-	125,000	677,717	677,717	
American Rescue Plan Act	2,979	-	3,000	-	3,000	3,137	3,137	
Recycling	590,422	597,393	623,337	-	623,338	121,095	121,094	
Capital Equipment	428,346	683,020	607,346	-	648,500	291,285	250,131	
Library Services	1,114,540	1,075,616	1,111,626	-	1,111,626	310,550	310,550	
Capital Improvements	150,510	1,327,628	1,751,618	15,000	1,766,618	2,324,474	2,309,474	
Storm Water Fund	33,462	18,607	33,035	-	34,909	34,909	33,035	
Impact Fee	118,140	150,000	133,000	117,000	250,000	349,497	232,497	
Parkland Site	19,964	36	2,125	-	2,125	238,054	238,054	
TOTALS	18,207,529	20,515,946	18,895,111	1,748,103	20,686,243	12,858,880	11,067,748	
					If Fire Department Referendum Passes			
	2022	2023	Percent		2022	2023	Percent	
Tax Levy Summary	Levied	Proposed	Change		Levied	Proposed	Change	
General Fund	3,006,389	3,208,321	6.72%		3,006,389	3,208,321	6.72%	
Fire/Ambulance Fund**	194,835	198,732	2.00% **		194,835	605,081	210.56%	**
Debt Service Fund	2,521,365	2,732,701	8.38%		2,521,365	2,732,701	8.38%	
Recycling	331,348	337,975	2.00%		331,348	337,975	2.00%	
Capital Equipment	94,146	-	-100.00%		94,146	-	-100.00%	
Library Services	474,105	518,315	9.32%		474,105	518,315	9.32%	
Total	6,622,188	6,996,044	5.65%		6,622,188	7,402,393	11.78%	
**If the proposed Fire Department Referendum passes on November 8th to exceed the levy limit by \$406,349 for additional staffing, the Fire Departments 2023 budget as proposed would increase by the referendum amount								
Estimated Indebtedness at December 31, 2022								
General Obligation Notes & Bonds	37,300,000							

MINUTES OF THE VILLAGE BOARD OF TRUSTEES MEETING Wednesday, October 19, 2022

Time: **6:30 pm**

Place: **Mukwonago Municipal Building/ Board Room, 440 River Crest Court,
Mukwonago, WI 53149**

Call to Order Call to Order

President Winchowky called the meeting to order at 6:30pm.

Roll Call

Board Members Present

Eric Brill
James Decker
Darlene Johnson
Ken Johnson
John Meiners
Scott Reeves
Fred Winchowky

Also Present

Fred Schnook, Village Administrator
Diana Dykstra, Village Clerk-Treasurer
Diana Doherty, Finance Director
Dan Streit, Police Chief
Jerad Wegner, Village Engineer
Nathan Bayer, Village Attorney
Ron Bittner, Public Works Director
Wayne Castle, Utilities Director
Tim Rutenbeck, Building Inspection Supervisor
Jeff Stien, Fire Chief

Pledge of Allegiance

Comments from the Public

Comments were submitted from Roger Walsh in regard to TID #6 proposal.

Comments were submitted from Joe Cincotta in regard to TID #6 proposal.

Chris Kramer, 510 Maple Ave., commented in regard to TID #6. He attended the Plan Commission meeting, and this property surrounds his property. This is a two-lane country road and a blind hill with heavy traffic. He has concerns with the funding.

Joe Jursenas, Briohn Builders, is present to discuss item #13 on the agenda. They have made a counter offer to the Village for 14 acres in the NE current Industrial Park. Their intention is to build a 120-130 sqr foot building and they want to find the right development that complements the rest of the area. They need a 12 month period to put this deal together and will continue to work as they have in the past on something great for the Village.

Paul Vanhelken, Project Manager for Teronomy Builders. He noted they have heard someone has circulated information that Teronomy was purchasing from another area property. He noted they have only worked with the Village and anticipate a long healthy relationship.

Micah Roberts, 1616 Honeywell Rd, commented in regard to TID #6. He felt it was a high amount of cost and include the sewer and water supplement cost on top. He further noted that it could continue Wolf Run. He felt the Village could not afford this.

Public Hearings

Public Hearing to consider a proposed amendment to the Zoning Code (Chapter 100) with regard to classification of two properties on the zoning map.

No one was present to comment.

President Winchowky noted Protective Services items needed to be brought forward due to a scheduling conflict with the Fire Chief.

Protective Services, Trustee Decker

Police Report for the month of September 2022 *(For Information Only, No Action Required)*

Joint Fire Department Monthly Reports *(For Information Only, No Action Required)*

Discussion and possible action on the ProHealth Care 2023 Contract

Chief Stien noted this is just informational at this point. They did have a meeting with the Finance and Administrators for fee schedule and will be meeting on November 15th to review with Pro Health Care contract. He will be there and Town Administrator will be there. In the past the Village Administrator was present, but he was not going to be part of this meeting. There was no action required yet.

Letter of Intent to purchase 2023 Chevrolet Tahoe SSV from Napleton Chevrolet Buick for the Fire Department.

Chief Stien currently on order a Tahoe, and there is a production lag, in the CIP there is a Tahoe to replace car #1. The request is to ask for a letter of intent no financial responsibility at this time. He noted that they currently have one on order through Lynch. They indicated they have no additional allocations available, so had to reach out to another vendor.

Decker/K Johnson motion to approve Letter of Intent to purchase 2023 Chevrolet Tahoe SSV from Napleton Chevrolet Buick for the Fire Department pending Town approval.

Unanimously carried.

Consent Agenda

All items listed are considered routine and/or have been unanimously recommended by the Committee of the Whole and will be enacted by one motion. There will be no separate discussion of these items unless a Board member so requests, in which event the item will be removed from the Consent agenda and be considered on the regular agenda.

6.1 Approval of Special Village Board and Regular Village Board Meeting Minutes of September 21, 2022, and Special Village Board minutes of October 5, 2022.

6.2 Approval of Accounts Payable Vouchers in the amount of \$718,090.77.

6.3 Approval of a Temporary Class "B"/"Class B" Retailer's License for St James Catholic Parish Fish Fry; 830 E Veterans Way; on the following dates: 11/4/22, 12/2/22, 1/6/23, 2/3/23, 3/3/23, 3/31/23, and 5/5/23.

6.4 Approval of the street lighting for Minors Estates Phase II.

Decker/Meiners motion to approve Consent Agenda Items 6.1 to 6.4. Unanimously carried.

Other Items for Approval

Other items removed from Consent Agenda which were not unanimously approved from the Committee of the Whole.

Discussion and possible action to approve Resolution 2022-63 a Resolution to establish the 2023 Fee Schedule.

Decker/Meiners motion to approve Resolution 2022-63 a Resolution to establish the 2023 Fee Schedule.

Roll Call "Yes" Trustee Brill, Decker, K.Johnson, Meiners, and Reeves. "No" Trustee D Johnson, and Winchowky. Motion carried 5-2.

Planning Commission Recommendations

Discussion and possible action to approve ORDINANCE 1009 for rezoning of parcel MUKV 1969-994 from R-1 to P-1 and parcel MUKV 196-992 from R-1 to M-1.

Brill/Decker motion to approve ORDINANCE 1009 for rezoning of parcel MUKV 1969-994 from R-1 to P-1 and parcel MUKV 196-992 from R-1 to M-1. Unanimously carried.

Discussion and possible action to approve RESOLUTION 2022-61 approving a three-lot certified survey for a property located at W309S9200 CTH I in the Town of Mukwonago, Larry Litwin, owner.

Decker/Brill motion to approve RESOLUTION 2022-61 approving a three-lot certified survey for a property located at W309S9200 CTH I in the Town of Mukwonago, Larry Litwin, owner. Unanimously carried.

Site Plan Reviews approved by the Plan Commission on October 12, 2022

(For Information Only)

- **PC-RESOLUTION 2022 -19** Canopy over the entrance of the American Legion Post 375, applicant; 627 E Veterans Way; Parcel MUKV 1964-991- 001
- **PC-RESOLUTION 2022- 20** Additional parking spaces for Downing Properties LLC, applicant; 507 Main St; Parcel MUKV 1976-164-002.

Finance Committee, Trustee Darlene Johnson

Discussion and possible action to approve amending the CIP for the purchase of two patrol trucks in 2023, remove the 2026 request, and authorize entering into a letter of intent for the purchase due to supply chain issues.

D.Johnson/Meiners motion to approve amending the CIP for the purchase of two patrol trucks in 2023, remove the 2026 request, and authorize entering into a letter of intent for the purchase due to supply chain issues. Unanimously carried.

Discussion and possible action to approve Accounts Payable Vouchers in the amount of \$274,072.77.

D Johnson/Meiners motion to approve Accounts Payable Vouchers in the amount of \$274,072.77. Unanimously carried.

Personnel Committee, Trustee Ken Johnson

Discussion and possible action on Resolution 2022-64 a Resolution for the Position of Community Planner/Zoning Administrator.

Trustee K. Johnson asked Administrator Schnook to review the changes. Administrator Schnook noted he is requesting changes in the job description which are minor. Including economic development is being the community and economic development department. He is changing the education licensure which currently requires a professional level engineering to reduce to bachelor's degree in planning or related field. K. Johnson/D.Johnson motion to approve on **Resolution 2022-64** a Resolution for the Position of Community Planner/Zoning Administrator. Unanimously carried.

Village President

Consideration and Approval of Resolution 2022-62 a Resolution formally establishing the boundaries and approving the project plan for Tax Incremental District Number 6, as recommended by the Plan Commission.

Decker/Meiners motion to approve **Resolution 2022-62** a Resolution formally establishing the boundaries and approving the project plan for Tax Incremental District Number 6, as recommended by the Plan Commission.

President Winchowky noted that a Developer is building road paid for by money generated by the project. It provides affordable housing over 100 units of senior housing and will take 6-8 years to complete. It is a long term development providing, sustainable growth to assist with growth of the village. It will be in our community for a long time. It was needed based on housing study.

Trustee Brill questioned the funding how it is paid back, he noted it is based off of 674 units. The Development Agreement is for Phase 1 and asked if we get a guarantee those units will be built. It was confirmed there is no guarantee at this time.

Administrator Schnook noted first this creation of TID 6, then negotiate with developer to get those into the DA prior to building one.

Trustee K. Johnson noted he has concerns as he attended plan commission and listened to committee members that they felt a TID wasn't expected for that location. He noted entering high level of inflation what happens if the developer decides not to go forward. Has confirmed there is no other route available to this development. He appreciates the response from the DNR that they will not be granting access for the other road.

Administrator Schnook noted the Development Agreement today is based on DeBack Drive, and they will be required to have a renegotiated amendment to the developer agreement.

Having the TID in place is required first.

Brill asked how was boundary decided.

Administrator noted he created trying to keep it minimal without splitting parcels. Brill asked if the boundary could include DeBack Drive? Administrator noted that it can't include costs already incurred.

Trustee D Johnson stated she did not expect TID, and is still against another TID. Can't vote for it.

Trustee Reeves felt if we voted no developer could come back to us and asked what could the suit against the village be?

Administrator Schnook commented that would depend on how much per acre, lost profits, etc. President Winchowky stated the Village would loose the value of that project \$85 million and projected tax revenue in the future along with affordable housing units.

Trustee Brill asked about the length of the road, the reason it stopped was cost and trying to save.

Trustee Decker noted this road was always in the plan, cheaper now than 5-10 years down the road.

Trustee Reeves asked if cutting off northern piece of land by not including in TID is odd? And asked if it should be included.

Roll Call: "Yes" Trustee Brill, Decker, Meiners, Reeves, Winchowky. "No" D Johnson, K Johnson Motion carried 5-2

Review and Update of the Proposed Operating and Capital Budgets for 2023.

Finance Director Doherty presented the preliminary spreadsheets prepared for the 2023 Annual budget. The Public Hearing will be November 16, 2022.

Set date for Joint Village and Town Board meeting to review Fire Department Budget.

It was requested a first option will be October 24, 2022 at 5:00pm. Second option is after the Committee of the Whole on November 2nd. Clerk Dykstra will reach out to the Town of Mukwonago.

Closed Session

Decker/Brill motion to go into closed session pursuant to Wis. Stats. § 19.85(1)(e) (Deliberating or negotiating the purchasing of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session) for negotiation with the Development Agreement for Gearbox Express, and the Counter Offer from Briohn Buildings for 14.35 Acres.

Roll Call: "Yes" Trustee Brill, Decker, D Johnson, K Johnson, Meiners, Reeves, Winchowky. Unanimously carried.

Reconvene into Open Session

D Johnson/Decker motion to reconvene into open session pursuant to Wis. Stats. §19.85(2) for Roll Call: "Yes" Trustee Brill, Decker, D Johnson, K Johnson, Meiners, Reeves, Winchowky. Unanimously carried.

Decker/Meiners motion to approve counter off from Briohn Building for the 14 Acre Parcel in TID 5. Unanimously carried.

Adjournment

Meeting adjourned at 8:17pm.

Respectfully Submitted,

Diana Dykstra, MMC
Village Clerk-Treasurer

MINUTES OF THE JOINT VILLAGE & TOWN BOARD MEETING

Monday, October 24, 2022

Time: **5:00 pm**

Place: **Mukwonago Municipal Building/Village Board Room, 440 River Crest Ct.,
Mukwonago, WI**

Called to Order

President Winchowky called the meeting to order at 5:07pm

Roll Call

Village Members Present

Eric Brill
Darlene Johnson
Ken Johnson
John Meiners
Fred Winchowky

Absent Excused: Trustee Decker and Reeves

Town Board Members Present

Lyle Boucher
Richard Wrasman

Absent: Topczewski, Yerke, Clabault

New Business

Discussion and possible action on the Joint Fire Department 2023 Annual Budget

Chief Stien noted he and Finance Director Doherty have been working on this. About 94-97 % of their budget is Medicare Medicaid reimbursements so the small increase of fees isn't enough.

Finance Director Doherty reviewed the revenues and expenditures. She noted the 2022 projected activity will be short about \$20,000 this year. Ebix revenues are not what were budgeted. Chief Stien noted this is directly related to transports. Only able to do about 500 transports a year and normally they can do 700.

Doherty noted the Ambulance and UTV will be sold so they may offset that figure, and Inter-facilities revenue might be less than anticipated. Pro health did give \$150,000 to make up for shortages in that revenue if they need to they can tap into that money to balance.

Next column, they did not plan any Ebix increases; contract negotiations will bring them back to where they are; and increase in expenditures are pretty much contractual and health insurance. The Budget is not balanced there is a shortage of about \$48,000, pro health contract may change this and the ProHealth fund balance can be used for this shortage.

Administrator Schnook commented to pay attention to the totals. The Fire Dept is coming in the red every year. They rely heavy on fee for services in an aging population.

They have had small increases and are still coming in the red each year and will not be able to do this. There needs to be a more formal action such as shift to more full time, but no guarantee.

Doherty noted she is able to enter the fund balance applied from the Fire Department account.

She noted this is an account that is called deferred unearned revenue. It is not necessarily a fund balance account. Once an expenditure comes in she can apply it toward that amount for a journal entry.

No further questions were asked.

Meiners/Brill motion to approve fire dept budget and move money 48173 from Prohealth reserve account Contingent upon the Town approving the budget as well.

Unanimously carried.

It was noted the Town did not have a quorum and will have to meet separately to approve the budget.

Adjourn

Meeting adjourned at 5:46pm

Respectfully Submitted,

Diana Dykstra, MMC
Village Clerk-Treasurer

Accounts Payable Cover Sheet

Report:	Period or corresponding report date		
Village Accounts Payable	10/26/2022	\$	138,201.03
Library Accounts Payable	10/14/2022	\$	17,949.46
Charter Communications/Spectrum (ach withdrawal)	10/25/2022	\$	1,801.56
US Bank (ach withdrawal)	10/24/2022	\$	13,349.82
We Energies (ach withdrawal)	10/20/2022	\$	42,788.39
Check Disbursement - Court	10/10/2022	\$	4,523.01
Check Disbursement - Warrant	10/3/2022	\$	212.00
Check Disbursement - Warrant	10/4/2022	\$	681.75
Check Disbursement - Lynch Check Reissue	10/4/2022	\$	1,398.37
Check Disbursement - Warrant	10/5/2022	\$	310.00
Check Disbursement - Invoice Cloud	10/10/2022	\$	334.05
Check Disbursement - Warrant	10/10/2022	\$	98.80
Check Disbursement - North Central Labs Check Reissue	10/11/2022	\$	140.13
Check Disbursement - Warrant	10/11/2022	\$	248.00
Check Disbursement - Warrant	10/18/2022	\$	360.00
Check Disbursement - Entrance Systems Check Reissue	10/20/2022	\$	310.00
Check Disbursement - WI Dept of Revenue Qtrly Tax	10/25/2022	\$	827.67
Check Disbursement - Payroll Related	10/12/2022	\$	9,014.59
Check Disbursement - Payroll Related	10/26/2022	\$	162,403.50
	Total for Approval:	\$	<u>394,952.13</u>

The preceding list of bills payable was approved for payment

Date: _____

Approved by: _____

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: AIRGAS USA LLC						
9130534620	AIRGAS EMS SUPPLIES	150-5231-531100	343.10	343.10	FIRE	11/03/2022
TOTAL VENDOR AIRGAS USA LLC				343.10		
VENDOR NAME: ALSCO						
IMIL1850646	PD OCTOBER 20 MAT CLEANING SERVICE	100-5211-539400	39.63	39.63	POLICE	11/03/2022
TOTAL VENDOR ALSCO				39.63		
VENDOR NAME: AM TOWING						
W33010	3462 BRAKE REPAIR	150-5222-539500	1,171.80	1,171.80	FIRE	11/03/2022
TOTAL VENDOR AM TOWING				1,171.80		
VENDOR NAME: AMAZON CAPITOL SERVICES						
14WAHY6K7WPX	OFFICE SUPPLIES	100-5142-531100	32.72	32.72	CLERK	11/03/2022
1NTVK9Q39CTW	MUSEUM BATTERY BACKUP	100-5512-582100	69.99	69.99	DPW	11/03/2022
1V7VNMDKNW7L	WATER BOOSTER STATION GENERATOR ROOM REP.	610-6200-662300	202.57	202.57	UTILITIES	11/03/2022
1TJCV6HXRWPP	GENERAL OFFICE SUPPLIES	100-5142-531100	25.49	151.11	ALLOCATE	11/03/2022
		100-5145-531100	25.50			
		100-5632-531100	25.49			
		100-5241-531100	25.49			
		100-5141-531100	49.14			
TOTAL VENDOR AMAZON CAPITOL SERVICES				456.39		
VENDOR NAME: BASSETT MECHANICAL						
6511067	WWTF HVAC REPAIR SCREENING ROOM	620-8010-834000	375.00	375.00	UTILITIES	11/03/2022
TOTAL VENDOR BASSETT MECHANICAL				375.00		
VENDOR NAME: BAYSIDE PRINTING LLC						
141328	3RD QTR 2022 UTILITY BILLING	100-5142-531200	8.22	730.16	ALLOCATE	11/03/2022
		100-5142-531200	8.20			
		100-5211-531200	8.20			
		150-5221-539900	8.20			
		440-5511-531200	8.20			
		410-5363-531200	8.20			
		610-6920-692300	24.61			
		620-8400-852000	24.61			
		150-5221-521900	24.61			
		150-5231-521900	24.61			
		410-5363-531200	58.25			
		610-6920-692300	262.12			
		620-8400-852000	262.13			
TOTAL VENDOR BAYSIDE PRINTING LLC				730.16		
VENDOR NAME: BLOOM COMPANIES LLC						
12893	HWY 83	250-5335-521900	18,295.73	18,295.73	FINANCE	11/03/2022
TOTAL VENDOR BLOOM COMPANIES LLC				18,295.73		
VENDOR NAME: BOUND TREE MEDICAL LLC						

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: BOUND TREE MEDICAL LLC						
84722305	EMS SUPPLIES	150-5231-531100	26.79	26.79	FIRE	11/03/2022
TOTAL VENDOR BOUND TREE MEDICAL LLC				26.79		
VENDOR NAME: BS&A						
144323	PERMIT APPLICATION FEE	100-5241-521900	544.00	544.00	BUILDING	11/03/2022
TOTAL VENDOR BS&A				544.00		
VENDOR NAME: C & M AUTO PARTS INC						
6079-358675	DPW SCANTOOL SUBSCRIPTION	100-5323-531100	797.99	797.99	DPW	11/03/2022
6079-358984	TRUCK #4 BATTERY	100-5324-539500	189.43	189.43	DPW	11/03/2022
6079-358999	JOHN DEERE 3484 REPAIR	150-5222-539500	35.55	35.55	FIRE	11/03/2022
6079-358620	TRUCK #4 HEADLIGHTS	100-5324-539500	35.38	35.38	DPW	11/03/2022
6079-358674	GASKET MAKER	100-5323-531100	22.69	22.69	DPW	11/03/2022
6079-358334	CAR 1 LOANER REPAIR	150-5222-539500	226.39	226.39	FIRE	11/03/2022
TOTAL VENDOR C & M AUTO PARTS INC				1,307.43		
VENDOR NAME: CENTURY SPRINGS BOTTLING						
5271068	WWTF LAB WATER	620-8010-826000	63.76	63.76	UTILITIES	11/03/2022
TOTAL VENDOR CENTURY SPRINGS BOTTLING				63.76		
VENDOR NAME: CINTAS						
4134408284	STAFF UNIFORMS & SHOP SUPPLIES	100-5323-531100	111.48	111.48	DPW	11/03/2022
4134408144	WATER/WWTF UNIFORM SERVICE	610-6920-693000	90.00	179.82	UTILITIES	11/03/2022
		620-8010-827000	89.82			
4135097740	WATER/WWTF UNIFORM SERVICE	610-6920-693000	89.82	179.82	UTILITIES	11/03/2022
		620-8010-827000	90.00			
4135097699	STAFF UNIFORMS & SHOP SUPPLIES	100-5323-531100	111.48	111.48	DPW	11/03/2022
TOTAL VENDOR CINTAS				582.60		
VENDOR NAME: CORE & MAIN LP						
R621261	WATER SERVICE REPAIR PARTS	610-6452-665200	336.98	336.98	UTILITIES	11/03/2022
R700636	WATER SERVICE REPAIR PARTS	610-6452-665200	410.00	410.00	UTILITIES	11/03/2022
R535953	WATER SERVICE PARTS AND HYDRANT CREDIT	610-6452-665200	(588.00)	(654.00)	UTILITIES	11/03/2022
		610-6454-665400	(66.00)			
TOTAL VENDOR CORE & MAIN LP				92.98		
VENDOR NAME: CRIVELLO CARLSON S.C.						
5331-178852	LEGAL SERVICES THRU 9/30	100-5130-521900	1,807.50	3,847.50	FINANCE	11/03/2022
		150-5221-521900	160.00			
		250-5130-521900	340.00			
		100-5670-521900	720.00			
		610-6920-692300	820.00			
5331-178853	SPECTRUM ISSUE	100-5130-521900	558.35	558.35	FINANCE	11/03/2022
5331-178854	MISC CLERK ITEMS	100-5130-521900	1,380.00	1,380.00	FINANCE	11/03/2022

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VENDOR NAME: CRIVELLO CARLSON S.C.					
TOTAL VENDOR CRIVELLO CARLSON S.C.			5,785.85		
VENDOR NAME: DAVINDER TOOR					
102422	BOND TERMINATION	100-0000-211425 3,713.16	3,713.16	FINANCE	11/03/2022
TOTAL VENDOR DAVINDER TOOR			3,713.16		
VENDOR NAME: DE LAGE LANDEN FINANCIAL					
77765967-POLICE	COPIER LEASE OCTOBER INVOICE	100-5211-521900 108.00	108.00	POLICE	11/03/2022
77765967	LEASE 10/15/2022 - 11/14/22 KONICA 450I	100-5142-531200 15.04	160.00	ALLOCATE	10/03/2022
		100-5300-539900 15.54			
		100-5120-531100 10.77			
		100-5141-531100 1.65			
		100-5145-531100 17.48			
		100-5241-531200 3.25			
		100-5632-531200 4.83			
		100-5211-521900 25.74			
		150-5221-531100 11.70			
		410-5363-531200 1.60			
		440-5511-531200 21.95			
		500-5344-531200 1.60			
		610-6902-690300 14.59			
		620-8300-840000 14.26			
TOTAL VENDOR DE LAGE LANDEN FINANCIAL			268.00		
VENDOR NAME: DUSTIN RIECHERT					
2022 BOOT ALLOWANCE	2022 BOOT ALLOWANCE - RIECHERT	100-5323-534800 100.00	100.00	DPW	11/03/2022
TOTAL VENDOR DUSTIN RIECHERT			100.00		
VENDOR NAME: EMERGENCY MEDICAL PRODUCTS					
2486734	EMS SUPPLIES	150-5231-531100 4.97	4.97	FIRE	11/03/2022
2486733	EMS SUPPLIES	150-5231-531100 39.76	39.76	FIRE	11/03/2022
TOTAL VENDOR EMERGENCY MEDICAL PRODUCTS			44.73		
VENDOR NAME: ENERGENECS, INC.					
0044731-IN	AERATION BASIN PROJECT - EQUIPMENT	620-0000-000105 5,618.00	5,618.00	UTILITIES	11/03/2022
TOTAL VENDOR ENERGENECS, INC.			5,618.00		
VENDOR NAME: EVOQUA WATER TECHNOLOGIES					
905575468	WWTF PRIMARY WEAR SLIDES HOLD DOWN WASHE	620-8010-833000 43.88	43.88	UTILITIES	11/03/2022
TOTAL VENDOR EVOQUA WATER TECHNOLOGIES			43.88		
VENDOR NAME: EXCEL BUILDING SERVICES LLC					
3911	OCTOBER PD CLEANING SERVICE	100-5211-539400 975.00	975.00	POLICE	11/03/2022
TOTAL VENDOR EXCEL BUILDING SERVICES LLC			975.00		
VENDOR NAME: FASTENAL COMPANY					
WIMUK94616	WATER/WWTF SAFETY SHIELDS FOR SERVICE TR	610-6310-663500 251.75	503.46	UTILITIES	11/03/2022
		620-8010-827000 251.71			

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: FASTENAL COMPANY						
TOTAL VENDOR FASTENAL COMPANY				503.46		
VENDOR NAME: GALLS LLC 022149777	2022 UNIFORM ALLOWANCE - ZAJICHEK	100-5212-534600	60.00	60.00	POLICE	11/03/2022
TOTAL VENDOR GALLS LLC				60.00		
VENDOR NAME: GENERAL FIRE EQUIPMENT CO 148151	3484 EMERGENCY LIGHTING	430-5700-571300	313.35	313.35	FIRE	11/03/2022
TOTAL VENDOR GENERAL FIRE EQUIPMENT CO				313.35		
VENDOR NAME: HIPPENMEYER, REILLY, BLUM, 53509	2022 GREENWALD/DEBACK LITIGATION	100-5130-521900	380.00	380.00	FINANCE	11/03/2022
35308	PROSECUTIONS	100-5130-521900	885.00	885.00	FINANCE	11/03/2022
TOTAL VENDOR HIPPENMEYER, REILLY, BLUM,				1,265.00		
VENDOR NAME: HOME DEPOT SEPT 2022	PARK AND CURB/GUTTER SUPPLIES	100-5521-531100	150.40	379.56	DPW	11/03/2022
		100-5343-539500	229.16			
TOTAL VENDOR HOME DEPOT				379.56		
VENDOR NAME: JEFFERSON FIRE & SAFETY IN145244	BUNKER BOOTS	150-5222-531100	202.46	202.46	FIRE	11/03/2022
TOTAL VENDOR JEFFERSON FIRE & SAFETY				202.46		
VENDOR NAME: JUDITH CLEGG MFD 14793	EBIX PATIENT REFUND MFD 14793	150-0000-130450	750.00	750.00	FINANCE	11/03/2022
TOTAL VENDOR JUDITH CLEGG				750.00		
VENDOR NAME: MACQUEEN EQUIPMENT P07322	MACQUEEN 2022 SCBA FLOW TEST	150-5222-539500	2,135.00	2,135.00	FIRE	11/03/2022
TOTAL VENDOR MACQUEEN EQUIPMENT				2,135.00		
VENDOR NAME: MARCO TECHNOLOGIES 32542180	WATER COPIER EXPENSE	610-6920-692100	182.87	182.87	UTILITIES	11/03/2022
TOTAL VENDOR MARCO TECHNOLOGIES				182.87		
VENDOR NAME: MARKUS AVILES 2022 CLOTHING ALLOW	2022 CLOTHING ALLOWANCE - AVILES	150-5222-534600	50.00	50.00	FIRE	11/03/2022
TOTAL VENDOR MARKUS AVILES				50.00		
VENDOR NAME: MESSAGEUS 222730134	WATER PHONE SERVICE	610-6920-692100	6.95	6.95	UTILITIES	11/03/2022
TOTAL VENDOR MESSAGEUS				6.95		
VENDOR NAME: MILLER KEN 2022 BOOT ALLOW	2022 BOOT ALLOWANCE - MILLER	620-8010-827000	81.01	81.01	UTILITIES	11/03/2022
TOTAL VENDOR MILLER KEN				81.01		

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: MINUTEMAN PRESS OF BURLINGTON						
50742	BUSINESS CARDS	100-5142-531100	49.80	49.80	CLERK	11/03/2022
TOTAL VENDOR MINUTEMAN PRESS OF BURLINGTON				49.80		
VENDOR NAME: MSA PROFESSIONAL SERVICES, INC.						
R08352005.0-7	CORP PAYMENT	480-5140-521900	650.00	650.00	DPW	11/03/2022
TOTAL VENDOR MSA PROFESSIONAL SERVICES, INC.				650.00		
VENDOR NAME: MUKWONAGO AREA CHAMBER OF COMM						
101922	945 GREENWALD COURT INC./SEPT ROOM TAX	100-0000-244000	3,924.98	3,924.98	CLERK	11/03/2022
TOTAL VENDOR MUKWONAGO AREA CHAMBER OF COMM				3,924.98		
VENDOR NAME: NAPA AUTO PARTS - SP018						
176265	IMPACT SOCKETS	100-5323-531100	44.95	44.95	DPW	11/03/2022
TOTAL VENDOR NAPA AUTO PARTS - SP018				44.95		
VENDOR NAME: NELSON SYSTEMS, INC						
P102162	RADIO AND PHONE LINE RECORDER	100-5211-522900	3,063.83	3,063.83	POLICE	11/03/2022
TOTAL VENDOR NELSON SYSTEMS, INC				3,063.83		
VENDOR NAME: NORTHERN LAKE SERVICE INC						
427372	WATER PFAS TESTING	610-6300-663200	735.00	735.00	UTILITIES	11/03/2022
427080	WATER BAC-T TESTING	610-6300-663200	184.00	184.00	UTILITIES	11/03/2022
TOTAL VENDOR NORTHERN LAKE SERVICE INC				919.00		
VENDOR NAME: PROHEALTH MEDICAL GROUP						
315311	PHC MIHLBAUER CHEST X-RAY INVOICE	150-5221-521900	97.00	97.00	FIRE	11/03/2022
TOTAL VENDOR PROHEALTH MEDICAL GROUP				97.00		
VENDOR NAME: PROVEN POWER INC						
02-412691	3484 JDC SWITCH	150-5222-539500	93.03	93.03	FIRE	11/03/2022
TOTAL VENDOR PROVEN POWER INC				93.03		
VENDOR NAME: QUILL LLC						
28342386	OFFICE SUPPLIES	100-5241-531100	2.38	139.77	ALLOCATE	11/03/2022
		100-5142-531100	11.05			
		100-5145-531100	12.82			
		100-5141-531100	1.21			
		100-5632-531100	3.54			
		100-5323-531100	11.40			
		100-5120-531100	7.90			
		100-5211-531100	18.89			
		150-5221-531100	8.58			
		410-5363-531100	1.17			
		440-5511-531100	16.10			
		500-5344-531100	1.17			
		610-6920-692100	10.71			
		620-8300-840000	10.46			
		100-5141-531100	22.39			
28196077	OFFICE SUPPLIES	100-5211-531100	366.85	366.85	POLICE	11/03/2022

INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: QUILL LLC					
TOTAL VENDOR QUILL LLC			506.62		
VENDOR NAME: REINDERS, INC.					
6019697-00	TORO 5910 REPAIRS	100-5324-539500	1,815.56	DPW	11/03/2022
6022105-00	TORO 5910 WIDOW	100-5324-539500	1,089.46	DPW	11/03/2022
TOTAL VENDOR REINDERS, INC.			2,905.02		
VENDOR NAME: ROSEMARY REESE					
MFD 14727	EBIX PATIENT REFUND MFD 14727	150-0000-130450	192.97	FINANCE	11/03/2022
TOTAL VENDOR ROSEMARY REESE			192.97		
VENDOR NAME: RUEKERT & MIELKE, INC.					
143521	12-00000.100 General Services	100-5254-521900	258.00	5,937.75	FINANCE 11/03/2022
		100-5335-521900	3,335.00		
		100-5521-531100	272.25		
		100-5660-521900	246.00		
		250-5335-521900	1,621.50		
		500-5344-521900	205.00		
143524	12-10087.300 Holz Parkway & Miniwaukan P480-5700-584800		4,951.77	4,951.77	FINANCE 11/03/2022
143525	12-10096.300 Deback Drive Infrastructure200-5335-521900		1,460.00	1,460.00	FINANCE 11/03/2022
143526	12-10098.122 WWTF Phosphorus Assistance 620-8400-852100		1,933.25	1,933.25	FINANCE 11/03/2022
143527	12-10115.300 2019 Well & Well Pump Impro610-6920-692300		164.00	164.00	FINANCE 11/03/2022
143529	12-10131.221 Atkinson Pump Station Capac620-0000-000104		2,379.45	2,379.45	FINANCE 11/03/2022
143533	12-10141.300 Indianhead Park Outdoor Per480-5700-584900		792.50	792.50	FINANCE 11/03/2022
143538	12-10151.310 WWTF Aeration Upgrade / Con620-0000-000105		1,118.75	1,118.75	FINANCE 11/03/2022
143539	12-10152.100 Local Limits & Industrial P620-8400-852000		2,000.00	2,000.00	FINANCE 11/03/2022
143541	12-10163.100 Banker Wire Expansion / Rev100-0000-211400		85.50	85.50	FINANCE 11/03/2022
143542	12-10166.300 Milwaukee Tool Temporary Lo100-0000-211400		121.98	121.98	FINANCE 11/03/2022
143543	12-10169.100 Wells 3 and 4 Radium Remova610-6920-692300		1,717.00	1,717.00	FINANCE 11/03/2022
143544	12-10169.101 Wells 3 and 4 Radium Remova610-6920-692300		505.00	505.00	FINANCE 11/03/2022
143548	12-10176.170 Minor Park Pedestrian Culve480-5700-584900		12,798.00	12,798.00	FINANCE 11/03/2022
143551	12-92041.700 2022 SCADA Service Work 610-6920-692300		720.00	6,612.38	FINANCE 11/03/2022
		620-8400-852000	5,892.38		
143522	12-10044.300 BOX SELF STORAGE / CONSTRUC100-0000-211425		82.00	82.00	FINANCE 11/03/2022
143523	12-10069.104 CHAPMAN FARMS PORTION OF VI100-0000-211425		249.50	249.50	FINANCE 11/03/2022
143528	12-10127.100 210 MCDIVITT LANE EXPANSION100-0000-211425		535.48	535.48	FINANCE 11/03/2022
143530	12-10134.100 200 GRAND AVENUE CONDOS / R100-0000-211425		155.82	155.82	FINANCE 11/03/2022
143531	12-10137.300 HILL COURT MULTI-TENANT DEV100-0000-211425		656.00	656.00	FINANCE 11/03/2022
143532	12-10139.310 MEADOWLAND TOWNHOMES DEVELO100-0000-211425		508.57	508.57	FINANCE 11/03/2022
143534	12-10147.300 MINOR ESTATES PHASE 4 / CON100-0000-211425		3,799.12	3,799.12	FINANCE 11/03/2022
143535	12-10148.300 GOODWILL OF MUKWONAGO / CON100-0000-211425		178.98	178.98	FINANCE 11/03/2022
143536	12-10149.300 EDGEWOOD CONDOS / EROSION C100-0000-211425		121.98	121.98	FINANCE 11/03/2022
143537	12-10149.310 EDGEWOOD CONDOS / EROSION C100-0000-211425		121.98	121.98	FINANCE 11/03/2022
143540	12-10162.300 FLUERY'S EXPANSION / EROSION100-0000-211425		148.49	148.49	FINANCE 11/03/2022
143545	12-10170.300 600 PERKINS DRIVE IDC / ERO100-0000-211425		1,166.48	1,166.48	FINANCE 11/03/2022
143547	12-10174.300 LYNCH BUILDING ADDITION 100-0000-211425		85.50	85.50	FINANCE 11/03/2022
143549	12-10178.100 HILL COURT RELOAD SOUTH MUL100-0000-211425		1,517.00	1,517.00	FINANCE 11/03/2022
143550	12-10180.300 CAMPBELL CONSTRUCTION ADDIT100-0000-211425		205.49	205.49	FINANCE 11/03/2022
143552	12-92097.306 FAIRWINDS PHASE 5 CONSTRUCT100-0000-211425		2,023.04	2,023.04	FINANCE 11/03/2022
143553	12-92136.302 CHAPMAN FARM / CHAPMAN VILL100-0000-211425		155.82	155.82	FINANCE 11/03/2022
143554	12-92136.303 CHAPMAN FARM / CHAPMAN RESI100-0000-211425		2,562.82	2,562.82	FINANCE 11/03/2022

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
EXP CHECK RUN DATES 11/03/2022 - 11/03/2022
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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: RUEKERT & MIELKE, INC.					
143555	12-92191.103 PRO HEALTH EXPANSION / 2018	100-0000-211425 85.50	85.50	FINANCE	11/03/2022
TOTAL VENDOR RUEKERT & MIELKE, INC.			56,936.90		
VENDOR NAME: SAN-A-CARE					
580826-1	PARKS GERMICIDAL DETERGENT	100-5521-531100 25.10	25.10	DPW	11/03/2022
TOTAL VENDOR SAN-A-CARE			25.10		
VENDOR NAME: SERWE IMPLEMENT MUNICIPAL SALES					
9541	JETTER CONTROL REPAIRS	100-5324-539500 751.17	751.17	DPW	11/03/2022
TOTAL VENDOR SERWE IMPLEMENT MUNICIPAL SALES			751.17		
VENDOR NAME: SHRED-IT USA					
8002370526	2022 SEPTEMBER VH SHREDDING SERVICES	100-5141-531100 45.33	90.67	ALLOCATE	11/03/2022
		100-5142-531100 22.67			
		100-5632-531100 22.67			
TOTAL VENDOR SHRED-IT USA			90.67		
VENDOR NAME: SIREN SERVICES					
1389	3471 ANNUAL PUMP TEST AND SERVICE	150-5222-539500 667.83	667.83	FIRE	11/03/2022
1379	3462 ANNUAL PUMP TEST AND SERVICE	150-5222-539500 672.78	672.78	FIRE	11/03/2022
1378	3463 ANNUAL PUMP TEST AND SERVICE	150-5222-539500 2,127.84	2,127.84	FIRE	11/03/2022
TOTAL VENDOR SIREN SERVICES			3,468.45		
VENDOR NAME: SJE					
CD99453372	WWTF 6" BACKUP PUMP REPAIR	620-8020-832000 1,891.87	1,891.87	UTILITIES	11/03/2022
TOTAL VENDOR SJE			1,891.87		
VENDOR NAME: SWENSON, TERRENCE					
REFUND102022	UB REFUND #4819 - 114 CERNAN CT	610-0000-142000 126.46	126.46	ALLOCATE	11/03/2022
TOTAL VENDOR SWENSON, TERRENCE			126.46		
VENDOR NAME: TECHNIMOUNT SYSTEM LLC					
INV-000783	TECHNIMOUNT SYSTEM ACT102 ARPA FUNDS	150-5700-580500 950.00	950.00	FIRE	11/03/2022
TOTAL VENDOR TECHNIMOUNT SYSTEM LLC			950.00		
VENDOR NAME: THE MASTERS TOUCH, LLC					
2022 TAX EST	WAUKESHA CO TAX BILL POSTAGE ADVANCE	100-5142-531500 1,581.30	1,581.30	CLERK	11/03/2022
TOTAL VENDOR THE MASTERS TOUCH, LLC			1,581.30		
VENDOR NAME: TIMOTHY HORN					
MFD 14782	EBIX PATIENT REFUND MFD 14782	150-0000-130450 790.00	790.00	FINANCE	11/03/2022
TOTAL VENDOR TIMOTHY HORN			790.00		
VENDOR NAME: TIPTON TRACY					
2022 UNIFORM ALLOW	2022 UNIFORM ALLOWANCE - TIPTON T	100-5211-534600 179.91	179.91	POLICE	11/03/2022
TOTAL VENDOR TIPTON TRACY			179.91		
VENDOR NAME: TRANSCENDENT TECHNOLOGIES					

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: TRANSCENDENT TECHNOLOGIES						
M6190	WALWORTH CO TAX PROGRAM ANNUAL MAINT	100-5142-522900	391.00	391.00	CLERK	11/03/2022
TOTAL VENDOR TRANSCENDENT TECHNOLOGIES				391.00		
VENDOR NAME: USA BLUEBOOK						
146452	WATER LAB TESTING SUPPLIES	610-6300-663200	247.33	247.33	UTILITIES	11/03/2022
146609	WWTF LAB SUPPLIES	620-8010-826000	380.06	380.06	UTILITIES	11/03/2022
TOTAL VENDOR USA BLUEBOOK				627.39		
VENDOR NAME: VELOCITY LLC						
2022065	OFFICE 365 LICENSING	100-5111-522900	28.00	762.00	ALLOCATE	11/03/2022
		100-5120-522900	16.50			
		100-5141-522900	12.50			
		100-5142-522900	37.50			
		100-5211-522900	157.50			
		100-5241-522900	37.50			
		100-5300-522900	57.50			
		100-5512-522900	12.50			
		100-5632-522900	12.50			
		150-5221-522900	277.50			
		610-6920-692100	37.50			
		620-8400-851000	37.50			
		100-5145-522900	37.50			
TOTAL VENDOR VELOCITY LLC				762.00		
VENDOR NAME: VERIZON WIRELESS						
9917320554	VERIZON BILL- MONITORS	150-5221-522500	50.10	50.10	FIRE	11/03/2022
9918095164	VERIZON FINAL BILL FROM SWITCH	150-5221-522500	178.42	178.42	FIRE	11/03/2022
TOTAL VENDOR VERIZON WIRELESS				228.52		
VENDOR NAME: VILLAGE OF MUKWONAGO						
10/19/22	2022 SCOOTERS PLAN REVIEW	100-0000-211425	61.44	61.44	FINANCE	11/03/2022
TOTAL VENDOR VILLAGE OF MUKWONAGO				61.44		
VENDOR NAME: WALWORTH CTY SECURITY ALARMS LLC						
16287	MUSEUM FIRE AND SECURITY ALARM REPAIRS	100-5512-582100	1,195.00	1,195.00	DPW	11/03/2022
TOTAL VENDOR WALWORTH CTY SECURITY ALARMS LLC				1,195.00		
VENDOR NAME: WATERWAY OF MICHIGAN, LLC						
22-041	ANNUAL HOSE TESTING	150-5222-539500	6,945.00	6,945.00	FIRE	11/03/2022
TOTAL VENDOR WATERWAY OF MICHIGAN, LLC				6,945.00		
VENDOR NAME: WI DEPT OF JUSTICE-TIME						
45TIME-000013149	DOJ TIME SYSTEM AND BADGERNET 4TH QUARTE	100-5211-522900	2,244.00	2,244.00	POLICE	11/03/2022
TOTAL VENDOR WI DEPT OF JUSTICE-TIME				2,244.00		
GRAND TOTAL:				138,201.03		

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35172 - 35196

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Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
Fund: 440 LIBRARY FUND								
10/14/2022	GEN	35172	IMIL1846466	ALSCO	OUTSIDE SERVICES	531000	5511	29.16
10/14/2022	GEN	35173#	1F3K-1P1T-HP4Y	AMAZON CAPITOL SERVICES	SUPPLIES	531100	5511	307.41
			11PJ-WFCG-X96V		META SPACE EQUIPMENT & SUPPLIE	531400	5511	37.20
			13NV-W7LJ-QY6N		PROGRAMMING	533100	5511	25.98
			1F3K-1P1T-NWQ1		PROGRAMMING	533100	5511	396.16
			19JX-TDQY-NLCD		PROGRAMMING	533100	5511	29.98
			11PJ-WFCG-LF1Q		PROGRAMMING	533100	5511	44.97
			11PJ-WFCG-PRDJ		AV MATERIAL	532900	5700	1,188.58
CHECK GEN 35173 TOTAL FOR FUN								2,030.28
10/14/2022	GEN	35174	2036972807	BAKER & TAYLOR INC.	BOOKS	532800	5700	305.68
			2037002640		BOOKS	532800	5700	1,020.94
			2037027883		BOOKS	532800	5700	199.54
			2037032086		BOOKS	532800	5700	428.46
			2037032087		BOOKS	532800	5700	92.31
			2037035684		BOOKS	532800	5700	32.80
			2037035685		BOOKS	532800	5700	647.14
			2037050953		BOOKS	532800	5700	41.97
			2037050954		BOOKS	532800	5700	200.71
CHECK GEN 35174 TOTAL FOR FUN								2,969.55
10/14/2022	GEN	35175	1972	BERNSTEIN & ASSOCIATES	DONATED FUND EXPENDITURES	580600	5890	1,560.00
10/14/2022	GEN	35176	B6488722	BRODART	BOOKS	532800	5700	862.20
			B6488744		BOOKS	532800	5700	405.06
			B6492189		BOOKS	532800	5700	341.65
			B6492266		BOOKS	532800	5700	147.14
			B6493462		BOOKS	532800	5700	218.45
			B6494422		BOOKS	532800	5700	96.08
			B6497151		BOOKS	532800	5700	377.57
CHECK GEN 35176 TOTAL FOR FUN								2,448.15
10/14/2022	GEN	35177	78989906	CENGAGE LEARNING	BOOKS	532800	5700	59.18
			79028106		BOOKS	532800	5700	31.19
			79053263		BOOKS	532800	5700	24.79
			79116675		BOOKS	532800	5700	20.79
			79274796		BOOKS	532800	5700	77.57
CHECK GEN 35177 TOTAL FOR FUN								213.5

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Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
Fund: 440 LIBRARY FUND								
10/14/2022	GEN	35178	1956301	CENTER POINT LARGE PRINT	BOOKS	532800	5700	57.34
			1963904		BOOKS	532800	5700	136.35
				CHECK GEN 35178 TOTAL FOR FUN				193.69
10/14/2022	GEN	35179	20347	DYNAMIC AWARDS	SUPPLIES	531100	5511	16.00
10/14/2022	GEN	35180	OCTOBER	EMILY CEITHAMER	MILEAGE	533200	5511	85.38
			102022		TRAINING & TRAVEL	533500	5511	61.33
				CHECK GEN 35180 TOTAL FOR FUN				146.71
10/14/2022	GEN	35181	2194-9075	FAST SIGNS	PROGRAMMING	533100	5511	133.38
10/14/2022	GEN	35182	32503359	GREAT AMERICAN FINANCIAL SVCS	OUTSIDE SERVICES	531000	5511	353.14
10/14/2022	GEN	35183	930025657	ILLINGWORTH KILGUST	CONTRACTUAL SERVICES	522000	5511	2,263.00
10/14/2022	GEN	35184	2698736	IMPACT ACQUISITIONS, LLC	OUTSIDE SERVICES	531000	5511	623.30
10/14/2022	GEN	35185	11122022	KENOSHA PUBLIC MUSEUM	PROGRAMMING	533100	5511	200.00
10/14/2022	GEN	35186	620	KLASSY KLEANERS	OUTSIDE SERVICES	531000	5511	1,080.00
10/14/2022	GEN	35187	015471	MICHAEL FREDERICK	BOOKS	532800	5700	60.00
10/14/2022	GEN	35188	502756840	MIDWEST TAPE	DIGITAL MATERIALS	534000	5511	522.80
10/14/2022	GEN	35189	1192022	MILWAUKEE BALLETT COMPANY,	INPROGRAMMING	533100	5511	175.00
10/14/2022	GEN	35190	27868307	QUILL LLC	SUPPLIES	531100	5511	94.25
			28016407		SUPPLIES	531100	5511	255.53
			28016879		SUPPLIES	531100	5511	204.98
			28013226		SUPPLIES	531100	5511	126.32
				CHECK GEN 35190 TOTAL FOR FUN				681.08
10/14/2022	GEN	35191	5065625596	RICOH USA, INC	OUTSIDE SERVICES	531000	5511	99.99
10/14/2022	GEN	35192	110955	ROMAN ELECTRIC CO., INC.	REPAIRS & MAINTENANCE	539500	5511	323.70
10/14/2022	GEN	35193	154744109	ULINE	DONATED FUND EXPENDITURES	580600	5890	902.16
10/14/2022	GEN	35194	6105930	UNIQUE MANAGEMENT	OUTSIDE SERVICES	531000	5511	9.85
10/14/2022	GEN	35195	16241	WALWORTH CTY SECURITY ALARMS	CONTRACTUAL SERVICES	522000	5511	540.00
10/14/2022	GEN	35196	15607	WI LIBRARY ASSOCIATION	TRAINING & TRAVEL	533500	5511	375.00

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
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Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
Fund: 440 LIBRARY FUND								
					Total for fund 440 LIBRARY FUND			17,949.46
TOTAL - ALL FUNDS								17,949.46

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
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Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/25/2022	GEN	545 (E)	CHARTER COMMUNICATIONS	SEPTEMBER - OCTOBER 2022 MONTHLY BILL	100-5120-522500	37.82
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5141-522500	16.00
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5142-522500	144.35
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5145-522900	70.55
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5160-522500	29.45
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5211-522500	460.57
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5241-522500	41.09
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5323-522500	74.19
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5512-522500	177.96
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	150-5221-522500	369.50
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	410-5363-522500	4.58
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	440-5511-522500	295.31
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	500-5344-522500	2.29
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	610-6920-692100	38.95
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	620-8400-851000	38.95
						1,801.56
TOTAL - ALL FUNDS				TOTAL OF 1 CHECKS		1,801.56

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INVOICE REGISTER REPORT FOR MUKWONAGO
 EXP CHECK RUN DATES 10/25/2022 - 10/25/2022
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 CREDIT CARD TRANSACTIONS FOR BOARD
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
ARMOUR ABBY							
55909	WAL-MART #1571	09/20/2022	10/25/2022	14.70	0.00	Paid	Y
	BINGO PRIZES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		14.70			
ARMOUR ABBY							
55910	DOLLAR GENERAL #10855	09/20/2022	10/25/2022	29.35	0.00	Paid	Y
	BINGO PRIZES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		29.35			
ARMOUR ABBY							
55911	FORMSTACK, LLC	09/25/2022	10/25/2022	99.00	0.00	Paid	Y
	TEAMS MONTHLY CHARGE9/24/22-10/23/22	MROCKLEY					10/25/2022
	440-5511-534000	DIGITAL MATERIALS		99.00			
ARMOUR ABBY							
55912	WISCONSIN LIBRARY ASSOCIA	09/26/2022	10/25/2022	390.00	0.00	Paid	Y
	WLA CONFERENCE	MROCKLEY					10/25/2022
	440-5511-533500	TRAINING & TRAVEL		390.00			
ARMOUR ABBY							
55913	DROPBOX*7YC25L79LCG6	09/29/2022	10/25/2022	11.99	0.00	Paid	Y
	9/29/22-10/29/22/ NAGPRA	MROCKLEY					10/25/2022
	440-5890-580600	DONATED FUND EXPENDITURES		11.99			
ARMOUR ABBY							
55914	MENARDS WAUKESHA WI	10/06/2022	10/25/2022	177.82	0.00	Paid	Y
	JACK-O-LANTERN JAUNT DISPLAY	MROCKLEY					10/25/2022
	440-5890-580600	DONATED FUND EXPENDITURES		177.82			
BITTNER RONALD							
55915	SWEETWATER SOUND	09/24/2022	10/25/2022	246.80	0.00	Paid	Y
	PERFORMANCE STAGE WIRING	MROCKLEY					10/25/2022
	480-5700-584900	PARK IMPROVEMENT PROJECTS		246.80			
BITTNER RONALD							
55916	BARCO PRODUCTS COMPANY	09/27/2022	10/25/2022	2,626.55	0.00	Paid	Y
	PARK BENCHES	MROCKLEY					10/25/2022
	100-5521-531100	SUPPLIES		1,751.04			
	340-5890-580601	DPW-DONATED FUNDS EXPENDITURE		875.51			

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INVOICE REGISTER REPORT FOR MUKWONAGO
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 CREDIT CARD TRANSACTIONS FOR BOARD
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
BITTNER RONALD							
55917	WM SUPERCENTER #1571	09/27/2022	10/25/2022	108.78	0.00	Paid	Y
	PRINTER INK	MROCKLEY					10/25/2022
	100-5323-531100	SUPPLIES		108.78			
BITTNER RONALD							
55918	UWCC REGISTRATIONS	10/13/2022	10/25/2022	269.00	0.00	Paid	Y
	VAN AAKEN AWPW CLASSSES	MROCKLEY					10/25/2022
	100-5323-533500	TRAINING & TRAVEL		269.00			
BITTNER RONALD							
55919	UWCC REGISTRATIONS	10/13/2022	10/25/2022	150.00	0.00	Paid	Y
	VAN AACKEN AWPW TRAINING	MROCKLEY					10/25/2022
	100-5323-533500	TRAINING & TRAVEL		150.00			
BONK JASON							
55920	USPS PO 5657100149	10/05/2022	10/25/2022	4.80	0.00	Paid	Y
	WATER MONTHLY FLOURIDE SAMPLE	MROCKLEY					10/25/2022
	610-6300-663200	OPERATION SUPPLY/EXP-TREATMENT		4.80			
BROWN DAVID							
55921	TST* ANDUZZI'S SPORTS CLU	10/05/2022	10/25/2022	17.13	0.00	Paid	Y
	WWTF WWOA SUPPER CORRECTION	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		17.13			
BROWN DAVID							
55922	CITY OF GREEN BAY	10/05/2022	10/25/2022	6.80	0.00	Paid	Y
	WWTF WWOA PARKING	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		6.80			
BROWN DAVID							
55923	CITY OF GREEN BAY	10/06/2022	10/25/2022	5.95	0.00	Paid	Y
	WWTF WWOA PARKING	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		5.95			
CASTLE WAYNE A							
55924	AUTOGRAPH HOTELS	10/07/2022	10/25/2022	294.00	0.00	Paid	Y
	WWTF WWOA WAYNE HOTEL	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		294.00			

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INVOICE REGISTER REPORT FOR MUKWONAGO
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 CREDIT CARD TRANSACTIONS FOR BOARD
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
CASTLE WAYNE A							
55925	WIAWWA	10/10/2022	10/25/2022	25.00	0.00	Paid	Y
	WATER WAYNE CLASS FOR LEAD AND	MROCKLEY					10/25/2022
	610-6920-693000	MISC GENERAL EXPENSES		25.00			
DEMOTTO CHRIS							
55926	REGISTER@FAA 344NXP4	09/21/2022	10/25/2022	5.00	0.00	Paid	Y
	FAA DRONE REGISTRATION	MROCKLEY					10/25/2022
	340-5890-580602	POLICE DONATED FUND EXPENDITURES		5.00			
DEMOTTO CHRIS							
55927	KALAHARI RESORT - WI	09/23/2022	10/25/2022	180.00	0.00	Paid	Y
	PHOENIX CONFERENCE KALARAHI STAY	MROCKLEY					10/25/2022
	100-5211-533500	TRAINING & TRAVEL		180.00			
DEMOTTO CHRIS							
55928	KALAHARI RESORT - WI	09/23/2022	10/25/2022	180.00	0.00	Paid	Y
	PHOENIX CONFERENCE KALAHARI STAY	MROCKLEY					10/25/2022
	100-5211-533500	TRAINING & TRAVEL		180.00			
DYKSTRA DIANA							
55929	WM SUPERCENTER #1571	10/05/2022	10/25/2022	3.15	0.00	Paid	Y
	BADGER BOOK BOXES	MROCKLEY					10/25/2022
	100-5144-531100	SUPPLIES		3.15			
DYKSTRA DIANA							
55930	VBS*VONAGE BUSINESS	10/12/2022	10/25/2022	983.18	0.00	Paid	Y
	OCTOBER-NOVEMBER 2022 MONTHLY PHONE	MROCKLEY					10/25/2022
	100-5141-522500	TELEPHONE		12.66			
	100-5142-522500	TELEPHONE		63.44			
	100-5145-522900	SOFTWARE SUPPORT/MAINTENANCE		50.64			
	100-5241-522500	TELEPHONE		25.33			
	100-5632-522500	TELEPHONE		12.66			
	100-5323-522500	TELEPHONE		25.45			
	100-5512-522500	TELEPHONE		12.67			
	100-5120-522500	TELEPHONE		12.66			
	100-5211-522500	TELEPHONE		235.03			
	150-5221-522500	TELEPHONE		230.55			
	440-5511-522500	TELEPHONE		248.82			
	610-6920-692100	OFFICE SUPPLIES & EXPENSES		26.64			

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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date
Purchase Card Vendor: 0002 US BANK							
	620-8400-851000	OFFICE SUPPLIES & EXPENSES		26.63			
GOURDOUX LINDA							
55931	COUSINS SUBS #9160	09/22/2022	10/25/2022	48.24	0.00	Paid	Y
	ELECTION INSPECTORS LUNCH	MROCKLEY					10/25/2022
	100-5144-531100	ELECTION INSPECTOR LUNCH		48.24			
ISELY MARY JO							
55932	THE MUSIC CAFE	09/16/2022	10/25/2022	16.79	0.00	Paid	Y
	UKULELE RESTRING & TUNE	MROCKLEY					10/25/2022
	440-5511-533000	THINGERY PURCHASES		16.79			
ISELY MARY JO							
55933	WALMART.COM 8009666546	09/29/2022	10/25/2022	68.92	0.00	Paid	Y
	DVDS	MROCKLEY					10/25/2022
	440-5700-532900	AV MATERIAL		68.92			
ISELY MARY JO							
55934	NETFLIX.COM	10/01/2022	10/25/2022	19.99	0.00	Paid	Y
	STREAMING SERVICE 10/1/22-10/31/22	MROCKLEY					10/25/2022
	440-5511-533000	THINGERY PURCHASES		19.99			
KIM CATHRYN							
55935	ELEGANT FARMER	09/23/2022	10/25/2022	50.00	0.00	Paid	Y
	PROGRAM PRIZE	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		50.00			
KIM CATHRYN							
55936	SP IMAGE SUPPLY	09/27/2022	10/25/2022	51.65	0.00	Paid	Y
	LABLE MAKER TAPE	MROCKLEY					10/25/2022
	440-5511-531100	SUPPLIES		51.65			
KIM CATHRYN							
55937	WAL-MART #1571	09/28/2022	10/25/2022	53.19	0.00	Paid	Y
	CLEANING SUPLLIES	MROCKLEY					10/25/2022
	440-5511-531100	SUPPLIES		53.19			
KIM CATHRYN							
55938	PICK N SAVE #384	10/05/2022	10/25/2022	6.99	0.00	Paid	Y
	PROGRAM SUPPLIES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		6.99			

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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
KIM CATHRYN							
55939	SQ *SCHUETT FARMS	10/05/2022	10/25/2022	21.00	0.00	Paid	Y
	PUMPKINS	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		21.00			
KIM CATHRYN							
55940	KWIK TRIP 28200002824	10/05/2022	10/25/2022	100.00	0.00	Paid	Y
	SURVEY PRIZE	MROCKLEY					10/25/2022
	440-5890-580600	DONATED FUND EXPENDITURES		100.00			
KIM CATHRYN							
55941	FUN EXPRESS	10/05/2022	10/25/2022	156.36	0.00	Paid	Y
	PROGRAM SUPPLIES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		156.36			
KIM CATHRYN							
55942	MAILCHIMP *MISC	10/08/2022	10/25/2022	69.99	0.00	Paid	Y
	NEWSLETTER 9/8-10/7	MROCKLEY					10/25/2022
	440-5511-534000	DIGITAL MATERIALS		69.99			
KIM CATHRYN							
55943	QDOBA 1857 CATERING	10/08/2022	10/25/2022	267.75	0.00	Paid	Y
	STAFF TRAINING MEAL	MROCKLEY					10/25/2022
	440-5511-533500	TRAINING & TRAVEL		267.75			
KIM CATHRYN							
55944	HAHN ACE - MUKWONAGO	10/11/2022	10/25/2022	23.97	0.00	Paid	Y
	PAINT	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		23.97			
KIM CATHRYN							
55945	HAHN ACE - MUKWONAGO	10/11/2022	10/25/2022	23.97	0.00	Paid	Y
	PAINT	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		23.97			
KIM CATHRYN							
55946	WM SUPERCENTER #1571	10/12/2022	10/25/2022	203.56	0.00	Paid	Y
	PROGRAM SUPPLIES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		203.56			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
KIM CATHRYN							
55947	WAL-MART #1571	10/13/2022	10/25/2022	9.66	0.00	Paid	Y
	PAINT	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		9.66			
KIM CATHRYN							
55948	WALGREENS #7039	10/13/2022	10/25/2022	9.88	0.00	Paid	Y
	CARDS	MROCKLEY					10/25/2022
	440-5511-531100	SUPPLIES		9.88			
KINDER MATTHEW							
55949	OPC*WISCONSIN RURAL WTR	10/04/2022	10/25/2022	50.00	0.00	Paid	Y
	WATER CLASS FOR BACKFLOW PREVENTER	MROCKLEY					10/25/2022
	610-6920-693000	MISC GENERAL EXPENSES		50.00			
KINDER MATTHEW							
55950	OPC MSC*SERVICE FEE 024	10/04/2022	10/25/2022	6.05	0.00	Paid	Y
	WATER BACKFLOW PREVENTER	MROCKLEY					10/25/2022
	610-6920-693000	MISC GENERAL EXPENSES		6.05			
KINDER MATTHEW							
55951	THE HOME DEPOT #4921	10/13/2022	10/25/2022	140.47	0.00	Paid	Y
	WATER/WWTF HYD WINTERIZATION, SHOP	MROCKLEY					10/25/2022
	610-6454-665400	MAINTENANCE-HYDRANTS		100.00			
	620-8010-827000	OPERATION SUPPLY/EXPENSE		40.47			
KREISER ROBERT							
55952	SP SCOTT COMPANY DRU	09/16/2022	10/25/2022	74.97	0.00	Paid	Y
	DRUG TESTING KITS	MROCKLEY					10/25/2022
	100-5212-531100	SUPPLIES		74.97			
KREISER ROBERT							
55953	WAL-MART #1571	10/05/2022	10/25/2022	67.72	0.00	Paid	Y
	USB DRIVES AND EMPLOYEE PHOTO	MROCKLEY					10/25/2022
	100-5213-531100	SUPPLIES		67.72			
KREISER ROBERT							
55954	AMZN MKTP US*1K9BK2C31	10/06/2022	10/25/2022	76.57	0.00	Paid	Y
	FLASH DRIVES	MROCKLEY					10/25/2022
	100-5213-531100	SUPPLIES		76.57			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
MILLER KENNETH							
55955	MENARDS BURLINGTON WI	09/15/2022	10/25/2022	122.31	0.00	Paid	Y
	WWTF SKIMMER DIVERTER BAORD FOR	MROCKLEY					10/25/2022
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		122.31			
MILLER KENNETH							
55956	THE HOME DEPOT #4921	09/27/2022	10/25/2022	79.13	0.00	Paid	Y
	WWTF RIVERPARKS DISH POLE MOUNTING	MROCKLEY					10/25/2022
	620-8020-832000	MAINTENANCE-LIFT STATIONS/PUMP		79.13			
MILLER KENNETH							
55957	JACOR INC.	09/28/2022	10/25/2022	388.70	0.00	Paid	Y
	WWTF GARAGE DOOR SEALS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		388.70			
MILLER KENNETH							
55958	THE HOME DEPOT #4921	09/28/2022	10/25/2022	25.74	0.00	Paid	Y
	WWTF GARAGE DOOR REPAIRS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		25.74			
MILLER KENNETH							
55959	QUALITY INN WI206	10/04/2022	10/25/2022	136.80	0.00	Paid	Y
	WWTF WWOA HOTEL KEN M	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		136.80			
MILLER KENNETH							
55960	QUALITY INN WI206	10/04/2022	10/25/2022	158.01	0.00	Paid	Y
	WWTF WWOA HOTEL DAVE B	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		158.01			
MILLER KENNETH							
55961	TST* ANDUZZI'S SPORTS CLU	10/05/2022	10/25/2022	50.63	0.00	Paid	Y
	WWTF WWOA SUPPER DAVE AND KEN	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		50.63			
MILLER KENNETH							
55962	US BANK	10/12/2022	10/25/2022	(21.21)	0.00	Paid	Y
	WWTF WWOA DAVE B HOTEL TAX CREDIT	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		(21.21)			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
MILLER KENNETH							
55963	H A GUDEN COMPANY INC	10/13/2022	10/25/2022	67.79	0.00	Paid	Y
	WWTF UV COVER SUPPORT SHOCKS	MROCKLEY					10/25/2022
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		67.79			
SMITH JAMES A							
55964	THE HOME DEPOT #4921	09/27/2022	10/25/2022	166.81	0.00	Paid	Y
	WWTF GARAGE DOOR REPAIRS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		166.81			
SMITH JAMES A							
55965	THE HOME DEPOT #4921	09/28/2022	10/25/2022	18.50	0.00	Paid	Y
	WWTF GARAGE DOOR REPAIRS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		18.50			
SMITH JAMES A							
55966	BATTERIES PLUS #0580	10/10/2022	10/25/2022	459.50	0.00	Paid	Y
	WATER/WWTF REPLACEMENT BATTERIES FOR MROCKLEY						10/25/2022
	610-6200-662500	MAINTENANCE-PUMPING		230.00			
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		229.50			
SMITH JAMES A							
55967	BATTERIES PLUS #0540	10/12/2022	10/25/2022	105.26	0.00	Paid	Y
	WWTF UPS BATTERIES	MROCKLEY					10/25/2022
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		105.26			
SMITH JAMES A							
55968	WM SUPERCENTER #1571	10/14/2022	10/25/2022	9.28	0.00	Paid	Y
	WWTF OFFICE SUPPLIES	MROCKLEY					10/25/2022
	620-8400-851000	OFFICE SUPPLIES & EXPENSES		9.28			
STIEN JEFFREY R							
55969	AMZN MKTP US*1M8914GW1	09/15/2022	10/25/2022	94.00	0.00	Paid	Y
	EMS SUPPLIES	MROCKLEY					10/25/2022
	150-5231-531100	SUPPLIES		94.00			
STIEN JEFFREY R							
55970	TOKYO STEAKHOUSE	09/22/2022	10/25/2022	40.24	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		40.24			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
STIEN JEFFREY R							
55971	KWIK TRIP 20200002022	09/22/2022	10/25/2022	9.06	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		9.06			
STIEN JEFFREY R							
55972	RED LOBSTER 0377	09/22/2022	10/25/2022	17.67	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		17.67			
STIEN JEFFREY R							
55973	HILLTOP PUB & GRILL	09/23/2022	10/25/2022	27.20	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		27.20			
STIEN JEFFREY R							
55974	WAVE - *NEXTEL WIRELESS S	09/26/2022	10/25/2022	36.98	0.00	Paid	Y
	CAR 1 LOANER REPAIR	MROCKLEY					10/25/2022
	150-5222-539500	REPAIRS & MAINTENANCE		36.98			
STIEN JEFFREY R							
55975	WAL-MART #1571	09/27/2022	10/25/2022	38.78	0.00	Paid	Y
	STATION SUPPLIES	MROCKLEY					10/25/2022
	150-5221-531100	SUPPLIES		38.78			
STIEN JEFFREY R							
55976	AMZ*POWERSTREAM TECH	10/01/2022	10/25/2022	32.15	0.00	Paid	Y
	CONVERTER	MROCKLEY					10/25/2022
	150-5231-531100	SUPPLIES		32.15			
STIEN JEFFREY R							
55977	NATIONAL REGISTRY EMT	10/05/2022	10/25/2022	32.00	0.00	Paid	Y
	NREMT STIEN RECERTIFICATION	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		32.00			
STIEN JEFFREY R							
55978	ALL STAR RENTALS	10/06/2022	10/25/2022	899.32	0.00	Paid	Y
	FIRE PREVENTION OPEN HOUSE	MROCKLEY					10/25/2022
	150-5221-531300	FIRE PREVENTION MATERIALS		899.32			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
STIEN JEFFREY R							
55979	HAHN ACE - MUKWONAGO	10/11/2022	10/25/2022	692.97	0.00	Paid	Y
	HAHN ACE HARDWARE STIHL BATTERY SAW- MROCKLEY						10/25/2022
	150-5700-571300 FIRE DEPT CAPITAL EQUIP			692.97			
STIEN JEFFREY R							
55980	WPSG, INC.	10/14/2022	10/25/2022	190.72	0.00	Paid	Y
	WILDLAND BRROMS- DNR GRANT MROCKLEY						10/25/2022
	150-5222-531100 SUPPLIES			190.72			
STREIT DANIEL							
55981	AMZN MKTP US*1U2Z15D61	09/26/2022	10/25/2022	9.49	0.00	Paid	Y
	BATTERIES MROCKLEY						10/25/2022
	100-5211-531100 SUPPLIES			9.49			
STREIT DANIEL							
55982	VISTAPRINT	10/02/2022	10/25/2022	144.99	0.00	Paid	Y
	BUSINESS CARDS - CIEZYNSKI PINKOWSKI MROCKLEY						10/25/2022
	100-5212-534600 CLOTHING ALLOWANCE			144.99			
STREIT DANIEL							
55983	APCO INTERNATIONAL INC	10/10/2022	10/25/2022	361.00	0.00	Paid	Y
	APCO GROUP MEMBERSHIP MROCKLEY						10/25/2022
	100-5211-532400 MEMBERSHIP DUES			361.00			
STREIT DANIEL							
55984	DNH*GODADDY.COM	10/15/2022	10/25/2022	499.98	0.00	Paid	Y
	GODADDY SSL RENEWAL MROCKLEY						10/25/2022
	100-5211-522900 SOFTWARE SUPPORT/MAINTENANCE			499.98			
SURA MATTHEW J							
55985	SMARTSIGN	09/19/2022	10/25/2022	372.49	0.00	Paid	Y
	EMS SUPPLIES- LABELS MROCKLEY						10/25/2022
	150-5231-531100 SUPPLIES			372.49			
SURA MATTHEW J							
55986	PAYPAL *GBTECHUSA	10/02/2022	10/25/2022	318.00	0.00	Paid	Y
	EMS SUPPLIES MROCKLEY						10/25/2022
	150-5231-531100 SUPPLIES			318.00			

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Inv Ref#	Description	Entered By					Post Date

Purchase Card Vendor: 0002 US BANK

SURA MATTHEW J							
55987	APPLE.COM/BILL	10/08/2022	10/25/2022	0.99	0.00	Paid	Y
	APLLE ICLOUD STORAGE	MROCKLEY					10/25/2022
	150-5231-531100	SUPPLIES		0.99			

SURA MATTHEW J							
55988	FULLY PROMOTED	10/12/2022	10/25/2022	317.85	0.00	Paid	Y
	FICKAU CLOTHING	MROCKLEY					10/25/2022
	150-5221-534600	CLOTHING ALLOWANCE		317.85			

Total Purchase Card Vendor: 0002 US BANK	13,349.82	0.00
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# of Invoices:	79	# Due:	0	Totals:	13,371.03	0.00
# of Credit Memos:	1	# Due:	0	Totals:	(21.21)	0.00
Net of Invoices and Credit Memos:					13,349.82	0.00

--- TOTALS BY GL DISTRIBUTION ---

100-5120-522500	TELEPHONE	12.66
100-5141-522500	TELEPHONE	12.66
100-5142-522500	TELEPHONE	63.44
100-5144-531100	SUPPLIES	51.39
100-5145-522900	SOFTWARE SUPPORT/MAINTENANCE	50.64
100-5211-522500	TELEPHONE	235.03
100-5211-522900	SOFTWARE SUPPORT/MAINTENANCE	499.98
100-5211-531100	SUPPLIES	9.49
100-5211-532400	MEMBERSHIP DUES	361.00
100-5211-533500	TRAINING & TRAVEL	360.00
100-5212-531100	SUPPLIES	74.97
100-5212-534600	CLOTHING ALLOWANCE	144.99
100-5213-531100	SUPPLIES	144.29
100-5241-522500	TELEPHONE	25.33
100-5323-522500	TELEPHONE	25.45
100-5323-531100	SUPPLIES	108.78
100-5323-533500	TRAINING & TRAVEL	419.00
100-5512-522500	TELEPHONE	12.67
100-5521-531100	SUPPLIES	1,751.04
100-5632-522500	TELEPHONE	12.66

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INVOICE REGISTER REPORT FOR MUKWONAGO
EXP CHECK RUN DATES 10/25/2022 - 10/25/2022
JOURNALIZED PAID
BANK CODE: GEN - CHECK TYPE: EFT
CREDIT CARD TRANSACTIONS FOR BOARD
SORTED BY CARDHOLDER

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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
150-5221-522500	TELEPHONE			230.55			
150-5221-531100	SUPPLIES			38.78			
150-5221-531300	FIRE PREVENTION MATERIALS			899.32			
150-5221-533500	TRAINING & TRAVEL			126.17			
150-5221-534600	CLOTHING ALLOWANCE			317.85			
150-5222-531100	SUPPLIES			190.72			
150-5222-539500	REPAIRS & MAINTENANCE			36.98			
150-5231-531100	SUPPLIES			817.63			
150-5700-571300	FIRE DEPT CAPITAL EQUIP			692.97			
340-5890-580601	DPW-DONATED FUNDS EXPENDITURE			875.51			
340-5890-580602	POLICE DONATED FUND EXPENDITURES			5.00			
440-5511-522500	TELEPHONE			248.82			
440-5511-531100	SUPPLIES			114.72			
440-5511-533000	THINGERY PURCHASES			36.78			
440-5511-533100	PROGRAMMING			539.56			
440-5511-533500	TRAINING & TRAVEL			657.75			
440-5511-534000	DIGITAL MATERIALS			168.99			
440-5700-532900	AV MATERIAL			68.92			
440-5890-580600	DONATED FUND EXPENDITURES			289.81			
480-5700-584900	PARK IMPROVEMENT PROJECTS			246.80			
610-6200-662500	MAINTENANCE-PUMPING			230.00			
610-6300-663200	OPERATION SUPPLY/EXP-TREATMENT			4.80			
610-6454-665400	MAINTENANCE-HYDRANTS			100.00			
610-6920-692100	OFFICE SUPPLIES & EXPENSES			26.64			
610-6920-693000	MISC GENERAL EXPENSES			81.05			
620-8010-827000	OPERATION SUPPLY/EXPENSE			40.47			
620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT			524.86			
620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES			599.75			
620-8020-832000	MAINTENANCE-LIFT STATIONS/PUMP			79.13			
620-8400-851000	OFFICE SUPPLIES & EXPENSES			35.91			
620-8400-854100	EDUCATIONAL/TRAINING EXPENSES			648.11			

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INVOICE REGISTER REPORT FOR MUKWONAGO
 EXP CHECK RUN DATES 10/25/2022 - 10/25/2022
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 CREDIT CARD TRANSACTIONS FOR BOARD
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
---	TOTALS BY FUND ---						
	100 - GENERAL FUND			4,375.47	0.00		
	150 - FIRE/AMBULANCE FUND			3,350.97	0.00		
	340 - VILLAGE DESIGNATED FUND			880.51	0.00		
	440 - LIBRARY FUND			2,125.35	0.00		
	480 - CAPITAL IMPROVEMENT FUND			246.80	0.00		
	610 - WATER UTILITY FUND			442.49	0.00		
	620 - SEWER UTILITY FUND			1,928.23	0.00		
---	TOTALS BY DEPT/ACTIVITY ---						
	5120 - MUNICIPAL COURT			12.66	0.00		
	5141 - VILLAGE ADMINISTRATOR			12.66	0.00		
	5142 - CLERK-TREASURER			63.44	0.00		
	5144 - ELECTIONS			51.39	0.00		
	5145 - FINANCE DEPARTMENT			50.64	0.00		
	5211 - POLICE ADMINISTRATION			1,465.50	0.00		
	5212 - POLICE PATROL			219.96	0.00		
	5213 - CRIME INVESTIGATION			144.29	0.00		
	5221 - FIRE ADMINISTRATION			1,612.67	0.00		
	5222 - FIRE SUPPRESSION			227.70	0.00		
	5231 - AMBULANCE			817.63	0.00		
	5241 - BUILDING INSPECTOR			25.33	0.00		
	5323 - GARAGE			553.23	0.00		
	5511 - LIBRARY SERVICES			1,766.62	0.00		
	5512 - MUSEUM			12.67	0.00		
	5521 - PARKS			1,751.04	0.00		
	5632 - PLANNING DEPARTMENT			12.66	0.00		
	5700 - CAPITAL OUTLAY EXPENDITURES			1,008.69	0.00		
	5890 - USE OF DESIGNATED FUNDS			1,170.32	0.00		
	6200 - PUMPING OPERATIONS			230.00	0.00		
	6300 - WATER TREATMENT OPERATIONS			4.80	0.00		
	6454 - T&D-HYDRANTS MAINTENANCE			100.00	0.00		
	6920 - ADMINISTRATIVE & GENERAL EX			107.69	0.00		
	8010 - WWTP-TREATMENT/DISPOSAL/GP			1,165.08	0.00		
	8020 - LIFT STATIONS/PUMPING EQUIP			79.13	0.00		
	8400 - ADMINISTRATIVE & GENERAL			684.02	0.00		
---	TOTALS BY PAYMENT CARD ACCOUNT ---						
	0707			1,047.97			
	1051			196.52			
	1275			29.88			

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
GL Distribution							
--- TOTALS BY PAYMENT CARD ACCOUNT ---							
	2365			105.70			
	2544			986.33			
	3064			365.00			
	4175			219.26			
	5311			722.86			
	5538			1,015.46			
	5724			1,009.33			
	6347			48.24			
	6370			2,111.09			
	6639			319.00			
	7403			759.35			
	8389			1,007.90			
	8764			4.80			
	9708			3,401.13			

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INVOICE REGISTER REPORT FOR MUKWONAGO
EXP CHECK RUN DATES 10/19/2022 - 10/20/2022
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WE ENERGIES REPORT FOR BOARD

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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 55989	WE ENERGIES 0700126680-00001 Digester Gas 620-8010-821200	09/27/2022 MROCKLEY 0700126680-00001 Digester Gas	10/19/2022	4,138.09 4,138.09	0.00	Paid	Y 10/19/2022
4303895772 55990	WE ENERGIES 0700126680-00002 Well #3 Elec 610-6200-662200	09/27/2022 MROCKLEY 0700126680-00002 Well #3 Elec	10/19/2022	1,359.84 1,359.84	0.00	Paid	Y 10/19/2022
4303895772 55991	WE ENERGIES 0700126680-00003 Street Lights 100-5342-522200	09/27/2022 MROCKLEY 0700126680-00003 Street Lights	10/19/2022	3,783.20 3,783.20	0.00	Paid	Y 10/19/2022
4303895772 55992	WE ENERGIES 0700126680-00004 Greenwald 610-6200-662200	09/27/2022 MROCKLEY 0700126680-00004 Greenwald	10/19/2022	164.15 164.15	0.00	Paid	Y 10/19/2022
4303895772 55993	WE ENERGIES 0700126680-00005 Booster Station 610-6200-662200	09/27/2022 MROCKLEY 0700126680-00005 Booster Station	10/19/2022	428.68 428.68	0.00	Paid	Y 10/19/2022
4303895772 55994	WE ENERGIES 0700126680-00007 1240 N. Rochester 620-8020-821000	09/27/2022 MROCKLEY 0700126680-00007 1240 N. Rochester	10/19/2022	85.62 85.62	0.00	Paid	Y 10/19/2022
4303895772 55995	WE ENERGIES 0700126680-00008 Police Garage 100-5211-522200	09/27/2022 MROCKLEY 0700126680-00008 Police Garage	10/19/2022	36.18 36.18	0.00	Paid	Y 10/19/2022
4303895772 55996	WE ENERGIES 0700126680-00009 Fld Prk Baseball 100-5521-522200	09/27/2022 MROCKLEY 0700126680-00009 Fld Prk Baseball Lights	10/19/2022	22.04 22.04	0.00	Paid	Y 10/19/2022
4303895772 55997	WE ENERGIES 0700126680-00010 Fox River View 620-8020-821000	09/27/2022 MROCKLEY 0700126680-00010 Fox River View	10/19/2022	118.09 118.09	0.00	Paid	Y 10/19/2022

INVOICE REGISTER REPORT FOR MUKWONAGO
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 WE ENERGIES REPORT FOR BOARD

Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 55998	WE ENERGIES 0700126680-000011 DPW Elec 100-5323-522200	09/27/2022 MROCKLEY 0700126680-000011 DPW Elec	10/19/2022	345.49 345.49	0.00	Paid	Y 10/19/2022
4303895772 55999	WE ENERGIES 0700126680-000012 Fire 150-5221-522200	09/27/2022 MROCKLEY 0700126680-000012 Fire	10/19/2022	1,266.02 1,266.02	0.00	Paid	Y 10/19/2022
4303895772 56000	WE ENERGIES 0700126680-000013 police-CTH E N of 100-5211-522200	09/27/2022 MROCKLEY 0700126680-000013 police-CTH E N of Sugd	10/19/2022	18.72 18.72	0.00	Paid	Y 10/19/2022
4303895772 56001	WE ENERGIES 0700126680-000014 Hall 100-5160-522200	09/27/2022 MROCKLEY 0700126680-000014 Hall	10/19/2022	968.10 968.10	0.00	Paid	Y 10/19/2022
4303895772 56002	WE ENERGIES 0700126680-000014 Hall Gas 100-5160-522400	09/27/2022 MROCKLEY 0700126680-000014 Hall Gas	10/19/2022	30.78 30.78	0.00	Paid	Y 10/19/2022
4303895772 56003	WE ENERGIES 0700126680-000016 Miniwauken Park 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000016 Miniwauken Park	10/19/2022	31.71 31.71	0.00	Paid	Y 10/19/2022
4303895772 56004	WE ENERGIES 0700126680-000017 Holz Elec 620-8010-821100	09/27/2022 MROCKLEY 0700126680-000017 Holz Elec	10/19/2022	8,754.99 8,754.99	0.00	Paid	Y 10/19/2022
4303895772 56005	WE ENERGIES 0700126680-000018 Parks 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000018 Parks	10/19/2022	31.42 31.42	0.00	Paid	Y 10/19/2022
4303895772 56006	WE ENERGIES 0700126680-000019 Atkinson Pump 620-8020-821000	09/27/2022 MROCKLEY 0700126680-000019 Atkinson Pump	10/19/2022	400.53 400.53	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 56007	WE ENERGIES 0700126680-000020 Well #6 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000020 Well #6	10/19/2022	146.10 146.10	0.00	Paid	Y 10/19/2022
4303895772 56008	WE ENERGIES 0700126680-000021 DPW Gas 100-5323-522400	09/27/2022 MROCKLEY 0700126680-000021 DPW Gas	10/19/2022	25.50 25.50	0.00	Paid	Y 10/19/2022
4303895772 56009	WE ENERGIES 0700126680-000022 Concession 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000022 Concession Building	10/19/2022	290.11 290.11	0.00	Paid	Y 10/19/2022
4303895772 56010	WE ENERGIES 0700126680-000023 Well #3 Gas 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000023 Well #3 Gas	10/19/2022	9.90 9.90	0.00	Paid	Y 10/19/2022
4303895772 56011	WE ENERGIES 0700126680-000024 Parks-200 S 100-5342-522200	09/27/2022 MROCKLEY 0700126680-000024 Parks-200 S Rochester	10/19/2022	23.32 23.32	0.00	Paid	Y 10/19/2022
4303895772 56012	WE ENERGIES 0700126680-000027 Police 100-5211-522200	09/27/2022 MROCKLEY 0700126680-000027 Police	10/19/2022	1,243.44 1,243.44	0.00	Paid	Y 10/19/2022
4303895772 56013	WE ENERGIES 0700126680-000028 Miniwaukan 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000028 Miniwaukan Pavilion	10/19/2022	16.25 16.25	0.00	Paid	Y 10/19/2022
4303895772 56014	WE ENERGIES 0700126680-000029 F. Park Sump Pump 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000029 F. Park Sump Pump	10/19/2022	21.47 21.47	0.00	Paid	Y 10/19/2022
4303895772 56015	WE ENERGIES 0700126680-000031 Holz Gas 620-8010-821200	09/27/2022 MROCKLEY 0700126680-000031 Holz Gas	10/19/2022	9.90 9.90	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 56016	WE ENERGIES 0700126680-000032 Well #4 Elec 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000032 Well #4 Elec	10/19/2022	1,602.22 1,602.22	0.00	Paid	Y 10/19/2022
4303895772 56017	WE ENERGIES 0700126680-000033 Parks 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000033 Parks	10/19/2022	108.41 108.41	0.00	Paid	Y 10/19/2022
4303895772 56018	WE ENERGIES 0700126680-000034 Street Lights 100-5342-522200	09/27/2022 MROCKLEY 0700126680-000034 Street Lights	10/19/2022	57.70 57.70	0.00	Paid	Y 10/19/2022
4303895772 56019	WE ENERGIES 0700126680-000036 Flashers 100-5211-522200	09/27/2022 MROCKLEY 0700126680-000036 Flashers	10/19/2022	10.79 10.79	0.00	Paid	Y 10/19/2022
4303895772 56020	WE ENERGIES 0700126680-000037 Well #4 Gas 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000037 Well #4 Gas	10/19/2022	13.02 13.02	0.00	Paid	Y 10/19/2022
4303895772 56021	WE ENERGIES 0700126680-000038 Museum 100-5512-522200	09/27/2022 MROCKLEY 0700126680-000038 Museum	10/19/2022	480.30 480.30	0.00	Paid	Y 10/19/2022
4303895772 56022	WE ENERGIES 0700126680-000039 Well #5 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000039 Well #5	10/19/2022	1,534.94 1,534.94	0.00	Paid	Y 10/19/2022
4303895772 56023	WE ENERGIES 0700126680-00043 Outdoor Stage 100-5521-522200	09/27/2022 MROCKLEY 0700126680-00043 Outdoor Stage	10/19/2022	19.86 19.86	0.00	Paid	Y 10/19/2022
4303895772 56024	WE ENERGIES 0709449777-00001 Library Gas 440-5511-522400	09/27/2022 MROCKLEY 0709449777-00001 Library Gas	10/19/2022	444.18 444.18	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date
4303895772 56025	WE ENERGIES 0709449777-00002 Library Elec 440-5511-522200	09/27/2022 MROCKLEY 0709449777-00002 Library Elec	10/19/2022	3,097.78 3,097.78	0.00	Paid	Y 10/19/2022
4303895772 56026	WE ENERGIES 0712697628-00001 Tower Radio Bldg 100-5211-522200	09/27/2022 MROCKLEY 0712697628-00001 Tower Radio Bldg	10/19/2022	22.61 22.61	0.00	Paid	Y 10/19/2022
4303895772 56027	WE ENERGIES 0712697628-00002 Mukw Dam 100-5254-522200	09/27/2022 MROCKLEY 0712697628-00002 Mukw Dam	10/19/2022	23.19 23.19	0.00	Paid	Y 10/19/2022
4303895772 56028	WE ENERGIES 0712697628-00003 PD Tower meter 100-5211-522200	09/27/2022 MROCKLEY 0712697628-00003 PD Tower meter #05662	10/19/2022	44.02 44.02	0.00	Paid	Y 10/19/2022
4303895772 56029	WE ENERGIES 0712697628-00004 1224 Riverton 620-8020-821000	09/27/2022 MROCKLEY 0712697628-00004 1224 Riverton	10/19/2022	73.53 73.53	0.00	Paid	Y 10/19/2022
4303895772 56030	WE ENERGIES 0712697628-00006 Well #7 610-6200-662200	09/27/2022 MROCKLEY 0712697628-00006 Well #7	10/19/2022	1,216.98 1,216.98	0.00	Paid	Y 10/19/2022
4303895772 56031	WE ENERGIES 0712697628-00007 School Crossing 100-5342-522200	09/27/2022 MROCKLEY 0712697628-00007 School Crossing Lights	10/19/2022	16.25 16.25	0.00	Paid	Y 10/19/2022
4304276552 56032	WE ENERGIES 0700126680-00015 STREET LIGHTS 100-5342-522200	09/27/2022 MROCKLEY 0700126680-00015 STREET LIGHTS	10/19/2022	10,052.37 10,052.37	0.00	Paid	Y 10/19/2022
4294298558 56033	WE ENERGIES 0700126680-00006 Field Park 100-5521-522200	09/27/2022 MROCKLEY 0700126680-00006 Field Park	10/19/2022	60.80 60.80	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnlized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
4294298558							
56034	WE ENERGIES	09/27/2022	10/19/2022	33.13	0.00	Paid	Y
	0700126680-000025 Tower	MROCKLEY					10/19/2022
	610-6200-662200	0700126680-000025 Tower		33.13			
4294298558							
56035	WE ENERGIES	09/27/2022	10/19/2022	106.67	0.00	Paid	Y
	0700126680-00030 Andrews Street	MROCKLEY					10/19/2022
	100-5521-522200	0700126680-00030 Andrews Street		106.67			
# of Invoices:	47	# Due:	0	Totals:	42,788.39	0.00	
# of Credit Memos:	0	# Due:	0	Totals:	0.00	0.00	
Net of Invoices and Credit Memos:				42,788.39	0.00		

--- TOTALS BY GL DISTRIBUTION ---

100-5160-522200	ELECTRIC	968.10
100-5160-522400	GAS	30.78
100-5211-522200	ELECTRIC	1,375.76
100-5254-522200	ELECTRIC	23.19
100-5323-522200	ELECTRIC	345.49
100-5323-522400	GAS	25.50
100-5342-522200	ELECTRIC	13,932.84
100-5512-522200	ELECTRIC	480.30
100-5521-522200	ELECTRIC	708.74
150-5221-522200	ELECTRIC	1,266.02
440-5511-522200	ELECTRIC	3,097.78
440-5511-522400	GAS	444.18
610-6200-662200	FUEL OR POWER PURCHASED	6,508.96
620-8010-821100	WWTP ELECTRIC POWER	8,754.99
620-8010-821200	NAT GAS/ADMIN BLDG/HEAT EXCH	4,147.99
620-8020-821000	PUMPING POWER & FUEL	677.77

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INVOICE REGISTER REPORT FOR MUKWONAGO
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WE ENERGIES REPORT FOR BOARD

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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
GL Distribution							
--- TOTALS BY FUND ---							
	100 - GENERAL FUND			17,890.70	0.00		
	150 - FIRE/AMBULANCE FUND			1,266.02	0.00		
	440 - LIBRARY FUND			3,541.96	0.00		
	610 - WATER UTILITY FUND			6,508.96	0.00		
	620 - SEWER UTILITY FUND			13,580.75	0.00		
--- TOTALS BY DEPT/ACTIVITY ---							
	5160 - VILLAGE HALL			998.88	0.00		
	5211 - POLICE ADMINISTRATION			1,375.76	0.00		
	5221 - FIRE ADMINISTRATION			1,266.02	0.00		
	5254 - DAMS			23.19	0.00		
	5323 - GARAGE			370.99	0.00		
	5342 - STREET LIGHTING			13,932.84	0.00		
	5511 - LIBRARY SERVICES			3,541.96	0.00		
	5512 - MUSEUM			480.30	0.00		
	5521 - PARKS			708.74	0.00		
	6200 - PUMPING OPERATIONS			6,508.96	0.00		
	8010 - WWTP-TREATMENT/DISPOSAL/GP			12,902.98	0.00		
	8020 - LIFT STATIONS/PUMPING EQUIP			677.77	0.00		

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35163 - 35165
Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/10/2022	GEN	35163	CHARLES LETTERMAN	RESTITUTION	100-0000-233000	350.00
10/10/2022	GEN	35164	TREASURER STATE OF WI	COURT FINES AND FEES	100-0000-242400	3,300.94
10/10/2022	GEN	35165	TREASURER WAUKESHA COUNTY	COURT FINES AND FEES	100-0000-243240	872.07
			TOTAL - ALL FUNDS	TOTAL OF 3 CHECKS		4,523.01

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10/25/2022 03:45 PM			CHECK DISBURSEMENT REPORT FOR MUKWONAGO			Page 1/1	
User: MROCKLEY			CHECK NUMBER 35095				
DB: Mukwonago			Banks: GEN				
Check Date	Bank	Check #	Payee	Description	GL #	Amount	
10/04/2022	GEN	35095	JEFFERSON COUNTY JAIL	VELASCO SALINAS, RICARDO M/W DOB 04211990 SYSTEMID 30520173 NCIC -----	100-0000-233200	681.75	
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		681.75	

10/25/2022 03:46 PM			CHECK DISBURSEMENT REPORT FOR MUKWONAGO			Page 1/1	
User: MROCKLEY			CHECK NUMBER 35096				
DB: Mukwonago			Banks: GEN				
Check Date	Bank	Check #	Payee	Description	GL #	Amount	
10/04/2022	GEN	35096	LYNCH CHEVROLET	SQUAD 33 SERVICE	100-5212-539500	1,398.37	
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		1,398.37	

10/25/2022 03:47 PM			CHECK DISBURSEMENT REPORT FOR MUKWONAGO			Page 1/1	
User: MROCKLEY			CHECK NUMBER 35097				
DB: Mukwonago			Banks: GEN				
Check Date	Bank	Check #	Payee	Description	GL #	Amount	
10/05/2022	GEN	35097	WAUKESHA COUNTY SHERIFFS DEPARTMENT	RAGSDALE, DEVIN P, 04/11/1994 AGENCY CASES 22CT1074	100-0000-233200	310.00	
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		310.00	

10/25/2022 03:54 PM			CHECK DISBURSEMENT REPORT FOR MUKWONAGO				Page 1/1	
User: MROCKLEY			CHECK NUMBER 541					
DB: Mukwonago			Banks: GEN					
Check Date	Bank	Check #	Payee	Description	GL #	Amount		
10/10/2022	GEN	541 (E)	INVOICE CLOUD	INVOICE CLOUD MONTHLY FEES -	100-5142-539900	11.54		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	100-5241-539900	120.00		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	410-5363-539900	67.50		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	610-6902-690300	67.51		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	620-8300-840000	67.50		
							334.05	
TOTAL - ALL FUNDS				TOTAL OF 1 CHECKS		334.05		

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User: MROCKLEY
DB: Mukwonago

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CHECK NUMBER 35166
Banks: GEN

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/10/2022	GEN	35166	OAK CREEK PD	NICHOLAS R DEROUIN M/W DOB05/05/1978	100-0000-233200	98.80
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		98.80

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/11/2022	GEN	35167	NORTH CENTRAL LABORATORIES	WWTF LAB SUPPLIES	620-8010-826000	140.13
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		140.13

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/11/2022	GEN	35168	WILLIAMS BAY POLICE DEPT	WILLIAM C BEARDER M/W DOB 030267 CASE# 22-003271	100-0000-233200	248.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		248.00

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/18/2022	GEN	35197	WAUKESHA COUNTY SHERIFFS DEPARTMENT	NOAH BRAUN C#75598	100-0000-233200	360.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		360.00

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/20/2022	GEN	35258	ENTRANCE SYSTEMS	WATER/WWTF GATE OPENER CONTROLLERS	610-6920-693000	155.00
		35258		WATER/WWTF GATE OPENER CONTROLLERS	620-8010-827000	155.00
						310.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		310.00

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/25/2022	GEN	546 (E)	WI DEPT OF REVENUE QTRLY TAX	WI DEPT OF REVENUE QTRLY TAX	100-5160-539900	26.68
		546 (E)		WI DEPT OF REVENUE QTRLY TAX	100-5521-539900	672.02
		546 (E)		WI DEPT OF REVENUE QTRLY TAX	440-5511-539900	128.97
						827.67
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		827.67

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User: MROCKLEY
DB: Mukwonago

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CHECK DATE FROM 10/12/2022 - 10/12/2022
Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/12/2022	GEN	35169	MINNESOTA LIFE INSURANCE	NOVEMBER 2022 LIFE INSURANCE	100-0000-215301	1,136.68
		35169		NOVEMBER 2022 LIFE INSURANCE	150-0000-215301	186.73
		35169		NOVEMBER 2022 LIFE INSURANCE	440-0000-215301	128.14
		35169		NOVEMBER 2022 LIFE INSURANCE	610-0000-215301	42.23
		35169		NOVEMBER 2022 LIFE INSURANCE	620-0000-215301	175.09
						1,668.87
10/12/2022	GEN	35170	MISSION SQUARE	RETIREMENT PR 10/14/22 ACCT 305155	100-0000-215250	4,823.29
		35170		RETIREMENT PR 10/14/22 ACCT 305155	150-0000-215250	31.50
		35170		RETIREMENT PR 10/14/22 ACCT 305155	440-0000-215250	679.02
		35170		RETIREMENT PR 10/14/22 ACCT 305155	610-0000-215250	197.95
		35170		RETIREMENT PR 10/14/22 ACCT 305155	620-0000-215250	351.97
						6,083.73
10/12/2022	GEN	35171	SECURIAN FINANCIAL GROUP INC	OCTOBER 2022 ACCIDENT INS	100-0000-215305	14.00
		35171		OCTOBER 2022 ACCIDENT INS	150-0000-215305	2.90
						16.90
10/12/2022	GEN	542 (E)	GREAT WEST RETIREMENT SERVICES	RETIREMENT PR 10/14/22	100-0000-215250	580.00
		542 (E)		RETIREMENT PR 10/14/22	150-0000-215250	665.09
						1,245.09
			TOTAL - ALL FUNDS	TOTAL OF 4 CHECKS		9,014.59

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User: MROCKLEY
DB: Mukwonago

CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK DATE FROM 10/26/2022 - 10/26/2022
Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/26/2022	GEN	35259	AFLAC	ACCOUNT# V1553 SUPPLEMENTAL	100-0000-215302	290.16
		35259		ACCOUNT# V1553 SUPPLEMENTAL	150-0000-215302	348.22
		35259		ACCOUNT# V1553 SUPPLEMENTAL	610-0000-215302	11.86
		35259		ACCOUNT# V1553 SUPPLEMENTAL	620-0000-215302	221.52
						871.76
10/26/2022	GEN	35260	MISSION SQUARE	RETIREMENT PR 10/28/22 ACCT 305155	100-0000-215250	4,793.76
		35260		RETIREMENT PR 10/28/22 ACCT 305155	150-0000-215250	18.11
		35260		RETIREMENT PR 10/28/22 ACCT 305155	440-0000-215250	694.72
		35260		RETIREMENT PR 10/28/22 ACCT 305155	500-0000-215250	3.45
		35260		RETIREMENT PR 10/28/22 ACCT 305155	610-0000-215250	189.74
		35260		RETIREMENT PR 10/28/22 ACCT 305155	620-0000-215250	443.78
						6,143.56
10/26/2022	GEN	35261	MUKWONAGO PROFESSIONAL	OCTOBER 2022 FIRE UNION DUES	150-0000-215500	450.00
10/26/2022	GEN	35262	MUKWONAGO PROFESSIONAL POLICE	OCTOBER 2022 POLICE UNION DUES	100-0000-215500	500.00
10/26/2022	GEN	35263	VILLAGE OF MUKWONAGO MRA	OCTOBER 2022 FSA	100-0000-215350	1,630.03
		35263		OCTOBER 2022 FSA	150-0000-215350	341.41
		35263		OCTOBER 2022 FSA	610-0000-215350	9.24
		35263		OCTOBER 2022 FSA	620-0000-215350	148.46
						2,129.14
10/26/2022	GEN	35264	WI SCTF	WI SCTF R&D FEE 2022 - 0004840059	150-0000-215900	65.00
10/26/2022	GEN	547 (E)	DELTA DENTAL OF WISCONSIN	NOVEMBER 2022 DENTAL PREMIUMS	100-0000-215304	389.84
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	150-0000-215304	20.98
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	440-0000-215304	51.72
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	610-0000-215304	9.60
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	620-0000-215304	0.16
						472.30
10/26/2022	GEN	548 (E)	DELTA DENTAL OF WISCONSIN	NOVEMBER 2022 VISION PREMIUMS	100-0000-215303	56.32
		548 (E)		NOVEMBER 2022 VISION PREMIUMS	440-0000-215303	35.76

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Page 2/3

Check Date	Bank	Check #	Payee	Description	GL #	Amount
						92.08
10/26/2022	GEN	549 (E)	EMPLOYEE TRUST FUNDS	NOVEMBER 2022 HEALTH INSURANCE	100-0000-215300	48,250.25
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	150-0000-215300	8,951.45
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	440-0000-215300	6,852.25
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	500-0000-215300	65.39
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	610-0000-215300	3,153.74
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	620-0000-215300	6,288.86
						73,561.94
10/26/2022	GEN	550 (E)	GREAT WEST RETIREMENT SERVICES	RETIREMENT PR 10/28/22	100-0000-215250	580.00
		550 (E)		RETIREMENT PR 10/28/22	150-0000-215250	730.98
						1,310.98
10/26/2022	GEN	551 (E)	UKG INC.	PAYROLL PROCESSING FEES SEPTEMBER	100-5111-539900	92.75
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5120-539900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5141-539900	13.25
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5142-539900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5145-539900	53.00
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5211-539900	145.75
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5212-539900	172.25
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5213-521900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5241-539900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5300-539900	132.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5670-521900	13.25
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	150-5221-539900	503.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	440-5511-539900	344.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	610-6902-690300	53.00
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	620-8300-840000	53.00
						1,682.75
10/26/2022	GEN	552 (E)	WI RETIREMENT SYSTEM	WISCONSIN RETIREMENT CONTRIBUTIONS - SEPTEMBER 2022	100-0000-215200	45,711.62
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	150-0000-215200	14,727.85
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	440-0000-215200	7,174.82
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	500-0000-215200	94.78
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	610-0000-215200	2,983.5^

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	620-0000-215200	4,431.40
						75,123.99
			TOTAL - ALL FUNDS	TOTAL OF 12 CHECKS		162,403.50



Agenda Item Cover Report

Date: October 27, 2022	Committee/Board: Judicial Committee
Submitted by: Diana Dykstra	Department: Village Clerk-Treasurer
Date of Committee Action: November 2, 2022	Date of Village Board Action: November 16, 2022

Subject:

Amending Chapter 2 regarding Meeting Days

Executive Summary:

We have been looking to clean up the ordinance book. It made sense when we had time to make a quick correction to the day of the week the COW and Board meet since this was incorrect in the book.

These ordinances reflect those changes.

Fiscal Impact:

None.

Executive Recommendation/Action:

Approve the Ordinances adjusting the day of the week for the Committee of the Whole and the Village Board.

 Attachments Included

**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

ORDINANCE NO. 1013

**ORDINANCE TO AMEND CHAPTER 2 ADMINISTRATION, ARTICLE II VILLAGE
BOARD REGARDING MEETING TIME OF THE VILLAGE BOARD**

The Village Board of the Village of Mukwonago do ordain as follows:

SECTION I

Section 2-26, Meetings, of Chapter 2 ADMINISTRATION, ARTICLE II VILLAGE BOARD of the Municipal Code of the Village of Mukwonago is hereby Amended as follows:

- (a) Regular. Regular meetings of the Village Board shall be held on the third ~~Tuesday~~ Wednesday of each calendar month at 6:30 p.m. Any regular meeting falling on a legal holiday recognized as such in the state shall be held on the succeeding Thursday at the same hour and place or at the next regularly scheduled meeting.

SECTION II

All Ordinances or parts of Ordinances contravening the terms and conditions of this Ordinance are hereby to that extent repealed.

SECTION III

This Ordinance shall take effect upon passage and publication as approved by law, and the Village Clerk shall so amend the Code of Ordinances of the Village of Mukwonago, and shall indicate the date and number of this amending ordinance therein.

PASSED AND ADOPTED by the Village Board this 16th day of November, 2022.

APPROVED:

Fred Winchowky, Village President

Attest:

Diana Dykstra, Village Clerk/Treasurer

**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

ORDINANCE NO. 1014

**ORDINANCE TO AMEND CHAPTER 2 ADMINISTRATION ARTICLE II VILLAGE
BOARD SECTION 2-34 COMMITTEE OF THE WHOLE
REGARDING MEETING TIME**

The Village Board of the Village of Mukwonago do ordain as follows:

SECTION I

Section 2-34, Committee of the Whole, of Article 2 VILLAGE BOARD of the Municipal Code of the Village of Mukwonago is hereby Amended as follows:

- (a) Standing committee, appointments and jurisdiction. A committee of the whole is hereby established as a standing committee. All members of the Village Board shall be members of this committee with the Village President serving as chair. At the first regular board meeting following the spring election, the Village President shall designate Trustees as committee of the whole sub-committee chairpersons. Sub-committee chairs will serve as chairs for their particular sections of the agenda. This committee shall meet on the first ~~Tuesday~~ Wednesday of the month at 5:30 p.m. ~~The committee shall have the discretion hold a meeting the succeeding day or a different day to discuss or consider any items on the agenda that were not discussed at the original meeting.~~ Any regular meeting falling on a legal holiday recognized as such in the state shall be held on the succeeding Thursday at the same hour and place or at the next regularly scheduled meeting. The sub-committees within the committee of the whole are as follows:

SECTION II

All Ordinances or parts of Ordinances contravening the terms and conditions of this Ordinance are hereby to that extent repealed.

SECTION III

This Ordinance shall take effect upon passage and publication as approved by law, and the Village Clerk shall so amend the Code of Ordinances of the Village of Mukwonago, and shall indicate the date and number of this amending ordinance therein.

PASSED AND ADOPTED by the Village Board this 16th day of November, 2022.

APPROVED:

Fred Winchowky, Village President

Attest:

Diana Dykstra, Village Clerk/Treasurer



Agenda Item Cover Report

Date: 10/25/2022	Committee/Board: Public Works
Submitted by: Wayne Castle	Department: Utilities- Water
Date of Committee Action: 11/02/2022	Date of Village Board Action: 11/16/2022

Subject:

Well Nos. 3 and 4 HMO Treatment Predesign Study

Executive Summary:

This Task Order is to conduct a predesign study to answer specific questions needed for the detailed design. The results of this study will be the foundation of the detailed design for the project taking place in the second half of 2023 and the first half of 2024. The study findings will be documented in a letter report. The study will also identify estimated project costs.

R/M will submit and receive WDNR approval of this study report. By having WDNR approval of the project predesign, it will facilitate the detailed design approval required by them in summer/fall of 2024. We anticipate public bidding to take place immediately after WDNR approval of the detailed design with a contract in place with the construction contractor by the end of 2024. Construction of the project would start in early spring 2025 and extend into 2026.

Fiscal Impact:

\$38,385 through ARPA funds

Executive Recommendation/Action:

Committee recommendation to Village Board for Approval

☒ Attachments Included

- Task Order 2022-11
- “Water Supply and Wastewater Treatment System Capacity Analysis” report, May of 2021.
- Wells 3 and 4 Radionuclide Removal Analysis Memorandum dated November 19, 2021.

TASK ORDER

This is Task Order No. 2022-11,
consisting of 3 pages
Village of Mukwonago
*Well Nos. 3 and 4 HMO
Treatment Predesign Study*

Task Order

In accordance with the Agreement Amendment between Village of Mukwonago (Owner) and Ruekert-Mielke, Inc. (Engineer) dated February 20, 2019, Owner and Engineer agree as follows:

1. Specific Project Data

- A. Title: Well Nos. 3 and 4 HMO Treatment Predesign Study
- B. Description: The Village presently has a deficiency in its available water supply. This is documented in the past report entitled "Water Supply and Wastewater Treatment System Capacity Analysis" finalized in May of 2021. The recommendation of this report is for the Village to provide radionuclide removal treatment for Well Nos. 3 and 4 instead of relying on blending with Well 5 and 6 which has been the existing practice. With the blending arrangement, the output capacity of the system is hindered. Significant water supply expansion is possible with radionuclide removal of Wells 3 and 4 at Well 4. The capacity expansion will eliminate the present deficit and position the Village for future growth.

Previous studies have determined that the hydrous manganese dioxide (HMO) treatment and filtration is the most cost-effective treatment method to remove radionuclides from Well Nos. 3 and 4. A pilot study is currently in place to determine the exact filter loading rate for this system. This filter loading rate resulting from the pilot study will be used as a basis for the detailed treatment system design.

With this treatment arrangement, there are many aspects to consider before detailed design and accurate cost estimating can take place. Considerations include, but are not limited to:

1. Should the existing blending system remain in place as a backup redundant system to radionuclide treatment for Well Nos. 3 and 4? Will the Wisconsin Department of Natural Resources (WDNR) allow the blending system to remain in place?
2. What are the hydraulic impacts of Well No. 3 pumping to Well No. 4 instead of to the system through the elevated storage tank at the site?
3. Should disinfection remain at Well No. 3 or should the disinfection system at Well No. 4 be expanded.
4. To what extent should the reservoir at Well No. 4 be expanded?
5. What is the optimal HMO system sizing at Well No. 4? Should the HMO system be sized for both well pumps operating at full capacity? Are there space constraints in the existing garage at Well No. 4 where the HMO treatment system is anticipated to be located?
6. How many additional booster pumps are required at Well No. 4? What are the hydraulic supply system impacts of more water being supplied to the system at Well No. 4 instead through Well Nos. 4 and Well No. 3?
7. What is the best way to provide booster pump flow metering at Well No. 4 with the building constraints?
8. Does the project budget allow for a new garage at Well No. 4?
9. What other building updates (e.g., painting, flooring, etc.) should be completed at Well No. 4?

This Task Order is to conduct a predesign study to answer these questions and more. The results of this study will be the foundation of the detailed design for the project taking place in the second half of 2023 and the first half of 2024. The study findings will be documented in a letter report. The study will also identify estimated project costs.

TASK ORDER

We will submit and receive WDNR approval of this study report. By having WDNR approval of the project predesign, it will facilitate the detailed design approval required by them in summer/fall of 2024. We anticipate public bidding to take place immediately after WDNR approval of the detailed design with a contract in place with the construction contractor by the end of 2024. Construction of the project would start in early spring 2025 and extend into 2026.

2. Services of Engineer

Our detailed scope of services is shown below:

Well No. 3	
1	Identify capacity of existing well pump when discharging to Well No. 4 while estimating head loss from a filtration system. Identify modifications to well pump if necessary. Use model if necessary.
2	Determine plan for mixer vault and associated piping. Coordinate with WDNR if they would allow the mixing vault to remain with the new HMO treatment system.
3	Coordinate sampling and testing for potential asbestos containing materials for existing ceiling materials.
4	Determine whether or not to keep disinfection equipment at the station. Coordinate with WDNR.
5	Identify additional improvements (electrical, architectural) and prepare preliminary cost estimate for all improvements at Well No. 3.
Well No. 4	
6	Determine extent of reservoir expansion.
7	Determine optimal sizing of HMO system based on pilot study results. Alternatives are sizing both wells at full speed, or both wells at reduced speed. Consider costs and space available in existing garage area to be repurposed to HMO Treatment Room. Prepare preliminary plan drawing of selected alternative.
8	Evaluate capacity of exiting sanitary sewer for discharge of backwash waste. Determine preliminary size of backwash equalization tank if necessary.
9	Determine optimal booster pump capacity. Determine the need for one or two additional booster pumps.- Conduct hydraulic modeling to identify changes to the water distribution system.
10	Determine if existing standby generator is large enough to handle loads from proposed improvements. Determine cost difference between locating a generator in a new building or addition, or outdoors. Review costs with Village.
11	Prepare preliminary sizing and develop preliminary cost estimate for a new garage south of the existing well station building. Review preliminary design and preliminary cost estimate with Village.
12	Assess condition of piping in reservoir. Make recommendation for repair or replacement.
13	Identify a preliminary design for adding a flow meter downstream of the booster pumps.
14	Prepare preliminary construction cost estimate for recommended improvements at Well No. 4
System	
15	Coordinate with the WDNR on the disconnection requirements for Well Nos. 5 and 6. Determine conceptual design. Conduct hydraulic modeling to determine changes to the water distribution system.
16	Prepare preliminary construction cost estimate for water distribution system improvements.
Administrative	
17	Have two review meetings with Village. One at 70% completion and one at 90% completion.
18	Prepare written report.
19	Submit report to WDNR for approval. Answer WDNR questions.
20	Present report findings at Village Board meeting.

TASK ORDER

3. Owner's Responsibilities

Provide water system information as needed. Provide feedback at review meetings.

4. Times for Rendering Services

<u>Phase</u>	<u>Completion Date</u>
Well Nos. 3 and 4 HMO Treatment Predesign Study	April 15, 2023

5. Payments to Engineer

A. Owner shall pay Engineer for services rendered as follows:

<u>Category of Services</u>	<u>Compensation Method</u>	<u>Lump Sum, or Estimate of Compensation for Services</u>
Well Nos. 3 and 4 HMO Treatment Predesign Study	Time and Materials	\$38,385.00

B. The terms of payment are set forth in the Standard Terms and Conditions.

6. Consultants

None.

7. Other Modifications to Standard Terms and Conditions

None.

8. Attachments

None.

9. Documents Incorporated by Reference

Ruekert & Mielke, Inc. / Village of Mukwonago Master Agreement

TASK ORDER

Terms and Conditions: Execution of this Task Order by Owner and Engineer shall make it subject to terms and conditions, (as modified above) set forth in the Master Engineering Agreement Amendment between Owner and Engineer, dated February 20, 2019, which are incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is _____, _____.

OWNER:

ENGINEER:

Village of Mukwonago

Ruekert & Mielke, Inc.

Signature: _____

Signature:  Digitally signed by Steven C. Wurster
Date: 2022.10.25 17:49:36 -05'00'

Name: _____

Name: Steven C. Wurster, P.E.

Title: _____

Title: Senior Vice President/COO

Date: _____

Date: October 26, 2022

DESIGNATED REPRESENTATIVE FOR TASK ORDER

Name: _____

Name: David W. Arnott, P.E.

Title: _____

Title: Team Leader/Senior Project Manager

Address: _____

Address: W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

Email: _____

Email: darnott@ruekert-mielke.com

Phone: _____

Phone: 262-953-3080

Fax: _____

Fax: 262-542-5631

MEMO

TO: Dave Brown
Utilities Director
Village of Mukwonago

FROM: Alan Labisch

DATE: November 19, 2021

SUBJECT: Wells No. 3 and 4 Radionuclide Removal Analysis

INTRODUCTION

The Village of Mukwonago owns and operates 5 municipal wells, two of which are much deeper than the others. Wells No. 3 and 4 are the Village's deepest and highest-yielding wells. Both contain natural amounts of radium 226 and 228, and strontium. Combined radium 226 and 228 are regulated at a maximum concentration of 5 pCi/L in community water systems, and strontium is unregulated but has an EPA health advisory limit of 4 mg/L.

An initial radium removal analysis was performed by R/M in February of 2019 to evaluate costs associated with providing treatment at Wells No. 3 and 4. It was mostly focused on HMO filtration, and it was recommended that the Village further evaluate providing radium removal treatment facilities for both Wells 3 and 4 at Well Station 4. After completion of the initial analysis, the Village expressed interest in analyzing more radium removal alternatives, leading to this follow-up analysis. In this exercise, we focused on a wider range of alternatives and provided consideration for strontium and other radionuclides in addition to radium 226/228.

The purpose of this analysis was to evaluate the potential of implementing a radionuclide removal facility to remove radium and other radionuclides from wells No. 3 and 4. Multiple alternatives were considered and compared, including Hydrous Manganese Oxide (HMO) filtration, Adsorption/WRT, Reverse Osmosis (RO), Ion Exchange, Membrane Softening, and Electrodialysis. Membrane Softening, Electrodialysis, and Ion Exchange were ruled out from further consideration early in the comparison due to cost.

To develop cost estimates for each alternative, capital costs (equipment and building footprint), and operational costs (chemical, energy, and waste disposal) were considered. R/M received baseline capital and operational costs for HMO and RO from a water filter manufacturer to aid with the estimating process. Detailed cost information can be found in appendix A.

FINDINGS SUMMARY

The costs of each alternative were compared, and the findings are summarized below in Table 1. For the purposes of this cost comparison, it was assumed that a new building would be constructed in each alternative, with the required building area determined by equipment size. The Village may be able to use the existing Well Station 4 as space for some or all of the radium removal equipment, which could reduce capital costs for each alternative.

A detailed comparison of advantages and disadvantages for each alternative is included in appendix A.

Table 1. Cost Estimate Summary for Radium Removal Alternatives

	HMO	RO	WRT *
Capital Cost	\$ 2,538,700	\$ 2,991,150	\$ 2,720,000
Annual Operational Cost	\$ 102,200	\$ 553,300	\$ 103,753
30 Year Life Cycle Cost	\$ 7,500,600	\$ 29,854,250	\$ 7,758,000

* WRT Uses different cost basis than other alternatives. See 'WRT' sheet in Appendix A for details.

RECOMMENDATIONS

After comparing the capital and operational costs of the different alternatives, it is determined that HMO Filtration is the most cost-effective in the short and long term. The estimated capital cost of HMO Filtration is the cheapest of the studied alternatives. The estimated annual operating cost of the HMO Filtration system is marginally cheaper than WRT, and significantly cheaper than RO. When projected as a 30-year cost, HMO Filtration is estimated to be about 22 million dollars cheaper than RO given the same flow rate and energy cost assumptions.

While HMO Filtration is the most cost-effective alternative for removing combined radium from wells 3 and 4, the detection of strontium in both wells No. 3 and 4 warrants consideration. Both R/M and the Village support planning for future potential strontium regulations. The HMO Filtration would not be designed to remove strontium from the water supply, as it would be dedicated to removing combined radium. While it could remove some strontium, it would not be very effective at it. In order to accommodate for this, additional space in the chosen site would serve future strontium removal equipment. This would include proper horizontal and vertical clearance for equipment skids and process piping, and depending on the chosen site, could include a knock-out wall for additional expansion. If other radionuclides are to be regulated in the future, the dedicated additional space in the HMO filtration facility could be used for more filtration equipment.

Reverse Osmosis is a unique alternative because it can remove radium, strontium, hardness, and more from the water supply. RO can remove virtually any contaminant that is physically larger than the pore size of the selected membrane. While RO would allow the Village to meet combined radium limits and offer the most flexibility and futureproofing when it comes to constituent removal, the very high operational costs make it a less desirable alternative. RO is limited to operating at high pressure differentials, usually above 100 psi, which results in a high energy cost. The high costs of RO outweigh its versatility and its removal efficiency for this application.

WRT, a water technology company, offers an adsorption system with contractual operation and waste management services, using a proprietary adsorption media called Z-88. This alternative is attractive because of the services offered by WRT. They will operate, handle, and maintain the filtration equipment, and dispose of fouled media in a licensed facility without Village utility staff needing to step in. Since utility staff would not have to operate the filtration equipment, it would free up time for staff to complete other tasks, and potentially reduce exposure to radionuclide waste. The conveniences of this alternative are contrasted by contract fees, long contract terms (reduced flexibility), reliance on a proprietary product, and potential long-term liability for media waste. Additionally, R/M understands that these contracts with WRT

involve some amount of payment per unit of water treated, meaning that variability in pumped water volume could greatly affect process fees.

The Village is well positioned to construct an HMO Filtration facility at or near Well Station 4 to serve Wells No. 3 and 4. The low capital and operational costs of HMO Filtration make it the most attractive option for removing combined radium from the water supply in the Village.

●AJL:vlf

Appendix A. Pros/Cons and Cost Estimate Information

Comparison of Treatment Alternatives for the Removal of Radium from Drinking Water

Treatment Alternative	Advantages	Disadvantages
Hydrous Manganese Oxide (HMO) Filtration	Also removes iron and manganese. Discharge is not concentrated. Removes up to 90% of radium. Low operation and maintenance requirements. Typically removes arsenic. Best for systems with existing filtration plants, like Mukwonago. Wastewater characteristics are not changed.	Need sanitary sewer capacity for backwash events. May need backwash holding tank. Does not typically remove Uranium. The dosing of HMO is delicate, too much can clog and too little will not remove enough. High levels of iron in the influent will compete for adsorption sites, reducing radium removal. Fouled filtration media must be landfilled.
Fixed Bed Adsorption (Barium Sulfate Salts, Zeolite, Etc.)	Simple treatment, no chemical addition. No liquid waste.	May have long term liability for media waste. Disposal costs can be high due to transport length and specialized disposal sites. No removal of iron or manganse. Radium waste is concentrated in the brine solution. May need additional adsorption system. Media is single use only and must be completely wasted after fouled. Adsorption media is often specific to one isotope (can't remove all radionuclides). Low minimum empty bed contact time means frequent replacement of media (expensive). Generally higher operating costs than Ion Exchange for radium removal. Hard to backwash, if possible at all, leading to potential build up of sediment in bed.
Ion Exchange	Efficient removal of radium. System could remove strontium and uranium depending on the resin Low power requirements for operation. Low operation and maintenance requirements. Hardness is reduced in treatment process. The resin can be recharged many times and rarely needs replacement.	High concentrations of sodium in wastewater. High concentrations of chlorides in wastewater. Corrosive nature of wastewater. The contaminant needs to be in the proper ionic form. Competition from other ions such as sulfate and hardness will reduce removal capacity.
Reverse Osmosis	System can remove virtually any contaminant larger than the membrane pore size. High level of treatment, listed as a best available technology. Removes 99%+ of all radionuclides.	High volume of waste/reject water. 10-70% of water input is wasted depending on pressure drop and membrane characteristics. High levels of radium and total dissolved solids in the waste stream and fouled membranes. Input stream usually requires pretreatment in order to mitigate fouling and scaling of membranes. High energy costs to maintain high pressures (100-150psi) inside membrane units. Some membranes are sensitive to chlorine. Requires careful and consistent monitoring of membranes and effluent parameters, as membranes are prone to fail. May significantly lower alkalinity, which could lower pH and increase corrosivity.
Membrane Softening	Similar to RO, can reach a high level of consituent removal.	High volumes of wastewater. High capital costs. High operational power consumption.
Electrodialysis	May also remove Uranium, arsenic, perchlorate, nitrate, and hardness. Can be highly automated.	High volumes of wastewater. High capital costs. High operational costs due to acid washing and high waste disposal costs. Complicated and very expensive relative to other alternatives.

Source: Environmental Protection Agency: https://cfpub.epa.gov/safewater/radionuclides/radionuclides.cfm?action=Rad_Treatment

Life Cycle Cost Analysis for Radium Removal Treatment Alternatives

Reverse Osmosis Process		2015 to 2021 rate adjustment =	1.203
<u>Cost Assumptions</u>			
Electricity	\$0.07 /kWh		
Wastewater	\$1.59 /Ccf		
TSS	\$0.67 /lb		
<u>Capital Costs</u>			
Est Capital Cost	\$890,000 /2000 gal		
<u>Operating Costs</u>			
RO Main Operation	\$801.10 /day		
=	\$292,401.50 /year		
Concentrate Processing	\$450.10 /day		
=	\$164,286.50 /year		
<u>Information from WaterSurplus</u>			
Vessel Orientation	Horizontal		
	Two skids with smaller backwash		
Configuration	skid		
Skid Length	67 inches		
Skid Depth	274 inches		
Skid Height	94 inches		
min Gap between skids	48 inches		
min Gap bw top and ceil	36 inches		
min Gap bw side edge and wall	48 inches		
min Gap bw main edge and wall	60 inches		
Budget Equipment Cost	\$ 975,000.00		
Filter SA	254.4 sqft		
Filter loading rate	7.47 gpm/sqft		
produced flow	1900 gpm/sqft		
backwash flow	395 gpm/sqft		
net flow	1505 gpm/sqft		
<u>Main Units footprint</u>			
Length	278 in		
Width	382 in		
Height	130 in		
Square Footage	737.47	sqft	
<u>Backwash Unit</u>			
Length	94 in		
Width	274 in		
Height	50 in		
Backwash unit square footage	178.86		
<u>Additional Space Required</u>			
Chemical Storage	48		
MCC	48		
Open Area/Piping Space	96		
Backwash Tank	50		
Total Square Footage	1158		
Rough building cost estimate	450 \$/sqft	incl foundation, floor, masonry, roof	
	\$ 521,250		

<u>Cost Summary</u>	
<u>CAPEX</u>	
Equipment	\$ 1,070,500
Installation & Wiring	\$ 321,200
Process Piping	\$ 107,100
Building	\$ 521,250
SCADA	\$ 40,000
Chemical Equipment	\$ 30,000
Backwash Tank	\$ 125,000
Site Work (Grading, Pavement,Erosion Control, Clearing & Grubbing)	\$ 100,000
Water Main Connections	\$ 70,000
Contingency, bonding, (30%)	\$ 606,100
Estimated Capital Cost	\$ 2,991,150
<u>Annual OPEX</u>	
RO Operation + Membrane Replace	\$ 351,700
Concentrate Processing	\$ 197,600
Repairs to System (not Membrane)	\$ 4,000.00
Estimated Annual OPEX	\$ 553,300.00
F=(P)*(((1+i)^n-1)/i)	
30 Year OPEX =	\$ 26,863,100
Total Cost over 30 Years	\$ 29,854,250

Life Cycle Cost Analysis for Radium Removal Treatment Alternatives

WRT Process

Parameter	#	Units	Comments
Capital Costs			Please note that all numbers in this estimate have been indexed from past quotes for a different system. It does not have the level of detail or accuracy as the other alternatives
Equipment	\$ 879,255		
Installation & Wiring	\$ 263,800		Info is From an older study in different community w/ similar pumping capacity. Not a current quote. Values are rough estimates.
Process Piping	\$ 88,000		
Building	\$ 700,000		
SCADA	\$ 40,000		
Chemical Equipment	\$ 50,000		
Site Work (Grading, Pavement,Erosion Control, Clearing & Grubbing)	\$ 50,000		
Water Main Connections	\$ 70,000		
Contingency, bonding, (30%)	\$ 579,400		
Estimated Capital Cost	\$ 2,720,455		
Operating Costs			
Average pumping volume	310 MG/Year		
% rated capacity from Wells 3+4	53%		
Average pumping volume from Wells 3+4 based on pump capacity ratio above	164 MG/Year		
WRT Unit Op Cost	0.62 \$/1000 gal		
WRT Labor Cost	\$ 2,080 /year	Assumes 1 man-hours a week at \$40/hr	
Annual Equipment Charge	\$ 101,673 \$		
Total operational cost	\$ 103,753 /year		
F=(P)*(((1+i)^n-1)/i)			
30 Year OPEX =	\$ 5,037,300		
Total Cost over 30 Years	\$ 7,757,755		

**WATER SUPPLY AND WASTEWATER
TREATMENT SYSTEM
CAPACITY ANALYSIS**

**VILLAGE OF MUKWONAGO
WAUKESHA COUNTY, WISCONSIN
MAY 2021**

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WATER SUPPLY AND WASTEWATER TREATMENT SYSTEM CAPACITY ANALYSIS

INTRODUCTION

The purpose of this analysis was to evaluate the capacity of both the wastewater treatment facility (WWTF) and water supply system to determine the available capacity to serve future developments

WASTEWATER TREATMENT PLANT CAPACITY ANALYSIS

Biochemical oxygen demand (BOD) is a common measure of the organic concentration of domestic wastewater. BOD will be used as an overall indicator of the wastewater treatment facility capacity. The Mukwonago WWTF has a BOD design capacity of 2,500 pounds per day.

Based on the 2017 WWTF Septage Receiving, Digester and Biosolids Update study from monthly discharge monitoring reports, it is estimated that the existing average BOD loading is approximately 1,719 pounds per day. This does not include the additional loading from septage and holding tank waste. Recently, the acceptance of septage and holding tank waste was suspended.

It is planned that the WWTF will accepted 3 million gallons per year of septage and holding tank waste. At a concentration of 3,000 mg/L BOD, this loading equates to approximately 208 pounds BOD per day.

The Village is presently in negotiations with CHR Hansen to move some of their manufacturing operations to the Village. CHR Hansen manufactures natural food coloring and dyes. CHR Hansen would move some of their manufacturing operations to the Village. The Village has indicated to CHR Hansen that they could treat a maximum of 150 pounds per day of BOD.

There are also numerous developments that are in various stages. The most advanced developments in the planning process are analyzed in the following section.

For the Maple Centre development there will be 675 total units. This includes 371 one-bedroom units, 204 two-bedroom units and 100 three-bedroom units. A factor of 1.25 people per unit will be used for the one-bedroom units. A factor of 2.5 people per unit is used for the two-bedroom and three-bedroom units. The total population from this development is therefore 1,249.

For the Chapman development, there will be 88 single family homes and 24 duplexes. This equals 136 dwelling units. With a factor of 2.5 people per dwelling unit, the total population will be 340.

The Minor development is planned to have 30 single family homes. Using a factor of 2.5 people per dwelling unit, the projected population is 75.

The Meadowland development is planned to have six duplexes which equals 12 dwelling units. Using the same population factor per dwelling unit, the planned population is 30.

The Edgewood Meadows development is planned to have 17 duplexes which equals 34 dwelling units. Using the same population factor per dwelling unit, the planned population is 85.

Table 1 shows the anticipated loading from each development. The organic loading is based on 0.2 pounds of BOD per person per day which is an industry standard.

Table 1 – Organic Loading From Planned Developments

Development	No. of Dwelling Units	Population	Pounds BOD Per Day
Maple Centre	675	1,249	250
Chapman	136	340	68
Minor	30	75	15
Meadowland	12	30	6
Edgewood Meadows	34	85	17
Total			356

CONCLUSION

Table 2 summarizes the existing condition and planned new loading with the WWTF accepting septage/holding tank waste, CHR Hansen loading, and all future developments previously described. Table 2 shows the design capacity of the WWTF and the remaining capacity of 67 pounds of BOD per day if all future components take place. The Village has decided that if additional capacity is needed before a significant WWTF expansion takes place, septage/holding tank waste loading would be reduced from reducing the volume of this waste accepted.

Table 2 – BOD Loading Summary

Component	BOD Loading (Pounds Per Day)
Existing	1,719
Septage/Holding Tank Waste	208
CHR Hansen	150
Future Developments	356
Subtotal	2,433
WWTF Capacity	2,500
Remaining Capacity if All Components Happen	67

The remaining capacity of 67 pounds of BOD per day equates to an additional population of 335 people.

WATER SYSTEM CAPACITY ANALYSIS

The analysis includes the evaluation of the capacity of the Village's water supply, pumping and storage facilities in order to determine if there is surplus capacity available to serve additional customers. Also included is determining the ability of the distribution system to convey water to different areas within the Village and to the boosted pressure zone on the south end of the Village.

EXISTING FACILITIES

The Village's water facilities (excluding the distribution system) includes wells, pumping stations and storage tanks. Pumping equipment is located at each well. There also is a pressure boosting pumping station to serve the Tax Incremental District (TID) No. 5 and future development to the south. The capacities of the existing facilities and the pressure boosting station are shown in Tables 3 through 5.

Table 3 - Well Pumping Stations

Facility I.D.	Well Capacity				On-Site Storage (mg)	Service Pump Capacity (mgd)	
	Rated		Actual			Pump 1	Pump 2
	(gpm)	(mgd)	(gpm)	(mgd)			
Well 3	900	1.30	850	1.22			
Well 4	1,000	1.44	1,000	1.44	0.33	1.22	1.22
Well 5	900	1.30	700	1.01			
Well 6	350	0.50	300	0.43			
Well 7	684	0.98	650	0.94			

Table 4 - Elevated Tanks

Facility I.D.	Volume (mg)
North	0.50
South (I-43)	0.50

Table 5 - Pressure Boosting Station

Facility I.D.	Pump Capacity	
	(gpm)	(mgd)
Pump 1	100	0.14
Pump 2	350	0.50
Pump 3	350	0.50
Pump 4	700	1.01
Pump 5	1,000	1.44
Pump 6	1,000	1.44
Pump 7 (Future)	1,000	1.44

PROJECTED WATER DEMANDS

Projected water demands were determined from statistics for water consumption obtained from the Wisconsin Public Service Commission (WPSC) for the years 2011-2018. Average and maximum day water use from 2011 to 2018 is show in Table 6. Of note is water consumption in 2012. There was a long period of hot, dry weather in June of that year. Both the total volume pumped for the year and, more importantly,

the maximum day pumped volume were significantly higher than other years. A similar stretch of hot, dry weather now or in the future can be expected to result in similar rates of consumption.

Table 6 - Village of Mukwonago Water Use 2011 to 2018

Year	Water Use, MG			Max. Day Date	Max./Avg. Day Ratio	Reason for Max. Day Pumpage
	Total Pumped	Avg. Day	Max. Day			
2018	267	0.73	1.48	7/10/18	2.03	Hot weather & Construction
2017	255	0.70	1.15	8/14/17	1.65	Hydrant hit by car
2016	259	0.71	1.96	8/9/16	2.77	Filling retention pond
2015	239	0.65	1.27	9/24/15	1.94	High usage
2014	216	0.59	0.96	7/19/14	1.62	High usage
2013	237	0.65	1.10	5/21/13	1.69	High usage
2012	296	0.81	1.72	6/22/12	2.13	Hot & dry weather
2011	271	0.74	1.31	1/8/11	1.77	Water main break

The average customer consumption rate was calculated based on the average number of residential customers and annual metered residential consumption. The average annual residential water use from 2011 to 2018 is summarized in Table 7.

Table 7 - Average Residential Consumption

Year	Population Served	Average No. of Residential Customers	Annual Metered Residential Consumption (mg/year)	Average Per Customer Residential Consumption (gal/day)
2018		2,535	114,587	124
2017		2,464	114,737	128
2016		2,411	118,409	134
2015		2,368	116,012	134
2014	7,507	2,311	109,764	130
2013	7,430	2,255	110,914	135
2012	7,390	2,225	125,512	154
2011	7,375	2,208	115,322	143

Current average day and maximum day design demands were determined using demand information from 2012 and adding the projected increase in demand due to the increase in residential customers. It is assumed that a residential customer consumes an average of 150 gallons/day and 3 times that on a maximum day. The number of residential customers has increased from 2,225 to 2,335 in 2018. The estimated increase in average day and maximum day demands from 2012 are 0.05 mgd and 0.14 mgd respectively. Based on this increase, the current average day and maximum day design values used in this evaluation are 0.86 mgd and 1.86 mgd respectively. While pumping volumes have been lower in subsequent years, these volumes will be used to check the adequacy of the existing facilities to meet projected demands.

ANALYSIS METHODOLOGY

Water system supply, pumping and storage facilities work together to provide the capacity needed to meet customer demands. Specific criteria have been developed to determine the adequacy of water system facilities. These criteria are described below. See Appendix A for a more complete explanation of the criteria, including an example calculation. These criteria assume supply is provided by groundwater wells.

ANALYSIS CRITERIA

The water system capacity is evaluated using the following four criteria:

1. Well Pump Capacity

There should be sufficient well pump capacity to supply the peak day pumpage volume with the largest capacity or most critical well pump inoperable.

2. Peak Hour Storage Capacity

There should be sufficient storage volume to provide the difference between the peak hour rate and the peak day rate for a duration of 4 hours. Excess well supply capacity can be applied to satisfy this criteria.

3. Fire Flow Storage Capacity

There should be sufficient pumping and storage capacities to provide the recommended fire flow rate and duration. It is assumed that pumpage at the peak hour rate for a duration of 4 hours immediately precedes the fire flow event and a concurrent peak day demand rate occurs during the fire flow event.

4. Emergency Supply Capacity

There should be sufficient elevated storage volume and pumping facilities equipped with auxiliary power to provide an average day pumpage volume.

Based on these criteria, an analysis was performed to determine the adequacy of the Village's water supply, pumping and storage facilities. The most critical criteria for the Village is well pump capacity. While Well 4 has the greatest capacity (1,000 gpm/1.44 mgd) it is Well 5 (700 gpm/1.01 mgd) that is most critical. This is because Wells 3 and 4 produce water which exceeds the allowable limit for radium. Wells 3 and 4 draw water from the deep sandstone aquifer. This aquifer underlines southeastern Wisconsin and in most locations produces water containing naturally occurring radium. Wells 5 and 6 draw water from the shallow sand and gravel aquifer.

Water in this aquifer contains little or no radium. Wells 5 and 6 were constructed to provide a radium free source of water to blend with water from Wells 3 and 4. At a blending ratio of about 50/50, the blended water complies with the radium standard.

Well 5 is the most critical well because its loss indirectly reduces the flow rate available from Wells 3 and 4. Without Well 5, only Well 6 (300 gpm/0.43 mgd) is available to blend with Wells 3 and 4. The loss of Well 5 would significantly reduce the volume of radium compliant water available to meet customer demands.

ANALYSIS RESULTS

The table below shows the adequacy of the existing facilities to meet current potential demands based on the analysis criteria.

<u>Criteria</u>	<u>Excess Capacity</u>
Well Pump	-0.06 MGD
Peak Hour Storage	0.59 MG
Fire Flow Storage	0.19 MG
Emergency Supply	3.10 MG

Assumptions

1. Average day pumping volume = 0.86 MG
2. Maximum day pumping volumes = 1.86 MG

As can be seen in the table, currently there is a slight deficiency in the well pump capacity. The calculation assumes the loss of Well 5 during an extended period of hot, dry weather. While the odds of this occurring are not great, well pumps can and do break down with no notice. Also, shallow wells like Village Wells 5, 6, and 7 are more subject to contamination from man-made sources than are deep Wells 3 and 4. A leak in a buried gasoline tank at a nearby filling station could render Well 5 unusable for an extended time period.

The above table shows the water system facilities currently have surplus capacity with respect to the peak hour, fire flow and emergency supply criteria. More detail on the analysis calculations is shown in Appendix B.

DISTRIBUTION SYSTEM CAPACITY ANALYSIS

Using a software modeling program, the capacity of the distribution system was analyzed at three locations where future growth is anticipated within the Main Pressure Zone. The total available capacity at these locations was determined based on providing a minimum residual pressure of 40 psi at all locations within the existing distribution system during an existing maximum day demand scenario. The total available capacity includes both consumer demand and available fire flow.

The analysis assumes that no pumps are running with all water being supplied by elevated tanks. This is the normal assumption used when determining available fire flows because it is not known which pumps will be available and running during a fire emergency. The water level in the elevated tanks is assumed to be 10 feet below the overflow elevation.

The total available capacities provided in the following sections are the theoretical values that are available at the indicated locations. The actual total available capacity is dependent on the proposed development topography, existing infrastructure, and proposed infrastructure. Additional modeling and field testing should be performed to determine the actual capacity at these locations.

Capacity Analysis No. 1

A capacity analysis was performed for the 12-inch water main located east of the intersection of Grey Fox Trail and Edgewood Avenue. The available capacity at this location is approximately 1,500 gpm at a residual pressure of approximately 64 psi. Demands greater than 1,500 gpm at this location would result in the pressures east of the intersection of Summit Ct. and Riverton Drive North dropping below 40 psi.

Capacity Analysis No. 2

A capacity analysis was performed for the 12-inch water main located at the intersection of STH 83 and Black Bear Blvd. The available capacity at this location is approximately 1,000 gpm at a residual pressure of approximately 51 psi. Demands greater than 1,000 gpm at this location would result in the pressures at the intersection of West Veterans Way (CTH NN) and Pinehurst Drive dropping below 40 psi.

Capacity Analysis No. 3

A capacity analysis was performed for the 16-inch water main located on Maple Avenue north of the proposed booster pumping station. The available capacity at this location is approximately 3,000 gpm at a residual pressure of approximately 59 psi. Demands greater than 3,000 gpm at this location would result in the pressures at the intersection of West Veterans Way (CTH NN) and Pinehurst Drive dropping below 40 psi.

Boosted Pressure Zone

The Boosted Pressure Zone is supplied by the Main Pressure Zone using a pumping station. The pumping station is supplied from a 16-inch diameter water main located on Maple Avenue. The future average and maximum day demand of the area to be served by the booster station is estimated to be 1.17 mgd (812 gpm) and 2.34 mgd (1,625 gpm) respectively. The capacity of the Boosted Pressure Zone is determined by the available supply capacity of the Main Pressure Zone and the initial capacity of the proposed pumping station.

The initial capacity of the pumping station is based on providing a fire flow of 2,500 gpm. As the consumer demand in the Boosted Pressure Zone increases, the available fire flow capacity provided by the pumping station will decrease. An additional 1,000 gpm pump will be provided in the pumping station when the maximum day demand of the Boosted Pressure Zone approaches 1,000 gpm. When the future pump is added the booster station will still be able to provide a fire flow of 2,500 gpm at maximum day demand. An elevated storage tank will need to be provided when there are approximately 50 customers in the service area or when the boosted pressure zone maximum day demand exceeds 1,000 gpm (1.44 mgd).

CONCLUSIONS

While the Village has excess water supply capacity when all wells are functioning, the available capacity drops significantly if Well 5 is out of service. Without Well 5, the combined pumping rates of Wells 3 and 4 must be reduced in order to maintain compliance with the radium standard.

The distribution system generally is capable of conveying water from the pumping stations and elevated tanks to where the water is needed. At fire flow rates, customers located at high elevations will see pressure drop below 40 psi. The two affected high elevation areas are the United Church of Christ church on West Veterans Way and area around the intersection of Riverton Drive and Summit Court. This situation is not a concern.

Service to customers located east of Fox River is provided by a single water main crossing the river on CTH ES. A main break or other event requiring closing off this main would result in the loss of service to a number of customers.

A capacity analysis was performed with the assumption that radium treatment was constructed at Well 4. The analysis results are shown below and in more detail in Appendix C.

<u>Criteria</u>	<u>Excess Capacity</u>
Well Pump	1.74 MGD
Peak Hour	0.81 MG
Fire Flow	0.71 MG
Emergency Supply	5.33 MG

Assumptions

1. Average day pumping volume = 0.86 MG
2. Maximum day pumping volumes = 1.86 MG

The 1.74 MGD (1,229 gpm) of excess well pump capacity provided by adding radium treatment at Well 4 would allow service to an additional 3,900 residential customers or their equivalent in multi-family, commercial and industrial customers.

An additional evaluation was performed by projecting demands through the year 2025 based on the current developments being proposed in the Village. Demands were associated with the proposed developments based on land use. Average day water use demand criteria used in projecting the demands is summarized in Table 8. A maximum day to average day demand peaking factor of 3.0 was used to determine maximum day demands for residential customers. A maximum day to average day demand placing factor of 2.0 was used to determine maximum day demands for industrial customers.

Table 8 - Water Use Design Criteria

Land Use Classification	Water Use gpd^(a)
Single Family Residential (SFR)	150
2-Family Residential	300
Multi-Family Residential (MFR)	
1-Bed Apt. (50% SFR)	75
2-Bed Apt. (75% SFR)	112.5
3-Bed Apt. (100 % SFR)	150
Industrial Water Use, gpad	500

(a) Unless indicated otherwise

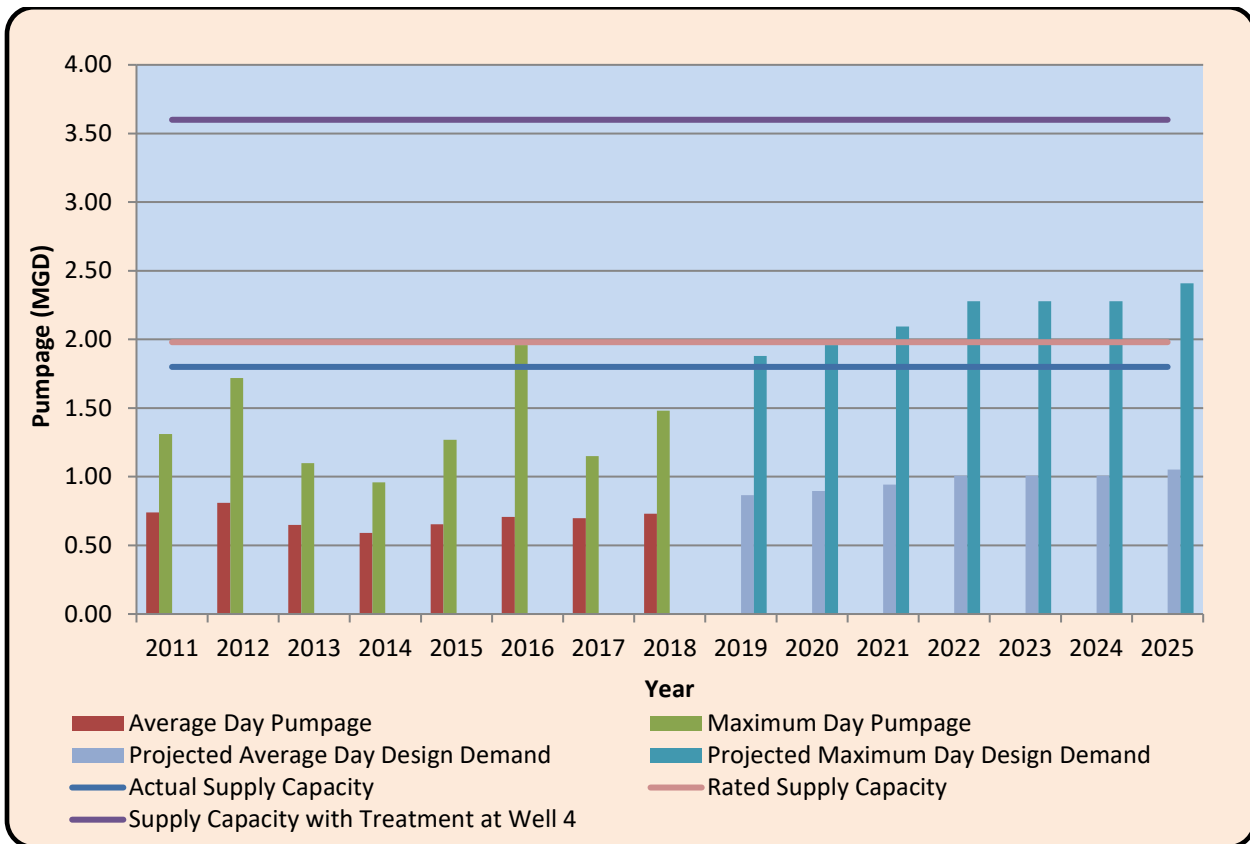
The projected demands for each development and the year in which the demand is expected is summarized in Table 9.

The projected water use was based on preliminary dwelling type information. Based on preliminary information, and assuming all proposed developments are fully developed, the average day and maximum day demands are expected to increase 0.20 mgd and 0.55 mgd, respectively by the year 2025. The projected water use based on the proposed developments is shown in Figure 1.

TABLE 9 - Proposed Development Projected Water Use

Development	Additional Water Use, gpd						
	2019	2020	2021	2022	2023	2024	2025
Maple Center	0	0	32,850	32,925	0	0	0
Chapman Farms	0	7,800	0	12,600	0	0	0
Minor Estates	0	0	6,900	0	0	0	0
Meadowland Apartment	0	1,800	0	0	0	0	0
Edgewood Meadows	0	2,700	2,400	0	0	0	0
Great Life	0	0	0	5,325	0	0	0
Siewert	0	0	0	0	0	0	43,425
Phantom Lakes Preserve	0	3,000	0	0	0	0	0
Edgewood Villages	0	3,375	0	0	0	0	0
TID No. 5 Business Park	10,350	10,950	4,550	15,750	0	0	0
Average Day Use, gpd	10,350	29,625	46,700	66,600	0	0	43,425
Cumulative Average Day Water Use, mgd	0.01	0.04	0.09	0.15	0.15	0.15	0.20
Maximum Day Use, gpd	20,700	77,925	135,550	184,050	0	0	130,275
Cumulative Maximum Day Water Use, mgd	0.02	0.10	0.23	0.42	0.42	0.42	0.55

FIGURE 1 – Projected Water Use and Supply Capacity



RECOMMENDATIONS

The supply capacity recommendations are based on the rated capacities of the wells and do not take into account hydraulic restrictions, equipment performance, radium compliance, or maintenance issues that restrict the supply capacity of the wells. The recommended way to increase the water supply capacity is to construct a radium removal treatment facility at Well 4. Currently, there is a 12-inch "blending" water main that is constructed from Well 3 to Well 4 which would allow water to be pumped directly from Well 3 to a treatment facility at Well Station 4. Use of this water main would allow water from both Well 3 and 4 to be treated at a common radium removal treatment facility.

The analysis of adequacy with respect to well pump capacity assumes the highest capacity or most critical well is out-of-service. Well 5 currently is the most critical well because its loss also significantly reduces the ability to use Well 3 and 4. With treatment installed to remove radium from Well 3 and Well 4, water produced by the wells will not require blending in order to be in compliance with the radium standard. In this case, even with the loss of Well 4 (which would be the highest capacity well), the total capacity available would increase from 1.80 MGD to 3.60 MGD. This is because Well 3 could be pumped at full capacity along with Wells 5 and 6.

Providing radium removal treatment for only Well 4 would increase the theoretical total capacity available from 1.80 MGD to 3.38 MGD. This is less than providing treatment for Wells 3 and 4 because the capacity of Well 3 would still need to be reduced in order to blend with Wells 5 and 6. However, the actual total capacity, would be less than the theoretical due to hydraulic limitations associated with the current discharge piping and mixing system that prevent Well No. 3 from being pumped at full capacity when blending with water from Wells 5 and 6.

A radium removal treatment cost analysis was performed in February of 2019 to evaluate the costs associated with providing treatment at Well 4 and for providing treatment for Wells 3 and 4. A copy of the radium removal treatment cost analysis is included in Appendix D. It is recommended that the Village further evaluate providing radium removal treatment facilities for both Wells 3 and 4 at Well Station 4. The evaluation should include consideration of the likelihood of approval by the Public Service Commission for treatment for Well 4 or treatment for Wells 3 and Well 4.

Another option for increasing well pump capacity is to drill additional shallow wells, which do not have radium. However, as was the case for Village Well 7, searching for a site upon which a high capacity shallow well can be drilled is time consuming and success cannot be guaranteed. While a shallow well will not need treatment to remove radium, treatment to remove iron may be recommended for aesthetic reasons.

As customers are added east of the Fox River, consideration should be given to improving service reliability by constructing a second water main across the river. If service is extended to higher elevation areas near the northwest portion of the Village, consideration should be given to establishing a boosted pressure zone to serve these areas.

APPENDIX A

Methodology for Analyzing Capacities of Groundwater Supplied Systems

APPENDIX A

Methodology for Analyzing Capacities of Groundwater Supplied Systems

System capacity is expressed using the following four criteria:

1. Well Pump Capacity
2. Peak Hour Storage Capacity
3. Fire Flow Storage Capacity
4. Emergency Supply Capacity

These capacities are determined by comparing average day and peak day pumpage volumes against combinations of well, pumping and storage volumes. A description of each criteria and a sample calculation follow. For the sample calculation, it will be assumed that a water utility has the following facilities:

Unit Well 1

Includes a 500 gpm (0.72 MGD) well pump which discharges directly to the distribution system. A natural gas-fueled engine and right-angle drive unit can operate the well pump during electric power outages.

Unit Well 2

Includes a 300 gpm (0.43 MGD) well pump which discharges into an on-site reservoir having a gross storage volume of 400,000 gallons. Three 400 gpm service pumps draw water from the reservoir and discharge to the distribution system. An on-site diesel-fueled engine-generator set has enough capacity to operate the entire facility during electric power outages.

Unit Well 3

Includes a 750 gpm (1.08 MGD) well pump which discharges directly to the distribution system. No equipment is on-site to operate the pump during electric power outages.

Elevated Storage

A spheroid-style tank has a gross capacity of 250,000 gallons and a total head range of 31 feet.

The projected average day and peak day pumpages are 0.50 MG and 0.90 MG, respectively. The recommended fire flow supply is 3500 gpm (5.04 MGD) for 3 hours.

Well Pump Capacity

There should be sufficient well pump capacity to supply the peak day pumpage volume with the largest capacity well pump inoperable.

Many utilities have distribution systems which are separated into pressure zones. Transfer stations are required to allow controlled transfer of water between pressure zones. Transfer stations may include pumps, meters and controllable valves. Without transfer stations, excess well capacity within one pressure zone would not be available to satisfy water demands in other pressure zones. It will be assumed that transfer stations exist or will be constructed to allow transferring water between pressure zones at rates sufficient to allow continuous operation of all well pumps.

Example calculation. There are a total of 3 wells having capacities of 300 gpm, 500 gpm and 750 gpm. Assuming the 750 gpm pump is inoperable, the remaining capacity is $300 + 500 = 800 \text{ gpm} = 1.15 \text{ MGD}$. If the needed peak day pumpage is 0.90 MG, the surplus available is $1.15 - 0.90 = 0.25 \text{ MGD}$.

Peak Hour Storage Capacity

One purpose of storage is to have water available to meet limited duration peak water demand rates.

Storage can be provided by an elevated tank, in which case it will be assumed that the rate at which the tank can supply water is unlimited. Repump storage refers to tanks from which pumps draw suction and discharge to the distribution system. For repump storage, the rate at which water can be delivered to the distribution system is determined by the aggregate capacity of the pumps. The volume a repump storage tank can provide is determined by the aggregate pump-out rate and the time period during which the pumps operate.

Water demand typically varies over any 24 hour long period, with higher demand rates normally occurring during the day and lower rates at night. This means that on the day of peak demand for the year, there will be time periods during which the demand rate exceeds the average rate for the peak day.

The storage volume needed to satisfy the Peak Hour Storage criteria is defined as the difference between the Peak Hour rate and the Peak Day rate for a duration of 4 hours. A Peak Hour rate of 2.0 times the Peak Day rate will be used for small systems. A Peak Hour rate of 1.75 times Peak Day rate will be used for larger systems identified as Class AB by the Wisconsin Public Service Commission.

Example calculation. The Peak Hour rate would be $2 \times \text{Peak Day rate}$ or $2 \times 0.90 \text{ MGD} = 1.80 \text{ MGD}$. The difference between the Peak Hour rate and the Peak Day rate is $1.80 - 0.90 = 0.90 \text{ MGD}$. The needed volume is determined by the 4 hour duration or $0.90 \times 4/24 = 0.15 \text{ MG}$.

If the aggregate well capacity exceeds the Peak Day demand rate, the surplus well capacity is available to help satisfy the Peak Hour Storage criteria. In the example, there is a surplus 0.25 MGD of well capacity. The volume available over a 4 hour period is $0.25 \text{ MG} \times 4/24 = 0.04 \text{ MG}$.

Usable storage volume for a repump tank is assumed to be 75% of gross volume.

For Unit Well 2, the aggregate service pump rate is $3 \times 400 \text{ gpm} = 1200 \text{ gpm}$. The input rate is 300 gpm, so the net pump-out rate is $1200 - 300 = 900 \text{ gpm} = 1.30 \text{ MGD}$. The net pump-out volume over a 4 hour period is $1.30 \times 4/24 = 0.22 \text{ MG}$. The usable storage volume is $0.40 \text{ MG} \times 0.75 = 0.30 \text{ MG}$. The usable storage volume exceeds the net volume which can be pumped from the reservoir during the 4 hour time period. The lesser of these volumes (0.22 MG) can be assigned to meet the Peak Hour Storage criteria.

For elevated storage tanks, it will be assumed that the available storage volume is that contained in the top 20 feet of the tank head range less 10 percent.

For the example 250,000 gallon spheroid tank, the volume contained in the top 20 feet of head range is 0.19 MG. Ninety percent of this volume is 0.17 MG.

The total volume available to satisfy the Peak Hour Storage criteria is therefore $0.04 + 0.22 + 0.17 = 0.43 \text{ MG}$. The needed volume is 0.15 MG, so the available surplus is $0.43 - 0.15 = 0.28 \text{ MG}$.

Fire Flow Storage Capacity

The Insurance Services Office (ISO) is a private firm which, among other activities, assists insurance carriers with determining appropriate premium amounts for various types of insurance. The ISO publishes guidelines which include recommended needed fire flow supplies for individual buildings. The recommended fire flow supply for a building is based on its size, materials of construction and other

factors. For most community water systems, the recommended fire flow supply is 3500 gpm for 3 hours. For very small systems, the recommended supply is 2500 gpm for 2 hours.

To calculate the needed Fire Flow Storage volume, it will be assumed that a 4 hour long Peak Hour demand rate is followed by a fire flow demand. During the fire flow demand period, the assumed concurrent demand will be the peak day demand rate. For the example, the needed Fire Flow Storage volume is calculated as follows:

$$(\text{Peak Hour Rate} \times 4/24) + (\text{Fire Flow Rate} \times \text{Fire Flow Duration}) + (\text{Peak Day Rate} \times \text{Fire Flow Duration}) \\ = (1.80 \times 4/24) + (5.04 \times 3/24) + (0.90 \times 3/24) = 1.04 \text{ MG.}$$

The volume available to satisfy the needed Fire Flow Storage includes pumpage from wells, pumps drawing from repump storage tanks and elevated tanks. For wells, it is assumed that the largest capacity well is inoperable. For elevated tanks, the usable volume is that contained in the top 55 feet of head range less 10 percent. For the example, the usable elevated tank storage volume would be $0.25 \times 0.90 = 0.22 \text{ MG}$.

Similar to the calculations for repump storage for the Peak Hour Storage criteria, available repump storage may be limited by either the usable storage volume or by the ability of the pumps to empty the tank within the available time period. The usable volume is assumed to be 75% of the gross volume, or, for the example, $0.40 \text{ MG} \times 0.75 = 0.30 \text{ MG}$. For the example, the aggregate repump capacity is $1200 - 300 = 900 \text{ gpm} = 1.30 \text{ MGD}$. The time duration is 7 hours, so the pump-out capacity is $1.30 \times 7/24 = 0.38 \text{ MG}$. Since the usable tank volume is only 0.30 MG, this smaller volume is the quantity available.

For the example, the total available Fire Flow Storage volume is calculated as follows:

Aggregate Well Pump Capacity + Repump Storage Volume + Elevated Tank Volume

$$(0.72 + 0.43) \times 7/24 + 0.30 + 0.22 = 0.86 \text{ MG}$$

Surplus Fire Flow Storage Volume = $0.86 - 1.04 = -0.18 \text{ MG}$. The negative sign indicates a deficiency.

Emergency Supply Capacity

The needed Emergency Supply Capacity is assumed to be an average day pumpage. Only elevated storage and pumping facilities equipped with auxiliary power are available to satisfy the Emergency Supply Capacity. In the example, Unit Wells 1 and 2 are equipped with auxiliary power. Unit 1 is simply an engine directly driving the well pump which discharges into the distribution system. Its capacity is the well capacity of $500 \text{ gpm} = 0.72 \text{ MGD}$.

At Unit Well 2, an engine-generator set has sufficient capacity to power the entire station. The station capacity available to satisfy the Emergency Supply criteria is the well capacity ($300 \text{ gpm} = 0.43 \text{ MGD}$) plus the available storage volume. The available storage volume is the lesser of the usable volume or the net pump-out volume, which is the aggregate pump-out capacity minus the well capacity over the one day duration. For the example, the usable volume is 75% of the gross volume ($0.40 \text{ MG} \times 0.75 = 0.30 \text{ MG}$), which is less than the net pump-out volume of $1200 - 300 = 900 \text{ gpm} = 1.30 \text{ MG}$.

Elevated storage available to satisfy the Emergency Supply criteria is that contained in the top 55 feet of head range less 10 percent. For the example, this is $0.25 \times 0.90 = 0.22 \text{ MG}$.

So, for the example, the available Emergency Supply is $0.72 + 0.43 + 0.30 + 0.22 = 1.67$

Surplus capacity = $1.67 - 0.50 = 1.17 \text{ MG}$.

APPENDIX B

Existing Capacity Evaluation

Pressure Zone Analysis													
Pressure Zone I.D.		Village of Mukwonago											
2018 average and maximum day volumes used on records for 2012, which had hot and dry conditions.													
Zone Data													
Average Day Pumpage (MG):		0.86				Total Well Pump Capacity (MGD):		2.81					
Peak Day Pumpage (MG):		1.86				Largest Well Pump Capacity (MGD):		1.01					
Peak Hour/Peak Day ratio		2.00				Total Less Largest Well Pump Capacity (MGD):		1.80					
Fire Flow Rate (gpm):		3500				Well Pump Surplus Capacity (MGD):		-0.06					
Fire Flow Duration (hr):		3				Surplus Peak Hour Storage (MG):		0.59					
Elevated tank overflow elevation (ft. amsl):						Surplus Fire Flow Storage (MG):		0.19					
Highest elevation served by tank (ft. amsl):						Surplus Emergency Supply (MGD):		3.10					
Gross elevated storage volume (MG):		1.00											
Available nonemergency elevated storage volume (MG):		0.66											
Available emergency elevated storage volume (MG):		0.90											
Transfer capacity into zone (MGD):													
Unit Well Data													
Unit Well I.D. #		3				Gross Repump Storage Capacity (MG)		Available Repump Storage Capacity (MG)		Available Storage Volume			
		WP 1 Capacity (MGD)	WP 2 Capacity (MGD)	WP 3 Capacity (MGD)	SP 1 Capacity (MGD)	SP 2 Capacity (MGD)	SP 3 Capacity (MGD)	SP 4 Capacity (MGD)	SP 5 Capacity (MGD)	Peak Hour Volume (MG)	Fire Flow Volume (MG)	Emergency Volume (MGD)	
Normal power		0.22								0.00	0.00		
Emergency power		0.22								0.00		0.00	
Unit Well I.D. #		4				Gross Repump Storage Capacity (MG)		Available Repump Storage Capacity (MG)		Available Storage Volume			
		WP 1 Capacity (MGD)	WP 2 Capacity (MGD)	WP 3 Capacity (MGD)	SP 1 Capacity (MGD)	SP 2 Capacity (MGD)	SP 3 Capacity (MGD)	SP 4 Capacity (MGD)	SP 5 Capacity (MGD)	Peak Hour Volume (MG)	Fire Flow Volume (MG)	Emergency Volume (MGD)	
Normal power		0.22			1.22	1.22				0.33	0.25		
Emergency power		0.22			1.22	1.22				0.33	0.25	0.25	
Unit Well I.D. #		5				Gross Repump Storage Capacity (MG)		Available Repump Storage Capacity (MG)		Available Storage Volume			
		WP 1 Capacity (MGD)	WP 2 Capacity (MGD)	WP 3 Capacity (MGD)	SP 1 Capacity (MGD)	SP 2 Capacity (MGD)	SP 3 Capacity (MGD)	SP 4 Capacity (MGD)	SP 5 Capacity (MGD)	Peak Hour Volume (MG)	Fire Flow Volume (MG)	Emergency Volume (MGD)	
Normal power		1.01								0.00	0.00		
Emergency power		1.01								0.00		0.00	
Unit Well I.D. #		6				Gross Repump Storage Capacity (MG)		Available Repump Storage Capacity (MG)		Available Storage Volume			
		WP 1 Capacity (MGD)	WP 2 Capacity (MGD)	WP 3 Capacity (MGD)	SP 1 Capacity (MGD)	SP 2 Capacity (MGD)	SP 3 Capacity (MGD)	SP 4 Capacity (MGD)	SP 5 Capacity (MGD)	Peak Hour Volume (MG)	Fire Flow Volume (MG)	Emergency Volume (MGD)	
Normal power		0.43								0.00	0.00		
Emergency power		0.43								0.00		0.00	
Unit Well I.D. #		7				Gross Repump Storage Capacity (MG)		Available Repump Storage Capacity (MG)		Available Storage Volume			
		WP 1 Capacity (MGD)	WP 2 Capacity (MGD)	WP 3 Capacity (MGD)	SP 1 Capacity (MGD)	SP 2 Capacity (MGD)	SP 3 Capacity (MGD)	SP 4 Capacity (MGD)	SP 5 Capacity (MGD)	Peak Hour Volume (MG)	Fire Flow Volume (MG)	Emergency Volume (MGD)	
Normal power		0.94								0.00	0.00		
Emergency power		0.94								0.00		0.00	
The most critical source is Well 5. Water from Wells 5 & 6 normally is blended with that from Wells 3 & 4, which contain radium. If Well 5 is inoperable, only Well 6 is available to blend with Wells 3 & 4. The analysis assumes Well 5 is inoperable, so the combined discharge rates of Wells 3 & 4 is reduced to match remaining Well 6.													

APPENDIX C

Proposed Capacity Evaluations

APPENDIX D

Radium Removal Treatment Cost Analysis

W233 N2080 Ridgeview Parkway • Waukesha, WI 53188-1020 • Tel. (262) 542-5733

TO: Mr. Dave Brown, Utility Director

FROM: Ryan Schultz, P.E.

DATE: February 25, 2019

SUBJECT: Village of Mukwonago – Radium Removal Treatment Cost Analysis

The Village of Mukwonago's water supply system includes five groundwater wells. Wells No. 3 and No. 4 draw water from the deep sandstone aquifer. Wells No. 5, No. 6, and No. 7 draw water from the shallow sand and gravel aquifer. Water pumped from Well No. 3 and Well No. 4 exceeds the maximum contaminant Level (MCL) for radium. Currently, the Village of Mukwonago blends water from Wells No. 5 and Well No. 6 with water from Wells No. 3 and No. 4 to maintain compliance with the radium standard.

A Water System Capacity Analysis completed by Ruekert & Mielke, Inc. in September of 2018 recommended increasing the systems supply capacity by constructing radium removal treatment equipment at Well Station No. 4. The Village of Mukwonago has requested Ruekert & Mielke, Inc. provide budgetary costs for two radium removal treatment alternatives at the existing Well No. 4 site. Alternative No. 1 includes providing radium removal treatment for water pumped from Well No. 4. Alternative No. 2 includes providing radium removal treatment for water pumped from Wells No. 3 and Well No. 4.

Water System Supply Capacity

The Water System Capacity Analysis identified the Village of Mukwonago's current average and projected maximum day pumping volumes to be 0.85 and 1.83 million gallons (mg), respectively. The reliable supply capacity with the most critical well out-of-service is shown in Table 1. Current blending operations do not allow for Well Pumps No. 3 or No. 4 to operate at the same time. As shown in Table 1, the existing water system's reliable supply capacity with either Well Pump No. 3 or Well Pump No. 4 in operation is approximately 1,250 gpm (1.80 mgd). Providing radium removal treatment for Well No. 4 increases the reliable supply capacity to 2,350 (3.38 mgd). Providing radium removal treatment for Wells No. 3 and Well No. 4 would increase the Supply capacity to 2,500 gpm (3.60 mgd).

Radium Removal Treatment Technologies

Four typical treatment methods used for removing radium from drinking water include ion-exchange softening, membrane softening, electrodialysis reversal, and HMO filtration. The membrane softening and electrodialysis treatment processes both have high volumes of

~12-00000 Miscellaneous Project Files > 2019 Miscellaneous Engineering > Radium Removal Treatment Cost Analysis > Brown 20190225 Radium Removal Treatment Cost Analysis.docx~

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
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concentrate, high power consumption, and high capital costs, and were not considered for use in Mukwonago.

Table 1 – Reliable Supply Capacity with Most Critical Well Out-of-Service

Facility I.D.	Rated Capacity (gpm)	Existing Reliable Supply Capacity gpm (mgd)		Proposed Reliable Supply Capacity gpm (mgd)	
		Well No. 3 Operating	Well No. 4 Operating	Alternative No. 1	Alternative No. 2
				Treating Well No. 4	Treating Wells No. 3 & 4
Well No. 3	850	300(a)		850	850
Well No. 4	1,000		300(a)	Out-of-Service	Out-of-Service
Well No. 5	700	Out-of-Service	Out-of-Service	550(b)	700
Well No. 6	300	300	300	300(b)	300
Well No. 7	650	650	650	650	650
Total	3,500	1,250 (1.80)	1,250 (1.80)	2,350 (3.38)	2,500 (3.60)
Surplus/Deficiency		21 (0.03)	21 (0.03)	1,080 (1.56)	1,230 (1.77)

- (a) Capacity reduced to equal Well No. 6 Capacity
(b) Combined capacity of Well No. 5 and No. 6 equal Well No. 3 Capacity

In the ion-exchange softening, the divalent metal ions that cause hardness, including radium, iron, and manganese, displace sodium from special media. After the sodium has been replaced, the media is regenerated by using high sodium concentrations to reverse the reactions. The advantages of the ion-exchange treatment process are low wastewater generation, low power consumption, ability to reduce hardness, and low operational and maintenance characteristics. The disadvantages of the ion-exchange process are the addition of significant quantities of sodium to the treated water, increased corrosion characteristics of the water, and addition of large quantities of chlorides to the wastewater.

In the preformed HMO filtration process, radium is adsorbed by preformed manganese dioxide and removed by sand filtration. Manganese dioxide can be purchased preformed, preformed in a batch tank by mixing potassium permanganate and manganese sulfate, or formed in-situ by mixing sodium permanganate and manganese sulfate. After injecting the preformed HMO, the well water is passed thru either a sand filter or manganese greensand filter. The typical loading rate for a standard sand filter is 3 gpm/sq. ft. of media. Previous testing has shown increased loading rates of 6-8 gpm/sq.ft. of media will provide adequate treatment when using manganese greensand. Pressure filters used to contain the media can either have a vertical or horizontal configuration. Vertical pressure filters typical require a larger building footprint however, they provide additional redundancy and cost slightly less when compared to horizontal

Mr. Dave Brown
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pressure filters. Horizontal pressure filters require less of a building footprint but cost slightly more when compared to vertical pressure filters.

The radium and manganese dioxide are removed from the filter by backwashing. The backwash waste is discharged to the sanitary sewer. The advantages of the HMO filtration process are: minimal change to the corrosion characteristics of the water, low wastewater generation, ability to remove iron and manganese, and low operational and maintenance characteristics.

Alternatives

The HMO filtration treatment process was determined to be the most technically and economically feasible treatment process alternative for the Village of Mukwonago. At the request of the Village, two alternative radium removal treatment options were analyzed. Alternative No. 1 consists of providing facilities necessary for removing radium from water pumped from Well No. 4. Alternative No. 2 consists of providing facilities necessary for removing radium from water pumped from Well No. 3 and Well No. 4. The radium removal facilities for both alternatives will be constructed adjacent to Well Station No. 4.

Alternative No. 1

In Alternative No. 1, radium in water pumped from Well No. 4 will be removed using the Hydrous Manganese Oxide (HMO) treatment process. Well Pump No. 4 will pump water from the existing well station to a new masonry building that will house the proposed HMO treatment process equipment. The masonry building will be approximately 35' x 50'. After being filtered, the treated water will be discharged to the existing reservoir adjacent to the well station. The HMO treatment process equipment will include either a horizontal pressure filter or a bank of vertical pressure filters and chemical feed systems to accommodate using either preformed HMO or an in-situ form of HMO. Greensand (pyrolusite media) will be used in the filter to minimize the overall size of the building needed.

A backwash holding tank will be constructed adjacent to the proposed radium removal treatment building. The backwash holding tank will be sized to accommodate two complete backwash cycles. The tank will be sized to store a backwash volume of 50,000 gallons. The backwash holding tank will be approximately 35' x 24' x 10'. A submersible pump will pump backwash waste from the backwash holding tank to the sanitary sewer. The estimated total cost for Alternative No. 1 is summarized in Table 2.

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
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Table 2 – Alternative No. 1 Estimated Cost Summary

ITEM	COST
Masonry Building	\$656,300
Mechanical Piping	\$116,700
Pressure Filters	\$325,000
Compressed Air System	\$8,000
Chemical Feed System	\$100,000
Backwash Holding Tank	\$137,500
Site Piping	\$70,000
Well Station No. 4 Modifications	\$30,000
Miscellaneous Work (20%)	\$288,700
Total Construction Cost	1,732,200
Pilot Study	\$15,000
PSC/WDNR Authorization	\$8,000
Engineering/Construction Services/Contingencies	\$519,700
SCADA Services	\$30,000
Total Project Cost	\$2,304,900

Alternative No. 2

In Alternative No. 2, radium in water pumped from Well No. 3 and Well No. 4 will be removed using the Hydrous Manganese Oxide (HMO) treatment processes. A new masonry building will be constructed to house two separate HMO treatment system. Each well will discharge to their own dedicated HMO treatment system. Well Pump No. 3 will pump water through an existing dedicated 12-inch water main to the proposed treatment building. Well Pump No. 4 will pump water from the existing well station to the proposed treatment building. The proposed masonry building will be approximately 45' x 50'. After being filtered, the treated water will be discharged to the existing reservoir adjacent to the well station. The HMO treatment process equipment will include either two horizontal pressure filters or two separate banks of vertical pressure filters and two separate chemical feed systems to accommodate using either preformed HMO or an in-situ form of HMO. Greensand (pyrolusite media) will be used in both filters to minimize the overall size of the building needed.

A backwash holding tank will be constructed adjacent to the proposed radium removal treatment building. The backwash holding tank will be sized to accommodate two complete backwash cycles from both treatment systems. The tank will be sized to store a backwash volume of 92,500 gallons. The backwash holding tank will be approximately 45' x 35' x 10'. A

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
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submersible pump will pump backwash waste from the backwash holding tank to the sanitary sewer. The estimated total cost for Alternative No. 2 is summarized in Table 3.

Table 3 – Alternative No. 2 Estimated Cost Summary

ITEM	COST
Masonry Building	\$843,800
Mechanical Piping	\$215,900
Pressure Filters	\$650,000
Compressed Air System	\$12,000
Chemical Feed System	\$200,000
Backwash Holding Tank	\$196,600
Site Piping	\$80,000
Well Station No. 4 Modifications	\$30,000
Miscellaneous Work (20%)	\$445,700
Total Construction Cost	2,674,000
Pilot Study	\$15,000
PSC/WDNR Authorization	\$8,000
Engineering/Construction Services/Contingencies	\$802,200
SCADA Services	\$50,000
Total Project Cost	\$3,549,200



Agenda Item Cover Report

Date: 10-25-22	Committee/Board: Public Works
Submitted by: Wayne Castle	Department: Utilities- Wastewater
Date of Committee Action: 11-2-22	Date of Village Board Action: 11-16-22

Subject:
Award bid for Atkinson Lift Station Project

Executive Summary:

The Atkinson lift station project had been bid out previously this year. We only received one bid that was approximately \$750,000 over our project budget. Since we had only one bid that was not favorable to the project, we rejected the bid. We then consulted with the contractor to see what their schedule of values were. With that information we re-engineered the project in a way that would reduce risk and costs. The biggest item that we removed was the second wet well which in turn reduced a significant amount of excavation that would have been deep and near a road and the lake. We found that we could get by for now without the additional wet well capacity, but it will need to likely be addressed in the future. Project consists of three new submersible pumps which provides additional capacity and redundancy, an additional control building, and abandoning a portion of the existing lift station.

Fiscal Impact:

Project Total of \$1,250,000 funded by approximately \$750,000 in impact fees. If possible, the remaining amount will be funded by reserves. If sufficient reserves are not available, then we may have to borrow for a small portion of this project.

Executive Recommendation/Action:

For the Committee of the Whole to recommend to the Village Board to Award the bid for the Atkinson lift station project.

☒ **Attachments Included**

- **Recommendation of Award – Atkinson Lift Station**

October 14, 2022

Ms. Diana Dykstra, CMC
Clerk-Treasurer
Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

RE: Atkinson Pump Station Improvements – REBID

Dear Ms. Dykstra:

Bids for the above project were opened on October 13, 2022, at 10:00 a.m. at the Village Hall as listed on the attached Bid Summary.

We reviewed the documentation submitted by the apparent low bidder and found that:

1. The Bid Form has been appropriately completed.
2. We have no objections to the low bidder.
3. Low bidder has successfully completed projects in the Village, and similar projects over the last 15 years according to R/M direct project experience.

On these bases, we recommend that August Winter & Sons, Inc. be awarded the Atkinson Pump Station Improvements - REBID contract, in the amount of \$1,184,000. On all construction projects, and especially complex ones like this, unpredictable factors may increase the final contract amount. For this reason, we recommend that the Village include a 10 percent contingency when preparing the financial plan for this work.

Our review did not include an evaluation of bidder's current financial condition nor of their permanent safety program.

Should you decide to accept our recommendation, we have prepared the enclosed Notice of Award for your use. After Board approval has been received, please have the appropriate official sign where indicated and forward a signed copy of the Notice of Award to our office. We will then fill in the date at the top of page one and forward it, with contracts for execution, to the Contractor. One fully completed Notice of Award will be returned to you for your records.

Bids remain subject to acceptance until December 12, 2022, unless Bidder agrees to an extension. Please advise us of your award decision or call if there are any questions.

Respectfully,

RUEKERT & MIELKE, INC.



Donald J. Heikkila, P.E. (WI, PA)
Project Manager
dheikkila@ruekert-mielke.com
DJH:cal

Encl: Notice of Award
Bid Summary

cc: Fred Schnook, Village of Mukwonago
Wayne Castle, Village of Mukwonago
David W. Arnott, P.E., Ruekert & Mielke, Inc.
Jerad J. Wegner, P.E., Ruekert & Mielke, Inc.

NOTICE OF AWARD

Date of Issuance: _____

Contract: Atkinson Pump Station Improvements - REBID
Bidder: August Winter & Sons, Inc.
Address: P.O. Box 1896
Appleton, WI 54912-1896

Owner: Village of Mukwonago
Engineer: Ruekert & Mielke, Inc.
Engineer's Project No.: 12-10131.221

TO BIDDER:

You are notified that your Bid dated October 13, 2022 for the above Contract has been accepted by Owner and you are the Successful Bidder and are awarded a Contract for:

Atkinson Pump Station Improvements - REBID

The Contract Price of your Contract is: \$1,184,000.00

Two (2) copies of the proposed Contract Documents (except Drawings) accompany this Notice of Award, or have been transmitted or made available to Bidder electronically.

One (1) set of the Drawings will be delivered separately, or otherwise made available to Bidder electronically.

Bidder must comply with the following conditions precedent within 15 days of the date of issuance of this Notice of Award:

1. Deliver to Engineer two (2) fully executed counterparts of the Contract Documents.
2. Deliver with the executed Agreement the Performance Bond, Payment Bond as specified in the Instructions to Bidders (Article 21), and General Conditions (Paragraph 6.01).
3. Deliver with the executed Agreement certificates and other evidence of insurance as specified in the General Conditions (Article 6) and the Supplementary Conditions modifying Article 6 of the General Conditions.

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

Within 10 days after you comply with the above conditions, Engineer will return to you one fully executed counterpart of the Agreement.

Owner: VILLAGE OF MUKWONAGO

Signature: _____
Authorized Signature

Title: _____

Date: _____

Copy: Engineer

BID SUMMARY

Atkinson Pump Station Improvements - REBID

Village of Mukwonago, Waukesha County, Wisconsin

Bids Open: October 13, 2022, 10:00 a.m.

CONTRACTOR	Bid Bond	Addendum 1	Addendum 2	BASE BID
August Winter & Sons	X	X	X	\$1,184,000.00
Staab Construction Corp.	X	X	X	\$1,267,000.00
Mid City Corporation	X	X	X	\$1,717,000.00

APPARENT LOW BID:	\$1,184,000.00
APPARENT LOW BIDDER:	August Winter & Sons

RUEKERT & MIELKE, INC.
W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

October 26, 2022

Mr. Fred Winchowky
Village President
Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

Re: Minor's Estates 4 – Phase 2
Letter of Credit Reduction #1

Dear President Winchowky:

We received a request to have the current Letter of Credit reduced for the Minor's Estates 4 – Phase 2 development in the Village. The request was received in our office on October 25, 2022. The request included a letter from the Developer, lien waivers for Contractors performing parts of the work associated with the requested reduction, and a detailed breakdown request by category of work.

The current Letter of Credit for the site is in the amount of \$361,972.36 and the Developer is requesting a reduction of \$237,609.38 to a new Letter of Credit balance of **\$124,362.98**. We've reviewed the request and the work completed for which the request is associated with and recommend that current Letter of Credit be reduced as stated and as described in the attached documents.

If you or any staff or board member should have any questions regarding this, please feel free to contact me at (262) 542-5733.

Respectfully,

RUEKERT & MIELKE, INC.



Peter W. Gesch, P.E. (WI)
Project Engineer
pgesch@ruekert-mielke.com

PWG:pwg

Enclosure(s)

cc: Fred Schnook, Village of Mukwonago
Diana Dykstra, Village of Mukwonago
Linda Gourdoux, Village of Mukwonago
Tim Rutenbeck, Village of Mukwonago
Nathan Bayer, Village of Mukwonago
Wayne Castle, Village of Mukwonago
Ron Bittner, Village of Mukwonago
Tim Schwecke, Village of Mukwonago
Jerad J. Wegner, P.E., Ruekert & Mielke, Inc.



HOMES • LAND • INVESTMENTS

October 25, 2022

Jerad Wegner
Ruekert & Mielke
W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

RE: Minor's Estates Phase 2 - Letter of Credit Reduction #1

Dear Mr. Wegner:

On behalf of Minor's Estates Investments LLC please accept this request for the Village of Mukwonago Engineer to inspect the completed improvements in Minor's Estates Phase 2 and recommend to reduce the letter of credit per the costs outlined below:

Letter of Credit Balance	\$361,972.36
-Less Requested Reductions-	
Grading & Erosion Control	\$85,088.13
Road Paving	\$152,521.25
Total Reduction	\$237,609.38
Letter of Credit Balance Remaining	\$124,362.98

Enclosed herewith are copies of pay applications and lien waivers from Rams Contracting, Ltd. and Stark Pavement Corp. Also enclosed is a letter of credit worksheet which tracks the letter of credit draws and balances. Please review this request and, if possible, include the letter of credit reduction on the November 2nd Public Works and November 16th Village Board agendas for review and action. If you have any questions or concerns regarding this request, please call me at (262) 424-5997. Thank you for your assistance with this request.

Respectfully Submitted,

Joseph A. Bukovich, P.E.
Owner's Authorized Representative

Enclosures

Cc: Diana Dykstra, Village of Mukwonago
Peter Gesch, Ruekert & Mielke
Mukwonago - Minor's Estates/Loan/Minor's Estates Phase 2 Letter of Credit Reduction Request #1 10-25-22.docx

APPLICATION AND CERTIFICATE FOR PAYMENT AIA DOCUMENT G702

TO: Minor's Estates Investments LLC

PROJECT: Minor's Estates Phase II

FROM: Rams Contracting, LTD.
PO Box 398
Lannon, WI 53046

SUBCONTRACT:

Application Number: 202241-01
Period to: 10/20/2022
Contract date: 08/10/2022

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.

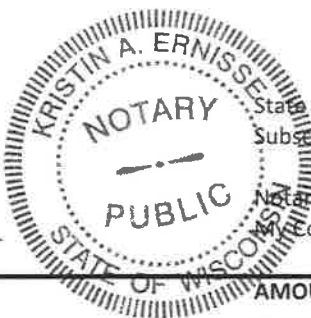
Continuation sheet, AIA Document G703, is attached.

CHANGE ORDER SUMMARY		
Change Orders Approved in previous months by Owner	ADDITIONS	DEDUCTIONS
TOTAL	\$0.00	\$0.00
Approved this month		
Number	Date Approved	
TOTAL	\$0.00	\$0.00
Net Change by Change Orders	\$0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: RAMS CONTRACTING, LTD.

By: [Signature] Date: 10/21/2022



State of: Wisconsin County of: Waukesha
Subscribed and sworn to before me the 21st day of October 2022
Notary Public: [Signature]
My Commission Expires: 03/29/2023

1. ORIGINAL CONTRACT SUM	\$132,350.63
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE (LINE 1 & 2)	\$132,350.63
4. TOTAL COMPLETED & STORED TO DATE (Column F on G703)	\$132,350.63
5. RETAINAGE	
a. <u> </u> of Completed Work	\$0.00
(Column D+E on G703)	
b. <u> </u> of Stored Material	\$0.00
Total retainage (line 5a + 5b)	\$0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)	\$132,350.63
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$0.00
8. CURRENT PAYMENT DUE	\$132,350.63
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$0.00

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED

\$ 132,350.63

(Attach explanation if amount certified differs from the amount applied for.)

ARCHITECT:

By: Joseph L. Buldini Date: 10/25/22

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

PROJECT NAME: Minor's Estates Phase II

APPLICATION NUMBER: 202241-01
 APPLICATION DATE: 10/21/2022
 PERIOD FROM: 08/10/2022
 PERIOD TO: 10/20/2022

A	B	C			D	E	F	G	H	I
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL SCHEDULE OF VALUES	CONTRACT ADJUSTMENTS	REVISED SCHEDULE OF VALUES	PREVIOUS EARNED	EARNED THIS PERIOD	TOTAL COMPLETED TO DATE	PERCENT COMPLETE	BALANCE TO FINISH	RETAINER
1	Erosion control, mobilization, supervision	\$15,655.00	\$0.00	\$15,655.00	\$0.00	\$15,655.00	\$15,655.00	100.00%	\$0.00	\$0.00
2	Strip topsoil	\$14,658.84	\$0.00	\$14,658.84	\$0.00	\$14,658.84	\$14,658.84	100.00%	\$0.00	\$0.00
3	Finish grading	\$9,386.00	\$0.00	\$9,386.00	\$0.00	\$9,386.00	\$9,386.00	100.00%	\$0.00	\$0.00
4	Cut/fill	\$10,570.08	\$0.00	\$10,570.08	\$0.00	\$10,570.08	\$10,570.08	100.00%	\$0.00	\$0.00
5	We Energies clean up	\$5,640.00	\$0.00	\$5,640.00	\$0.00	\$5,640.00	\$5,640.00	100.00%	\$0.00	\$0.00
6	Topsoil, restoration	\$29,178.21	\$0.00	\$29,178.21	\$0.00	\$29,178.21	\$29,178.21	100.00%	\$0.00	\$0.00
7	Asphalt base course	\$47,262.50	\$0.00	\$47,262.50	\$0.00	\$47,262.50	\$47,262.50	100.00%	\$0.00	\$0.00
TOTALS		\$132,350.63	\$0.00	\$132,350.63	\$0.00	\$132,350.63	\$132,350.63	100.00%	\$0.00	\$0.00

GRADING
\$85,088.13
ROAD PAVING

**CONDITIONAL WAIVER AND RELEASE
UPON FINAL PAYMENT**

Upon receipt of undersigned of a check from

Minor's Estates Investments, LLC.

(Maker of Check)

in the sum of \$ 132,350.63 payable to Rams Contracting, LTD.
(Amount of Check) (Payee or Payees of Check)

and when check has been properly endorsed and has been paid by the bank upon which it is drawn, this document shall become effective to release any mechanic's lien, stop notice, or bond right the undersigned has on the job of

Minor's Estates Investments, LLC.

(Owner)

located at Minor's Estates II, Mukwonago, WI
(Job Description)

to the following extent.

This release covers a final payment for labor, services, equipment or materials furnished to

Minor's Estates Investments, LLC.

(Name)

through

FINAL

(Date)

only. Rights based upon work performed or items furnished under a written change order which has been fully executed by the parties prior to the release date are covered by this release unless specifically reserved by the claimant in this release. This release of any mechanic's lien, stop notice, or bond right shall not otherwise affect the contract rights, including rights between parties to the contract based upon rescission, abandonment, or breach of the contract, or the right of the undersigned to recover compensation for furnished labor, services, equipment, or material covered by this release if that furnished labor, services, equipment, or material was not compensated by the final payment. Before any receipt of this document relies on it, said party should verify evidence of payment to the undersigned.

Company: Rams Contracting, LTD.
(Company Name)

By: 
(Signature)
Steve Schlei, Accountant
(Name and Title)

Date: 10/21/2022

NOTE: This form complies with the requirements of Wisconsin Civil Code. It is to be used by a party who applies for a progress payment when the progress payment check has not yet cleared the bank.

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: Minor Estates Investments, LLC

APPLICATION NO: 1

Distribution to:

PROJECT: Minor Estates
Phase 2
☐ OWNER
☒ GENERAL CONTRACTOR
☐ ARCHITECT
☐ CONTRACTOR
☐
☐

PERIOD TO: 10/15/2022

FROM CONTRACTOR:

VIA ARCHITECT:

Stark Pavement Corp.
 18245 W Burleight Rd.
 Brookfield, WI 53005

PROJECT NOS:

PROJECT NO:

CONTRACT DATE: 8/4/2022

CONTRACT FOR: Asphalt, Concrete Curb and Gutter

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
 Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 199,355.50
 2. Net change by Change Orders \$ 0.00
 3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 199,355.50
 4. TOTAL COMPLETED & STORED TO DATE \$ 154,664.00
 (Column G on G703)

5. RETAINAGE:
 a. 10 % of Completed Work \$ 15,466.40
 (Column D + E on G703)
 b. % of Stored Material \$ 0.00
 (Column F on G703)
 Total Retainage (Lines 5a + 5b or
 Total in Column I of G703) \$ 15,466.40

6. TOTAL EARNED LESS RETAINAGE \$ 139,197.60
 (Line 4 Less Line 5 Total)
 7. LESS PREVIOUS CERTIFICATES FOR
 PAYMENT (Line 6 from prior Certificate) \$ 0.00
 8. CURRENT PAYMENT DUE \$ 139,197.60
 9. BALANCE TO FINISH, INCLUDING RETAINAGE
 (Line 3 less Line 6) \$ 60,157.90

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	\$0.00
Total approved this Month	\$0.00	\$0.00
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order	\$0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge,
 information and belief the Work covered by this Application for Payment has been
 completed in accordance with the Contract Documents, that all amounts have been paid by
 the Contractor for Work for which previous Certificates for Payment were issued and
 payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Stark Pavement Corporation

By: Thomas P Skellon Date: October 20, 2022
 Thomas P Skellon - Vice President of Finance

State of: Wisconsin

County of: Waukesha

Subscribed and sworn to before me this 20 Day of October-22

Notary Public:

My Commission expires: 3/22/2024

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data
 comprising the application, the Architect certifies to the Owner that to the best of the
 Architect's knowledge, information and belief the Work has progressed as indicated,
 the quality of the Work is in accordance with the Contract Documents, and the Contractor
 is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 139,197.60

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this
 Application and on the Continuation Sheet that are changed to conform with the amount certified.)
 ARCHITECT:

By: Joseph A. Bubrick Date: 10/23/22

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the
 Contractor named herein. Issuance, payment and acceptance of payment are without
 prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

PROJECT: Minor's Estates Phase 2

APPLICATION NO: 1

APPLICATION DATE: 20-Oct-22

PERIOD TO: 15-Oct-22

GENERAL CONTRACTOR'S PROJECT NO:

PROJECT NO: 229606

[illegible]



12845 W Burleigh Road
Brookfield, WI 53005
414-466-0644

PARTIAL WAIVER OF LIEN

DATE: October 24, 2022

For value received to date we hereby waive partial rights and claim for lien on land and on buildings about to be erected, being erected, erected, altered, or repaired and to the appurtenances thereunto,

For: Minor Estates Phase 2 Owner Minor's Estates Investment, LLC

By: Stark Pavement Corporation Contractor for Site Concrete, Curb and Gutter in the amount of \$ 139,197.60 One Hundred Thirty-Nine Thousand One Hundred Ninety-Seven Dollars and 60/cents same being situated in Waukesha County, State of Wisconsin, described as:

Minor Estates Phase 2
CTH I – N. of Valhalla Drive
Mukwonago, WI 53149

for all labor performed and for all material furnished for the erection, construction, alteration, or repair of said building and appurtenances, except: Contract balance

Stark Pavement Corporation

Company Name

A handwritten signature in black ink, appearing to be "F. H. [unclear]", is written over a horizontal line.

Signature

President

Title

Minor's Estates Phase 2 Letter of Credit

		BEGINNING	Reduction #1							
ITEM		BID LOC	10/25/22	Reduction #2	Reduction #3	Reduction #4	Reduction #5	Reduction #6	BALANCE	
1	Grading and erosion control	\$ 85,088.13	\$ 85,088.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Road paving incl. stone base, curb, binder & sidewalk	\$ 159,976.75	\$ 152,521.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,455.50	\$ 7,455.50
3	Surface course paving	\$ 39,378.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,378.75	\$ 39,378.75
4	Street trees (43 Ph. 2 trees)	\$ 17,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,200.00	\$ 17,200.00
5	Contingency (20%)	\$ 60,328.73	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,328.73	\$ 60,328.73
TOTAL		\$ 361,972.36	\$ 237,609.38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 124,362.98	\$ 124,362.98

Notes:

Guarantee for improvements expires

RESOLUTION NO. 2022-65

**A RESOLUTION TO APPROVE A REDUCTION IN THE LETTER OF CREDIT
FOR MINOR'S ESTATES PHASE 2 DEVELOPMENT
IN THE VILLAGE OF MUKWONAGO**

WHEREAS, the Village Board of the Village of Mukwonago is required to approve a Reduction in a Letter of Credit based on the satisfactory completion and/or acceptance of public infrastructure as required under the terms of the developer's agreement, and

WHEREAS, Joseph A Bukovich has requested a Letter of Credit Reduction #1 for the development known as Minor's Estates Phase 2, and

WHEREAS, the request includes lien waivers from Contractors performing parts of the work associated with the requested reduction, and a detailed breakdown request by category of work, and

WHEREAS, the Village Engineer has reviewed the request and the work completed for which the request is associated with and recommend that the current Letter of Credit be reduced as stated and as described in Exhibit A.

NOW, THEREFORE, BE IT RESOLVED the Village Board of the Village of Mukwonago, Wisconsin, hereby approves a reduction in the Letter of Credit for Minor's Estates Phase 2 to a new Letter of Credit balance of \$124,362.98.

Passed and dated this 16th day of November, 2022.

By: _____
Fred Winchowky, Village President



Attest: _____
Diana A Dykstra, Village Clerk-Treasurer



Agenda Item Cover Report

Date: 10/27/22	Committee/Board: Committee of the Whole
Submitted by: Fred Schnook	Department: Administration
Date of Committee Action: N/A	Date of Village Board Action: 11/16/22

Subject:

Right Of Way Permit

Executive Summary:

The Village Public Works Director has been asked to provide a permit authorizing work within the Village's Right of Way. The work requested is to be the injection of chemicals into the ground with the intention of reducing the concentration of an existing underground toxic chemical plume. The contractor is requesting a permit prior to Thanksgiving. The Public Works Director has asked to inform the Board of this request. The Public Works Director is seeking the guidance of the Board and Administrator in rendering a decision as to issuing a Work in the Right of Way (R.O.W.) Permit. The Wisconsin Department of Natural Resources is in the process of reviewing the Contractor's request for a DNR Permit to perform the work. If that request is approved, it would help to render a affirmative decision by the staff to issue a Village ROW Permit. Finally, there is a question as to what, if any, long term liability the Village may incur if it allows the injections of chemicals within its right of way.

Fiscal Impact:

There may be a need for funding legal research to address concerns of the Village's long term liability.

Executive Recommendation/Action:

Should the WI.DNR issue a permit, and there are no objections from the Village Board, we may wish to bring in an environmental lawyer to address the question of liability.

** Attachments Included**

Village of Mukwonago, WI
Friday, October 28, 2022

Chapter 74. Streets, Sidewalks and Other Public Places

Article I. In General

§ 74-7. Obstructions and encroachments.

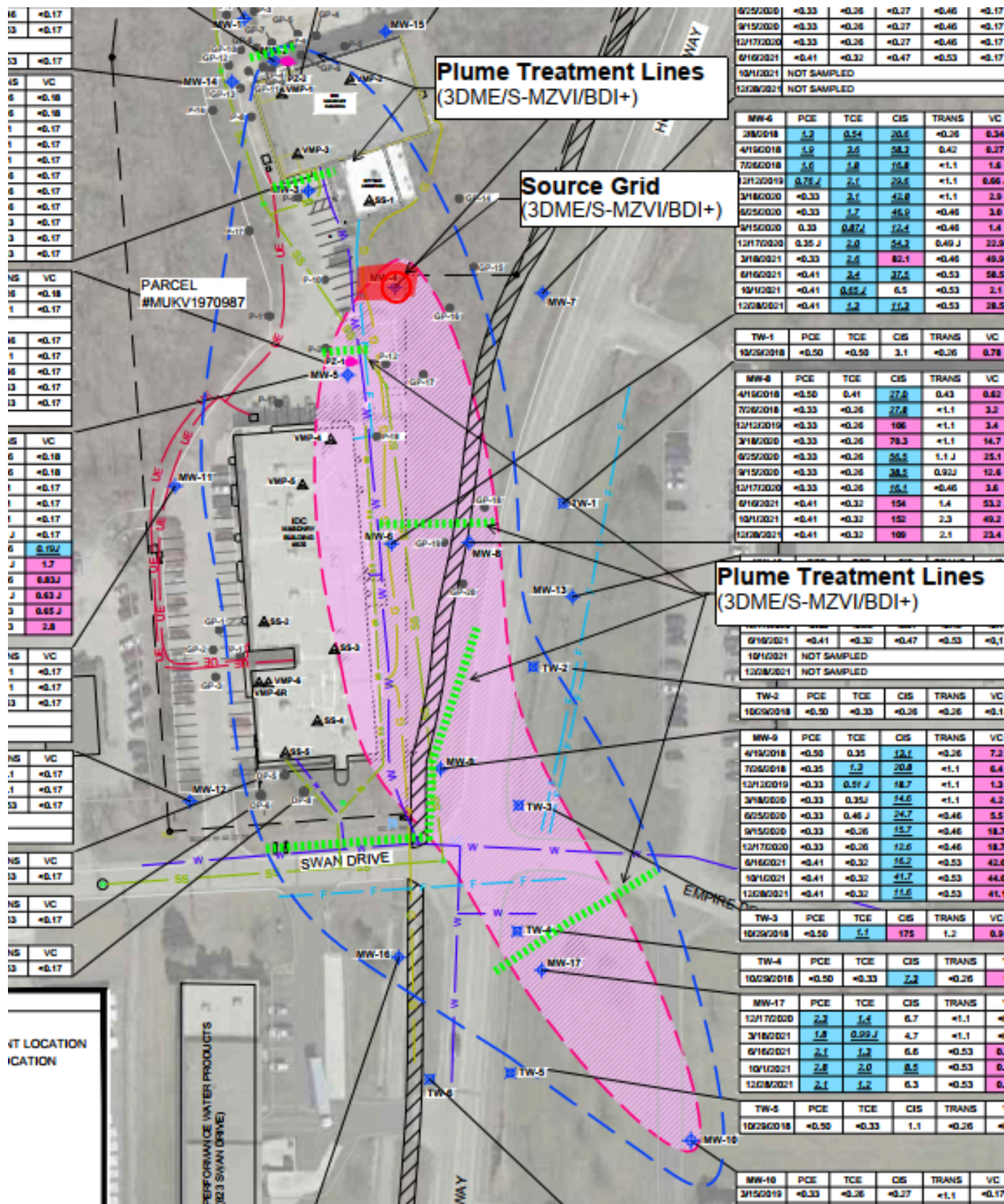
[Ord. No. 880, § I, 9-16-2014; amended 3-18-2020 by Ord. No. 976]

- (a) Prohibited. No person shall encroach upon or in any way obstruct or encumber any street, alley, sidewalk, public grounds or land dedicated to public use, or any part thereof, or permit such encroachment or encumbrance to be placed or remain on any public right-of-way adjoining the premises of which he is the owner or occupant, except as provided in Subsection (b) of this section.
- (b) Exceptions. The prohibitions of Subsection (a) of this section shall not apply to the following:
 - (1) Awnings which do not extend below any point seven feet above the sidewalk, street or alley.
 - (2) Public utility encroachments duly authorized by state law or the Village Board.
 - (3) Goods, wares, merchandise or fixtures being loaded or unloaded which do not extend more than three feet on the sidewalk, provided such goods, wares, etc., do not remain thereon for a period of more than two hours.
 - (4) Temporary encroachments or obstructions authorized by permit under Subsection (c) of this section.
 - (5) Excavations and openings permitted under § 74-6.
 - (6) Encroachments permitted under § 74-7(c)(2).
- (c) Right-of-way permit. A right-of-way permit may be issued according to the following conditions:
 - (1) Required. Permits for the use of the streets, alleys, sidewalks or other public rights-of-way or places of the Village may be granted to applicants by the Director of Public Works or designee for the purpose of moving any building or structure or of encumbering the street, alley, sidewalk or way with materials necessary in and about the construction or demolition of any building or structure, provided such applicant has complied with the other requirements of this subsection and has obtained a building permit if required by Chapter 18.
 - (2) Poles not to be erected without permission.
 - a. Before any person shall erect any telephone, wireless facilities and/or equipment, utility, electric, or railway poles or posts upon any street or alley, a permit application shall be submitted to the Director of Public Works or designee with the route/location of his proposed lines/poles or any extension showing, as far as practicable, the location of each pole or post and the number and location of any related wires. No such pole or post shall be erected until written permission shall be obtained from the Director of Public Works or designee.

- b. Whenever in the judgment of the Director of Public Works or designee the use of any alley for the purpose of erecting the poles or posts mentioned in Subsection (c)(2)a of this section is practicable, such poles or posts shall be placed upon and along the alley instead of upon and along a public street. When such poles or posts are set in any alley, they shall be located as near as practicable to the side lines, and in such manner as not unreasonably to incommode the public or the adjoining property owner. Whenever such poles or posts are erected in a street, they shall be placed, unless otherwise directed by the Director of Public Works or designee, on the outer edge of the sidewalk just inside of the curb and on the line dividing the lots one from another, but shall not be so placed as to unreasonably incommode the public or the adjoining property owner, or to disturb the drainage of the street, or interfere with or damage the trees or other public or private property on the line of such street or alley unless the written consent of the Director of Public Works or designee shall have been obtained.
- c. Whenever any street on which any of such poles or posts have been set shall be graded or paved, all poles or posts shall be reset immediately so as to conform to the street as reconstructed, and the owner shall immediately put in order all those parts of the streets, alleys, sidewalks, or public grounds so used. Any expense related to the resetting poles shall be the sole responsibility of the pole owner.
- d. All new telephone, small wireless facilities and/or equipment, utility, electric or railway poles or posts and related equipment shall be fabricated using all metal materials and shall be powder coated in bronze, brown, silver or black matte paint finish. Alternate colors and/or materials, proposed in order to better coordinate with the surrounding views, buildings, or environmental may be considered and/or approved by review and/or action of the Village Administrator.
- e. The maximum height of any telephone, small wireless facilities and/or equipment, utility, electric, or railway poles or posts in the right-of-way shall be 50 feet above ground level at the base of the structure or 10 feet above the tallest existing (existing as of the effective date of this section) telephone, small wireless facilities and/or equipment, utility, electric or railway poles or posts, structures located in the same right-of-way and within 500 feet of the proposed new facility, whichever is greater.
- f. All poles placed in the public right-of-way must be at least 25 feet from center line to center line of any other support structure, tower, pole or post in the public right-of-way unless specifically waived or modified by the Village Administrator due to unique and limiting circumstances of the specific proposed location.
- g. In order to conceal the nonantenna equipment and to preserve the limited space available for vehicle and pedestrian traffic, applicants proposing any new installation in/upon the public way shall install all nonpole, -post, -lighting, and -antenna equipment underground to the maximum extent feasible. Additional expense to install and maintain an underground equipment enclosure does not exempt an applicant from this requirement, except where the applicant demonstrates by clear and convincing evidence that this requirement will effectively prohibit the provision of personal wireless services. Nothing in this subsection is intended to require the applicant to install any electric meter required by the applicant's electrical service provider underground.
- h. To the extent that any equipment cannot be placed underground as required above, the applicants shall install ground-mounted equipment in a location that does not obstruct pedestrian or vehicular traffic. The Village may require landscaping or other concealment as a condition of approval to conceal ground-mounted equipment. Ground-mounted equipment shall not be permitted in connection with a streetlight, traffic signal, utility pole or other similar infrastructure in the public right-of-way. In the event that the Village approves ground-mounted equipment, the applicant shall conform to the following requirements:

1. Self-contained cabinet or shroud. The equipment shroud or cabinet shall contain all the equipment associated with the facility other than the antenna. All cables and conduits associated with the equipment shall be concealed from view.
2. Concealment. The Village may require the applicant to incorporate concealment elements into the proposed design, including but not limited to public art displayed on the cabinet, strategic placement in a less-obtrusive location and placement within existing or replacement street furniture.
3. No ground-mounted equipment shall be permitted closer than five feet to the edge of the public right-of-way.
- (3) Bond. No right-of-way permit shall be issued until the applicant shall execute and file with the Village Clerk a bond in an amount determined by the Director of Public Works or designee, conditioned that the applicant will indemnify and save harmless the Village from all liability for accidents or damage caused by reason of operations under such permit, will remove such encumbrance upon termination of the operations, will leave the vacated premises in a clean and sanitary condition, and repair any and all damage to the streets, alleys, sidewalks or public property of the Village resulting from such building or moving operations.
- (4) Fee. The fee for a right-of-way permit shall be as set forth in the most-current Village Board resolution approving the annual fee schedule.
- (5) Conditions of occupancy. The permission to occupy or obstruct the streets, alleys, sidewalks or public grounds is intended only for use in connection with the actual erection, alteration, repair, removal of buildings or structures and, with the exception of encroachments permitted under § 74-7(c)(2), shall be given upon the following terms and conditions and subject to revocation without notice by the Director of Public Works or designee for violation thereof:
 - a. Such temporary obstruction shall cover not more than 1/3 of any street or alley.
 - b. Obstructions shall be sufficiently lighted at night so as to be in full view of the public from all directions.
 - c. Sidewalk traffic shall not be interrupted, but temporary sidewalks of not less than four feet in width guarded by a closed fence at least four feet high on both sides may be maintained during the period of occupancy.
 - d. The process of moving any building or structure shall be as continuous as practicable until completed and, if ordered by the Director of Public Works or designee, shall continue during all hours of the day and night.
 - e. No building or structure shall be allowed to remain overnight on any street crossing or intersection or so near thereto as to prevent easy access to any fire hydrant.
 - f. Buildings shall be moved only in accordance with the route prescribed jointly by the Director of Public Works or designee and the appropriate representative of the Village Police Department.
 - g. Upon termination of the work necessitating such obstruction, all parts of the streets, alleys, sidewalks or public grounds occupied under the permit shall be vacated, cleaned of all rubbish and obstructions and placed in a safe condition for public travel at the expense of the permittee.
- (6) Termination. All right-of-way permits shall automatically terminate at the end of three months from the date of issuance unless an earlier termination date is specified thereon at the direction of the Supervisor of Inspections or Director of Public Works or designee.
- (7) Removal by Village. In addition to any other penalty imposed, if the owner or occupant of the premises adjoining an unlawfully obstructed sidewalk shall refuse or neglect to remove such obstruction within 24 hours after notice from the Director of Public Works or designee to do so,

it shall be the duty of the Director of Public Works or designee to cause/order the removal of such obstruction and make return of the cost and expense thereof to the Village Clerk who shall enter such cost on the next annual tax roll as a special charge against the property abutting each obstructed sidewalk, and such sum shall be levied and collected as other special taxes against real estate.



Instrument Development Corp.

Figure 1: Treatment Map

Terracon

September 2, 2022

MW-1	PCE	TCE	CIS	TRANS	VC
2/8/2018	FROZEN WELL				
4/19/2018	<0.50	<0.33	<0.26	<0.26	<0.18
7/26/2018	<0.26	<0.26	<0.26	<0.27	<0.17
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	NOT SAMPLED				
6/25/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<0.46	<0.17
3/18/2021	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	<0.41	<0.32	<0.47	<0.53	<0.17
12/28/2021	<0.41	<0.32	<0.47	<0.53	<0.17
8/17/2022	<0.41	<0.32	<0.47	<0.53	<0.17

MW-2	PCE	TCE	CIS	TRANS	VC
2/8/2018	264	5.6	<0.51	<0.51	<0.35
4/19/2018	3,880	48.0	3.6	<0.51	<0.35
7/26/2018	3,530	53.6	6.1	<2.2	<0.35
12/12/2019	132	18.6	33.2	<1.1	3.2
3/18/2020	306	10.8	4.0J	<5.5	<0.17
6/25/2020	102	18.6	5,000	<4.6	100
9/15/2020	0.84J	<0.26	8.5	<0.46	3.2
12/17/2020	1.0J	<0.26	1.0	<0.46	<0.17
3/18/2021	1.3	0.48J	12.5	<0.46	3.8
6/16/2021	1.3	<0.32	<0.47	<0.53	0.99J
10/1/2021	0.99J	0.46 J	1.3	<0.53	1.1
12/28/2021	<0.41	0.33 J	<0.47	<0.53	1.5
8/17/2022	0.56J	0.46J	0.56J	<0.53	3.8

MW-14	PCE	TCE	CIS	TRANS	VC
12/12/2019	3.9	1.0	3.1	<1.1	<0.17
3/18/2020	<0.33	1.0J	4.3	<1.1	<0.17
6/25/2020	0.40 J	<0.26	0.80 J	<0.46	<0.17
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	<0.41	0.41 J	3.4	<0.53	<0.17

MW-3	PCE	TCE	CIS	TRANS	VC
2/8/2018	17.5	1.7	4.3	<0.26	<0.18
4/19/2018	<0.50	<0.33	0.65	<0.26	<0.18
7/26/2018	1.1	<0.26	1.2	<1.1	<0.17
12/12/2019	<0.33	<0.26	1.0	<1.1	<0.17
3/18/2020	<0.33	<0.26	0.93J	<1.1	<0.17
6/25/2020	<0.33	<0.26	1.7	<0.46	<0.17
9/15/2020	<0.33	<0.26	2.3	<0.46	<0.17
12/17/2020	<0.33	<0.26	2.0	<0.46	<0.17
6/16/2021	<0.41	<0.32	3.2	<0.53	<0.17
10/1/2021	<0.41	<0.32	2.0	<0.53	<0.17
12/28/2021	<0.41	<0.32	1.1	<0.53	<0.17
8/17/2022	<0.41	<0.32	3.1	<0.53	66.9

PZ-1	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	<0.33	<0.26	<0.26	<0.18
7/26/2018	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	NOT SAMPLED				
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2021	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	<0.41	<0.32	<0.47	<0.53	<0.17
12/28/2021	NOT SAMPLED				

MW-5	PCE	TCE	CIS	TRANS	VC
2/8/2018	5.4	2.1	13.9	<0.26	<0.18
4/19/2018	6.2	3.1	17.4	<0.26	<0.18
7/26/2018	7.4	5.4	23.5	<1.1	<0.17
12/12/2019	2.8	3.2	20.6	<1.1	<0.17
3/18/2020	3.3	3.4	18.5	<1.1	<0.17
6/25/2020	3.4	4.3	28.1	0.63 J	<0.17
9/15/2020	0.88J	3.3	18.0	<0.46	0.19J
12/17/2020	2.7	5.3	44.4	0.47 J	1.7
3/18/2021	2.9	5.4	41.1	<0.46	0.83J
6/16/2021	2.9	7.4	53.0	0.74 J	0.63 J
10/1/2021	0.63J	1.9	14.5	<0.53	0.65 J
12/28/2021	0.70J	1.6	40.4	<0.53	2.8
8/17/2022	<0.41	2.7	111	1.1	13.0

MW-11	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

MW-12	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

DP-5	PCE	TCE	CIS	TRANS	VC
4/9/2021	0.73 J	<0.32	<0.47	<0.53	<0.17

DP-6	PCE	TCE	CIS	TRANS	VC
4/9/2021	<0.41	<0.32	<0.47	<0.53	<0.17

PZ-2	PCE	TCE	CIS	TRANS	VC
12/12/2019	2.2	<0.26	<0.27	<1.1	<0.17
3/18/2020	0.89J	0.60J	0.46 J	<1.1	<0.17
6/25/2020	<0.33	0.57 J	3.8	<0.46	<0.17
9/15/2020	2.7	0.73J	3.8	<0.46	<0.17
12/17/2020	2.7	0.30 J	1.6	<0.46	<0.17
3/18/2021	0.55 J	<0.26	1.1	<0.46	<0.17
6/16/2021	<0.41	<0.32	1.1	<0.53	<0.17
10/1/2021	0.44 J	<0.32	1.0	<0.53	<0.17
12/28/2021	0.74 J	0.37 J	<0.47	<0.53	<0.17
8/17/2022	0.99 J	<0.32	0.71 J	<0.53	<0.17

MW-15	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
12/17/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	<0.41	<0.32	<0.47	<0.53	<0.17

MW-4	PCE	TCE	CIS	TRANS	VC
2/8/2018	<0.50	0.37	54.3	0.47	4.4
4/19/2018	<0.50	0.46	60.8	0.55	4.8
7/26/2018	<0.33	0.99	132	<1.1	3.8
12/12/2019	<0.33	1.0	133	<1.1	16.8
3/18/2020	<0.33	1.4	105	<1.1	11.2
6/25/2020	<0.33	0.96J	133	1.1 J	12.2
9/15/2020	<0.33	0.85J	265	1.2J	31.4
12/17/2020	<0.33	0.30 J	208	1.4 J	21.5
3/18/2021	<0.33	1.2	205	1.2J	23.3
6/16/2021	<0.41	3.4	346	1.9	31.8
10/1/2021	<0.41	0.89J	185	0.87 J	11.8
12/28/2021	<0.41	0.33 J	526	3.4	75.8
8/17/2022	<0.41	1.2	607	4.0	242

MW-7	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	0.33	<0.26	<0.26	<0.18
7/26/2018	<0.33	<0.26	<0.27	<1.1	<0.17
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/25/2020	<0.33	<0.26	<0.27	<0.46	<0.17
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

MW-6	PCE	TCE	CIS	TRANS	VC
2/8/2018	1.3	0.54	20.6	<0.26	0.34
4/19/2018	1.9	3.6	58.3	0.42	0.27
7/26/2018	1.6	1.8	16.8	<1.1	1.6
12/12/2019	0.76J	2.1	29.6	<1.1	0.66 J
3/18/2020	<0.33	3.1	42.8	<1.1	2.9
6/25/2020	<0.33	1.7	46.9	<0.46	3.0
9/15/2020	0.33	0.87J	12.4	<0.46	1.4
12/17/2020	0.35 J	2.0	54.3	0.49 J	22.9
3/18/2021	<0.33	2.6	82.1	<0.46	49.9
6/16/2021	<0.41	3.4	37.5	<0.53	58.5
10/1/2021	<0.41	0.65J	6.5	<0.53	2.1
12/28/2021	<0.41	1.3	11.3	<0.53	28.5
8/17/2022	<0.41	1.3	129	0.18 J	163

TW-1	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	<0.50	3.1	<0.26	0.78

MW-8	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	0.41	27.0	0.43	0.62
7/26/2018	<0.33	<0.26	27.8	<1.1	3.2
12/12/2019	<0.33	<0.26	106	<1.1	3.4
3/18/2020	<0.33	<0.26	70.3	<1.1	14.7
6/25/2020	<0.33	<0.26	56.5	1.1 J	25.1
9/15/2020	<0.33	<0.26	38.5	0.92J	12.6
12/17/2020	<0.33	<0.26	16.1	<0.46	3.6
6/16/2021	<0.41	<0.32	154	1.4	53.2
10/1/2021	<0.41	<0.32	152	2.3	49.2
12/28/2021	<0.41	<0.32	109	2.1	23.4
8/17/2022	<0.41	<0.32	321	3.8	82.1

MW-13	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

TW-2	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	<0.33	<0.26	<0.26	<0.18

MW-9	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	0.35	13.1	<0.26	7.2
7/26/2018	<0.35	1.3	20.8	<1.1	6.4
12/12/2019	<0.33	0.51 J	18.7	<1.1	1.3
3/18/2020	<0.33	0.35J	14.6	<1.1	4.2
6/25/2020	<0.33	0.46 J	24.7	<0.46	5.5
9/15/2020	<0.33	<0.26	15.7	<0.46	18.7
12/17/2020	<0.33	<0.26	12.6	<0.46	18.7
6/16/2021	<0.41	<0.32	16.2	<0.53	42.6
10/1/2021	<0.41	<0.32	41.7	<0.53	44.6
12/28/2021	<0.41	<0.32	11.6	<0.53	41.1
8/17/2022	<0.41	<0.32	73	0.58J	141

TW-3	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	1.1	175	1.2	0.9

TW-4	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	<0.33	7.3	<0.26	



PLANNING COMMISSION

October 11, 2022, at 6:30 pm
Mukwonago, WI

AMENDMENT OF THE VILLAGE COMPREHENSIVE PLAN WITH REGARD TO THE CLASSIFICATION OF THE PROPERTY LOCATED AT 560 BAY VIEW ROAD

Project Summary

Request:	Change the future land use classification of the property located at 560 Bay View Road from Low Intensity Commercial/Business to Government and Institutional
Applicant:	Life Point Church, owner (Mukwonago Area School District, applicant)
Application number:	2022-60
Location:	560 Bay View Road
Parcel number:	MUKV2010978017

Planning Staff Review

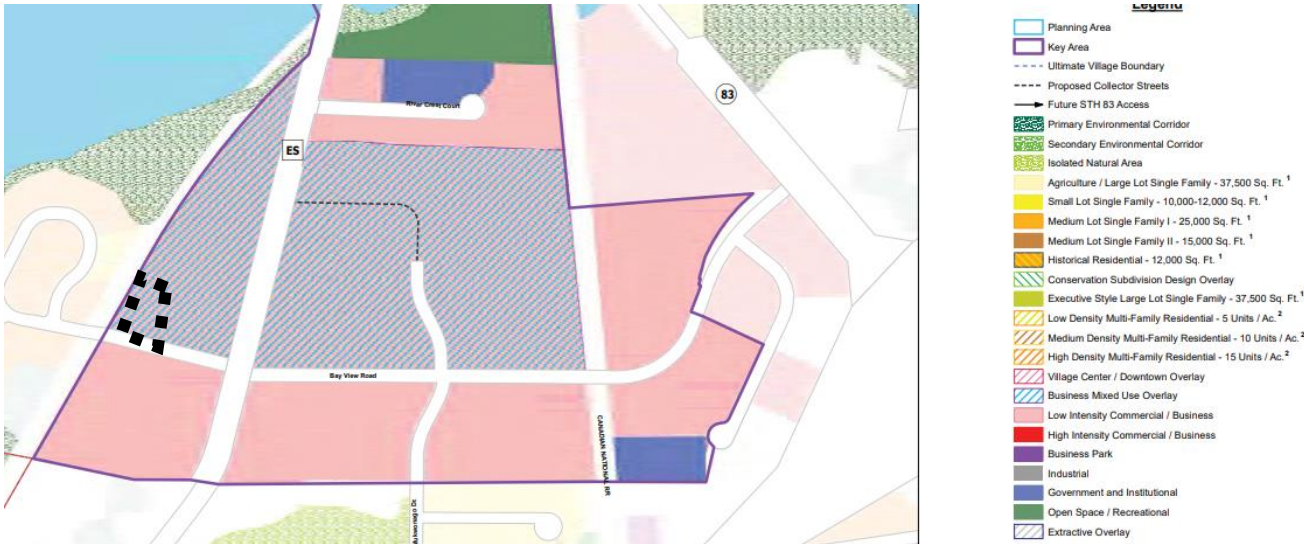


Description: The Village adopted a comprehensive plan in 2009 consistent with the requirements in state statutes and has amended the plan from time to time, most recently in 2016. The plan is intended to consider the next 20 years with respect to a wide range of factors.

The petitioner is requesting a change to the future land use map so the school district can buy the property at 560 Bay View Road and use the existing building as an alternative school with a limited student population.

If the plan is amended as requested, the school district would the need to amend the zoning code including the zoning map and apply for a conditional use approval.

The location of the property is depicted with the black dotted line. It is currently classified as Low Intensity Commercial/Business and is in the Business Mixed Use Overlay. The proposal is to change it to Government and Institutional, which allows schools. The overlay will remain unchanged.



Review procedure The Plan Commission makes a recommendation in the form of a resolution. The Village Board will conduct a public hearing and make the final decision.

As described in the resolution, the Plan Commission and/or Village Board may request additional opportunities for public participation, in addition to a required public hearing. The Plan Commission will need to determine if such additional input is needed in this instance.

Public notice Aside from being included on the meeting agenda, no other public notice is required. The public hearing with the Village Board will be noticed with a class 1 notice.

Potential motion for approval Recommend to the Village Board the approval of the proposed revision to the Village Comprehensive Plan as set forth in the resolution as drafted

Attachments

1. Plan Commission Resolution 2022-18

PLAN COMMISSION RESOLUTION 2022-18

PLAN COMMISSION RESOLUTION RECOMMENDING TO THE VILLAGE BOARD A REVISION TO THE “COMPREHENSIVE PLAN 2035” FOR THE VILLAGE OF MUKWONAGO

WHEREAS, the Village Board is authorized by state law to adopt a comprehensive plan as defined in Sections 66.1001(1)(a) and 66.1001(2), Wis. Stats.; and

WHEREAS, the Village Board, upon recommendation of the Village Plan Commission, adopted a comprehensive plan on October 6, 2009; and

WHEREAS, the Village Board is authorized to amend the adopted comprehensive plan from time to time, upon recommendation of the Village Plan Commission; and

WHEREAS, the Village Board adopted a public participation plan that describes the way in which Village residents and other interested parties can participate in the revision of the adopted comprehensive plan; and

WHEREAS, the Mukwonago Area School District (MASD) has submitted a petition to the Village to amend the future land use map (Map 8) of the adopted comprehensive plan by changing the classification of the property at 560 Bay View Road from Low Intensity Commercial/Business to Government and Institutional; and

WHEREAS, the petitioner's request constitutes a minor amendment as set forth in the adopted public participation plan; and

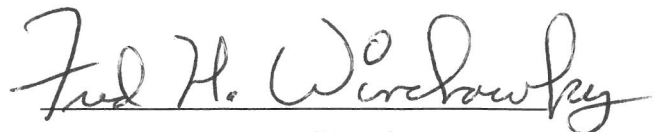
WHEREAS, the Village Plan Commission at their meeting on October 11, 2022 has determined that additional opportunities for public participation (aside from the public hearing to be conducted by the Village Board) are not needed for this minor amendment owing to the limited nature of the request; and

WHEREAS, the Village Plan Commission reviewed the petitioner's request at their meeting on October 11, 2022, and found it to be a desirable change; and

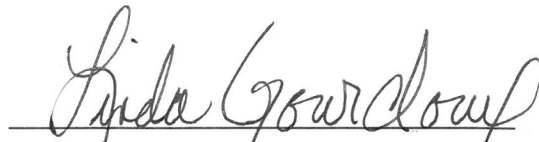
WHEREAS, the Village Plan Commission finds that the adopted comprehensive plan, with the proposed amendment, contains all required elements as required in Section 66.1001 (2) of Wisconsin Statutes.

NOW, THEREFORE, BE IT RESOLVED, the Village of Mukwonago Plan Commission recommends to the Village Board approval of the proposed change PROVIDED the property owner applies for such other approvals needed to accommodate a school within 16 months of the date of the amendment.

Adopted this 11th day of October, 2022.



Fred H. Winchowky, Plan Commission Chairman



Linda Gourdoux, Deputy Village Clerk

**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

ORDINANCE NO. 1015

**ORDINANCE TO AMEND CHAPTER 100 OF THE VILLAGE OF MUKWONAGO
MUNICIPAL CODE REGARDING THE PUBLIC AND SEMIPUBLIC DISTRICT AND THE
ZONING CLASSIFICATION OF THE PROPERTY LOCATED AT 560 BAY VIEW ROAD**

SECTION 1

Repeal and recreate section 100-251, which relates to the Public and Semipublic District, to read as revised below.

§ 100-251 Regulations.

- (a) Permitted uses. Parks, arboretums, playgrounds, fishing, wading, swimming, beaches, skating, sledding, sustained yield forestry, wildlife preserves, soil and water conservation, water measurement and water control facilities, golf courses and cemeteries, churches and other places of worship.
- (b) Conditional uses.
 - (1) All structures.
 - (2) Airports (provided that the site area is greater than 20 acres).
 - (3) Governmental and cultural uses (such as fire and police stations, municipal buildings, community centers, libraries, and public emergency shelters).
 - (4) Colleges, universities, hospitals, and museums ~~and public and private schools~~ (provided that the site area is more than two acres and that all principal structures and uses are greater than 50 feet from any lot line).
 - (5) Recreational uses such as archery ranges, camps, driving ranges, marinas, music halls, pools, riding academies, sports fields, stadiums, and zoological or botanical gardens, provided that the lot area for all uses listed in this paragraph are not less than three acres and all structures are not less than 50 feet from any district boundary.
 - (6) Elementary, middle, and high schools (K-12) provided that any school with more than 50 on-site students must be located on a parcel that is more than 2 acres and principal buildings must be at least 50 feet from any lot line.

SECTION 2

Amend the zoning map by changing the classification of the parcel located at 560 Bay View Road (MUKV2010978017) from B-2 (General Business) to P-1 (Public and Semipublic).

SECTION 3

The several sections of this Ordinance shall be considered severable. If any section shall be considered by a court of competent jurisdiction to be invalid, such decision shall not affect the validity of the other portions of the Ordinance.

SECTION 4

This Ordinance shall take effect upon passage and publication as approved by law, and the Village Clerk shall so amend the Code of Ordinances of the Village of Mukwonago, and shall indicate the date and number of this amending ordinance therein.

PASSED AND ADOPTED by the Village Board this 16th day of November, 2022.

APPROVED:

Fred Winchowky, Village President

Countersigned:

Diana Dykstra, Village Clerk/Treasurer

Accounts Payable Cover Sheet

Report:	Period or corresponding report date		
Village Accounts Payable	11/10/2022	\$	154,996.70

Total for Approval: \$ 154,996.70

The preceding list of bills payable was approved for payment

Date: _____

Approved by: _____

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
EXP CHECK RUN DATES 11/17/2022 - 11/17/2022
UNJOURNALIZED OPEN AND PAID
BANK CODE: GEN - CHECK TYPE: PAPER CHECK

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: ALSCO						
IMIL1854804	PD NOVEMBER 3 MAT CLEANING SERVICE	100-5211-539400	39.63	39.63	POLICE	11/17/2022
IMIL1852704	VH WALKOFF MATS	100-5160-521900	80.91	80.91	DPW	11/17/2022
IMIL1834059	PD AUGUST 25 MAT CLEANING SERVICE	100-5211-539400	38.66	38.66	POLICE	11/17/2022
TOTAL VENDOR ALSCO				159.20		
VENDOR NAME: AM TOWING						
W33019	PATROL TRUCK #12 TOWING	100-5324-539500	675.00	675.00	DPW	11/17/2022
TOTAL VENDOR AM TOWING				675.00		
VENDOR NAME: AMAZON CAPITOL SERVICES						
16MP317X9KNJ	ELECTION POWER CORDS	100-5144-531100	118.66	118.66	CLERK	11/17/2022
1J1431PDCXFN	PAGING SYSTEM RELATED TO PHONE UPGRADE	100-5150-531100	144.95	144.95	LIBRARY	11/17/2022
1GRX7WQKKMXK	OFFICE SUPPLIES	100-5142-531100	69.19	69.19	CLERK	11/17/2022
1P39T36KC4WC	OFFICE SUPPLIES	100-5144-531100	12.37	12.37	CLERK	11/17/2022
1FNDWCN749NC	PUMP IMPELERS	100-5323-531100	21.98	21.98	DPW	11/17/2022
1WQ7HV3G7QXJ	PD PAGING SYSTEM ADAPTER FOR VONAGE PHON	100-5211-522950	143.99	143.99	POLICE	11/17/2022
TOTAL VENDOR AMAZON CAPITOL SERVICES				511.14		
VENDOR NAME: ASSOCIATED APPRAISAL CONSULTANT INC						
165142	NOV 2022 ASSESSMENT SVS	100-5153-521900	1,464.24	1,464.24	CLERK	11/17/2022
TOTAL VENDOR ASSOCIATED APPRAISAL CONSULTANT INC				1,464.24		
VENDOR NAME: BASSETT MECHANICAL						
6510043C	WWTF MONTHLY HVAC MAINT CONTRACT	620-8400-852000	779.00	779.00	UTILITIES	11/17/2022
TOTAL VENDOR BASSETT MECHANICAL				779.00		
VENDOR NAME: BOUND TREE MEDICAL LLC						
84743400	EMS SUPPLIES	150-5231-531100	402.78	402.78	FIRE	11/17/2022
84737827	EMS SUPPLIES	150-5231-531100	192.54	192.54	FIRE	11/17/2022
84747510	EMS SUPPLIES	150-5231-531100	20.00	20.00	FIRE	11/17/2022
TOTAL VENDOR BOUND TREE MEDICAL LLC				615.32		
VENDOR NAME: BRIGHTSPEED						
2022 OCTOBER	PHONE SERVICE OCTOBER 2022	100-5142-522500	76.98	561.17	ALLOCATE	11/17/2022
		100-5211-522500	54.52			
		100-5323-522500	106.84			
		440-5511-522500	189.90			
		610-6920-692100	33.52			
		620-8400-851000	99.41			
TOTAL VENDOR BRIGHTSPEED				561.17		
VENDOR NAME: C & M AUTO PARTS INC						
6079-359176	TRUCK FILTERS	100-5324-539500	1,216.50	1,216.50	DPW	11/17/2022
6079-359173	JOHN DEERE UTV 3484	430-5700-571300	31.39	31.39	FIRE	11/17/2022
6079-359544	MOWER BELT	100-5324-539500	28.16	28.16	DPW	11/17/2022
6079-359310	SQUAD 34 BULBS	100-5212-539500	14.07	14.07	POLICE	11/17/2022
6079-359559	WWTF OIL DRY	620-8010-827000	77.56	77.56	UTILITIES	11/17/2022
TOTAL VENDOR C & M AUTO PARTS INC				1,367.68		

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: CENTRAL OFFICE SYSTEMS						
77925044	OCTOBER LEASE PAYMENT 458	100-5142-531200	15.51	165.00	ALLOCATE	11/17/2022
		100-5300-539900	16.02			
		100-5120-531100	11.10			
		100-5141-531100	1.70			
		100-5145-531100	18.04			
		100-5241-531200	3.35			
		100-5632-531200	4.98			
		100-5211-521900	26.55			
		150-5221-531100	12.06			
		410-5363-531200	1.65			
		440-5511-531200	22.64			
		500-5344-531200	1.65			
		610-6902-690300	15.05			
		620-8300-840000	14.70			
77916983	COPIER INVOICE	150-5221-531100	92.00	92.00	FIRE	11/17/2022
TOTAL VENDOR CENTRAL OFFICE SYSTEMS				257.00		
VENDOR NAME: CENTURY SPRINGS BOTTLING						
5286249	WWTF LAB TESTING SUPPLIES	620-8010-826000	59.88	59.88	UTILITIES	11/17/2022
5286254	VH DRINKING WATER	100-5160-531100	35.94	35.94	DPW	11/17/2022
TOTAL VENDOR CENTURY SPRINGS BOTTLING				95.82		
VENDOR NAME: CINTAS						
4135789321	WATER/WWTF UNIFORM SERVICE	610-6920-693000	95.82	195.82	UTILITIES	11/17/2022
		620-8010-827000	100.00			
4135789414	STAFF UNIFORMS AND SHOP SUPPLIES	100-5323-531100	111.48	111.48	DPW	11/17/2022
4136472854	STAFF UNIFPRMS AND SHOP SUPPLIES	100-5323-531100	111.48	111.48	DPW	11/17/2022
4136472809	WATER/WWTF UNIFORM SERVICE	610-6920-693000	90.00	179.82	UTILITIES	11/17/2022
		620-8010-827000	89.82			
TOTAL VENDOR CINTAS				598.60		
VENDOR NAME: CONLEY MEDIA, LLC						
6362411022 FIRE	FIRE REFERENDUM ANNOUNCEMENT	150-5221-521900	31.98	31.98	FIRE	11/17/2022
6362411022 PLANNING	PUBLIC HEARING NOTICES	100-5632-531200	81.17	81.17	PLANNER	11/17/2022
6362411022 CLERK	PUBLIC TEST NOV NOTICE	100-5144-531200	12.99	12.99	CLERK	11/17/2022
TOTAL VENDOR CONLEY MEDIA, LLC				126.14		
VENDOR NAME: COREY OIL, LTD						
276890 FIRE	OIL FOR OIL CHANGES-DIESEL	150-5222-539500	392.98	392.98	FIRE	11/17/2022
276890 DPW	TRUCK OIL	100-5324-535100	502.03	502.03	DPW	11/17/2022
TOTAL VENDOR COREY OIL, LTD				895.01		
VENDOR NAME: DIGGERS HOTLINE INC						
221038301	WATER/WWTF LOCATES FEES	610-6920-693000	133.00	266.66	UTILITIES	11/17/2022
		620-8030-531000	133.66			

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: DIGGERS HOTLINE INC					
TOTAL VENDOR DIGGERS HOTLINE INC			266.66		
VENDOR NAME: DOMINION VOTING SYSTEMS					
DVS147005	PREVENT MAINT AGMT WALWORTH VOTING	100-5144-521900 195.00	195.00	CLERK	11/17/2022
TOTAL VENDOR DOMINION VOTING SYSTEMS			195.00		
VENDOR NAME: DRAGONFLY EMBROIDERY					
20289	EMBROIDERY SHIRTS	100-5141-539800 438.90	438.90	CLERK	11/17/2022
TOTAL VENDOR DRAGONFLY EMBROIDERY			438.90		
VENDOR NAME: DYNAMIC AWARDS					
20479	BOARD ROOM SIGNAGE	100-5111-531100 54.00	54.00	CLERK	11/17/2022
20451	WINCHOWKY MEMORIAL PLAQUE	340-5890-580601 80.00	80.00	DPW	11/17/2022
TOTAL VENDOR DYNAMIC AWARDS			134.00		
VENDOR NAME: EMERGENCY MEDICAL PRODUCTS					
2496151	EMS SUPPLIES	150-5231-531100 499.20	499.20	FIRE	11/17/2022
2499106	EMS SUPPLIES	150-5231-531100 138.99	138.99	FIRE	11/17/2022
2499185	EMS SUPPLIES	150-5231-531100 23.40	23.40	FIRE	11/17/2022
2498475	EMS SUPPLIES	150-5231-531100 305.94	305.94	FIRE	11/17/2022
2499649	EMS SUPPLIES	150-5231-531100 59.99	59.99	FIRE	11/17/2022
TOTAL VENDOR EMERGENCY MEDICAL PRODUCTS			1,027.52		
VENDOR NAME: EMPATHIA, INC.					
45233	QUARTERLY EAP BENEFIT COST	100-5141-515900 3.75	438.75	FINANCE	11/17/2022
		100-5241-515900 7.50			
		100-5142-515900 7.50			
		100-5120-511000 7.50			
		100-5632-515900 3.75			
		150-5221-515900 183.75			
		440-5511-515900 71.25			
		100-5211-515900 86.25			
		100-5300-515900 26.25			
		610-6920-515900 13.12			
		620-8400-515900 13.13			
		100-5145-515900 15.00			
TOTAL VENDOR EMPATHIA, INC.			438.75		
VENDOR NAME: ENVIRONMENT CONTROL					
24644-613	VILLAGE HALL CLEANING	100-5160-521900 698.00	698.00	DPW	11/17/2022
TOTAL VENDOR ENVIRONMENT CONTROL			698.00		
VENDOR NAME: EXCEL BUILDING SERVICES LLC					
3926	PD OCTOBER BUILDING CLEANING SERVICE	100-5211-539400 975.00	975.00	POLICE	11/17/2022
TOTAL VENDOR EXCEL BUILDING SERVICES LLC			975.00		
VENDOR NAME: FASTENAL COMPANY					
WIMUK94936	PROJECT MARKING PAINT	100-5341-539500 42.48	42.48	DPW	11/17/2022

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VENDOR NAME: FASTENAL COMPANY						
TOTAL VENDOR FASTENAL COMPANY				42.48		
VENDOR NAME: GENERAL CODE, CMS						
GC00118802	ANNUAL MAINT MUNICIPAL CODE	100-5142-521900	995.00	995.00	CLERK	11/17/2022
TOTAL VENDOR GENERAL CODE, CMS				995.00		
VENDOR NAME: GENESEE AGGREGATE CORP						
17734	SLUDGING SAND	620-8010-825500	175.99	351.98	ALLOCATE	11/17/2022
		100-5660-535400	175.99			
TOTAL VENDOR GENESEE AGGREGATE CORP				351.98		
VENDOR NAME: GENESEE AGGREGATE TRUCKING						
T17734	SLUDGING SAND HAULING CHARGE	620-8010-825500	130.30	260.59	UTILITIES	11/17/2022
		100-5660-535400	130.29			
TOTAL VENDOR GENESEE AGGREGATE TRUCKING				260.59		
VENDOR NAME: GRAINGER						
9481485820	WWTF BLOWER AIR FILTERS	620-8010-833000	62.92	62.92	UTILITIES	11/17/2022
9483203924	WWTF LAB SUPPLIES	620-8010-826000	85.30	85.30	UTILITIES	11/17/2022
TOTAL VENDOR GRAINGER				148.22		
VENDOR NAME: GREG PETRAUSKI						
103122	PROJECT COMPETED - BOND REFUND	100-0000-211425	645.99	645.99	FINANCE	11/17/2022
TOTAL VENDOR GREG PETRAUSKI				645.99		
VENDOR NAME: HAHN ACE HARDWARE						
2022 OCT DPW	MISC SUPPLIES	100-5160-531100	17.09	35.61	DPW	11/17/2022
		100-5323-531100	18.52			
2022 OCT FIRE	WI DNR GRANT ACE HARDWARE INVOICE AND EM	150-5700-571300	689.99	759.74	FIRE	11/17/2022
		150-5231-531100	69.75			
2022 OCT UTILITIES	WATER HMO STUDY SETUP	610-6210-662300	5.93	287.77	UTILITIES	11/17/2022
		610-6210-662300	17.99			
		620-8010-824000	59.33			
		620-8010-826000	7.43			
		620-8010-826000	19.79			
		620-8010-827000	5.39			
		620-8010-827000	43.16			
		620-8010-827000	5.02			
		620-8010-833000	12.59			
		620-8010-833000	5.40			
		620-8010-834000	105.74			
TOTAL VENDOR HAHN ACE HARDWARE				1,083.12		

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VENDOR NAME: HAWKINS WATER TREATMENT					
6312477	WATER CHEMICALS FOR TREATMENT	610-6300-663100	50.00	50.00 UTILITIES	11/17/2022
6319759	WATER HMO CHEMICALS FOR TREATMENT	610-6300-663100	84.22	84.22 UTILITIES	11/17/2022
6320769	WATER CHEMICALS FOR TREATMENT	610-6300-663100	1,443.74	1,443.74 UTILITIES	11/17/2022
6315376	WWTF CHEMICAL FEED PUMP PARTS	620-8010-824000	247.28	247.28 UTILITIES	11/17/2022
TOTAL VENDOR HAWKINS WATER TREATMENT			1,825.24		
VENDOR NAME: HIPPENMEYER, REILLY, BLUM,					
53590	2022 GREENWALD/DEBACK LITIGATION	100-5130-521900	180.00	180.00 FINANCE	11/17/2022
53587	PROSECUTIONS	100-5130-521900	1,162.50	1,162.50 FINANCE	11/17/2022
TOTAL VENDOR HIPPENMEYER, REILLY, BLUM,			1,342.50		
VENDOR NAME: HYDROCORP					
0069362-IN	WATER CROSS CONNECTION INSPECTIONS	610-6920-692300	1,788.00	1,788.00 UTILITIES	11/17/2022
TOTAL VENDOR HYDROCORP			1,788.00		
VENDOR NAME: JAMES IMAGING SYSTEMS					
1248162	COPIES KONICA 458- 07/30/22 - 10/29/22	100-5142-531200	75.43	802.41 ALLOCATE	11/17/2022
		100-5300-539900	77.91		
		100-5120-531100	54.00		
		100-5141-531100	8.26		
		100-5145-531100	87.72		
		100-5241-531200	16.29		
		100-5632-531200	24.23		
		100-5211-521900	129.11		
		150-5221-531100	58.66		
		410-5363-531200	8.02		
		440-5511-531200	110.09		
		500-5344-531200	8.02		
		610-6902-690300	73.18		
		620-8300-840000	71.49		
TOTAL VENDOR JAMES IMAGING SYSTEMS			802.41		
VENDOR NAME: JOHNS DISPOSAL SVC. INC.					
978805	LANDFILL CHARGES RELATED TO STREET SWEEP	100-5345-539000	614.50	614.50 DPW	11/17/2022
970266	OCTOBER GARBAGE & RECYCLING/ STREET SWEEP	100-5345-539000	657.50	45,444.74 DPW	11/17/2022
		410-5362-531000	25,649.43		
		410-5363-522000	19,137.81		
TOTAL VENDOR JOHNS DISPOSAL SVC. INC.			46,059.24		
VENDOR NAME: KETTLE MORAIN COMMUNITY RADIO INC					
00005	2023 RADIO CONTRACT	100-5670-532400	800.00	800.00 ADMIN	11/17/2022
TOTAL VENDOR KETTLE MORAIN COMMUNITY RADIO INC			800.00		
VENDOR NAME: LAKESIDE INTERNATIONAL					
1378195P	PATROL TUCK #9 PARTS	100-5324-539500	79.82	79.82 DPW	11/17/2022
1378180P	PATROL TRUCK #12	100-5324-539500	226.60	226.60 DPW	11/17/2022
TOTAL VENDOR LAKESIDE INTERNATIONAL			306.42		

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VENDOR NAME: LYNCH CHEVROLET						
4097092	WATER OIL CHANGE/TIRE ROTATION	610-6920-693300	78.45	78.45	UTILITIES	11/17/2022
TOTAL VENDOR LYNCH CHEVROLET				78.45		
VENDOR NAME: LYNCH MUKWONAGO FORD						
0812916	TRAINING SQUAD BELT REPLACEMENT	100-5212-539500	27.00	27.00	POLICE	11/17/2022
TOTAL VENDOR LYNCH MUKWONAGO FORD				27.00		
VENDOR NAME: MARCO TECHNOLOGIES						
32736782	WWTF COPIER COSTS	620-8400-851000	201.04	201.04	UTILITIES	11/17/2022
TOTAL VENDOR MARCO TECHNOLOGIES				201.04		
VENDOR NAME: MUKWONAGO AREA CHAMBER OF COMM						
102522	ROOM TAX DUE TO CHAMBER	100-0000-244000	1,832.16	3,876.01	CLERK	11/17/2022
		100-0000-244000	2,043.85			
TOTAL VENDOR MUKWONAGO AREA CHAMBER OF COMM				3,876.01		
VENDOR NAME: NAPA AUTO PARTS - SP018						
178639	3496 BOAT BATTERIES	150-5222-531100	247.10	247.10	FIRE	11/17/2022
177773	EMS SUPPLIES	150-5231-531100	78.59	78.59	FIRE	11/17/2022
177568	HYDRAULIC HOSES	100-5324-539500	58.57	58.57	DPW	11/17/2022
178129	HYDRAULIC FITTING	100-5324-539500	4.47	4.47	DPW	11/17/2022
177457	NAPA CREDIT	150-5231-539500	(0.84)	(0.84)	FIRE	11/17/2022
177448	3452 HEADLIGHT BULB	150-5231-539500	2.86	2.86	FIRE	11/17/2022
TOTAL VENDOR NAPA AUTO PARTS - SP018				390.75		
VENDOR NAME: NORTHERN LAKE SERVICE INC						
428159	WATER BAC T TESTING	610-6300-663200	92.00	92.00	UTILITIES	11/17/2022
TOTAL VENDOR NORTHERN LAKE SERVICE INC				92.00		
VENDOR NAME: PREMIER REAL ESTATE						
REFUND112022	UB REFUND #7127 - 540 PHANTOM WOODS APT	610-0000-142000	84.38	84.38	ALLOCATE	11/17/2022
TOTAL VENDOR PREMIER REAL ESTATE				84.38		
VENDOR NAME: PROHEALTH CARE LAB BILLING						
10001841533	OCTOBER BLOOD DRAWS	100-5212-521900	216.30	216.30	POLICE	11/17/2022
TOTAL VENDOR PROHEALTH CARE LAB BILLING				216.30		
VENDOR NAME: PROVEN POWER INC						
02-413347	JOHN DEERE UTV 3484	430-5700-571300	31.01	31.01	FIRE	11/17/2022
TOTAL VENDOR PROVEN POWER INC				31.01		
VENDOR NAME: QUADIENT LEASING USA INC						

INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: QUADIENT LEASING USA INC						
N9646289	08/27 - 11/26 2022 POSTAGE LEASE PYMT	100-5142-531500	66.55	468.69	ALLOCATE	11/17/2022
		150-5221-531100	61.87			
		410-5363-531500	9.37			
		440-5511-531500	24.37			
		500-5344-531500	4.69			
		610-6902-690300	155.61			
		620-8400-851000	146.23			
TOTAL VENDOR QUADIENT LEASING USA INC				468.69		
VENDOR NAME: ROBERT W. BAIRD & CO.						
PF-22004729	TID 6 CREATION	100-5670-521900	8,750.00	8,750.00	FINANCE	11/17/2022
TOTAL VENDOR ROBERT W. BAIRD & CO.				8,750.00		
VENDOR NAME: RUEKERT & MIELKE, INC.						
143832	12-00000.100 General Services	100-5335-521900	8,851.05	13,140.28	FINANCE	11/17/2022
		100-5670-521900	1,872.00			
		250-5335-521900	1,242.00			
		480-5700-584900	1,175.23			
143833	12-10063.210 2022 GIS Services - GIS Dat	100-5335-521900	866.25	1,062.75	FINANCE	11/17/2022
		100-5341-539500	196.50			
143835	12-10087.300 Holz Parkway & Miniwaukan P	480-5700-584800	3,619.06	3,619.06	FINANCE	11/17/2022
143836	12-10096.300 Deback Drive Infrastructure	200-5335-521900	1,618.18	1,618.18	FINANCE	11/17/2022
143837	12-10098.122 WWTF Phosphorus Assistance	620-8400-852100	1,963.75	1,963.75	FINANCE	11/17/2022
143838	12-10115.300 2019 Well & Well Pump Impro	610-6920-692300	82.00	82.00	FINANCE	11/17/2022
143840	12-10131.231 Atkinson Pump Station Capac	620-0000-000104	1,165.58	1,165.58	FINANCE	11/17/2022
143843	12-10141.300 Indianhead Park Outdoor Per	480-5700-584900	759.00	759.00	FINANCE	11/17/2022
143848	12-10151.310 WWTF Aeration Upgrade / Con	620-0000-000105	1,049.95	1,049.95	FINANCE	11/17/2022
143850	12-10163.100 Banker Wire Expansion / Rev	100-0000-211400	102.66	102.66	FINANCE	11/17/2022
143851	12-10169.100 Wells 3 and 4 Radium Remova	610-6920-692300	762.00	762.00	FINANCE	11/17/2022
143855	12-10176.170 Minor Park Pedestrian Culve	480-5700-584900	1,422.00	1,422.00	FINANCE	11/17/2022
143858	12-92041.700 2022 SCADA Service Work	620-8400-852000	2,301.25	2,301.25	FINANCE	11/17/2022
143834	12-10069.104 CHAPMAN FARMS PORTION OF VI	100-0000-211425	184.66	184.66	FINANCE	11/17/2022
B19-0027	12-10127.100 210 MCDIVITT LANE EXPANSION	100-0000-211425	152.82	152.82	FINANCE	11/17/2022
143841	12-10134.100 200 GRAND AVENUE CONDOS / R	100-0000-211425	242.57	242.57	FINANCE	11/17/2022
143842	12-10139.310 MEADOWLAND TOWNHOMES DEVELO	100-0000-211425	127.41	127.41	FINANCE	11/17/2022
143844	12-10147.330 MINOR ESTATES PHASE 4 / OUT	100-0000-211425	8,334.89	8,334.89	FINANCE	11/17/2022
143845	12-10148.300 GOODWILL OF MUKWONAGO / CON	100-0000-211425	102.66	102.66	FINANCE	11/17/2022
143846	12-10149.300 EDGEWOOD CONDOS / EROSION C	100-0000-211425	102.66	102.66	FINANCE	11/17/2022
143847	12-10149.310 EDGEWOOD CONDOS / EROSION C	100-0000-211425	102.66	102.66	FINANCE	11/17/2022
143849	12-10162.300 FLUERY'S EXPANSION / EROSIO	100-0000-211425	128.07	128.07	FINANCE	11/17/2022
143852	12-10170.300 600 PERKINS DRIVE IDC / ERO	100-0000-211425	227.07	227.07	FINANCE	11/17/2022
143854	12-10174.300 LYNCH BUILDING ADDITION	100-0000-211425	349.45	349.45	FINANCE	11/17/2022
143856	12-10178.300 HILL COURT RELOAD SOUTH MUL	100-0000-211425	2,516.76	2,516.76	FINANCE	11/17/2022
143857	12-10180.300 CAMPBELL CONSTRUCTION ADDIT	100-0000-211425	210.07	210.07	FINANCE	11/17/2022
143859	12-92097.306 FAIRWINDS PHASE 5 CONSTRUCT	100-0000-211425	10,525.49	10,525.49	FINANCE	11/17/2022
143860	12-92136.302 CHAPMAN FARM / CHAPMAN VILL	100-0000-211425	127.41	127.41	FINANCE	11/17/2022
143861	12-92136.303 CHAPMAN FARM / CHAPMAN RESI	100-0000-211425	4,803.71	4,803.71	FINANCE	11/17/2022
143862	12-92191.103 PRO HEALTH EXPANSION / 2018	100-0000-211425	418.57	418.57	FINANCE	11/17/2022

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VENDOR NAME: RUEKERT & MIELKE, INC.						
	TOTAL VENDOR RUEKERT & MIELKE, INC.			57,705.39		
VENDOR NAME: RYAN JANSSEN						
103122	PROJECT COMPLETED - BOND REFUND	100-0000-211425	2,500.00	2,500.00	FINANCE	11/17/2022
	TOTAL VENDOR RYAN JANSSEN			2,500.00		
VENDOR NAME: SHRED-IT USA						
8002565676	2022 OCTOBER VH SHREDDING SERVICES	100-5141-531100	45.83	91.65	ALLOCATE	11/17/2022
		100-5142-531100	22.91			
		100-5632-531100	22.91			
8002608476 PD OCTOBER SHRED SERVICE						
		100-5211-521900	90.10	90.10	POLICE	11/17/2022
	TOTAL VENDOR SHRED-IT USA			181.75		
VENDOR NAME: TRILOGY CONSULTING LLC						
1418	WATER WWTF RATES , IMPACT FEES AND GENER	610-6920-692300	495.00	990.00	UTILITIES	11/17/2022
		620-8400-852000	495.00			
	TOTAL VENDOR TRILOGY CONSULTING LLC			990.00		
VENDOR NAME: ULINE						
155233632	WWTF PALLET RACKING	620-8010-833000	4,376.01	4,376.01	UTILITIES	11/17/2022
155060976	WWTF LAB GLOVES	620-8010-826000	250.45	250.45	UTILITIES	11/17/2022
155348269	WWTF PALLET RACKING	620-8010-833000	883.21	883.21	UTILITIES	11/17/2022
155973734	WWTF BLOWER BLD PALLET RACKING	620-8010-833000	427.21	427.21	UTILITIES	11/17/2022
155684416	WWTF BLOWER BLD PALLET RACKING	620-8010-833000	79.83	79.83	UTILITIES	11/17/2022
155496685	WWTF PALLET RACKING SHIPPING ERROR REFUN	620-8010-833000	(1,128.00)	(1,128.00)	UTILITIES	11/17/2022
	TOTAL VENDOR ULINE			4,888.71		
VENDOR NAME: UNITED STATES ALLIANCE FIRE PROTECT						
1046-F091262	FIRE PANEL INSPECTION DPW	100-5323-521900	355.00	355.00	DPW	11/17/2022
1046-F091228	FIRE PANEL INSPECTION	100-5160-521900	235.00	235.00	DPW	11/17/2022
	TOTAL VENDOR UNITED STATES ALLIANCE FIRE PROTECT			590.00		
VENDOR NAME: USA BLUEBOOK						
158672	WTER/WWTF LAB SUPPLIES	610-6300-663200	786.40	896.40	UTILITIES	11/17/2022
		620-8010-826000	110.00			
	TOTAL VENDOR USA BLUEBOOK			896.40		
VENDOR NAME: VAN AACKEN KEVIN						
2022 OCT MILEAGE	VAN AACEKN MILEAGE AND PARKING	100-5323-533500	83.63	83.63	DPW	11/17/2022
	TOTAL VENDOR VAN AACKEN KEVIN			83.63		
VENDOR NAME: VERIZON WIRELESS						

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VENDOR NAME: VERIZON WIRELESS						
9918095162	SEPTEMBER-OCTOBER2022 PHONE BILL	100-5141-522500	64.29	968.71	ALLOCATE	11/17/2022
		100-5241-522500	103.32			
		100-5211-522500	14.75			
		100-5323-522500	383.63			
		610-6920-692100	177.69			
		620-8400-851000	177.69			
		100-5632-522500	47.34			
9918095163	2022 OCTOBER CELL BILL ACCT# 885503900-0	100-5323-522500	21.66	265.79	ALLOCATE	11/17/2022
		610-6920-692100	122.06			
		620-8400-851000	122.07			
TOTAL VENDOR VERIZON WIRELESS				1,234.50		
VENDOR NAME: VIEW INC						
REFUND112022	UB REFUND #3661 - FORK IN ROAD	610-0000-142000	79.38	79.38	ALLOCATE	11/17/2022
TOTAL VENDOR VIEW INC				79.38		
VENDOR NAME: VILLAGE OF VERNON						
8317	NOV ELECTION NOTICE	100-5144-531200	19.08	19.08	CLERK	11/17/2022
TOTAL VENDOR VILLAGE OF VERNON				19.08		
VENDOR NAME: WALWORTH CTY SECURITY ALARMS LLC						
16319	FD ALARM PANEL MONITORING	100-5220-539400	444.00	444.00	DPW	11/17/2022
16320	FIRE ALARM MONITORING	100-5512-582100	444.00	444.00	DPW	11/17/2022
16343	ALRM PANEL SERVICE CALL	100-5512-582100	288.00	288.00	DPW	11/17/2022
TOTAL VENDOR WALWORTH CTY SECURITY ALARMS LLC				1,176.00		
VENDOR NAME: WAUKESHA CTY TREASURER						
2022-20040135	WAUKESHA COUNTY SEPTEMBER PRISONER HOUSI	100-5212-521900	18.80	18.80	POLICE	11/17/2022
TOTAL VENDOR WAUKESHA CTY TREASURER				18.80		
VENDOR NAME: WAUKESHA FLORAL & GREENHOUSE						
00752291	FLOWERS FOR CHAPMAN FUNERAL	100-5120-539900	68.99	68.99	FINANCE	11/17/2022
TOTAL VENDOR WAUKESHA FLORAL & GREENHOUSE				68.99		
VENDOR NAME: WCTC						
S0785438	WCTC TRAINING	100-5215-533500	688.10	688.10	POLICE	11/17/2022
TOTAL VENDOR WCTC				688.10		
VENDOR NAME: WI STATE LAB OF HYGIENE						
30012607	WWTF LAB TESTING QC TESTING KIT	620-8010-826000	930.00	930.00	UTILITIES	11/17/2022
TOTAL VENDOR WI STATE LAB OF HYGIENE				930.00		
GRAND TOTAL:				154,996.70		

RESOLUTION 2022-66

**A RESOLUTION ADOPTING THE 2023 ANNUAL BUDGET
AND ESTABLISHING THE 2022 PROPERTY TAX LEVY COLLECTIBLE IN 2023
FOR THE VILLAGE OF MUKWONAGO**

WHEREAS, the Village of Mukwonago prepared an annual budget for the 2023 fiscal year in accordance with Section 2-172 of the Village of Mukwonago Municipal Code; and

WHEREAS, the Village Board has reviewed the proposed revenues from all sources and the proposed expenditures for all purposes and has found the proposed budget will responsibly and efficiently fund Village services and operations; and

WHEREAS, a public hearing on the 2023 Annual Budget was held on November 16, 2022 after due and proper notice of said hearing having been given in accordance with Wis. Stat. Section 65.90; and

WHEREAS, the Village Board has adopted certain resolutions relating to borrowing and levying irrepealably taxes sufficient to pay such borrowing; and

WHEREAS, a referendum question on the November 8, 2022 requesting an ongoing increase to the allowable Village of Mukwonago Levy by \$409,349 for additional Fire Department staffing passed and is included in the figures below, and

WHEREAS, it is necessary to levy a property tax in the amount of **\$7,402,393** to fund the expenses of the Village of Mukwonago as presented in the 2023 Annual Budget;

NOW THEREFORE, BE IT RESOLVED by the Village Board of Mukwonago, Wisconsin as follows:

1. That the 2023 Annual Budget, a summary of which is attached hereto and made a part hereof, be and is hereby approved.
2. That the property tax is hereby levied and shall be placed upon the 2022 tax roll as follows:

General Fund	\$3,208,321
Fire/Ambulance Fund	605,081
Debt Service Fund	2,732,701
Refuse Collection Fund	337,975
Library Fund	518,315

3. That the Village Administrator be and is hereby authorized to reduce or increase the expenditure amounts reflected in all funds of the 2023 Annual Budget through the transfer of funds between expenditure accounts within a budgetary function level, provided the authorized expenditure limit of the General Fund is not exceeded and the 2023 Annual Budget is not increased.

Passed and adopted by Roll Call Vote this 16th day of November, 2022.

Fred H. Winchowky, Village President

Attest: _____
Diana Dykstra, Clerk-Treasurer

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 150 - FIRE/AMBULANCE FUND									
ESTIMATED REVENUES									
4100	TAXES	222,854	191,015	194,835	97,418	194,835	605,081	210.56	410,246
4300	INTERGOV T REVENUES	49,446	53,562	47,000	9,079	69,707	60,632	29.00	13,632
4620	PUBLIC SAFETY	1,083,137	1,042,118	1,042,095	382,570	955,201	1,073,243	2.99	31,148
4700	INTERGOV T CHARGES FOR SERVICE	222,855	228,003	231,835	97,418	234,046	644,281	177.90	412,446
4800	MISC REVENUE	14,285	3,109		700	14,556			
4810	INTEREST REVENUE	712	282	270	312	660	660	144.44	390
4820	COMMERCIAL REVENUE	22,480	38,122		5,129	5,139			
4900	OTHER FINANCING SOURCES			40,403			48,173	19.23	7,770
TOTAL ESTIMATED REVENUES		1,615,769	1,556,211	1,556,438	592,626	1,474,144	2,432,070	56.26%	875,632
APPROPRIATIONS									
5140	ADMINISTRATIVE & GENERAL	26,361	26,888	27,869	13,934	27,869	27,869		
5221	FIRE ADMINISTRATION	951,691	980,905	1,002,618	470,168	993,986	1,065,202	6.24	62,584
5222	FIRE SUPPRESSION	49,245	58,341	57,880	22,002	53,738	60,380	4.32	2,500
5223	FIRE TRAINING	26,016	25,812	27,429	11,547	22,948	27,429		
5231	AMBULANCE	383,468	376,990	357,904	172,470	349,080	355,754	(0.60)	(2,150)
5232	AMBULANCE TRAINING	15,184	15,618	14,738	8,319	15,051	14,738		
5233	REFERENDUM FUNDED STAFFING	0	0	0	0	0	679,116		679,116
5700	CAPITAL OUTLAY EXPENDITURES	42,420	70,783	38,000	8,597	29,000	38,000		
5880	USE OF GRANTS/DONATIONS	7,665	3,165		980	3,000			
5900	OTHER FINANCING USES	59,090	34,630	30,000			163,582	445.27	133,582
TOTAL APPROPRIATIONS		1,561,140	1,593,132	1,556,438	708,017	1,494,672	2,432,070	56.26%	875,632
NET OF REVENUES/APPROPRIATIONS - FUND 150		54,629	(36,921)		(115,391)	(20,528)			

2023 BUDGET INCLUDES THE REFERENDUM AMOUNT PASSED BY VOTERS IN BOTH THE VILLAGE AND TOWN OF MUKWONAGO. THE FULL AMOUNT ALLOCATED FOR FIRE IS INCLUDED IN THE REVENUES. EXPENDITURES INCLUDE AN ESTIMATED AMOUNT FOR 1ST YEAR STAFFING. THE DIFFERENCE IS INCLUDED IN THE "5900 OTHER FINANCING USES" LINE AS A TRANSFER OUT TO BE HELD IN RESERVE BY THE VILLAGE AND TOWN RESPECTIVELY FOR FUTURE INCREASES.

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 200 - COMMUNITY DEVELOPMENT FUND									
ESTIMATED REVENUES									
4810	INTEREST REVENUE	1,974	1,265	400	2,357	7,000	7,000	1,650.00	6,600
4900	OTHER FINANCING SOURCES	1,114,406	1,483,612	3,153,100			588,752	(81.33)	(2,564,348)
TOTAL ESTIMATED REVENUES		1,116,380	1,484,877	3,153,500	2,357	7,000	595,752	-81.11%	(2,557,748)
APPROPRIATIONS									
5130	VILLAGE ATTORNEY	210	574	5,000	100	100	2,000	(60.00)	(3,000)
5141	VILLAGE ADMINISTRATOR	4,986	5,074	5,500	3,323	5,000	2,000	(63.64)	(3,500)
5335	ENGINEERING	52,485	64,663		17,282	30,000			
5632	PLANNING DEPARTMENT	8,100	40,100	18,000	900	900	17,100	(5.00)	(900)
5700	CAPITAL OUTLAY EXPENDITURES	13,748	968,306	3,100,000	353,798	424,000	567,306	(81.70)	(2,532,694)
5805	DEBT ISSUANCE/REFUNDING EXP	24,405	28,168	25,000			7,346	(70.62)	(17,654)
TOTAL APPROPRIATIONS		103,934	1,106,885	3,153,500	375,403	460,000	595,752	-81.11%	(2,557,748)
NET OF REVENUES/APPROPRIATIONS - FUND 200		1,012,446	377,992		(373,046)	(453,000)			

This fund contains the budgets for the extension of Dewey Drive (by Gearbox) and the completion of the zoning code project started in 2021.

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 210 - WISCONSIN DEVELOPMENT FUND									
ESTIMATED REVENUES									
4810	INTEREST REVENUE	7,458	103		295	1,500	1,500		1,500
4900	OTHER FINANCING SOURCES			131,312			130,312	(0.76)	(1,000)
TOTAL ESTIMATED REVENUES		7,458	103	131,312	295	1,500	131,812	0.38%	500
APPROPRIATIONS									
5670	ECONOMIC DEVELOPMENT		1,000	131,312			130,312	(0.76)	(1,000)
5700	CAPITAL OUTLAY EXPENDITURES	31,700	45,988						
5900	OTHER FINANCING USES						1,500		1,500
TOTAL APPROPRIATIONS		31,700	46,988	131,312			131,812	0.38%	500
NET OF REVENUES/APPROPRIATIONS - FUND 210		(24,242)	(46,885)		295	1,500			

This fund contains the budget for the amount contractually due to Espresso Love upon completion of their project.

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 300 - DEBT SERVICE FUND									
ESTIMATED REVENUES									
4100	TAXES	2,373,863	2,405,481	2,521,365	2,122,981	2,521,365	2,732,701	8.38	211,336
4200	SPECIAL ASSESSMENTS	156,722	66,320	49,871		50,969	18,346	(63.21)	(31,525)
4810	INTEREST REVENUE	8,862	1,161	1,000	2,800	11,198		(100.00)	(1,000)
4900	OTHER FINANCING SOURCES	300,013	100,000	150,000		150,000	431,654	187.77	281,654
TOTAL ESTIMATED REVENUES		2,839,460	2,572,962	2,722,236	2,125,781	2,733,532	3,182,701	16.91%	460,465
APPROPRIATIONS									
5800	DEBT SERVICE	2,560,874	2,965,416	2,722,236	1,235,016	2,722,236	3,182,701	16.91	460,465
TOTAL APPROPRIATIONS		2,560,874	2,965,416	2,722,236	1,235,016	2,722,236	3,182,701	16.91%	460,465
NET OF REVENUES/APPROPRIATIONS - FUND 300		278,586	(392,454)		890,765	11,296			

This fund contains the budget for the Village's (Non-TID) General Obligation Debt Payments

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 320 - FIRE/AMBULANCE DESIGNATED									
ESTIMATED REVENUES									
4810	INTEREST REVENUE	1,486	163	130	555	1,435	700	438.46	570
4900	OTHER FINANCING SOURCES	29,545	17,315	140,000				(100.00)	(140,000)
TOTAL ESTIMATED REVENUES		31,031	17,478	140,130	555	1,435	700	-99.50%	(139,430)
APPROPRIATIONS									
5900	OTHER FINANCING USES			140,130		140,000	700	(99.50)	(139,430)
TOTAL APPROPRIATIONS				140,130		140,000	700	-99.50%	(139,430)
NET OF REVENUES/APPROPRIATIONS - FUND 320		31,031	17,478		555	(138,565)			

This fund contains the budget for the Village's share of the Fire Department's annual Settlement with the Town

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 340 - VILLAGE DESIGNATED FUND									
ESTIMATED REVENUES									
4800	MISC REVENUE	134,753	138,187	125,000	5,839	143,920	125,000		
4820	COMMERCIAL REVENUE	858							
4900	OTHER FINANCING SOURCES	46,000	5,400						
TOTAL ESTIMATED REVENUES		181,611	143,587	125,000	5,839	143,920	125,000		
APPROPRIATIONS									
5890	USE OF DESIGNATED FUNDS	57,658	31,253		7,030	14,566			
5900	OTHER FINANCING USES			125,000			125,000		
TOTAL APPROPRIATIONS		57,658	31,253	125,000	7,030	14,566	125,000		
NET OF REVENUES/APPROPRIATIONS - FUND 340		123,953	112,334		(1,191)	129,354			

This fund contains the budget for the Village's known source of donated funds and planned use of designated funds (made up primarily of donations)

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 350 - AMERICAN RESCUE PLAN ACT									
ESTIMATED REVENUES									
4300	INTERGOV T REVENUES			421,657	421,657	421,657		(100.00)	(421,657)
4810	INTEREST REVENUE		158	200	876	2,979	3,000	1,400.00	2,800
TOTAL ESTIMATED REVENUES			158	421,857	422,533	424,636	3,000	-99.29%	(418,857)
APPROPRIATIONS									
5900	OTHER FINANCING USES			421,857		424,636	3,000	(99.29)	(418,857)
TOTAL APPROPRIATIONS				421,857		424,636	3,000	-99.29%	(418,857)
NET OF REVENUES/APPROPRIATIONS - FUND 350			158		422,533				

This fund contains the budget for the Village's ARPA Funds which are planned to be spent on a Utilities infrastructure project

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 410 - RECYCLING FUND									
ESTIMATED REVENUES									
4100	TAXES	318,481	324,851	331,348	278,994	331,348	337,975	2.00	6,627
4300	INTERGOV T REVENUES	22,196	22,277	22,277	22,220	22,220	22,277		
4640	SANITATION	222,708	226,196	224,500	118,976	235,354	235,450	4.88	10,950
4800	MISC REVENUE	396	711	500	332	500	500		
4810	INTEREST REVENUE	1,676	433	200	434	1,000	1,000	400.00	800
4900	OTHER FINANCING SOURCES			21,860			26,136	19.56	4,276
TOTAL ESTIMATED REVENUES		565,457	574,468	600,685	420,956	590,422	623,338	3.77%	22,653
APPROPRIATIONS									
5362	GARBAGE COLLECTION	288,110	291,536	308,200	127,394	307,000	323,527	4.97	15,327
5363	RECYCLING	273,125	272,765	292,485	121,095	290,393	299,811	2.50	7,326
TOTAL APPROPRIATIONS		561,235	564,301	600,685	248,489	597,393	623,338	3.77%	22,653
NET OF REVENUES/APPROPRIATIONS - FUND 410		4,222	10,167		172,467	(6,971)			

This fund contains the budget for garbage and recycling services provided by John's Disposal

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 430 - CAPITAL EQUIPMENT FUND									
ESTIMATED REVENUES									
4100	TAXES	106,080	92,300	94,146	79,271	94,146		(100.00)	(94,146)
4300	INTERGOV T REVENUES	15,876							
4700	INTERGOV T CHARGES FOR SERVICE	184,980	391,626	190,000		190,000	72,500	(61.84)	(117,500)
4810	INTEREST REVENUE	800	337	200	729	4,200	1,000	400.00	800
4820	COMMERCIAL REVENUE	12,075	41,787						
4900	OTHER FINANCING SOURCES	511,195	693,277	364,154		140,000	556,101	52.71	191,947
TOTAL ESTIMATED REVENUES		831,006	1,219,327	648,500	80,000	428,346	629,601	-2.91%	(18,899)
APPROPRIATIONS									
5141	VILLAGE ADMINISTRATOR	1,853	1,222	1,500	1,642	1,980	2,000	33.33	500
5700	CAPITAL OUTLAY EXPENDITURES	737,745	1,047,909	638,000	236,634	681,040	615,601	(3.51)	(22,399)
5805	DEBT ISSUANCE/REFUNDING EXP	11,195	13,163	9,000			12,000	33.33	3,000
TOTAL APPROPRIATIONS		750,793	1,062,294	648,500	238,276	683,020	629,601	-2.91%	(18,899)
NET OF REVENUES/APPROPRIATIONS - FUND 430		80,213	157,033		(158,276)	(254,674)			

This fund contains the budget for the Village's capital equipment purchases identified in the 2023 year of the Village's 5 year CIP

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 440 - LIBRARY FUND									
ESTIMATED REVENUES									
4100	TAXES	455,695	464,809	474,105	399,195	474,105	518,315	9.32	44,210
4300	INTERGOV T REVENUES	533,012	529,214	569,484	286,244	568,430	569,811	0.06	327
4600	PUBLIC CHARGES FOR SERVICES	8,668	9,664	9,500	5,082	9,500	10,000	5.26	500
4670	LEISURE ACTIVITIES	13,696	17,031	13,500	9,606	13,254	13,000	(3.70)	(500)
4800	MISC REVENUE	73,970	59,322		12,655	48,037			
4810	INTEREST REVENUE	2,679	452	500	808	1,214	500		
TOTAL ESTIMATED REVENUES		1,087,720	1,080,492	1,067,089	713,590	1,114,540	1,111,626	4.17%	44,537
APPROPRIATIONS									
5511	LIBRARY SERVICES	897,282	892,540	966,185	472,810	974,712	1,030,626	6.67	64,441
5700	CAPITAL OUTLAY EXPENDITURES	63,616	114,917	100,904	41,245	100,904	81,000	(19.73)	(19,904)
5890	USE OF DESIGNATED FUNDS	69,727	71,870		14,906				
TOTAL APPROPRIATIONS		1,030,625	1,079,327	1,067,089	528,961	1,075,616	1,111,626	4.17%	44,537
NET OF REVENUES/APPROPRIATIONS - FUND 440		57,095	1,165		184,629	38,924			

This fund contains the operating budget for the Library. The larger than usual increase of tax revenue is to cover the COLA increase that we're planning to provide all non-represented employees
Misc Revenues are donations the Library receives - an amount is not budgeted for this line as it fluctuates from year-to-year and is not meant to offset regular operating expenses

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 480 - CAPITAL IMPROVEMENT FUND									
ESTIMATED REVENUES									
4300	INTERGOV T REVENUES	165,104	278,581	135,865		135,865	152,175	12.00	16,310
4700	INTERGOV T CHARGES FOR SERVICE	1,310	28,622						
4810	INTEREST REVENUE	19,614	2,274	1,500	5,504	14,645	30,000	1,900.00	28,500
4900	OTHER FINANCING SOURCES	1,575,468	3,173,463	2,817,928			1,584,443	(43.77)	(1,233,485)
TOTAL ESTIMATED REVENUES		1,761,496	3,482,940	2,955,293	5,504	150,510	1,766,618	-40.22%	(1,188,675)
APPROPRIATIONS									
5140	ADMINISTRATIVE & GENERAL			18,000	1,950	8,260	18,300	1.67	300
5151	INDEPENDENT AUDITING	4,056	4,171	4,000	4,888	6,500	6,500	62.50	2,500
5700	CAPITAL OUTLAY EXPENDITURES	2,319,632	1,532,117	2,903,293	94,495	1,312,868	1,706,237	(41.23)	(1,197,056)
5805	DEBT ISSUANCE/REFUNDING EXP	32,466	59,920	30,000			35,581	18.60	5,581
TOTAL APPROPRIATIONS		2,356,154	1,596,208	2,955,293	101,333	1,327,628	1,766,618	-40.22%	(1,188,675)
NET OF REVENUES/APPROPRIATIONS - FUND 480		(594,658)	1,886,732		(95,829)	(1,177,118)			

This fund contains the budget for the Village's capital improvement projects identified in the 2023 year of the Village's 5 year CIP

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 600 - IMPACT FEES									
ESTIMATED REVENUES									
4420	IMPACT FEES COLLECTED	179,272	169,799	132,000	70,541	115,440	132,000		
4810	INTEREST REVENUE	1,578	220	150	708	2,700	1,000	566.67	850
4900	OTHER FINANCING SOURCES			17,850			117,000	555.46	99,150
TOTAL ESTIMATED REVENUES		180,850	170,019	150,000	71,249	118,140	250,000	66.67%	100,000
APPROPRIATIONS									
5140	ADMINISTRATIVE & GENERAL	131							
5900	OTHER FINANCING USES	122,000	100,000	150,000		150,000	250,000	66.67	100,000
TOTAL APPROPRIATIONS		122,131	100,000	150,000		150,000	250,000	66.67%	100,000
NET OF REVENUES/APPROPRIATIONS - FUND 600		58,719	70,019		71,249	(31,860)			

This fund contains the budget for the collection of impact fees (excluding Water & Sewer fees which are accounted for in the respective Utility Funds); The use of these fees is a transfer to Debt Service to pay for the debt which originally funded eligible projects

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGETS FOR SPECIAL REVENUE & CAPITAL FUNDS (Excludes TID budgets)

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 810 - PARKLAND FUND									
ESTIMATED REVENUES									
4425	PARKLAND SITE FEES	5,920		2,000	18,464	18,464	2,000		
4800	MISC REVENUE	50							
4810	INTEREST REVENUE	1,381	169	125	416	1,500	125		
TOTAL ESTIMATED REVENUES		7,351	169	2,125	18,880	19,964	2,125		
APPROPRIATIONS									
5140	ADMINISTRATIVE & GENERAL	49	38		30	36			
5900	OTHER FINANCING USES	93,002	17,455	2,125			2,125		
TOTAL APPROPRIATIONS		93,051	17,493	2,125	30	36	2,125		
NET OF REVENUES/APPROPRIATIONS - FUND 810		(85,700)	(17,324)		18,850	19,928			

This fund contains the budget for the collection and eligible use of parkland site fees

DEPARTMENT	DESCRIPTION	2020	2021	2022	2022	2022	2023	2023	2023
		ACTIVITY	ACTIVITY	ORIGINAL BUDGET	ACTIVITY THRU 06/30/22	PROJECTED 12/31/22 ACTIVITY	PROPOSED BUDGET	% CHANGE	AMT CHANGE
Fund 100 - GENERAL FUND									
REVENUE SUMMARY									
4100	TAXES	3,147,258	3,381,192	3,442,852	2,732,634	3,447,018	3,648,555	5.97%	205,703
4300	INTERGOV T REVENUES	953,676	810,730	847,509	308,143	838,853	854,295	0.80%	6,786
4410	LICENSES	32,283	41,001	32,266	29,469	42,061	32,866	1.86%	600
4430	PERMITS & FEES	371,512	378,614	414,671	199,941	389,791	418,671	0.96%	4,000
4500	LAW & ORDINANCE VIOLATIONS	155,966	159,347	173,000	94,223	162,265	173,000	0.00%	
4600	PUBLIC CHARGES FOR SERVICES	27,113	34,546	26,338	14,221	24,527	26,338	0.00%	
4620	PUBLIC SAFETY	2,723	3,566	3,650	1,446	2,575	3,650	0.00%	
4670	LEISURE ACTIVITIES	90,291	77,247	72,000	19,305	79,475	72,000	0.00%	
4680	CONSERVATION & DEVELOPMENT	6,538	133	500			500	0.00%	
4700	INTERGOV T CHARGES FOR SERVICE	170,186	175,783	200,201	134,913	231,272	202,833	1.31%	2,632
4800	MISC REVENUE	32,064	6,049	5,000	1,961	3,909	4,000	-20.00%	(1,000)
4810	INTEREST REVENUE	48,759	11,446	11,300	17,036	67,780	68,000	501.77%	56,700
4820	COMMERCIAL REVENUE	16,257	20,428	20,750	9,695	24,490	24,500	18.07%	3,750
4830	OTHER GENERAL REVENUE		2,143						
4900	OTHER FINANCING SOURCES			63,944			294,000	-100.00%	(63,944)
ESTIMATED REVENUES - FUND 100		5,054,626	5,102,225	5,313,981	3,562,987	5,314,016	5,823,208	9.58%	509,227
EXPENDITURE GROUPING BY FUNCTION									
Function: ADMIN									
5141	VILLAGE ADMINISTRATOR	210,102	128,342	180,709	74,012	183,498	196,051	8.49%	15,342
5670	ECONOMIC DEVELOPMENT	70,143	50,656	57,799	22,107	65,761	56,113	-2.92%	(1,686)
Total - Function ADMIN		280,245	178,998	238,508	96,119	249,259	252,164	5.73%	13,656
Function: FINANCE									
5145	FINANCE DEPARTMENT		40	69,428	20,138	70,433	71,273	2.66%	1,845
Total - Function FINANCE			40	69,428	20,138	70,433	71,273	2.66%	1,845
Function: CLERK									
5111	VILLAGE BOARD	86,683	71,532	67,713	25,752	65,139	70,563	4.21%	2,850
5112	HISTORIC PRESERVATION		337	290		120	290		
5142	CLERK-TREASURER	239,949	227,696	249,528	107,830	238,955	266,321	6.73%	16,793
5144	ELECTIONS	26,165	13,450	26,900	8,465	24,972	28,150	4.65%	1,250
5153	ASSESSMENT OF PROPERTY	21,421	17,657	20,550	9,215	20,530	22,050	7.30%	1,500
5247	BOARD OF APPEALS		97	1,050	255	400	1,150	9.52%	100
5431	ANIMAL POUND	2,420	2,420	2,550		2,500	2,600	1.96%	50
Total - Function CLERK		376,638	333,189	368,581	151,517	352,616	391,124	6.12%	22,543
Function: BLDGINSP									
5241	BUILDING INSPECTOR	214,374	219,655	282,221	119,062	249,302	301,443	6.81%	19,222
Total - Function BLDGINSP		214,374	219,655	282,221	119,062	249,302	301,443	6.81%	19,222

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED 12/31/22 ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Function: PLAN-ZONE									
5632	PLANNING DEPARTMENT	113,526	103,027	123,701	43,950	82,878	165,974	34.17%	42,273
Total - Function PLAN-ZONE		113,526	103,027	123,701	43,950	82,878	165,974	34.17%	42,273
Function: DPW									
5160	VILLAGE HALL	54,396	38,276	48,836	29,208	53,384	50,816	4.05%	1,980
5220	FIRE STATION (VILLAGE)	4,637	16,306	11,075	6,662	9,584	8,706	-21.39%	(2,369)
5254	DAMS	10,069	12,243	8,435	5,491	16,723	10,226	21.23%	1,791
5300	DPW GENERAL ADMINISTRATION	350,419	332,494	356,588	166,059	342,184	351,899	-1.31%	(4,689)
5323	GARAGE	59,647	53,061	65,256	36,562	66,078	68,148	4.43%	2,892
5324	MACHINERY & EQUIPMENT	88,286	95,929	113,045	50,637	103,857	117,218	3.69%	4,173
5341	STREETS & ALLEYS	15,819	21,105	22,024	6,385	14,833	20,205	-8.26%	(1,819)
5342	STREET LIGHTING	175,840	178,112	180,500	68,212	180,000	190,250	5.40%	9,750
5343	CURBS GUTTERS & SIDEWALKS	24,142	25,723	25,631		25,000	5,572	-78.26%	(20,059)
5344	STORM SEWER	14,374	7,026	16,470	2,500	11,500	13,950	-15.30%	(2,520)
5345	STREET CLEANING	13,509	15,472	16,672	5,294	13,611	18,472	10.80%	1,800
5346	BRIDGES & CULVERTS		27	2,550			1,530	-40.00%	(1,020)
5347	SNOW & ICE CONTROL	86,078	102,135	122,249	71,854	82,445	117,094	-4.22%	(5,155)
5348	STREET SIGNS & MARKINGS	17,750	17,958	16,297	8,889	15,001	20,800	27.63%	4,503
5362	GARBAGE COLLECTION	3,632	3,149	3,664	2,857	6,051	4,073	11.16%	409
5512	MUSEUM	10,002	11,989	12,600	4,231	10,600	11,940	-5.24%	(660)
5521	PARKS	176,624	156,471	187,471	91,808	197,616	196,770	4.96%	9,299
5522	CELEBRATIONS	4,502	10,127	8,200	6,505	9,204	7,867	-4.06%	(333)
5611	FORESTRY	20,499	21,608	24,296	17,578	29,535	28,009	15.28%	3,713
5613	WEED CONTROL	57	69	210	12	325	243	15.71%	33
5660	STORMWATER MASTER PLAN	13,054	8,666	11,500	3,266	11,000	11,250	-2.17%	(250)
Total - Function DPW		1,143,336	1,127,946	1,253,569	584,010	1,198,531	1,255,038	0.12%	1,469
Function: POLICE									
5211	POLICE ADMINISTRATION	1,064,211	1,124,152	1,208,497	545,732	1,190,213	1,288,048	6.58%	79,551
5212	POLICE PATROL	1,025,930	1,054,416	1,066,620	492,548	1,052,566	1,115,941	4.62%	49,321
5213	CRIME INVESTIGATION	239,830	244,736	256,544	116,893	249,947	252,396	-1.62%	(4,148)
5215	POLICE TRAINING	6,137	8,728	12,000	4,194	12,000	12,000		
5235	EMERGENCY GOVERNMENT	946	826	2,000		1,000	2,000		
Total - Function POLICE		2,337,054	2,432,858	2,545,661	1,159,367	2,505,726	2,670,385	4.90%	124,724
Function: COURT									
5120	MUNICIPAL COURT	39,970	38,255	37,954	22,293	37,017	38,954	2.63%	1,000
Total - Function COURT		39,970	38,255	37,954	22,293	37,017	38,954	2.63%	1,000
Function: MISC-CROSSFUNCTIONAL									
5130	VILLAGE ATTORNEY	104,500	104,505	118,750	30,633	118,750	118,750		
5150	IT SERVICES			15,000	770	15,000	15,000		
5151	INDEPENDENT AUDITING	10,035	7,437	14,000	7,076	11,000	14,000		
5154	RISK & PROPERTY INSURANCE	106,284	105,343	128,103	63,783	100,267	128,103		
5191	UNCOLLECTED TAX	68,164	11,196						
5335	ENGINEERING	83,662	53,163	75,000	14,793	69,000	75,000		
5880	USE OF GRANTS/DONATIONS	50,000							
Total - Function MISC-CROSSFUNCTIONAL		422,645	281,644	350,853	117,055	314,017	350,853		

DEPARTMENT	DESCRIPTION	2020	2021	2022	2022	2022	2023	2023	
		ACTIVITY	ACTIVITY	ORIGINAL BUDGET	ACTIVITY THRU 06/30/22	PROJECTED 12/31/22 ACTIVITY	PROPOSED BUDGET	% CHANGE	AMT CHANGE
Function: FUND BALANCE									
5900	OTHER FINANCING USES		5,400	43,505			326,000	649.34%	282,495
Total - Function FUND BALANCE			5,400	43,505			326,000	649.34%	282,495
TOTAL GENERAL FUND EXPENDITURE BUDGET - FUND 100		4,927,788	4,721,012	5,313,981	2,313,511	5,059,779	5,823,208	9.58%	509,227
Budget without use of Reserves									
Net Revenues / Expenditures		2020 Actual 126,838	2021 Actual 381,213	2022 Budget 0	6/30/2022 1,249,476	Projected Year End 12/31/2022 254,237	2023 Budget 0	0	0
One Time Use of Reserves to Maximize ERP							294,000		
Transfer to Capital for 2023 items originally planned to purchase with tax revenue							(60,000)		
Under Threshold DPW equipment and improvement items removed from budget - will fund in capital fund with one-time transfer of reserves							(38,100)		
Transfer to Capital Fund to cash fund a 2023 capital purchase or improvement rather than issue debt for it							(195,900)		

RESOLUTION 2022-67

**A RESOLUTION ADOPTING THE 2023 STORM WATER UTILITY DISTRICT #1 BUDGET
FOR THE VILLAGE OF MUKWONAGO**

WHEREAS, The Village of Mukwonago prepares an annual budget for Storm Water Utility District #1 each year, and

WHEREAS, the Village Board has reviewed the proposed revenues and expenditures for these purposes and has found the proposed budget to be acceptable.

NOW THEREFORE BE IT RESOLVED, that the Village Board of the Village of Mukwonago does hereby approve the 2023 Storm Water Utility District #1 Budget as follows:

Operation & Maintenance	\$34,909
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BE IT FURTHER RESOLVED, that the equivalent runoff unit (ERU) rate will be \$8.06 per ERU per quarter.

Adopted this 16th day of November 2022.

Fred H. Winchowky, Village President

Attest: _____
Diana Dykstra, Clerk-Treasurer

11/11/2022

VILLAGE OF MUKWONAGO - PROPOSED 2023 BUDGET

DEPARTMENT	DESCRIPTION	2020 ACTIVITY	2021 ACTIVITY	2022 ORIGINAL BUDGET	2022 ACTIVITY THRU 06/30/22	2022 PROJECTED ACTIVITY	2023 PROPOSED BUDGET	2023 % CHANGE	2023 AMT CHANGE
Fund 500 - STORM WATER UTILITY									
ESTIMATED REVENUES									
4430	PERMITS & FEES	33,448	33,142	33,000	16,567	33,262	33,500	1.52	500
4810	INTEREST REVENUE	396	60	35	49	200	35		
4900	OTHER FINANCING SOURCES						1,374		1,374
TOTAL ESTIMATED REVENUES		33,844	33,202	33,035	16,616	33,462	34,909	5.67%	1,874
APPROPRIATIONS									
5344	STORM SEWER	13,400	83,461	31,426	7,038	18,607	34,909	11.08	3,483
5900	OTHER FINANCING USES			1,609				(100.00)	(1,609)
TOTAL APPROPRIATIONS		13,400	83,461	33,035	7,038	18,607	34,909	5.67%	1,874
NET OF REVENUES/APPROPRIATIONS - FUND 500		20,444	(50,259)		9,578	14,855			

This fund contains the budget for the maintenance of the TID #3 stormwater pond

*VILLAGE OF MUKWONAGO
POLICE DEPARTMENT*



MONTHLY REPORT

October 2022

Citation Totals by Offense

All Departments

Violation Date: 10/01/2022 through 10/31/2022

Court	Agency	Offense Code	Offense Description	Total
MKPD				
	Adult			
		346.14(1m)	Automobile Following Too Closely	1
		940.19(1)	Battery	1
		14-27(4)	Dog At Large	1
		346.04(2)	Fail/Obey Traffic Officer-Work Area	1
		346.46(1)	Fail/Stop At Stop Sign	4
		346.18(3)	Fail/Yield Right/Way From Stop Sign	1
		346.57(2)	Failure To Keep Vehicle Under Control	4
		346.48(1)	Failure To Stop For School Bus	2
		346.32	Failure To Yield Right Of Way	1
		346.24(1)	Fyr To Pedestrian, Bicyclist, Or Epamd	1
		346.68	Hit And Run-Unattended Vehicle	1
		346.485(1)	Illegal Pass Of School Bus Reported	1
		341.15(3)(b)	Improper Display/Plates (Hard To See)	2
		341.15(3)(c)	Improper Display/Plates (Illegible)	1
		346.89(1)	Inattentive Driving	8
		341.04(1)	Non-Registration Of Auto, Etc	30
		341.03(1)	Operate After Rev/Susp Of Registration	3
		347.39(1)	Operate Motor Veh. W/O Adequate Muffler	1
		344.62(1)	Operate Motor Vehicle W/O Insurance	16
		344.62(2)	Operate Motor Vehicle W/O Proof Of Insurance	1
		347.14(1)	Operate Vehicle W/O Stopping Lights	3
		343.05(3)(a)	Operate W/O Valid License	3
		343.44(1)(a)	Operating After Suspension	8
		346.05(1)	Operating Left Of Center Line	1
		346.63(1)(b)	Operating W/Pac	1
		346.63(1)(a)	Operating While Intox.	1
		82-71	Parking Lot Traffic Violation	4
		961.573(1)	Possess Drug Paraphernalia	2
		961.41(3g)(b)	Possession of Controlled Substance	2
		346.62(2)	Reckless Driving-Endanger Safety	1
		943.50(1m)(b)	Retail Theft-Intentionally Take(<=\$2500)	3
		346.57(4)(gm)2	Speeding on Freeway	15
		346.57(5)	Speeding Zone And Posted Limits	72
		347.06(3)	Unclean/Defective Lights Or Reflectors	7
		346.37(1)(c)l	Violate Red Traffic Signal	5
		TR305.34(6)(c)	Windshield - Tinting - Critical Area	1
Adult Grand Total				210

Citation Totals by Offense

All Departments

Violation Date: 10/01/2022 through 10/31/2022

Court	Agency	Offense Code	Offense Description	Total
MKPD				
	Juvenile			
		947.01(1)	Disorderly Conduct	1
		943.20(1)(a)	Theft-Movable Property<=\$2500	1
		118.163	Truancy	1
		125.07(4)(b)	Underage Drinking-Possess	1
			Juvenile Grand Total	4

Mukwonago Police Department
Tickets Totals (by Violation)

Issue Date: 10/01/2022 through 10/31/2022

Violation Description	Violation Code	Area	Total
Mhs - Park W/O Permit	82-212		1
		MHS	1
		By Violation:	<u>2</u>
Park Left Wheel To Curb	82-1(A)		2
		By Violation:	<u>2</u>
Park Less Than 10' - Hydrant	82-1(C)		1
		By Violation:	<u>1</u>
Park No Parking Anytime	82-192		1
		By Violation:	<u>1</u>
Park On Grass/Park	82-180(G)		4
		By Violation:	<u>4</u>
		Total Tickets:	<u><u>10</u></u>



Arrests by Statute Report

Printed On: 11/02/22 09:22

Reporting Period: 10/01/22 - 10/31/22

This report contains all arrest charges.

	Total	Felony	Misdemeanor	Non-Criminal	Ordinance
346.63(1)(a) - Operating While Intoxicated - 1st Offense	1			1	
346.63(1)(a) - Operating While Intoxicated - 2nd Offense	1		1		
346.63(1)(a) - Operating While Intoxicated - 3rd Offense	2		2		
54-1(1) - Retail Theft (Shoplifting)	3				3
54-1(24) - Theft (under \$2500.00)	1				1
54-1(B) - Underage Consumption of Alcohol (17-20 YOA)	1				1
54-1(G) - Disorderly Conduct	5		3		2
54-1(P) - Battery	1				1
54-1(V) - Possession of a Controlled Substance	3				3
54-1(V1) - Possession of Drug Paraphernalia	2				2
54-103 - Possession of Nicotine or Tobacco Product by a Minor	1				1
54-106 - Truancy/Habitual Truancy	2				2
940.203(2) - Battery or Threat to Judge/Prosecutor/LEO	1	1			
943.41(3)(a) - Credit Card-Theft by Acquisition	1		1		
943.41(5)(a)1a - Credit Card-Fraudulent Use (<= \$2500)	1		1		
943.50(1m)(b) - Retail Theft-Intentionally Take >\$500-\$5,000	1	1			
946.41(1) - Resisting or Obstructing an Officer	1		1		
946.41(2r) - Resist/Obstruct Officer causing substantial bodily harm or soft tissue injury	1	1			
946.49(1)(a) - Bail Jumping-Misdemeanor	1		1		
946.49(1)(b) - Bail Jumping-Felony	1	1			
961.41(3g)(am) - Possession of Narcotic Drugs	1	1			
961.41(3g)(b) - Possession of Controlled Substance	1		1		
961.41(3g)(d) - Possess Amphetamine/LSD/Psilocin	1		1		
961.41(3g)(e) - Possession of THC	1		1		
961.573(1) - Possess Drug Paraphernalia	1		1		
FUGM - Fugitive Warrant Other Municipal	3			3	
FUGS - Fugitive Warrant - State	2		2		
Total	41	5	16	4	16



Monthly Case Overview Report

Printed On: 11/02/22 09:28

Reporting Period: 10/01/2022 - 10/31/2022

Village of Mukwonago Police - 1122

	Total
Total	63
Administrative/Informational	12
Alcohol/Intoxicant Law Investi	1
Amphetamine - Possession	1
Assist Other Dept/Service/Request by Citizen	2
Disorderly Conduct	4
DOA - Sudden Death, Etc.	1
Drug/Narcotic Law Investigatio	1
Emergency Detention/M.O.	1
Found Property	1
Fraud Complaint	1
Hallucinogen-Possession	1
Hit and Run	1
Liquor - Underage Possession	1
Marijuana-Possession	3
Notification	1
Ordinance Violation Sprinkler/	1
OWI/DWI-Liquor	3
Public Order Crimes	2
Resisting Officer - Simple Physical	1
Retail Theft \$50-\$200	1
Retail Theft <\$50	1
Retail Theft >\$200	2
Shoplifting/Retail Theft Compl	1
Simple Assault	1
Station Contact	1
Suspicious Circumstance	2
Theft - All	1
Theft - All Others \$50-\$200	2
Theft - All Others <\$50	1
Traffic Offense/Traffic Other	5
Traffic Stop	1
Trouble With a Person	1
Warrant Service	4



Traffic Crash List

Printed On: 11/02/22 11:17

Village of Mukwonago Police

Date Time	Case#	Crash#	Officer	Total Units	Total Injured	Total Killed	Crash Type	EMS#
10/31/2022 15:08		22-000186	Kirkpatrick, Cory-ckir37	2	0	0	C	
10/26/2022 14:00		22-000185	Kirkpatrick, Cory-ckir37	3	1	0	C	
10/29/2022 17:11		22-000184	Wilson, Chet-cwil47	1	0	0	D	
10/20/2022 17:50		22-000183	Zajichek, Taylor-tzaj36	2	0	0	C	
10/28/2022 13:13		22-000182	Zajichek, Taylor-tzaj36	2	0	0	C	
10/25/2022 14:40		22-000181	Kirkpatrick, Cory-ckir37	2	0	0	C	
10/25/2022 18:28		22-000180	Pinkowski, Shaun-spin42	1	0	0	C	
10/25/2022 16:05		22-000179	Pinkowski, Shaun-spin42	2	0	0	C	
10/24/2022 08:44		22-000178	Kirkpatrick, Cory-ckir37	2	1	0	C	
10/27/2022 07:20	22-045882	22-000177	Zajichek, Taylor-tzaj36	1	0	0	D	
10/19/2022 18:52		22-000176	Zajichek, Taylor-tzaj36	2	1	0	C	
10/19/2022 16:50		22-000175	Zajichek, Taylor-tzaj36	2	1	0	C	
10/27/2022 12:17		22-000174	Schubel, John-jsch48	2	0	0	C	
10/26/2022 10:24		22-000173	Schubel, John-jsch48	2	0	0	C	
10/26/2022 06:57		22-000172	Steinbrenner, Jason J-jste35	2	0	0	C	
10/24/2022 18:50		22-000171	Cieszynski, Brian-bcie45	1	0	0	D	
10/22/2022 15:33		22-000170	Cieszynski, Brian-bcie45	2	0	0	C	
10/20/2022 07:39		22-000169	Schubel, John-jsch48	2	0	0	C	
10/19/2022 16:25		22-000168	Pinkowski, Shaun-spin42	2	0	0	C	
10/18/2022 15:14		22-000167	Wilson, Chet-cwil47	2	0	0	C	
10/16/2022 15:50		22-000166	Rogers, Richard-rrog49	2	0	0	C	
10/16/2022 18:45		22-000165	Cieszynski, Brian-bcie45	1	0	0	D	
10/12/2022 14:03		22-000164	Wilson, Chet-cwil47	2	0	0	C	
10/11/2022 14:55		22-000163	Wilson, Chet-cwil47	2	0	0	C	
10/11/2022 17:13		22-000162	Kubiak, Michael L-mkub41	2	0	0	C	
10/09/2022 12:32		22-000161	Schubel, John-jsch48	2	0	0	C	
10/04/2022 08:29		22-000160	Schubel, John-jsch48	1	0	0	C	
10/05/2022 02:49		22-000159	Tipton, Kayla-ktip44	1	0	0	C	
10/01/2022 17:33		22-000158	Kirkpatrick, Cory-ckir37	2	0	0	C	
10/01/2022 11:28		22-000157	Cieszynski, Brian-bcie45	2	0	0	C	

30

Police Contacts - Village

First Shift	1625
Second Shift	1046
Third Shift	435
911 Calls	100
TOTAL CALLS	3206

Eagle Lake Patrol

Stops/All Calls

Police Contacts - Town

First Shift	390
Second Shift	588
Third Shift	561
911 Calls	29
TOTAL CALLS	1568

Phantom Lake Patrol

Stops/All Calls

<u>TOTAL CONTACTS</u>	4774
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FLEET MILES AND GAS USAGE

	<u>24</u> <u>22 Chev</u>	<u>26</u> <u>21 Ford</u>	<u>28</u> <u>20 Dodge</u>	<u>30</u> <u>22 Chev</u>	<u>32</u> <u>18 Ford</u>	<u>33</u> <u>19 Chev</u>	<u>34</u> <u>17 Ford</u>	<u>36</u> <u>16 Ford</u>	<u>38</u> <u>22 Chev</u>
Speed End	21476	5335	12464	25314	NA	10837	90333	97576	13575
Speed Beg	15875	5133	12166	22461	NA	10651	90255	97386	11766
Total Miles	5601	202	298	2853	NA	186	78	190	1809
Total Gas	417	13	31	248	NA	13	7	30	184

Respectfully Submitted,

Chief Daniel J. Streit
Village of Mukwongo Police Department

PERIOD ENDING 10/31/2022

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 10/31/2022	ACTIVITY FOR MONTH 10/31/2022	AVAILABLE BALANCE	% BDGT USED
Fund 150 - FIRE/AMBULANCE FUND						
Revenues						
Dept 4100 - TAXES						
150-4100-411100	GENERAL PROPERTY TAX	194,835.00	162,362.50	16,236.25	32,472.50	83.33
Total Dept 4100 - TAXES		194,835.00	162,362.50	16,236.25	32,472.50	83.33
Dept 4300 - INTERGOV T REVENUES						
150-4300-434200	STATE AID OR GRANT	0.00	9,079.06	0.00	(9,079.06)	100.00
150-4300-434400	EMS ACT102 GRANT	6,000.00	19,032.16	0.00	(13,032.16)	317.20
150-4300-434700	STATE FIRE DUES PROGRAM	41,000.00	41,596.05	0.00	(596.05)	101.45
Total Dept 4300 - INTERGOV T REVENUES		47,000.00	69,707.27	0.00	(22,707.27)	148.31
Dept 4620 - PUBLIC SAFETY						
150-4620-432000	FIRE DEPT CHARGES FOR SERVICES	100.00	930.00	125.00	(830.00)	930.00
150-4620-432500	AMBULANCE COUNTY COLLECTIONS	23,000.00	21,703.34	0.00	1,296.66	94.36
150-4620-473000	EBIX AMBULANCE REVENUE	509,312.00	693,149.59	71,894.92	(183,837.59)	136.10
150-4620-473700	EBIX FIRE REVENUE	4,312.00	0.00	0.00	4,312.00	0.00
150-4620-474100	EBIX INTERFACILITY ALS& BLS	367,376.00	0.00	0.00	367,376.00	0.00
150-4620-474200	EBIX INTERFACILITYCRITICALCARE	137,995.00	0.00	0.00	137,995.00	0.00
Total Dept 4620 - PUBLIC SAFETY		1,042,095.00	715,782.93	72,019.92	326,312.07	68.69
Dept 4700 - INTERGOV T CHARGES FOR SERVICE						
150-4700-434700	STATE FIRE DUES PROGRAM	37,000.00	39,210.90	0.00	(2,210.90)	105.98
150-4700-473100	FIRE/AMBULANCE SERVICE TO TOWN	194,835.00	162,362.50	16,236.25	32,472.50	83.33
Total Dept 4700 - INTERGOV T CHARGES FOR SERVICE		231,835.00	201,573.40	16,236.25	30,261.60	86.95
Dept 4800 - MISC REVENUE						
150-4800-488500	INSURANCE PROCEEDS/OFFSET LOSS	0.00	13,522.00	0.00	(13,522.00)	100.00
150-4800-489000	DONATIONS RECEIVED	0.00	1,730.00	650.00	(1,730.00)	100.00
150-4800-489900	MISC. REVENUES	0.00	66.64	0.00	(66.64)	100.00
Total Dept 4800 - MISC REVENUE		0.00	15,318.64	650.00	(15,318.64)	100.00
Dept 4810 - INTEREST REVENUE						
150-4810-487100	INTEREST REVENUE	270.00	984.21	0.00	(714.21)	364.52
Total Dept 4810 - INTEREST REVENUE		270.00	984.21	0.00	(714.21)	364.52
Dept 4820 - COMMERCIAL REVENUE						
150-4820-488000	SALE OF OWNED PROPERTY	0.00	5,139.46	0.00	(5,139.46)	100.00
Total Dept 4820 - COMMERCIAL REVENUE		0.00	5,139.46	0.00	(5,139.46)	100.00
Dept 4900 - OTHER FINANCING SOURCES						
150-4900-493000	FUND BALANCE APPLIED	40,403.00	0.00	0.00	40,403.00	0.00

PERIOD ENDING 10/31/2022

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 10/31/2022	ACTIVITY FOR MONTH 10/31/2022	AVAILABLE BALANCE	% BDGT USED
Fund 150 - FIRE/AMBULANCE FUND						
Revenues						
Total Dept 4900 - OTHER FINANCING SOURCES		40,403.00	0.00	0.00	40,403.00	0.00
TOTAL REVENUES		1,556,438.00	1,170,868.41	105,142.42	385,569.59	75.23
Expenditures						
Dept 5140 - ADMINISTRATIVE & GENERAL						
150-5140-511000	SALARIES & WAGES	21,895.00	18,245.80	1,824.58	3,649.20	83.33
150-5140-511200	SOCIAL SECURITY	1,675.00	1,395.80	139.58	279.20	83.33
150-5140-515200	RETIREMENT	2,025.00	1,687.50	168.75	337.50	83.33
150-5140-515400	HEALTH	2,244.00	1,870.00	187.00	374.00	83.33
150-5140-515900	OTHER FRINGE BENEFITS	30.00	25.00	2.50	5.00	83.33
Total Dept 5140 - ADMINISTRATIVE & GENERAL		27,869.00	23,224.10	2,322.41	4,644.90	83.33
Dept 5221 - FIRE ADMINISTRATION						
150-5221-511000	SALARIES & WAGES	553,098.00	417,576.11	39,997.54	135,521.89	75.50
150-5221-511100	OVERTIME	43,501.00	41,328.67	5,679.38	2,172.33	95.01
150-5221-511200	SOCIAL SECURITY	45,640.00	34,023.62	3,382.97	11,616.38	74.55
150-5221-515200	RETIREMENT	71,831.00	55,252.14	5,499.51	16,578.86	76.92
150-5221-515400	HEALTH	93,731.00	78,359.16	7,123.56	15,371.84	83.60
150-5221-515900	OTHER FRINGE BENEFITS	3,367.00	3,683.43	71.78	(316.43)	109.40
150-5221-521900	PROFESSIONAL SERVICES	38,000.00	22,720.43	1,571.60	15,279.57	59.79
150-5221-521901	IT PROFESSIONAL SERVICES	0.00	176.04	42.50	(176.04)	100.00
150-5221-522100	WATER-SEWER	2,500.00	2,085.14	688.01	414.86	83.41
150-5221-522200	ELECTRIC	19,000.00	16,768.62	1,266.02	2,231.38	88.26
150-5221-522500	TELEPHONE	15,500.00	7,541.54	749.66	7,958.46	48.66
150-5221-522600	INSURANCE PREMIUMS	88,000.00	86,186.91	0.00	1,813.09	97.94
150-5221-522900	SOFTWARE SUPPORT/MAINTENANCE	0.00	4,642.75	555.00	(4,642.75)	100.00
150-5221-531100	SUPPLIES	6,000.00	4,498.11	217.98	1,501.89	74.97
150-5221-531300	FIRE PREVENTION MATERIALS	2,750.00	2,750.51	1,585.27	(0.51)	100.02
150-5221-532400	MEMBERSHIP DUES	1,500.00	1,429.05	0.00	70.95	95.27
150-5221-533500	TRAINING & TRAVEL	7,000.00	1,532.91	350.80	5,467.09	21.90
150-5221-534600	CLOTHING ALLOWANCE	3,500.00	1,782.65	317.85	1,717.35	50.93
150-5221-539500	REPAIRS & MAINTENANCE	600.00	168.18	0.00	431.82	28.03
150-5221-539900	OTHER	7,100.00	5,123.17	591.70	1,976.83	72.16
Total Dept 5221 - FIRE ADMINISTRATION		1,002,618.00	787,629.14	69,691.13	214,988.86	78.56
Dept 5222 - FIRE SUPPRESSION						
150-5222-511000	SALARIES & WAGES	14,517.00	10,705.92	730.51	3,811.08	73.75
150-5222-511200	SOCIAL SECURITY	1,111.00	811.64	55.88	299.36	73.05
150-5222-515200	RETIREMENT	752.00	603.55	16.41	148.45	80.26
150-5222-531100	SUPPLIES	6,500.00	2,508.92	407.97	3,991.08	38.60
150-5222-534600	CLOTHING ALLOWANCE	3,000.00	185.44	0.00	2,814.56	6.18
150-5222-535100	MOTOR FUEL & OIL	7,000.00	10,346.36	927.00	(3,346.36)	147.81
150-5222-539500	REPAIRS & MAINTENANCE	25,000.00	12,864.05	220.45	12,135.95	51.46
Total Dept 5222 - FIRE SUPPRESSION		57,880.00	38,025.88	2,358.22	19,854.12	65.70
Dept 5223 - FIRE TRAINING						
150-5223-511000	SALARIES & WAGES	21,020.00	13,850.49	1,920.51	7,169.51	65.89
150-5223-511200	SOCIAL SECURITY	1,608.00	1,059.69	146.90	548.31	65.17

PERIOD ENDING 10/31/2022

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 10/31/2022	ACTIVITY FOR MONTH 10/31/2022	AVAILABLE BALANCE	% BDGT USED
Fund 150 - FIRE/AMBULANCE FUND						
Expenditures						
150-5223-515200	RETIREMENT	801.00	573.32	106.93	227.68	71.58
150-5223-531100	SUPPLIES	1,000.00	13.56	0.00	986.44	1.36
150-5223-533500	TRAINING & TRAVEL	3,000.00	2,194.24	80.00	805.76	73.14
Total Dept 5223 - FIRE TRAINING		27,429.00	17,691.30	2,254.34	9,737.70	64.50
Dept 5231 - AMBULANCE						
150-5231-511000	SALARIES & WAGES	183,084.00	143,889.01	11,837.82	39,194.99	78.59
150-5231-511200	SOCIAL SECURITY	14,006.00	11,001.08	898.56	3,004.92	78.55
150-5231-515200	RETIREMENT	7,614.00	8,377.43	804.08	(763.43)	110.03
150-5231-515400	HEALTH	1,188.00	1,354.20	634.12	(166.20)	113.99
150-5231-515900	OTHER FRINGE BENEFITS	12.00	32.69	18.56	(20.69)	272.42
150-5231-521900	PROFESSIONAL SERVICES	69,000.00	59,459.47	11,323.84	9,540.53	86.17
150-5231-531100	SUPPLIES	57,500.00	48,854.58	3,237.85	8,645.42	84.96
150-5231-531500	POSTAGE	500.00	108.57	11.66	391.43	21.71
150-5231-535100	MOTOR FUEL & OIL	12,000.00	17,272.88	1,934.63	(5,272.88)	143.94
150-5231-539500	REPAIRS & MAINTENANCE	13,000.00	4,282.01	112.09	8,717.99	32.94
Total Dept 5231 - AMBULANCE		357,904.00	294,631.92	30,813.21	63,272.08	82.32
Dept 5232 - AMBULANCE TRAINING						
150-5232-511000	SALARIES & WAGES	9,666.00	8,003.56	308.25	1,662.44	82.80
150-5232-511200	SOCIAL SECURITY	739.00	612.33	23.58	126.67	82.86
150-5232-515200	RETIREMENT	333.00	312.66	7.04	20.34	93.89
150-5232-531100	SUPPLIES	1,000.00	586.48	0.00	413.52	58.65
150-5232-533500	TRAINING & TRAVEL	3,000.00	906.40	(1,154.10)	2,093.60	30.21
Total Dept 5232 - AMBULANCE TRAINING		14,738.00	10,421.43	(815.23)	4,316.57	70.71
Dept 5700 - CAPITAL OUTLAY EXPENDITURES						
150-5700-571300	FIRE DEPT CAPITAL EQUIP	18,000.00	5,627.97	692.97	12,372.03	31.27
150-5700-571400	AMBULANCE CAPITAL EQUIP	18,000.00	2,749.63	0.00	15,250.37	15.28
150-5700-572100	FIRE ADMINISTRATION	2,000.00	751.42	0.00	1,248.58	37.57
150-5700-580500	ACT 102 EXPENSES	0.00	10,132.00	10,132.00	(10,132.00)	100.00
Total Dept 5700 - CAPITAL OUTLAY EXPENDITURES		38,000.00	19,261.02	10,824.97	18,738.98	50.69
Dept 5880 - USE OF GRANTS/DONATIONS						
150-5880-580500	ACT 102 EXPENSES	0.00	2,184.16	0.00	(2,184.16)	100.00
Total Dept 5880 - USE OF GRANTS/DONATIONS		0.00	2,184.16	0.00	(2,184.16)	100.00
Dept 5900 - OTHER FINANCING USES						
150-5900-592500	TRANSFER TO DESIGNATED FUNDS	30,000.00	0.00	0.00	30,000.00	0.00
Total Dept 5900 - OTHER FINANCING USES		30,000.00	0.00	0.00	30,000.00	0.00
TOTAL EXPENDITURES		1,556,438.00	1,193,068.95	117,449.05	363,369.05	76.65

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 10/31/2022	ACTIVITY FOR MONTH 10/31/2022	AVAILABLE BALANCE	% BDGT USED
Fund 150 - FIRE/AMBULANCE FUND						
Fund 150 - FIRE/AMBULANCE FUND:						
TOTAL REVENUES		1,556,438.00	1,170,868.41	105,142.42	385,569.59	75.23
TOTAL EXPENDITURES		1,556,438.00	1,193,068.95	117,449.05	363,369.05	76.65
NET OF REVENUES & EXPENDITURES		0.00	(22,200.54)	(12,306.63)	22,200.54	100.00

11/03/2022
AUSTIN
MFDINTERV2
Financial Class

Year to Date Intercept Report
VILLAGE OF MUKWONAGO
Posting Dates: 01/01/2022 - 10/31/2022
Encounters Procedures Charges

Page: 1
Payments Adjustments Proc/Enc Chg/Enc

BIG BEND VERNON FIRE DEPT	3	3	1,500.00	2,777.92	222.08	1.00	500.00
EAGLE FIRE DEPT	22	25	11,650.00	12,500.00	.00	1.14	529.55
EAST TROY EMS	94	108	47,953.00	45,066.49	425.29	1.15	510.14
NORTH PRAIRIE	4	4	2,000.00	2,500.00	.00	1.00	500.00
Report Total	123	140	63,103.00	62,844.41	647.37	1.14	513.03

ebix, Inc.

11/03/2022
 User: AUSTIN
 CRY: MEDINTERV2
 Type Procedures

VILLAGE OF MUKMONAGO
 Interfacility Summary - Year to Date
 Posting Dates: 01/01/2022 - 10/31/2022

Page: 1

Procedures	Charges	Minutes	Payments	Adjustments
DNG A0382 BASIC SUPPORT ROUTINE SUPPLIES	148	12,716	1,802.30	1,428.50
DNG A0384 BLS DEFIBRILLATION SUPPLIES	2	155	69.78	100.39
DNG A0392 ALS DEFIBRILLATION SUPPLIES	8	712	475.37	2,711.94
DNG A0394 ALS IV DRUG THERAPY SUPPLIES	6	451	55.36	52.74
DNG A0398 ALS ROUTINE DISPOSABLE SUPPLIES	137	10,938	3,570.72	9,772.25
DNG A0422 AMBUANCE 02 LIFE SUSTAINING	256	21,204	2,631.19	1,406.60
DNG A0425 DNG MILEAGE	6,545	34,186	52,776.86	15,636.07
DNG A0427 ALS-EMERGENCY DNG	6	0	88.18	64.32
DNG A0429 BLS-EMERGENCY RESIDENT	133	0	65,908.81	9,303.85
DNG A0434 CRITICAL CARE DNG	1	0	914.16	160.84
DNG A0434 INTERFACILITY CRITICAL CARE TRANSP	161	0	75,190.37	9,224.34
DNG J7030 NORMAL SALINE SOLUTION INFUS	116	9,876	87,895.42	11,543.40
DNG J7040 NORMAL SALINE SOLUTION INFUS	0	0	.00	.00
DNG 93005 ELECTROCARDIOGRAM, TRACING	1	80	16.13	17.39
DNG 94760 NONINVASIVE EAR OR PULSE OXIMETRY	3	287	11.08	8.92
DNG TOTAL	8	92	337.99	173.76
	7,533	672	309.08	588.65
		115,843	293,052.80	62,193.97
Other A0380 BLS - BASIC LIFE SUPPORT MILEAGE	27	0	131.52	300.48
Other A0382 BASIC SUPPORT ROUTINE SUPPLIES	8	0	95.47	.31
Other A0390 ALS - ADVANCED LIFE SUPPORT MILEAGE	65	0	180.84	418.56
Other A0392 ALS DEFIBRILLATION SUPPLIES	1	0	237.00	.00
Other A0394 ALS IV DRUG THERAPY SUPPLIES	8	0	11.66	.00
Other A0398 ALS ROUTINE DISPOSABLE SUPPLIES	8	0	882.56	121.60
Other A0422 AMBUANCE 02 LIFE SUSTAINING	14	0	136.04	1.20
Other A0425 GROUND MILEAGE	453	0	7,547.95	5,970.64
Other A0427 ALS-EMERGENCY INTERFACILITY	28	0	20,619.35	20,622.60
Other A0427 ALS1-EMERGENCY NON RESIDENT	0	0	432.18	1,317.82
Other A0429 BLS-EMERGENCY RESIDENT	0	0	10.00	10.00
Other A0429 BLS-EMERGENCY NON RESIDENT	0	0	546.11	753.89
Other J7030 NORMAL SALINE SOLUTION INFUS	1	0	291.15	558.85
Other 93005 ELECTROCARDIOGRAM, TRACING	0	0	.00	.00
Other 94760 NONINVASIVE EAR OR PULSE OXIMETRY	0	0	70.00	.00
Other TOTAL	605	0	31,191.83	30,055.95
TOTAL	8,138	115,843	324,244.63	92,249.92

ebix, Inc.

11/03/2022
user: AUSTIN
Qty: MFDFTWTH
Current
Quantity

Current
Charges

Current
Payments

VILLAGE OF MUKWONAGO
RRF Summary
Posting Dates: 10/01/2022 - 10/31/2022
Current
Adjustments
YTD
Quantity

YTD
Charges

YTD
Payments

YTD
Adjustments

Page: 1

1	625.00	1,250.00	625.00-	16	10,000.00	7,150.70	674.30
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ebix, Inc.

VILLAGE OF MUKWONAGO
 Five Year Run Summary

Year Run Category	Run Type	Qty	Charges	Amount Paid	Amount Adjusted	Balance
2022 DNG	ALSI	134	62,078.11	47,679.35-	5,252.41-	9,146.35
	BLS	161	62,184.64	50,208.06-	5,638.52-	6,338.06
	CRIT CARE	116	91,008.96	67,577.54-	7,610.62-	15,820.80
	Subtotal	411	215,271.71	165,464.95-	18,501.55-	31,305.21
Intercept	Intercept	121	60,500.00	47,500.00-	.00	13,000.00
	Subtotal	121	60,500.00	47,500.00-	.00	13,000.00
Interfacility	ALSI	28	43,400.00	17,732.66-	18,729.14-	6,938.20
	BLS	1	850.00	291.15-	558.85-	.00
	Subtotal	29	44,250.00	18,023.81-	19,287.99-	6,938.20
Non-Resident	ALSI	109	188,050.00	39,655.33-	78,302.99-	70,091.68
	BLS	26	33,800.00	11,013.88-	17,436.12-	5,350.00
	Subtotal	135	221,850.00	50,669.21-	95,739.11-	75,441.68
Non-Transport	Non-Transport	83	10,790.00	5,901.54-	1,055.46-	3,833.00
	Subtotal	83	10,790.00	5,901.54-	1,055.46-	3,833.00
Resident	ALSI	333	358,233.67	122,505.64-	148,089.95-	87,638.08
	BLS	122	103,700.00	40,995.45-	49,848.43-	12,856.12
	Subtotal	455	461,933.67	163,501.09-	197,938.38-	100,494.20
	TOTAL	1,234	1,014,595.38	451,060.60-	332,522.49-	231,012.29
2021 DNG	ALSI	298	128,789.64	124,577.36-	4,212.28-	.00
	BLS	300	109,182.00	105,429.47-	3,629.58-	122.95
	CRIT CARE	170	125,672.50	121,739.72-	3,932.78-	.00
	Subtotal	768	363,644.14	351,746.55-	11,774.64-	122.95
Intercept	Intercept	131	65,500.00	64,777.92-	222.08-	500.00
	Subtotal	131	65,500.00	64,777.92-	222.08-	500.00

ebix, Inc.

Village of Mukwonago
Year to Year Analysis
October 2022

2022													YTD	% Change
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 184,673.44	\$ 104,736.45	\$ 114,297.34	\$ 118,460.09	\$ 134,183.89	\$ 123,141.89	\$ 140,693.66	\$ 157,468.74	\$ 143,893.99	\$ 109,212.44	\$ 98,712.44	\$ 987,528.92	\$ 1,310,850.80	-4.7%
Receipt	\$ 70,782.83	\$ 117,564.21	\$ 40,824.45	\$ 81,453.77	\$ 46,866.74	\$ 46,566.08	\$ 111,598.42	\$ 86,567.78	\$ 78,980.12	\$ 53,728.32	\$ 74,407.82	\$ 889,332.77	\$ 971,086.02	-8.9%
Coif Rate	43.0%	112.1%	43.7%	69.8%	34.9%	37.8%	79.3%	55.0%	56.0%	49.2%				180.2%
2021													YTD	PYTD
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 127,580.91	\$ 136,847.70	\$ 113,685.97	\$ 117,030.80	\$ 157,209.42	\$ 134,051.06	\$ 160,382.09	\$ 134,228.09	\$ 141,691.95	\$ 152,472.33	\$ 125,402.16	\$ 150,317.12	\$ 1,650,890.60	\$1,376,171.32
Receipt	\$ 75,569.83	\$ 40,804.13	\$ 77,227.80	\$ 127,763.52	\$ 78,942.00	\$ 78,946.16	\$ 102,017.01	\$ 88,203.88	\$ 80,637.91	\$ 67,574.94	\$ 120,876.97	\$ 33,309.07	\$ 971,086.02	\$917,076.98
Coif Rate	69.2%	29.8%	67.9%	109.2%	49.8%	58.8%	63.6%	65.7%	58.9%	44.3%	59.2%	22.2%		68.4%
2020													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 149,699.13	\$ 128,050.99	\$ 145,794.95	\$ 130,827.73	\$ 137,841.45	\$ 114,346.09	\$ 125,582.52	\$ 125,502.96	\$ 150,471.03	\$ 132,065.24	\$ 159,247.85	\$ 153,448.60	\$ 1,655,977.94	
Receipt	\$ 84,351.08	\$ 88,822.21	\$ 101,153.33	\$ 94,397.47	\$ 89,613.10	\$ 65,247.85	\$ 94,257.92	\$ 46,073.85	\$ 137,544.71	\$ 83,238.35	\$ 73,387.27	\$ 82,261.84	\$ 1,080,328.88	
Coif Rate	66.3%	68.4%	69.4%	72.1%	72.2%	57.1%	78.1%	36.7%	88.7%	70.6%	47.0%	53.8%		63.9%
2019													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 99,036.89	\$ 90,713.07	\$ 88,046.11	\$ 101,842.44	\$ 109,787.74	\$ 107,580.06	\$ 114,324.43	\$ 112,613.30	\$ 114,789.16	\$ 97,200.77	\$ 108,708.11	\$ 117,750.00	\$ 1,256,438.02	
Receipt	\$ 73,933.63	\$ 58,751.56	\$ 68,433.96	\$ 70,520.64	\$ 83,095.10	\$ 64,983.94	\$ 59,504.35	\$ 94,757.17	\$ 73,683.26	\$ 94,502.34	\$ 79,071.28	\$ 77,084.37	\$ 899,231.00	
Coif Rate	74.7%	64.8%	78.5%	69.2%	76.1%	64.0%	52.0%	84.1%	64.1%	97.2%	72.7%	66.5%		71.6%
2018													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 119,224.23	\$ 84,388.95	\$ 121,705.84	\$ 108,412.64	\$ 109,379.98	\$ 108,919.07	\$ 104,433.56	\$ 88,888.91	\$ 100,038.78	\$ 105,141.62	\$ 86,444.16	\$ 101,015.37	\$ 1,245,898.13	
Receipt	\$ 85,979.39	\$ 81,759.79	\$ 59,748.93	\$ 85,912.98	\$ 55,106.60	\$ 73,312.09	\$ 89,877.85	\$ 103,221.77	\$ 105,354.06	\$ 89,896.22	\$ 68,305.49	\$ 89,391.64	\$ 978,907.00	
Coif Rate	73.0%	86.9%	49.1%	88.6%	63.1%	67.3%	83.3%	108.5%	108.3%	66.4%	79.0%	88.5%		78.6%
2017													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 119,480.10	\$ 105,501.33	\$ 108,993.27	\$ 109,179.31	\$ 105,877.35	\$ 108,530.73	\$ 101,846.34	\$ 117,020.33	\$ 106,487.35	\$ 113,000.91	\$ 111,889.59	\$ 130,680.68	\$ 1,334,017.26	
Receipt	\$ 105,252.61	\$ 98,828.79	\$ 81,598.83	\$ 104,454.70	\$ 57,587.69	\$ 82,820.67	\$ 48,974.09	\$ 101,457.11	\$ 88,148.65	\$ 101,765.32	\$ 91,203.96	\$ 82,072.48	\$ 1,042,282.89	
Coif Rate	88.1%	91.8%	75.1%	96.7%	54.4%	76.3%	48.2%	86.7%	82.8%	90.1%	81.5%	62.8%		77.8%
2016													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 116,417.10	\$ 108,065.61	\$ 98,581.64	\$ 114,183.48	\$ 114,736.16	\$ 106,824.32	\$ 87,418.43	\$ 121,320.78	\$ 114,940.47	\$ 88,984.19	\$ 99,942.71	\$ 114,214.30	\$ 1,288,289.19	
Receipt	\$ 61,550.88	\$ 82,087.35	\$ 75,405.76	\$ 66,257.67	\$ 55,061.87	\$ 86,016.64	\$ 74,023.69	\$ 53,829.50	\$ 64,296.90	\$ 123,268.86	\$ 55,887.55	\$ 81,786.48	\$ 888,332.77	
Coif Rate	62.8%	84.0%	76.6%	68.0%	48.0%	80.7%	84.7%	44.5%	56.9%	138.6%	56.7%	71.6%		69.1%
2015													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 79,031.96	\$ 85,512.80	\$ 72,393.40	\$ 78,504.17	\$ 75,945.01	\$ 82,767.10	\$ 186,133.66	\$ 137,189.70	\$ 150,471.31	\$ 123,218.34	\$ 130,032.31	\$ 132,807.47	\$ 1,313,957.32	
Receipt	\$ 39,588.97	\$ 44,216.41	\$ 48,933.11	\$ 66,887.13	\$ 48,209.40	\$ 46,113.46	\$ 54,662.53	\$ 38,003.40	\$ 178,693.52	\$ 104,169.07	\$ 144,486.81	\$ 80,162.60	\$ 893,301.41	
Coif Rate	60.1%	67.8%	67.5%	83.9%	63.6%	55.7%	29.5%	27.7%	118.8%	84.5%	111.1%	60.4%		68.0%
2014													YTD	
	January	February	March	April	May	June	July	August	September	October	November	December		
Charges	\$ 85,552.39	\$ 73,251.45	\$ 75,666.73	\$ 86,782.27	\$ 103,656.17	\$ 83,053.65	\$ 75,676.93	\$ 76,701.18	\$ 93,983.85	\$ 77,439.89	\$ 79,964.18	\$ 71,452.23	\$ 987,528.92	
Receipt	\$ 49,408.42	\$ 51,246.89	\$ 47,643.42	\$ 65,464.63	\$ 37,615.89	\$ 46,713.95	\$ 71,360.57	\$ 49,438.28	\$ 46,860.48	\$ 57,768.77	\$ 52,678.80	\$ 36,889.10	\$ 609,888.00	
Coif Rate	54.2%	70.0%	63.0%	73.7%	36.2%	60.2%	94.0%	62.8%	49.6%	74.6%	66.9%	51.6%		61.9%

Incident Type Report (Summary)

Basic Incident Type Code And Description (FD1.21)	Total Incidents	Total Incidents Percent of Incidents	Total Property Loss	Total Content Loss	Total Loss	Total Loss Percent of Total
Incident Type Category (FD1.21): 1 - Fire						
111 - Building fire	16	0.91%	65,000.00	21,000.00	86,000.00	78.54%
114 - Chimney or flue fire, confined to chimney or flue	3	0.17%	5,000.00	0.00	5,000.00	4.57%
131 - Passenger vehicle fire	1	0.06%	15,000.00	0.00	15,000.00	13.70%
138 - Off-road vehicle or heavy equipment fire	1	0.06%	3,000.00	0.00	3,000.00	2.74%
140 - Natural vegetation fire, other	1	0.06%	0.00	0.00	0.00	0.00%
143 - Grass fire	5	0.28%				
161 - Outside storage fire	2	0.11%	500.00	0.00	500.00	0.46%
Total: 29		Total: 1.64%	Total: 88,500.00	Total: 21,000.00	Total: 109,500.00	Total: 100.00%
Incident Type Category (FD1.21): 3 - Rescue & Emergency Medical Service Incident						
311 - Medical assist, assist EMS crew	19	1.08%				
321 - EMS call, excluding vehicle accident with injury	756	42.83%				
3212 - Interfacility Transfer	441	24.99%				
3213 - Intercept	200	11.33%				
322 - Motor vehicle accident with injuries	28	1.59%				
324 - Motor vehicle accident with no injuries.	22	1.25%				
361 - Swimming/recreational water areas rescue	1	0.06%				
381 - Rescue or EMS standby	4	0.23%				
Total: 1,471		Total: 83.34%	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00%
Incident Type Category (FD1.21): 4 - Hazardous Condition (No Fire)						
400 - Hazardous condition, other	1	0.06%				
411 - Gasoline or other flammable liquid spill	2	0.11%				
412 - Gas leak (natural gas or LPG)	5	0.28%				
440 - Electrical wiring/equipment problem, other	1	0.06%				
444 - Power line down	3	0.17%				
463 - Vehicle accident, general cleanup	1	0.06%				
Total: 13		Total: 0.74%	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00%
Incident Type Category (FD1.21): 5 - Service Call						
500 - Service call, other	8	0.45%				
511 - Lock-out	2	0.11%				
522 - Water or steam leak	3	0.17%				
531 - Smoke or odor removal	1	0.06%				
542 - Animal rescue	1	0.06%				
551 - Assist police or other governmental agency	4	0.23%				
553 - Public service	2	0.11%				
561 - Unauthorized burning	1	0.06%	0.00	0.00	0.00	0.00%
571 - Cover assignment, standby, moveup	11	0.62%				
Total: 33		Total: 1.87%	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00%
Incident Type Category (FD1.21): 6 - Good Intent Call						
611 - Dispatched and cancelled en route	127	7.20%				
622 - No incident found on arrival at dispatch address	10	0.57%				
631 - Authorized controlled burning	4	0.23%				
651 - Smoke scare, odor of smoke	4	0.23%				
671 - HazMat release investigation w/no HazMat	10	0.57%				

Basic Incident Type Code And Description (FD1.21)	Total Incidents	Total Incidents Percent of Incidents	Total Property Loss	Total Content Loss	Total Loss	Total Loss Percent of Total
Total: 155		Total: 8.78%	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00%
Incident Type Category (FD1.21): 7 - False Alarm & False Call						
700 - False alarm or false call, other	1	0.06%				
733 - Smoke detector activation due to malfunction	12	0.68%				
734 - Heat detector activation due to malfunction	3	0.17%				
735 - Alarm system sounded due to malfunction	9	0.51%				
736 - CO detector activation due to malfunction	7	0.40%				
740 - Unintentional transmission of alarm, other	1	0.06%				
741 - Sprinkler activation, no fire - unintentional	2	0.11%				
743 - Smoke detector activation, no fire - unintentional	5	0.28%				
744 - Detector activation, no fire - unintentional	3	0.17%				
745 - Alarm system activation, no fire - unintentional	20	1.13%				
746 - Carbon monoxide detector activation, no CO	1	0.06%				
	Total: 64	Total: 3.63%	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00%
	Total: 1,765	Total: 100.00%	Total: 88,500.00	Total: 21,000.00	Total: 109,500.00	Total: 100.00%



Agenda Item Cover Report

Date: 11/11/22	Committee/Board: Downtown Development Committee
Submitted by: Fred Schnook	Department: Administration
Date of Committee Action: 10/27/22	Date of Village Board Action: 11/16/22

Subject:

Way-finding Signage Bidding

Executive Summary:

The Board contracted with KMA Design to design way-finding signs for the Village of Mukwonago. The total cost for the implementation of way-finding signs within the Village is estimated to be \$401,901. This was too expensive for our budget to perform in one year. So, it is recommended to focus on the primary entrance signs in year one and then work our way into the Village over the next three years to complete the project. The Board has scheduled \$150,000 in 2023, and \$83,967 in 2024, 2025 and in 2026 within the Capital Improvement Plan.

The Downtown Development Committee is recommending to the Village Board of Directors that six entrance signs be the focus for 2023 and that the project be put out for bid. A unanimous motion was passed to forward to the Village Board a map of Gateway Signs to be bid and placed in 2023.

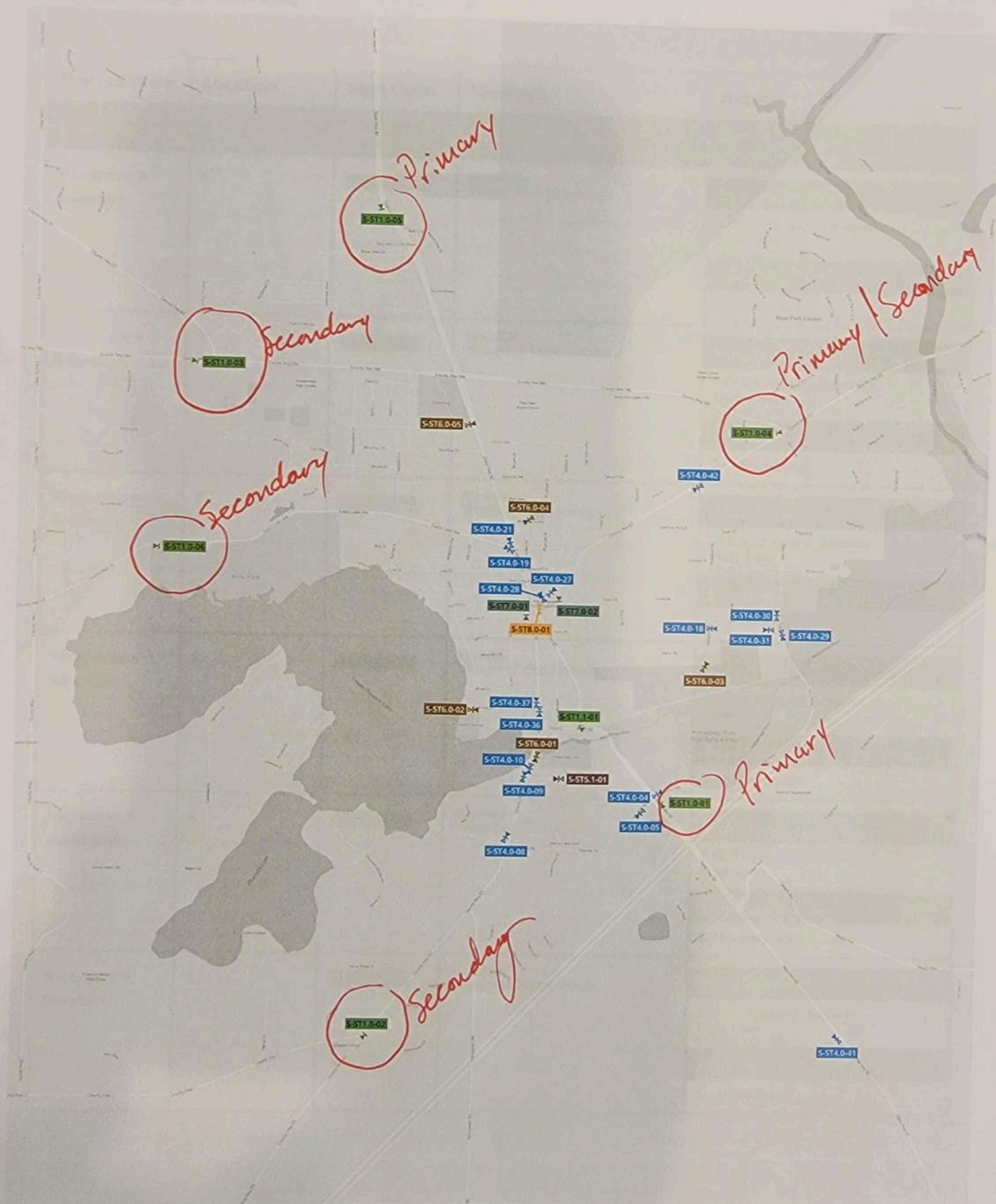
Fiscal Impact:

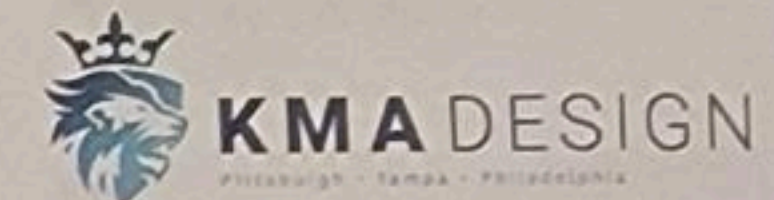
Up to \$150,00 in 2023, \$83,967 in 2024, \$83,967 in 2025 and finally, \$83,976 in 2026.

Executive Recommendation/Action:

It is recommended that Village Staff be authorized to bid way-finding signs for the Village as per the Board adopted sign design; Further, that one bid be let for all four years of work with a clause that the Village may cancel future work if current performance is found to be unsatisfactory.

** Attachments Included**





Project: Village of Mukwonago
Brand Signage + Wayfinding

Address:

Project Number: 2103.02

Date: 03-24-2022

Project Manager: Jeremy Detwiler

Sign Type:

Issued for: Construction Documents



2 maybe 3 signs
 165
 83 W + South
 ES East 4
 810

S-ST1.0-01
 05
 04 ?

01 Primary Entrance
Elevation

Scale - 1/2" = 1' 0"

02 Primary Entrance
End View

Scale - 1/2" = 1' 0"

No part of this document may be reproduced or utilized in any form, without prior written authorization by Kerestes-Martin Associates, Inc. (KMA, KMA Design)

These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. KMA must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

Sheet:



KMA DESIGN
Pittsburgh • Tampa • Philadelphia

Project: Village of Mukwonago
Brand Signage + Wayfinding

Address:

Project Number: 2103.02

Date: 03-24-2022

Project Manager: Jeremy Detwiler

Sign Type:

Issued for: Construction Documents

3 or 4

ES West
Eagle Lake
NN West

S-ST1.0-03
06
02

04 ?



01 Secondary Entrance
Elevation / End View

Scale - 3/4" = 1'

02 Secondary Entrance
Elevation - Materials

Scale - 3/4" = 1' 0"



Agenda Item Cover Report

Date: 11/11/22	Committee/Board: Board of Trustees
Submitted by: Fred Schnook	Department: Administration
Date of Committee Action: N/A	Date of Village Board Action: 11/16/22

Subject:

FIRM Map Updates

Executive Summary:

Prior to the National Flood Insurance Act of 1968, which created the National Flood Insurance Program, many property owners who were flooded, were unable to purchase flood insurance. The National Flood Insurance Program has two goals: reducing future flood damage and protecting property owners. It does this by providing government guaranteed flood insurance to property owners in municipalities that adopt floodplain zoning restrictions. The municipalities base their floodplain zoning ordinances on Flood Insurance Rate Maps (FIRM Maps) produced by the Federal Emergency Management Agency. FIRM maps are the official community maps that shows special flood hazard areas and the risk premium zones for insurance. The Village of Mukwonago has adopted floodplain zoning for many decades.

Updated FIRM maps for Mukwonago have been posted by FEMA. The Village has until November 18th to determine if it wishes to request a Letter of Map Revision - essentially appealing the new maps. When notified of the new draft maps (attachment #1), the Village Administrator requested that the Village's engineer perform an analysis of the map changes to determine the impact on the Village. Those two letters are attached for your review.

The decision of whether or not to submit a formal Letter of Map Revision is not a routine, day-to-day executive decision and as such, it is being brought to the Board for action.

Fiscal Impact:

Up to \$14,000.

Executive Recommendation/Action:

It is the recommendation of the Village Staff that the Village not request a Letter of Map Revision as it will cost up to \$14,000, expend a lot of staff effort, and there is little chance that the request will be successful.

■ Attachments Included



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
APPEAL START

August 5, 2022

Mr. Fred Winchowky
Village President, Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

Case No: 13-05-3721S
Community: Village of Mukwonago,
Waukesha County, Wisconsin
Community No.: 550485

Dear Mr. Winchowky:

On January 29, 2020, the Department of Homeland Security's Federal Emergency Management Agency (FEMA) provided your community with Preliminary copies of the revised Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for Waukesha County, Wisconsin, and Incorporated Areas. A revised preliminary FIRM and FIS Report was also provided to your community on April 19, 2021, to include two Villages that had recently incorporated. FEMA has posted digital copies of these revised FIRM and FIS report materials to the following Website:

<https://hazards.fema.gov/femaportal/prelimdownload/>. The Preliminary FIRM and FIS report include proposed flood hazard information for certain locations in the Village of Mukwonago, Waukesha County, Wisconsin. The proposed flood hazard information may include addition or modification of Special Flood Hazard Areas, the areas that would be inundated by the base (1-percent-annual-chance) flood; base flood elevations or depths; zone designations; or regulatory floodways.

We have published a notice of the proposed flood hazard determinations in the *Federal Register* and will publish a public notification concerning the appeal process (explained below) in the *Waukesha Freeman* on or about August 11th, and August 18th. We will also publish a separate notice of the flood hazard determinations on the "Flood Hazard Determinations on the Web" portion of the FEMA Website: https://www.floodmaps.fema.gov/fhm/BFE_Status/bfe_main.asp. We have enclosed copies of the notice published in the *Federal Register* and the newspaper notice for your information.

These proposed flood hazard determinations, if finalized, will become the basis for the floodplain management measures that your community must adopt or show evidence of having in effect to qualify or remain qualified for participation in the National Flood Insurance Program (NFIP). However, before any new or modified flood hazard information is effective for floodplain management purposes, FEMA will provide community officials and citizens an opportunity to appeal the proposed flood hazard information presented on the preliminary revised FIRM and FIS report posted to the above-referenced Website.

Section 110 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) is intended to ensure an equitable balancing of all interests involved in the setting of flood hazard determinations. The legislation provides for an explicit process of notification and appeals for your community and for private persons prior to this office making the flood hazard determinations final. The appeal procedure is outlined below for your information.

During the 90-day appeal period following the second publication of the public notification in the above-named newspaper, any owner or lessee of real property in your community who believes his or her

property rights will be adversely affected by the proposed flood hazard determinations may appeal to you, or to an agency that you publicly designate. It is important to note, however, that the sole basis for such appeals is the possession of knowledge or information indicating that the proposed flood hazard determinations are scientifically or technically incorrect. The appeal data must be submitted to FEMA during the 90-day appeal period. Only appeals of the proposed flood hazard determinations supported by scientific or technical data can be considered before FEMA makes its final flood hazard determination at the end of the 90-day appeal period. Note that the 90-day appeal period is statutory and cannot be extended. However, FEMA also will consider comments and inquiries regarding data other than the proposed flood hazard determinations (e.g., incorrect street names, typographical errors, omissions) that are submitted during the appeal period, and will incorporate any appropriate changes to the revised FIRM and FIS report before they become effective.

If your community cannot submit scientific or technical data before the end of the 90-day appeal period, you may nevertheless submit data at any time. If warranted, FEMA will revise the FIRM and FIS report after the effective date. This means that the revised FIRM would be issued with the flood hazard information presently indicated, and flood insurance purchase requirements would be enforced accordingly, until such time as a revision could be made.

Any interested party who wishes to appeal should present the data that tend to negate or contradict our findings to you, or to an agency that you publicly delegate, in such form as you may specify. We ask that you review and consolidate any appeal data you may receive and issue a written opinion stating whether the evidence provided is sufficient to justify an official appeal by your community in its own name or on behalf of the interested parties. Whether or not your community decides to appeal, you must send copies of individual appeals and supporting data, if any, to:

G. Fritz Statz
Wisconsin Department of Natural Resources/WW3
P.O. Box 7921
101 South Webster Street
Madison WI, 53707-7921
(608) 220-4290
Gordon.statz@wisconsin.gov

Additional copy to:

Munib Ahmad, FEMA Region 5
536 South Clark Street, 6th Floor
Chicago, Illinois 60605
munib.ahmad@fema.dhs.gov

If we do not receive an appeal or other formal comment from your community in its own name within 90 days of the second date of public notification, we will consolidate and review on their own merits such appeal data and comments from individuals that you may forward to us, and we will make such modifications to the proposed flood hazard information presented on the revised FIRM and in the revised FIS report as may be appropriate. If your community decides to appeal in its own name, all individuals' appeal data must be consolidated into one appeal by you, because, in this event, we are required to deal only with the local government as representative of all local interests. We will send our final decision in writing to you, and we will send copies to the community floodplain administrator, each individual appellant, and the State NFIP Coordinator.

All appeal submittals will be resolved by consultation with officials of the local government involved, by an administrative hearing, or by submission of the conflicting data to an independent scientific body or appropriate Federal agency for advice. Use of a Scientific Resolution Panel (SRP) is also available to your

community in support of the appeal resolution process when conflicting scientific or technical data are submitted during the appeal period. SRPs are independent panels of experts in hydrology, hydraulics, and other pertinent sciences established to review conflicting scientific and technical data and provide recommendations for resolution. An SRP is an option after FEMA and community officials have been engaged in a collaborative consultation process for at least 60 days without a mutually acceptable resolution of an appeal. Please refer to the enclosed “Scientific Resolution Panels” Overview for additional information on this resource available to your community.

FEMA will make the reports and other information used in making the final determination available for public inspection. Until the conflict of data is resolved, and the revised FIRM becomes effective, flood insurance available within your community will continue to be available under the effective NFIP map, and no person shall be denied the right to purchase the applicable level of insurance at chargeable rates.

The decision by your community to appeal, or a copy of its decision not to appeal, should be filed with this office no later than 90 days following the second publication of the flood hazard determination notice in the above-named newspaper. Your community may find it appropriate to call further attention to the proposed flood hazard determinations and to the appeal procedure by using a press release or other public notice.

If warranted by substantive changes, during the appeal period we will send you Revised Preliminary copies of the revised FIRM and FIS report. At the end of the 90-day appeal period and following the resolution of any appeals and comments, we will send you a Letter of Final Determination, which will finalize the flood hazard information presented on the revised FIRM and FIS report and will establish an effective date.

If you have any questions regarding the proposed flood hazard determinations, revised FIRM panels, or revised FIS report for your community, please call our FEMA Mapping and Insurance eXchange (FMIX), toll free, at 1-877-FEMA MAP (1-877-336-2627) or e-mail the FMIX staff at FMIX@fema.dhs.gov.

Sincerely,



Luis V. Rodriguez, P.E.
Director Engineering and Modeling Division
Federal Insurance and Mitigation Administration

List of Enclosures:
Newspaper Notice
Proposed Flood Hazard Determinations *Federal Register* Notice
“Scientific Resolution Panels” Overview

cc: Community Map Repository
John Fellows, Zoning Administrator, Village of Mukwonago

November 2, 2022

Mr. Fred Schnook
Village Administrator
Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

Dear Mr. Schnook:

PURPOSE

The Department of Homeland Security's Federal Emergency Management Agency (FEMA) has issued Preliminary Flood Insurance Rate Maps (FIRM) that reflect proposed flood hazard determinations for communities within Waukesha County. These determinations include revised base flood elevations, flooding depths, stream flows, and flood hazard boundaries within Waukesha County communities including the Village of Mukwonago. Once approved, these determinations are the basis for floodplain management measures that your community is required to take to remain in good standing with the National Flood Insurance program. The current Effective Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRM) are based on modeling done in last completed in 2014.

The draft hydrologic and hydraulic (H&H) models used to develop the Preliminary mapping show an increase in flow rates and water surface elevations for the following waterbodies that flow through the Village:

- Fox River
- Mukwonago River
- Tributary to the Mukwonago River

For example, along the Fox River, at the crossing with County Trunk Highway I, the effective 100-Year discharge is approximately 2,360 cfs. The 100-Year flow from the hydraulic modeling representing the Preliminary mapping is approximately 3,453 cfs. As part of the Preliminary mapping, the Fox River was re-studied; a new hydraulic model was created. For the Mukwonago River, hydraulics did not change, however, mapping changed due to backwater effects at the confluence with the Fox River because of the new Fox River study. The tributary to the Mukwonago River is new; it has not been studied previously.

To address concerns about the flow increases within the Fox River; that have a direct influence on what is represented on the Preliminary Maps for the Fox River, Mukwonago River, and it's tributary the draft hydraulic models were evaluated to determine if the flow rate and elevation increases are justifiable. This work is related to the 90-day FEMA appeal process which officially ends on November 18, 2022. Within this memorandum, Ruekert-Mielke presents a summary of the model investigation tasks, findings, interpretations, conclusions, and recommendations.

EXECUTIVE SUMMARY

Ruekert & Mielke, Inc. (R/M) staff assessed the draft H&H models and related documents developed by WDNR to determine if the increase in flow rates and floodplain elevations are reasonable. R/M examined the following modeling elements:

- Fox River Effective and Preliminary Hydraulics
 - HEC-RAS modeling approach and flow analysis.
 - Model Geometry.
 - Flow Boundary Conditions.-

Mr. Fred Schnook
Village of Mukwonago
November 2, 2022
Page 2

- Mukwonago River Effective and Preliminary Hydraulics
 - HEC-RAS modeling approach and flow analysis.
 - Model Geometry.
 - Flow Boundary Conditions.
- Mukwonago River Tributary Preliminary Hydraulics
 - HEC-RAS modeling approach and flow analysis.
 - Model Geometry.
 - Flow Boundary Conditions.

The evaluation process and results are documented within this technical memorandum to present potential model updates for WDNR.

EFFECTIVE AND PRELIMINARY HYDRAULIC MODELS, FIRMS, AND FIS STUDIES

R/M obtained the following Effective models from the WDNR Surface Water Data Viewer:

Fox River

- FOX RIVER FIS JN2202 WAUKESHA COUNTY THRU MUKWONAGO
 - Effective Fox River Model from SWDV 10531
 - Plan-Imported Plan 01-.p01
 - Geometry-Imported Geom 01-.g01
 - Steady Flow-Imported Flow 01-.f01
- FOX RIVER FIS JN2202 WAUKESHA COUNTY THRU BIG BEND 10 YEAR PROFILE
 - Effective Fox River Model from SWDV 3587
 - Plan-Imported Plan 01-.p01
 - Geometry-Imported Geom 01-.g01
 - Steady Flow-Imported Flow 01-.f01

Mukwonago River

- Modeled by Gannett Fleming, 4/01/2006: DWDr. All data supplied by SEWRPC as indicated in the model x-sections. Overbanks and channels not surveyed cut from terrain data supplied by DNR and cut via GIS.
 - Mukwonago River Detailed Study
 - Plan-NATURAL_GF_W_01-.p04
 - Geometry-MukwonagoRiver_GeoRAS_Final-.g03
 - Steady Flow-MukgoHydroModel_11_17_2005-.f02
 - Plan-ADMINISTRATIVE-.p05
 - MukwonagoRiver_GeoRAS_Final-.g03
 - Steady Flow-ADMIN_11_17_2005-.f01

Ruekert-Mielke obtained the following Effective FIRMS from the WDNR Surface Water Data Viewer, all FIRMS have an Effective date of November 5, 2014:

Fox River and Mukwonago River

- 55133C0314G
- 55133C0318G
- 55133C0426G

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- 55133C0427G
- 55133C0431G

R/M obtained the following Effective FIS studies from the WDNR Surface Water Data Viewer all studies have an Effective date of November 5, 2014 and April 6, 2022:

Fox River and Mukwonago River

- Waukesha County FIS Revised 11-5-14 Volumes1-3.
- Walworth County FIS Revised 4-6-22 Volumes 1-2.

R/M obtained the following Preliminary models directly from the WDNR:

Fox River

- UpperFoxRiver
- Plan-5 Profile Run-.p01
- Geometry-5'DEMs with Survey-.g01
- HEC-HMS Discharges-.f01
- Plan-Floodway Run-.p02
- Geometry-5'DEMs with Survey-.g01
- Steady Flow-Floodway Run-.f02
- Plan-June 2008-.p03
- Geometry-June 2008 Calibration-.g03
- Steady Flow-June 2008 Discharges-.f03

Tributary to the Mukwonago River

- Mukwonago River Tributary Detailed Study RiskMAP WDNR 5/8/15
 - MukwonagoRT
 - Plan-5 Profile Run-.p01
 - Geometry-2012 LIDAR with Survey-.g02
 - Steady Flow-HEC-HMS Discharges-.f01
 - Plan-Floodway Run-.p02
 - Geometry-2012 LIDAR with Survey-.g02
 - Steady Flow-Floodway-.f02

R/M obtained the following Preliminary FIRMS directly from the WDNR, all FIRMS have dates of January 29, 2020 and April 19, 2021:

Fox River, Mukwonago River, and Tributary to the Mukwonago River

- 55133C0314H
- 55133C0318H
- 55133C0427H
- 55133C0430H
- 55133C0431H
- 55133C0435H

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R/M obtained the following preliminary FIS studies directly from the WDNR, all studies have a date of September 15, 2021:

Fox River, Mukwonago River, and Tributary to the Mukwonago River

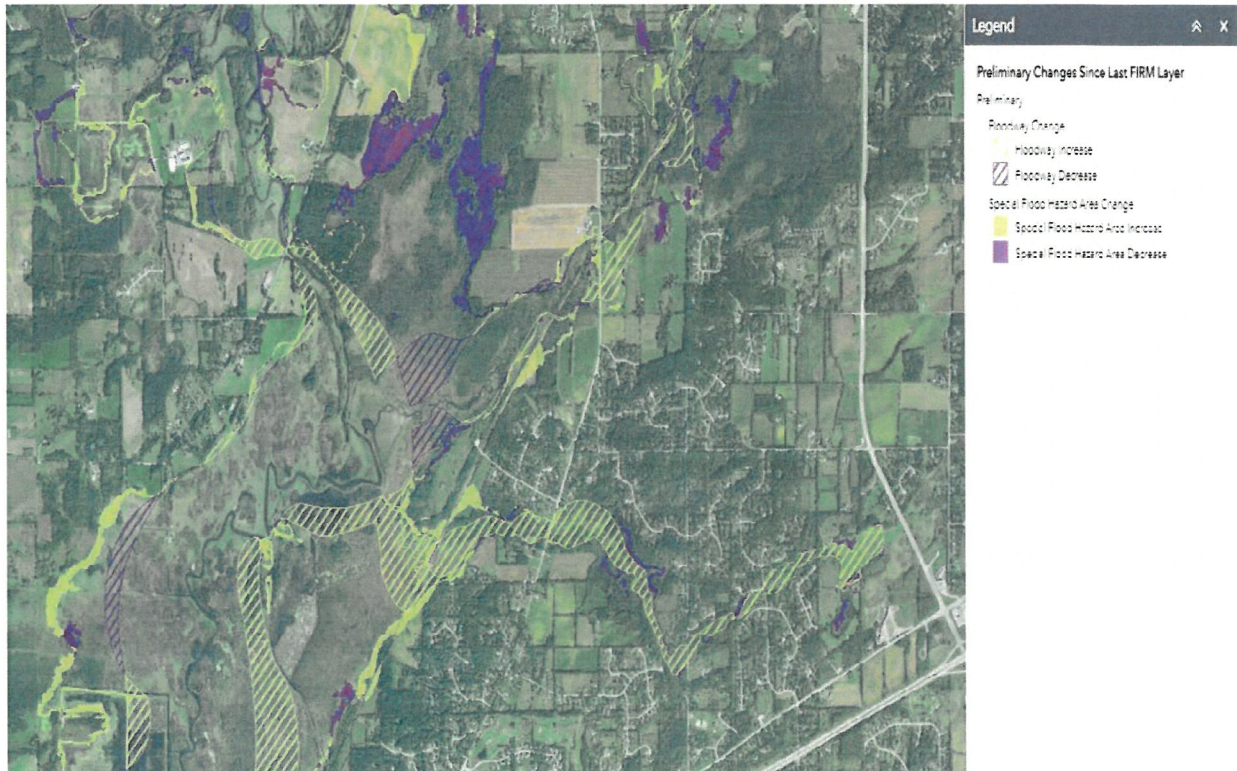
- Waukesha County FIS Preliminary 9-15-21 Volumes 1-5.

R/M focused our evaluation on the Fox River as the WDNR indicated that the hydrology and hydraulics did not change for the Mukwonago River, we also reviewed the information provided for the Tributary to the Mukwonago River as this was never studied until now.

The following snapshots were taken from FEMA'S ArcGIS; these show the proposed changes to the floodplain and floodway boundaries between Current (Effective) Conditions and the Preliminary Conditions; increases are shown in yellow; decreases are shown in purple. Reviewing this information, there are three potential structures and a trail system within the expanded floodplain/floodway as shown below. The first few snapshots are larger scale views of the Village, subsequent snapshots are more localized, showing potential encroachments.



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Edgewood Greenhouses-S94W27495 Edgewood Avenue.



Trail near Fox River Run.



Two properties on Wolf Run.

FOX RIVER HYDROLOGIC MODEL DEVELOPMENT/SUBSEQUENT DISCHARGES

As discussed previously, the Fox River was restudied recently, as a result, discharges have increased in the Fox River; resulting in higher water surface elevations within the Fox River and the Mukwonago River as the water surface elevation in the Fox River is a boundary condition for the Mukwonago River modeling. The following is a summary of the hydrologic model development for Effective Conditions and Preliminary Conditions resulting in the discharges used to generate the Preliminary FIRMS:

Effective Conditions

Hydrologic analyses were conducted to establish peak discharge-frequency relationships for each flooding source studied by detailed methods affecting the community.

A hydrologic analysis was performed by the WDNR in 2005 for the Mukwonago River. Discharges were computed using the Hydrologic Engineering Center's Hydrologic Modeling System (HEC-HMS) computer software, version 2.2.2 (USACE, 2003). For each subbasin, runoff Curve Numbers (CNs) were estimated using Waukesha County's 2000 land use data and SSURGO soils data. Times of concentration were estimated using the TR-55 flow path segment method. The rainfall distribution used was developed jointly by the WDNR and the Southeastern Wisconsin Regional Planning Commission (SEWRPC), Rainfall time distributions were developed for 3-hour through 48-hour rainstorms recorded at selected gauges in the region.

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Those distributions were plotted as percent of total rainfall versus percent of total time. The data were used to develop a representative storm/flooding distribution in Southeastern Wisconsin.

Mukwonago River Storage areas included: Eagle Spring Lake, Lake Beulah, and Phantom Lake. The rating curve for Lake Beulah was taken from the WDNR field file. Discharge rating curves for Eagle Spring and Phantom Lakes were computed based upon WDNR inspection surveys from field files. Storage rating curves for these lakes are based upon lake survey maps and the 2000 TIN. The hydrologic analysis for most waterways in the Fox River Basin, including the Fox River, were taken directly from the publication "A Comprehensive Plan for the Fox River Watershed". The nearest recording stream gage (Reference 6) on the Fox River is located at Prairie Street (drainage area 127 square miles) in Waukesha about ten miles from Brookfield. This gage has been in operation from 1963 to the present. The discharges for the various flood-frequency recurrence events on this river were evaluated according to a log-Pearson Type III analysis. The discharges at various locations along the Fox River were obtained from discharge versus drainage area curves for the river based on the upstream and downstream data.

Preliminary Conditions

For the Fox River, Floodplain Storage was explicitly accounted for at the Vernon Marsh State Wildlife Area, Tichigan Lake, and Lake Geneva. The HEC-HMS models were calibrated to match the June, 2008 flood event for the USGS stream gages at Waukesha and New Munster, and to match records at the Waterford and Rochester Dams. For the Mukwonago River Tributary, Floodplain Storage was considered where permanent water bodies existed, such as ponds, lakes, or manmade detention structures, or where there were significant wetlands identified in the Wisconsin Wetland Inventory.

The following table summarizes the differences in discharge between the Effective Model of the Fox River, and the Preliminary Model:

Table 1: Fox River 100-Year Peak Discharge Comparison Effective versus Preliminary

Flow Change Location from WDNR Effective Model	Equivalent Location in WDNR Preliminary Model	100-Yr Peak Discharge from WDNR Effective Model	100-Yr Peak Discharge Equivalent Preliminary	Percent Flow Increase from Effective to Preliminary
37	RS 307084	2,360 cfs	2,800 cfs	16%
29	RS 298907	2,370 cfs	2,800 cfs	15%
13	RS 273991	2,600 cfs	3,453 cfs	25%

Based on these discharges, the following is an example of a comparison in 100-Year Water Surface Elevations between Effective and Preliminary Conditions:

R.S. 29/298907-789.33/789.36

R.S. 13/273991-784.78/785.50

Hydraulic model output for both Effective and Preliminary Conditions can be found as an Appendix to this report.

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It is important to note the difference in Fox River downstream boundary conditions between the Effective and Preliminary models. Even though the hydrology for the Mukwonago River did not change the hydrology did change for the Fox River and the water surface elevation in the Fox River is the downstream condition for the Mukwonago River. Higher water surface elevations in the Fox River have a backwater effect onto the Mukwonago River; the higher the Fox River is, the higher the Mukwonago River would be because of the downstream influence. The following summarizes the downstream boundary conditions for both Effective and Preliminary conditions:

Table 2: Mukwonago River 100-Year Peak Discharge Downstream Boundary Condition Effective versus Preliminary

Muk. River Downstream Boundary Cond. Sta. Effective	Equivalent Location in WDNR Preliminary Model-Fox River	100-Yr Elevation of Muk. River from Effective Model at Fox River	100-Yr Elevation Equivalent Location Preliminary	Elevation Increase from Effective to Preliminary
7	RS 242405	781.3	784.12	2.82

The following is a listing of differences noted between Effective Conditions and Preliminary Conditions within the Village of Mukwonago from review of all data:

- In the Effective FIS, the 100-Year discharge listed at the confluence of the Mukwonago and Fox Rivers is 2,370 cfs; in the Preliminary FIS, this is listed as 3,747 cfs.
- For downstream boundary condition of the Mukwonago River at the confluence with the Fox River, the 100-Year effective water surface elevation is 781.3; within the Preliminary Model for the Fox River, this elevation is listed as 784.12.
- There is a difference in the tributary drainage area listed between the Effective Model and the Preliminary Model. As an example, for the Effective Conditions, the area tributary to the confluence of the Fox and Mukwonago Rivers is listed as 223.4 acres. In the Preliminary FIS, this area is listed as, 288.8 acres.
- Based on observations, the shallow surface depressions throughout the watershed (e.g. in lawns) and roadside swales may have a substantial effect on the surface runoff that can realistically make its way to the Fox and Mukwonago Rivers. The hydrologic modeling should account for the surface depressional storage; it is unclear whether the Preliminary modeling accounts for this.
- There are physical differences in model geometry between the Effective and Preliminary models to note:
 - Channel and Overbank roughness co-efficients varied between Effective Conditions and Preliminary Conditions within the Fox River; for the channel, Effective Roughness Co-Efficients varied from 0.023 to 0.030; for the Preliminary modeling, the co-efficients varied from 0.030 to 0.040. For overbank areas the effective co-efficients varied from 0.05 to 0.10; for preliminary conditions, the co-efficient varied from 0.075 to 0.12.
 - There are geometric differences in some of the crossings of the Fox River between the Effective and Preliminary models; for example, in the Effective Model the County Trunk Highway I Crossing, the open width perpendicular to the direction of flow is ninety-three feet; in the Preliminary Model, the width is approximately ninety'. The distances between bounding cross-sections for County Trunk Highway varies as well, in Effective Conditions, this was thirty-six feet; in Preliminary Conditions, this was seventy-two feet.

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- For both the Fox River and Mukwonago River, Waukesha County LiDAR data flown in the spring of 2015 was processed into a countywide 5-foot DEM. The horizontal coordinate system used for the project was NAD 1983 HARN State Plane Wisconsin South (US Feet) and the vertical datum was NAVD88 (2012). The 5-foot DEM was used for cross section development and floodplain delineations. County LIDAR was not available at the time during the development of the prior hydraulic modeling.
- There are differences in the stream thalweg elevations between the models. Even slight changes in thalweg elevation can produce substantial changes in water surface elevation.
- The rainfall depths and distribution patterns used are different between Effective Conditions and Preliminary Conditions. Rainfall depths and distribution patterns have a direct impact on the peak flow rates, which under Preliminary Conditions are higher than flow rates calculated in previous H&H models including the modeling representing Effective Conditions. It appears that the Preliminary Conditions modeling is based on depth included in the U.S. Bureau Weather Bureau Technical Paper No. 40 utilizing a dimensionless rainfall distribution curve based on observed large storms in the State. The Effective Conditions modeling is based rainfall depths provided in the NOAA Atlas 14 Precipitation-Frequency Atlas with the SEWRPC regional rainfall distribution.

RECOMMENDATIONS

Upon review of all available information including prior and current hydraulic modeling, there are several differences that could explain the increases in base flood elevation and floodplain and floodway boundaries within the Village.

It is our understanding through discussion with WDNR for a similar appeal process in Milwaukee County, that if there are no appeals, the Preliminary Maps would become Effective within 18 months to two years. If it is desired to put together a FEMA Letter of Map Revision Request (LOMR) to request a change to the floodplain/floodway boundaries depicted on the Preliminary mapping, that desire should be indicated to FEMA as part of the appeal; the LOMR would not have to be completed by date of the end of the 90-day appeal but as soon as possible thereafter. If the Village desires to continue with the FEMA 90-day appeal process, it is recommended that the following items should be considered as part of the appeal:

- Due to the notable variances in rainfall patterns across Wisconsin, the SEWRPC regional rainfall distribution is a more realistic representation specific to the southeastern region of the state and is recommended for use along with continued use of NOAA Atlas 14 Precipitation-Frequency Atlas for rainfall depths.
- Field verify and correct if needed, all Fox River crossing structure dimensions, lengths, and material types in the Preliminary HEC-RAS model within the Village and within 5-10 miles upstream of the corporate limits; at least through County Trunk Highway I.
- Represent potential watershed-wide hydraulic inefficiencies, in areas where flood storage was not accounted for such as depressional storage and tributary ditch ponding, within the hydrologic model.
- Field verify Fox River thalweg elevations within the Village, particularly at river crossings.
- Verify Fox River stream and overbank roughness co-efficients used as part of the Preliminary modeling.
- As part of the hydrologic calculations, verify the drainage areas used for the Fox River at the confluence with the Mukwonago River; the Preliminary Flood Insurance Study indicated a drainage area approximately fifty acres larger.

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In summary, the most significant differences between the Effective and Preliminary modeling approaches that affect water surface elevations within the Village may be resolved through updates to the Preliminary models as mentioned above. The hydraulic models used in these analyses is a sensitive model; slight changes in stream geometry such as thalweg elevations, roughness co-efficients, stream width, and crossing dimensions along with changes in discharge, can produce substantial changes in water surface elevation.

If you would happen to have any questions at all, or need any additional information, please be sure to contact me at (262) 953-3078.

Respectfully,

RUEKERT & MIELKE, INC.



Ryan W. Kloth, P.E., CFM
Water Resources Senior Project Manager
RKloth@ruekert-mielke.com

RWK:sjs

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APPENDICES

APPENDIX 1 Effective Conditions Hydraulic Model Output

APPENDIX 2 Preliminary Conditions Hydraulic Model Output

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APPENDIX 1
Effective Conditions Hydraulic Model Output

HEC-RAS Plan: Imported Plan 01 River: RIVER-1 Reach: Reach-1 Profile: PF 3

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach-1	37	PF 3	3500.00	783.10	792.56	787.80	792.60	0.000204	2.23	3666.88	900.00	0.13
Reach-1	36	PF 3	3500.00	782.80	792.21	787.40	792.25	0.000218	2.29	4740.98	1657.13	0.14
Reach-1	35	PF 3	3500.00	783.20	791.64	787.54	791.69	0.000295	2.52	3723.75	1033.42	0.16
Reach-1	34	PF 3	3500.00	783.20	791.24	786.76	791.32	0.000358	2.70	3052.00	991.93	0.17
Reach-1	33	PF 3	3500.00	780.70	790.20	785.98	790.51	0.001095	4.62	1089.35	295.00	0.30
Reach-1	32	PF 3	3500.00	780.70	789.91	785.97	790.34	0.001502	5.26	669.57	95.00	0.35
Reach-1	31.5	Bridge										
Reach-1	31	PF 3	3500.00	780.70	789.89	785.98	790.33	0.001518	5.28	662.82	820.06	0.35
Reach-1	30	PF 3	3500.00	783.20	789.57	787.24	790.10	0.002580	6.48	755.64	145.00	0.45
Reach-1	29	PF 3	2850.00	778.90	789.33	783.88	789.40	0.000262	2.65	2208.33	438.20	0.15
Reach-1	28	PF 3	2850.00	778.20	789.09	782.08	789.13	0.000127	1.90	3221.83	1009.50	0.11
Reach-1	27	PF 3	2850.00	777.90	788.37	783.50	788.58	0.000681	4.24	1730.16	933.76	0.25
Reach-1	26	PF 3	2850.00	777.60	787.98	782.79	788.02	0.000222	2.40	3492.23	1175.00	0.14
Reach-1	25	PF 3	2850.00	777.20	787.81	782.14	787.88	0.000240	2.55	3054.61	1056.12	0.15
Reach-1	24	PF 3	2850.00	776.80	787.51	781.44	787.53	0.000119	1.61	5391.06	1613.37	0.09
Reach-1	23	PF 3	2850.00	776.40	787.18	780.92	787.20	0.000137	1.73	5234.92	1951.48	0.10
Reach-1	22	PF 3	2850.00	776.00	787.03	780.38	787.03	0.000044	1.00	8109.02	1800.12	0.06
Reach-1	21	PF 3	2850.00	775.60	786.83	781.61	786.84	0.000111	1.59	5924.87	1629.53	0.09
Reach-1	20	PF 3	2850.00	775.20	786.43	780.57	786.57	0.000415	3.48	2408.65	1285.86	0.19
Reach-1	19	PF 3	2850.00	774.80	785.74	779.30	785.79	0.000166	2.17	3342.09	1167.92	0.12
Reach-1	18	PF 3	2850.00	774.40	785.66	778.96	785.72	0.000187	2.35	2463.80	590.00	0.13
Reach-1	17	PF 3	2850.00	774.40	785.34	779.57	785.56	0.000791	3.89	964.12	290.00	0.25
Reach-1	16	PF 3	2850.00	774.40	785.18	779.57	785.46	0.000975	4.21	678.89	93.00	0.27
Reach-1	15.5	Bridge										
Reach-1	15	PF 3	2850.00	774.40	785.17	779.58	785.45	0.000955	4.21	676.38	590.83	0.27
Reach-1	14	PF 3	2850.00	774.40	784.91	780.09	785.32	0.001061	5.31	719.57	140.00	0.31
Reach-1	13	PF 3	2360.00	774.40	784.78	778.59	784.85	0.000222	2.39	1685.20	345.00	0.14
Reach-1	12	PF 3	2360.00	774.40	784.62	779.09	784.68	0.000230	2.40	2299.04	610.00	0.14
Reach-1	11	PF 3	2360.00	774.40	784.36	779.48	784.39	0.000177	2.05	4168.92	1800.00	0.12
Reach-1	10	PF 3	2360.00	774.40	784.31	778.81	784.31	0.000011	0.51	16352.93	4519.34	0.03
Reach-1	9	PF 3	2360.00	774.40	784.28	779.04	784.28	0.000017	0.64	13929.60	6600.00	0.04
Reach-1	8	PF 3	2360.00	774.40	784.23	778.34	784.23	0.000029	0.85	8849.40	2318.97	0.05
Reach-1	7	PF 3	2360.00	774.30	784.17	778.52	784.17	0.000040	0.99	8763.87	2622.92	0.06
Reach-1	6	PF 3	2360.00	774.30	784.15	778.22	784.16	0.000010	0.49	18026.91	4800.00	0.03
Reach-1	5	PF 3	2360.00	774.30	784.13	777.70	784.13	0.000009	0.49	21601.94	6950.00	0.03
Reach-1	4	PF 3	2360.00	774.30	784.11	778.72	784.11	0.000007	0.43	20324.00	5294.00	0.03
Reach-1	3	PF 3	2360.00	774.30	784.09	778.18	784.09	0.000006	0.38	19621.45	3975.00	0.02
Reach-1	2	PF 3	2360.00	774.30	784.06	777.86	784.06	0.000010	0.51	11812.97	1701.00	0.03

HEC-RAS Plan: Imported Plan 01 River: RIVER-1 Reach: Reach-1 Profile: PF 3 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach-1	1	PF 3	2360.00	774.30	784.04	777.25	784.05	0.000032	1.04	4605.28	600.00	0.06

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APPENDIX 2
Preliminary Conditions Hydraulic Model Output

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	436417	1% Annual Chance	109.00	885.00	888.66	886.88	888.78	0.002217	2.78	39.16	16.36	0.32
3	435850	1% Annual Chance	109.00	884.00	887.49	885.86	887.61	0.001922	2.83	52.02	57.00	0.31
3	435449	1% Annual Chance	109.00	883.02	886.65	885.29	886.79	0.002120	3.14	44.37	54.38	0.34
3	435399.*	1% Annual Chance	109.00	882.90	886.53	885.20	886.69	0.002219	3.20	44.84	75.71	0.34
3	435349.*	1% Annual Chance	109.00	882.78	886.41	885.12	886.57	0.002338	3.26	45.80	112.80	0.35
3	435299.*	1% Annual Chance	109.00	882.66	886.29	885.05	886.45	0.002465	3.32	47.73	130.05	0.36
3	435250.*	1% Annual Chance	109.00	882.54	886.16	884.96	886.33	0.002552	3.35	51.45	174.06	0.37
3	435200.*	1% Annual Chance	109.00	882.42	886.04	884.88	886.20	0.002611	3.35	56.02	214.03	0.37
3	435150.*	1% Annual Chance	109.00	882.30	885.90	884.81	886.06	0.002713	3.38	60.50	250.32	0.38
3	435100.*	1% Annual Chance	109.00	882.17	885.77	884.72	885.92	0.002752	3.36	66.29	271.22	0.38
3	435051.*	1% Annual Chance	109.00	882.05	885.65	884.65	885.78	0.002654	3.27	74.24	304.66	0.37
3	435001.*	1% Annual Chance	109.00	881.93	885.54	884.56	885.65	0.002430	3.11	86.17	342.67	0.35
3	434951.*	1% Annual Chance	109.00	881.81	885.45	884.49	885.53	0.001956	2.78	106.25	365.27	0.31
3	434901.*	1% Annual Chance	109.00	881.69	885.39	884.40	885.44	0.001330	2.31	138.27	401.81	0.26
3	434852	1% Annual Chance	109.00	881.57	885.35	884.33	885.38	0.000959	1.98	156.21	439.74	0.22
3	433986	1% Annual Chance	109.00	880.43	885.31	882.53	885.31	0.000023	0.43	625.39	358.12	0.04
3	433143	1% Annual Chance	226.00	879.79	885.27	882.98	885.27	0.000084	0.93	694.57	345.75	0.07
3	432901	1% Annual Chance	226.00	879.60	884.99	882.63	885.17	0.001449	3.41	66.28	288.48	0.30
3	432875	Culvert										
3	432849	1% Annual Chance	226.00	879.96	883.59	882.71	884.28	0.006684	6.66	33.91	195.58	0.64
3	432555	1% Annual Chance	226.00	878.91	883.00	881.91	883.11	0.001719	3.29	162.28	168.41	0.32
3	432241	1% Annual Chance	226.00	877.79	882.62	880.73	882.69	0.001007	2.65	220.93	159.10	0.24
3	431589	1% Annual Chance	226.00	877.60	880.37	880.06	881.05	0.012095	6.79	41.20	33.45	0.78
3	431204	1% Annual Chance	226.00	873.69	876.64	876.44	877.11	0.008713	6.01	71.98	65.79	0.68
3	430777	1% Annual Chance	226.00	869.36	872.62	872.49	873.23	0.009972	6.45	52.64	84.82	0.73
3	430730.*	1% Annual Chance	226.00	869.01	872.17	872.15	872.76	0.010145	6.37	55.14	90.12	0.73
3	430683.*	1% Annual Chance	226.00	868.66	871.72	871.70	872.28	0.010141	6.24	58.26	90.80	0.73
3	430637.*	1% Annual Chance	226.00	868.30	871.27	871.24	871.80	0.010026	6.08	61.99	91.77	0.73
3	430590.*	1% Annual Chance	226.00	867.95	870.83	870.79	871.32	0.009994	5.94	65.62	92.95	0.72
3	430544.*	1% Annual Chance	226.00	867.60	870.39	870.34	870.85	0.009971	5.81	69.27	94.14	0.72
3	430497.*	1% Annual Chance	226.00	867.25	869.94	869.87	870.37	0.010010	5.67	72.85	95.55	0.72
3	430451.*	1% Annual Chance	226.00	866.89	869.50	869.42	869.90	0.009918	5.52	76.87	97.76	0.71
3	430404.*	1% Annual Chance	226.00	866.54	869.21	868.96	869.48	0.006826	4.71	96.10	103.35	0.60
3	430358	1% Annual Chance	226.00	866.19	869.09	868.50	869.22	0.003280	3.54	137.80	121.05	0.42
3	430063	1% Annual Chance	226.00	864.15	868.35	867.61	868.45	0.002122	3.24	171.41	223.28	0.33
3	429531	1% Annual Chance	226.00	863.11	866.58	865.76	866.83	0.004617	4.26	78.25	122.31	0.49
3	428991	1% Annual Chance	226.00	861.00	864.67	864.06	864.80	0.003067	3.44	134.09	317.21	0.40
3	428945.*	1% Annual Chance	226.00	860.82	864.52	863.99	864.65	0.003162	3.52	135.43	376.09	0.41
3	428899.*	1% Annual Chance	226.00	860.64	864.36	863.84	864.51	0.003268	3.60	136.25	461.65	0.41
3	428853.*	1% Annual Chance	226.00	860.46	864.18	863.82	864.35	0.003677	3.81	132.80	548.18	0.43
3	428807.*	1% Annual Chance	226.00	860.28	864.01	863.71	864.17	0.003850	3.89	133.98	650.34	0.44
3	428761.*	1% Annual Chance	226.00	860.10	863.78	863.60	863.98	0.004589	4.17	132.14	744.29	0.48
3	428715.*	1% Annual Chance	226.00	859.92	863.54	863.49	863.75	0.005286	4.37	129.94	805.30	0.51
3	428669.*	1% Annual Chance	226.00	859.74	863.29	863.29	863.50	0.005601	4.41	133.71	850.16	0.51
3	428623.*	1% Annual Chance	226.00	859.56	863.01	863.01	863.21	0.006109	4.49	133.63	867.00	0.53

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	428577.*	1% Annual Chance	226.00	859.38	862.81	862.70	862.93	0.004318	3.74	166.42	975.82	0.44
3	428531.*	1% Annual Chance	226.00	859.20	862.74	862.38	862.78	0.001808	2.46	265.73	1209.07	0.28
3	428485	1% Annual Chance	226.00	859.02	862.70	862.02	862.72	0.000724	1.59	365.43	1466.55	0.18
3	428044	1% Annual Chance	226.00	858.20	862.20	861.13	862.28	0.001428	2.68	235.97	355.93	0.29
3	427551	1% Annual Chance	226.00	857.29	861.62	860.38	861.67	0.001144	2.42	231.78	298.68	0.25
3	427162	1% Annual Chance	226.00	856.81	861.23	860.20	861.27	0.000918	2.17	293.96	474.12	0.23
3	426767	1% Annual Chance	226.00	856.33	860.81	859.40	860.87	0.001121	2.48	294.52	732.34	0.25
3	426138	1% Annual Chance	226.00	856.15	860.75	859.17	860.75	0.000057	0.64	1239.60	1575.53	0.06
3	425487	1% Annual Chance	226.00	855.97	860.71	857.99	860.71	0.000072	0.80	753.10	455.45	0.07
3	424956	1% Annual Chance	226.00	855.51	860.67	858.35	860.68	0.000059	0.72	846.98	424.00	0.06
3	424587	1% Annual Chance	226.00	855.19	860.59	858.32	860.62	0.000418	1.64	264.14	353.67	0.16
3	424567	Bridge										
3	424552	1% Annual Chance	226.00	855.27	860.58	858.12	860.61	0.000517	1.79	277.79	365.24	0.17
3	424293	1% Annual Chance	444.00	854.42	860.51	857.63	860.53	0.000206	1.50	776.32	376.80	0.12
3	424084	1% Annual Chance	444.00	853.73	860.45	856.24	860.48	0.000196	1.65	297.05	639.27	0.12
3	424043	Culvert										
3	424002	1% Annual Chance	444.00	852.24	860.24	855.48	860.33	0.000404	2.45	184.84	430.29	0.17
3	423890	1% Annual Chance	444.00	854.05	860.15	858.14	860.25	0.001278	3.18	362.82	448.88	0.26
3	423880	Bridge										
3	423865	1% Annual Chance	444.00	853.82	860.05	857.77	860.09	0.000443	2.22	568.70	432.14	0.17
3	423709	1% Annual Chance	444.00	853.28	859.99	856.22	860.03	0.000296	1.84	376.65	298.22	0.15
3	423687	Culvert										
3	423664	1% Annual Chance	444.00	853.42	859.26	856.50	859.37	0.000818	2.84	247.07	211.83	0.24
3	423426	1% Annual Chance	444.00	853.56	859.20	857.02	859.22	0.000286	1.68	705.81	458.80	0.14
3	423166	1% Annual Chance	444.00	853.72	859.01	857.49	859.09	0.001047	3.14	497.83	319.44	0.26
3	422522	1% Annual Chance	444.00	852.99	858.46	856.51	858.53	0.000732	2.74	548.90	331.21	0.22
3	421830	1% Annual Chance	444.00	852.20	857.98	855.29	858.06	0.000613	2.68	442.25	224.54	0.21
3	421235	1% Annual Chance	444.00	851.79	857.65	854.71	857.71	0.000543	2.43	475.90	521.14	0.19
3	420978	1% Annual Chance	444.00	851.61	857.40	854.18	857.53	0.000775	2.95	162.93	618.15	0.23
3	420944	Culvert										
3	420905	1% Annual Chance	444.00	852.22	856.61	854.87	856.96	0.003020	4.77	97.46	193.32	0.42
3	420476	1% Annual Chance	444.00	851.26	855.48	854.52	855.70	0.002697	4.29	235.26	179.98	0.40
3	419553	1% Annual Chance	444.00	849.20	853.14	852.49	853.31	0.002649	4.08	323.46	337.08	0.40
3	418863	1% Annual Chance	444.00	847.95	852.11	851.04	852.17	0.001081	2.65	547.34	374.83	0.26
3	417955	1% Annual Chance	444.00	846.30	851.06	849.66	851.15	0.001141	2.92	453.62	379.43	0.27
3	416959	1% Annual Chance	444.00	844.48	849.27	848.75	849.50	0.002878	4.73	315.74	290.92	0.42
3	416496	1% Annual Chance	444.00	843.63	848.69	847.87	848.73	0.001036	2.79	677.81	660.99	0.24
3	415955	1% Annual Chance	444.00	843.12	848.12	846.89	848.17	0.001153	3.09	614.24	487.28	0.26
3	415348	1% Annual Chance	444.00	842.55	847.80	845.97	847.82	0.000426	1.99	687.40	419.02	0.17
3	414732	1% Annual Chance	564.00	841.06	847.77	843.01	847.77	0.000034	0.73	1816.57	553.72	0.05
3	414416	1% Annual Chance	564.00	840.29	847.76	843.42	847.76	0.000011	0.45	1857.80	1240.61	0.03
3	414376	Culvert										
3	414330	1% Annual Chance	564.00	839.73	843.93	842.88	843.98	0.001011	2.72	423.63	319.99	0.25
3	413974	1% Annual Chance	564.00	838.87	843.51	842.78	843.55	0.001426	2.99	476.74	694.38	0.27
3	413477	1% Annual Chance	564.00	837.67	842.42	842.05	842.59	0.003156	4.73	411.89	445.72	0.43

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	412857	1% Annual Chance	564.00	836.45	841.32	840.69	841.39	0.001346	3.32	611.98	480.04	0.29
3	412210	1% Annual Chance	564.00	835.17	840.36	839.61	840.44	0.001617	3.46	489.84	334.63	0.29
3	411491	1% Annual Chance	564.00	833.38	838.50	838.25	838.78	0.003582	5.49	333.19	364.74	0.48
3	410832	1% Annual Chance	564.00	831.73	836.90	836.48	836.96	0.001966	3.27	515.73	560.13	0.32
3	410029	1% Annual Chance	564.00	829.81	836.83	834.83	836.83	0.000051	0.71	2111.05	995.64	0.06
3	409090	1% Annual Chance	564.00	829.56	836.76	834.24	836.77	0.000095	1.08	1580.44	917.38	0.08
3	408420	1% Annual Chance	864.00	830.24	836.70	833.28	836.71	0.000093	1.13	1250.97	1424.65	0.08
3	408387		Mult Open									
3	408358	1% Annual Chance	864.00	830.54	836.17	833.57	836.20	0.000225	1.82	873.03	960.20	0.14
3	407898	1% Annual Chance	864.00	829.83	836.09	834.20	836.11	0.000166	1.58	1258.22	844.69	0.12
3	407328	1% Annual Chance	864.00	828.96	836.02	834.20	836.03	0.000115	1.37	1471.52	682.34	0.10
3	406866	1% Annual Chance	864.00	828.45	835.90	833.84	835.94	0.000330	2.42	1246.24	1298.85	0.17
3	406320	1% Annual Chance	864.00	827.84	835.14	832.45	835.50	0.001620	4.98	201.38	2296.08	0.37
3	406295		Bridge									
3	406246	1% Annual Chance	864.00	827.24	834.97	832.00	835.25	0.001172	4.39	235.35	2180.09	0.32
3	405514	1% Annual Chance	864.00	827.08	835.03	832.60	835.03	0.000036	0.85	3386.69	1463.54	0.06
3	404514	1% Annual Chance	864.00	826.85	834.98	832.25	834.98	0.000095	1.25	2034.93	897.47	0.08
3	402884	1% Annual Chance	864.00	826.02	834.85	831.29	834.86	0.000063	1.18	2266.21	1171.32	0.07
3	401482	1% Annual Chance	864.00	827.03	834.78	830.51	834.79	0.000040	0.97	2764.74	698.23	0.06
3	400712	1% Annual Chance	1212.00	826.46	834.66	830.02	834.71	0.000200	2.11	898.68	1085.90	0.14
3	400666		Mult Open									
3	400633	1% Annual Chance	1212.00	826.88	834.46	830.35	834.56	0.000294	2.76	760.79	1256.63	0.20
3	400424	1% Annual Chance	1212.00	826.90	834.38	830.71	834.49	0.000321	3.14	983.90	383.60	0.21
3	400188	1% Annual Chance	1212.00	826.92	834.29	830.14	834.41	0.000287	2.89	478.98	208.34	0.20
3	400120		Bridge									
3	400042	1% Annual Chance	1212.00	829.27	833.82	831.99	834.06	0.001474	4.23	375.37	543.88	0.36
3	399372	1% Annual Chance	1212.00	826.63	833.73	831.09	833.74	0.000154	1.78	2522.20	762.37	0.13
3	398072	1% Annual Chance	1212.00	825.59	833.56	830.70	833.57	0.000135	1.66	2661.47	992.46	0.11
3	396847	1% Annual Chance	1212.00	826.61	833.45	830.66	833.46	0.000073	1.24	2817.00	1718.06	0.09
3	395888	1% Annual Chance	1212.00	825.92	833.37	829.74	833.38	0.000098	1.52	1890.70	700.52	0.10
3	395073	1% Annual Chance	1212.00	825.26	833.22	830.03	833.27	0.000203	2.74	1319.77	667.45	0.17
3	394709	1% Annual Chance	1212.00	824.88	833.20	829.79	833.21	0.000102	1.86	1702.82	643.43	0.12
3	394505	1% Annual Chance	1212.00	824.67	832.96	829.49	833.14	0.000430	3.93	511.11	558.58	0.25
3	394451		Bridge									
3	394389	1% Annual Chance	1212.00	825.21	832.66	829.08	832.89	0.000592	4.44	472.98	554.16	0.29
3	394241	1% Annual Chance	1212.00	824.73	832.62	828.59	832.78	0.000381	3.64	667.70	309.63	0.24
3	394092	1% Annual Chance	1212.00	824.24	832.56	828.22	832.73	0.000361	3.34	390.51	283.18	0.23
3	394069		Bridge									
3	394041	1% Annual Chance	1212.00	823.58	828.91	827.75	829.56	0.003041	7.11	220.40	282.29	0.60
3	393658	1% Annual Chance	1212.00	823.06	828.45	827.28	828.60	0.001281	4.13	656.93	393.68	0.34
3	392899	1% Annual Chance	1212.00	822.02	827.93	826.46	827.99	0.000562	2.81	1120.02	1253.22	0.23
3	392113	1% Annual Chance	1212.00	821.66	827.54	825.57	827.59	0.000511	2.71	1258.32	1314.66	0.22
3	391634	1% Annual Chance	1212.00	821.44	827.34	826.30	827.37	0.000387	2.25	1605.47	1452.96	0.21
3	391625		Bridge									
3	391615	1% Annual Chance	1212.00	821.59	827.33	826.31	827.35	0.000456	2.07	1606.70	1474.34	0.19

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	390786	1% Annual Chance	1212.00	820.96	827.19	825.20	827.20	0.000138	1.48	2960.53	1975.22	0.11
3	389380	1% Annual Chance	1212.00	821.22	827.09	824.96	827.09	0.000046	0.81	5908.65	5604.14	0.06
3	387807	1% Annual Chance	1990.00	820.02	827.04	825.17	827.04	0.000064	1.04	8281.14	7709.95	0.08
3	387102	1% Annual Chance	1990.00	820.15	826.99	825.26	826.99	0.000086	1.30	6988.19	6300.82	0.09
3	385645	1% Annual Chance	1990.00	820.41	826.93	824.86	826.93	0.000068	1.14	7122.59	3304.24	0.08
3	383228	1% Annual Chance	1990.00	820.19	826.76	824.63	826.77	0.000121	1.50	4607.58	2335.25	0.11
3	381276	1% Annual Chance	1871.00	819.28	826.21	822.95	826.35	0.000772	3.56	794.89	1786.59	0.27
3	381232		Mult Open									
3	381089	1% Annual Chance	1871.00	819.36	825.88	822.57	825.95	0.000617	2.75	929.68	1771.26	0.23
3	379332	1% Annual Chance	1871.00	818.16	825.66	822.81	825.67	0.000084	1.30	4713.61	1882.05	0.09
3	378371	1% Annual Chance	1871.00	818.87	825.55	823.45	825.56	0.000147	1.69	4108.08	3616.29	0.12
3	376122	1% Annual Chance	1871.00	818.00	825.40	822.64	825.40	0.000054	1.07	5111.06	3178.92	0.07
3	374443	1% Annual Chance	1871.00	816.91	825.34	822.41	825.34	0.000050	1.10	5407.34	2711.56	0.07
3	372954	1% Annual Chance	1871.00	816.17	825.31	821.38	825.32	0.000019	0.75	6523.73	1629.52	0.05
3	372053	1% Annual Chance	1867.00	815.10	825.31	820.68	825.31	0.000009	0.57	7076.26	4641.49	0.04
3	372020		Culvert									
3	371996	1% Annual Chance	1867.00	815.96	825.30	821.44	825.31	0.000034	1.09	4411.01	3805.06	0.07
3	371943		Bridge									
3	371900	1% Annual Chance	1867.00	815.84	824.61	821.66	824.89	0.001102	4.74	518.77	2389.52	0.33
3	371268	1% Annual Chance	1867.00	816.28	824.62	821.65	824.63	0.000097	1.58	3256.04	1556.31	0.10
3	369402	1% Annual Chance	1867.00	815.82	824.57	820.41	824.57	0.000030	0.89	6153.03	1578.50	0.06
3	368379	1% Annual Chance	1867.00	815.80	824.55	820.25	824.55	0.000021	0.76	7255.03	1856.34	0.05
3	366751	1% Annual Chance	1867.00	815.77	824.09	820.66	824.38	0.000875	4.87	557.52	2553.82	0.31
3	366725		Bridge									
3	366698	1% Annual Chance	1867.00	815.84	823.58	820.51	824.08	0.001484	6.01	394.62	2476.78	0.39
3	365813	1% Annual Chance	1867.00	814.48	823.71	820.23	823.71	0.000052	1.18	5339.57	1344.17	0.07
3	364922	1% Annual Chance	1867.00	814.06	823.68	819.76	823.69	0.000039	1.23	5912.08	1464.63	0.08
3	364447	1% Annual Chance	1867.00	813.84	823.66	818.92	823.67	0.000036	1.17	4745.14	1777.31	0.07
3	364408		Bridge									
3	364364	1% Annual Chance	1867.00	814.74	823.61	819.13	823.62	0.000048	1.15	5198.96	1870.67	0.07
3	363518	1% Annual Chance	1867.00	814.53	823.58	820.04	823.59	0.000049	1.11	5803.47	1842.02	0.07
3	362688	1% Annual Chance	1867.00	814.33	823.55	819.84	823.56	0.000044	1.07	6367.05	1818.67	0.07
3	361827	1% Annual Chance	1867.00	813.54	823.50	818.94	823.51	0.000067	1.36	3408.31	1287.40	0.09
3	361786		Bridge									
3	361739	1% Annual Chance	1867.00	813.43	823.48	818.86	823.49	0.000030	0.88	4661.81	1631.65	0.06
3	361045	1% Annual Chance	1867.00	813.65	823.47	819.48	823.47	0.000023	0.83	5492.99	1270.62	0.05
3	360036	1% Annual Chance	1867.00	813.96	823.46	818.58	823.46	0.000021	0.79	5400.88	1224.67	0.05
3	358484	1% Annual Chance	1867.00	814.18	823.45	818.27	823.45	0.000008	0.49	9092.96	1987.95	0.03
3	357432	1% Annual Chance	2337.00	812.58	823.42	818.27	823.43	0.000045	1.27	4695.44	1266.09	0.07
3	356271	1% Annual Chance	2337.00	813.05	823.37	818.10	823.38	0.000061	1.42	3899.47	690.41	0.08
3	355670	1% Annual Chance	2337.00	812.00	823.31	818.33	823.34	0.000102	1.87	3555.15	659.10	0.11
3	355491	1% Annual Chance	2337.00	812.45	823.30	817.66	823.32	0.000093	1.79	3549.53	612.93	0.10
3	355168	1% Annual Chance	2337.00	813.25	823.29	818.24	823.30	0.000034	1.07	5884.31	1041.70	0.06
3	355146		Bridge									
3	355116	1% Annual Chance	2337.00	813.28	822.83	818.12	822.84	0.000067	1.46	5331.98	1019.43	0.09

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	354795	1% Annual Chance	2337.00	813.50	822.79	818.03	822.82	0.000102	1.81	3752.91	745.41	0.11
3	354256	1% Annual Chance	2337.00	813.87	822.75	817.61	822.77	0.000092	1.66	3593.08	711.36	0.10
3	353649	1% Annual Chance	2337.00	814.17	822.70	818.31	822.72	0.000080	1.50	4184.86	965.33	0.09
3	352937	1% Annual Chance	2337.00	814.52	822.66	816.43	822.68	0.000050	1.15	2057.39	1032.30	0.07
3	352885	Bridge										
3	352838	1% Annual Chance	2337.00	814.47	822.57	818.06	822.63	0.000260	2.59	1552.91	977.89	0.17
3	352275	1% Annual Chance	2337.00	813.88	822.50	816.87	822.53	0.000092	1.66	3040.90	1022.54	0.10
3	351298	1% Annual Chance	2337.00	812.85	822.45	816.86	822.46	0.000053	1.28	5269.67	993.15	0.08
3	349600	1% Annual Chance	2337.00	813.22	822.35	817.34	822.37	0.000092	1.68	3616.20	691.21	0.10
3	349175	1% Annual Chance	2337.00	813.31	822.15	817.55	822.27	0.000335	2.96	949.66	802.49	0.19
3	349124	Bridge										
3	349080	1% Annual Chance	2337.00	813.30	821.97	817.09	822.14	0.000424	3.45	786.45	730.81	0.22
3	348398	1% Annual Chance	2337.00	812.20	821.86	816.34	821.92	0.000159	2.31	2500.21	532.60	0.14
3	347402	1% Annual Chance	2365.00	812.08	821.67	816.45	821.74	0.000196	2.53	2484.16	632.33	0.15
3	347077	1% Annual Chance	2365.00	812.04	821.46	816.31	821.63	0.000380	3.43	989.77	1814.87	0.21
3	347052	Bridge										
3	347028	1% Annual Chance	2365.00	811.98	821.21	816.35	821.43	0.000524	3.94	764.61	1803.55	0.24
3	346418	1% Annual Chance	2365.00	811.41	821.16	816.55	821.20	0.000150	2.19	4090.86	1338.80	0.13
3	345739	1% Annual Chance	2365.00	810.77	821.06	815.31	821.12	0.000113	2.24	2933.59	1019.84	0.13
3	345364	1% Annual Chance	2365.00	810.42	820.99	815.71	821.06	0.000155	2.62	2680.77	826.90	0.15
3	345342	Bridge										
3	345323	1% Annual Chance	2365.00	812.09	820.92	817.39	821.02	0.000315	3.57	2386.32	873.27	0.22
3	345152	1% Annual Chance	2365.00	810.14	820.88	815.00	820.98	0.000181	3.00	1267.16	448.19	0.17
3	345034	Bridge										
3	344910	1% Annual Chance	2365.00	812.12	820.58	816.18	820.78	0.000409	3.79	831.63	419.49	0.24
3	344460	1% Annual Chance	2365.00	811.06	820.47	816.37	820.59	0.000311	3.61	1596.86	406.74	0.22
3	344066	1% Annual Chance	2365.00	810.14	820.29	814.52	820.46	0.000261	3.49	870.77	537.59	0.20
3	344028	Bridge										
3	343990	1% Annual Chance	2365.00	810.27	820.24	814.49	820.41	0.000261	3.47	893.79	779.58	0.20
3	343619	1% Annual Chance	2365.00	810.36	820.16	814.58	820.28	0.000299	3.18	1739.63	497.30	0.19
3	342468	1% Annual Chance	2365.00	810.60	819.98	815.56	820.02	0.000161	2.26	3418.55	764.01	0.14
3	341469	1% Annual Chance	2717.00	810.07	818.49	815.86	819.35	0.002282	7.53	412.81	85.03	0.49
3	340361	1% Annual Chance	2717.00	809.26	817.63	813.71	817.92	0.000587	4.35	656.07	111.55	0.29
3	340168	1% Annual Chance	2717.00	809.12	817.52	813.81	817.80	0.000602	4.51	860.29	307.42	0.30
3	340125	Bridge										
3	340086	1% Annual Chance	2717.00	809.09	817.23	814.19	817.68	0.001007	5.62	735.47	304.29	0.38
3	339990	1% Annual Chance	2717.00	809.38	816.83	814.31	817.50	0.001470	6.80	556.46	156.48	0.46
3	339902	1% Annual Chance	2717.00	809.64	816.87	813.39	817.27	0.000817	5.09	562.85	346.75	0.34
3	339887	Bridge										
3	339873	1% Annual Chance	2717.00	809.85	816.63	813.72	817.13	0.001147	5.66	486.74	89.86	0.40
3	339501	1% Annual Chance	2717.00	809.01	816.48	813.24	816.69	0.000568	4.26	1528.49	418.02	0.29
3	338795	1% Annual Chance	2717.00	807.42	816.28	811.87	816.40	0.000266	3.12	1538.41	334.43	0.20
3	337591	1% Annual Chance	2717.00	803.40	815.96	808.93	816.12	0.000200	3.19	906.15	107.88	0.18
3	337517	1% Annual Chance	2717.00	804.21	815.83	809.85	816.08	0.000348	3.97	706.91	87.20	0.23
3	337487	Bridge										

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	337471	1% Annual Chance	2717.00	804.20	815.44	810.00	815.70	0.000398	4.07	691.89	82.04	0.25
3	337273	1% Annual Chance	2717.00	804.42	815.45	809.81	815.58	0.000217	2.92	985.91	140.22	0.18
3	336410	1% Annual Chance	2717.00	805.38	815.32	809.67	815.41	0.000156	2.47	1274.90	236.56	0.15
3	335480	1% Annual Chance	2717.00	809.15	814.92	811.84	815.14	0.000631	3.75	729.66	160.05	0.29
3	334328	1% Annual Chance	2717.00	807.34	814.61	810.37	814.70	0.000221	2.46	1159.42	214.85	0.18
3	334110	1% Annual Chance	2717.00	807.13	814.56	810.12	814.66	0.000207	2.46	1215.90	268.01	0.17
3	333831	1% Annual Chance	2717.00	806.86	814.52	809.72	814.60	0.000164	2.20	1258.47	209.52	0.15
3	333766	Bridge										
3	333700	1% Annual Chance	2717.00	806.96	814.48	810.03	814.56	0.000127	2.27	1195.67	249.74	0.16
3	333387	1% Annual Chance	2717.00	807.18	814.46	809.97	814.51	0.000089	1.86	1658.58	503.18	0.13
3	333064	1% Annual Chance	2717.00	807.41	814.44	809.55	814.48	0.000069	1.68	1834.40	544.65	0.12
3	331582	1% Annual Chance	2717.00	807.15	814.37	809.55	814.40	0.000044	1.28	2367.55	843.00	0.09
3	330279	1% Annual Chance	2768.00	805.14	814.11	809.92	814.27	0.000255	3.30	1069.00	620.20	0.23
3	329961	1% Annual Chance	2768.00	806.24	814.09	808.67	814.18	0.000122	2.41	1342.43	725.18	0.16
3	329948 Saratoga Mill Da	Int Struct										
3	329907	1% Annual Chance	2768.00	803.25	813.99	806.39	814.02	0.000034	1.48	1955.22	783.01	0.09
3	329860	1% Annual Chance	2768.00	803.25	813.98	806.50	814.02	0.000037	1.58	1816.90	850.96	0.09
3	329779	1% Annual Chance	2768.00	803.25	813.68	807.50	813.94	0.000236	4.11	682.36	780.30	0.23
3	329744 Barstow Street	Bridge										
3	329698	1% Annual Chance	2768.00	803.85	812.49	808.81	812.96	0.000607	5.53	507.18	315.32	0.36
3	329568	1% Annual Chance	2768.00	802.63	809.80	809.73	812.19	0.009411	12.58	234.27	50.10	0.95
3	329400	1% Annual Chance	2768.00	801.05	809.58	807.45	810.54	0.001458	8.28	404.96	78.27	0.54
3	329384 Foot Bridge	Bridge										
3	329368	1% Annual Chance	2768.00	801.03	809.11	807.54	810.29	0.001954	9.13	358.18	75.54	0.62
3	329198	1% Annual Chance	2768.00	801.34	808.98	807.24	809.90	0.001727	7.74	372.91	103.49	0.57
3	329039	1% Annual Chance	2768.00	799.54	808.72	806.73	809.64	0.001501	7.81	388.11	73.49	0.54
3	329024 Foot Bridge	Bridge										
3	329010	1% Annual Chance	2768.00	799.50	808.29	806.63	809.27	0.001801	8.00	364.54	71.80	0.59
3	328906	1% Annual Chance	2768.00	797.91	807.92	805.71	809.08	0.001581	8.78	359.77	67.60	0.56
3	328774	1% Annual Chance	2768.00	799.17	808.39	803.47	808.74	0.000392	4.78	603.15	85.91	0.28
3	328672 Madison Street	Bridge										
3	328577	1% Annual Chance	2768.00	798.36	808.02	803.00	808.39	0.000386	4.91	566.39	76.82	0.29
3	328486	1% Annual Chance	2768.00	797.99	807.48	804.64	808.28	0.001692	7.21	396.54	76.44	0.48
3	328366	1% Annual Chance	2768.00	797.51	806.03	805.17	807.85	0.005471	10.82	255.87	46.33	0.81
3	328294	1% Annual Chance	2768.00	796.25	806.21	803.81	807.20	0.002118	7.97	354.40	58.45	0.53
3	328287 Foot Bridge	Bridge										
3	328279	1% Annual Chance	2768.00	796.30	805.83	803.78	807.08	0.002502	9.08	329.49	57.29	0.59
3	328214	1% Annual Chance	2768.00	796.50	805.18	803.75	806.79	0.003530	10.23	286.52	50.89	0.69
3	327999	1% Annual Chance	2768.00	797.14	805.01	802.82	805.84	0.001980	7.34	393.72	76.34	0.52
3	327776	1% Annual Chance	2768.00	795.96	804.40	802.14	805.38	0.002074	7.97	372.26	137.64	0.54
3	327694	1% Annual Chance	2768.00	795.52	803.24	802.14	804.94	0.003649	10.74	302.58	78.98	0.72
3	327686 Foot Bridge	Bridge										
3	327678	1% Annual Chance	2768.00	795.49	803.32	801.73	804.75	0.002981	9.78	317.52	140.27	0.65
3	327563	1% Annual Chance	2768.00	795.04	803.20	801.16	804.27	0.002260	8.44	352.15	175.62	0.56
3	327301	1% Annual Chance	2768.00	794.03	802.83	800.35	803.67	0.001821	7.39	388.02	67.28	0.50

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	327239	1% Annual Chance	2768.00	794.59	802.91	799.70	803.51	0.001171	6.28	451.38	72.14	0.41
3	327176 Wisconsin Avenue	Bridge										
3	327107	1% Annual Chance	2768.00	795.04	802.71	799.35	803.31	0.001116	6.19	447.38	105.12	0.40
3	326982	1% Annual Chance	2768.00	794.69	802.71	799.16	803.14	0.000849	5.36	576.49	216.11	0.35
3	326688	1% Annual Chance	2768.00	793.86	802.71	798.02	802.91	0.000379	3.93	1072.20	277.61	0.24
3	326378	1% Annual Chance	2768.00	793.19	802.75	796.79	802.81	0.000111	2.17	2128.92	551.86	0.13
3	326350 Foot Bridge	Bridge										
3	326333	1% Annual Chance	2768.00	793.15	802.73	796.69	802.80	0.000122	2.33	1954.94	510.21	0.14
3	325821	1% Annual Chance	2768.00	792.91	802.68	796.27	802.74	0.000099	2.14	2026.07	441.78	0.13
3	325380	1% Annual Chance	2800.00	793.80	802.62	797.31	802.69	0.000136	2.21	1904.49	449.53	0.14
3	325017	1% Annual Chance	2800.00	794.54	802.16	798.88	802.50	0.000787	4.82	639.07	258.52	0.33
3	324982 RR Bridge	Bridge										
3	324940	1% Annual Chance	2800.00	794.49	801.96	798.84	802.35	0.000894	5.13	614.90	290.68	0.36
3	324881	1% Annual Chance	2800.00	794.49	801.49	799.11	802.18	0.001659	6.74	442.41	253.16	0.48
3	324802	1% Annual Chance	2800.00	794.49	801.40	798.83	802.02	0.001550	6.34	451.47	82.35	0.45
3	324757 Prairie Avenue	Bridge										
3	324699	1% Annual Chance	2800.00	792.73	801.22	797.11	801.64	0.001412	5.23	548.27	309.09	0.33
3	324503	1% Annual Chance	2800.00	792.73	800.98	797.29	801.35	0.001301	5.24	723.93	384.35	0.33
3	324045	1% Annual Chance	2800.00	792.74	800.74	797.48	800.88	0.000633	3.51	1275.78	321.00	0.23
3	323373	1% Annual Chance	2800.00	791.94	800.36	795.72	800.50	0.000513	3.33	1191.76	255.80	0.21
3	323152	1% Annual Chance	2800.00	791.68	800.25	795.06	800.39	0.000430	3.08	1034.94	268.09	0.19
3	323107 Abandoned RR Bri	Bridge										
3	323072	1% Annual Chance	2800.00	791.62	800.16	794.76	800.29	0.000371	2.86	1098.26	329.02	0.18
3	322863	1% Annual Chance	2800.00	791.65	799.47	796.34	800.01	0.001931	6.08	574.11	268.11	0.40
3	322510	1% Annual Chance	2800.00	791.69	798.29	796.23	799.09	0.003447	7.31	444.05	178.06	0.52
3	322366	1% Annual Chance	2800.00	791.71	797.89	795.86	798.54	0.003213	6.53	462.71	259.69	0.49
3	322347 Foot Bridge	Bridge										
3	322328	1% Annual Chance	2800.00	791.67	797.63	795.89	798.37	0.003881	6.95	425.61	226.47	0.54
3	322133	1% Annual Chance	2800.00	791.17	797.03	795.05	797.62	0.003132	6.23	532.43	306.68	0.48
3	321455	1% Annual Chance	2800.00	789.42	796.05	793.49	796.22	0.001247	4.13	1260.28	379.91	0.31
3	320052	1% Annual Chance	2800.00	788.08	795.02	792.58	795.10	0.000645	3.17	2205.95	717.42	0.22
3	318544	1% Annual Chance	2800.00	786.47	794.21	789.46	794.34	0.000541	3.14	1493.78	443.04	0.21
3	317652	1% Annual Chance	2800.00	783.38	793.83	790.17	793.92	0.000444	3.07	2179.06	532.81	0.19
3	316516	1% Annual Chance	2800.00	783.69	793.48	788.64	793.53	0.000260	2.40	2677.03	910.89	0.15
3	315328	1% Annual Chance	2800.00	784.02	793.25	788.18	793.28	0.000179	1.94	3442.80	786.95	0.12
3	314594	1% Annual Chance	2800.00	783.84	793.13	787.85	793.16	0.000159	1.92	3649.26	865.16	0.12
3	313946	1% Annual Chance	2800.00	783.69	792.86	788.26	792.98	0.000373	3.23	1206.54	772.10	0.20
3	313868 Sunset Drive	Bridge										
3	313783	1% Annual Chance	2800.00	782.72	792.68	787.38	792.83	0.000374	3.36	1122.41	532.89	0.20
3	313294	1% Annual Chance	2800.00	782.38	792.59	787.24	792.66	0.000203	2.56	2490.60	582.15	0.15
3	312341	1% Annual Chance	2800.00	781.73	792.51	787.57	792.53	0.000092	1.60	5243.90	1621.65	0.10
3	310894	1% Annual Chance	2800.00	781.61	792.40	786.92	792.42	0.000073	1.49	5592.28	1708.87	0.09
3	309872	1% Annual Chance	2800.00	781.52	792.27	787.19	792.31	0.000169	2.20	3231.15	886.09	0.14
3	309200	1% Annual Chance	2800.00	781.10	792.17	786.72	792.22	0.000136	1.95	3146.86	1275.51	0.12
3	308690	1% Annual Chance	2800.00	780.79	791.98	787.03	792.09	0.000304	2.89	1270.97	2010.33	0.18

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	308534	STH 59	Bridge									
3	308420	1% Annual Chance	2800.00	783.52	791.85	786.93	791.95	0.000278	2.61	1402.51	2209.37	0.17
3	308092	1% Annual Chance	2800.00	783.44	791.68	787.08	791.83	0.000407	3.23	1134.76	1830.05	0.21
3	307084	1% Annual Chance	2800.00	783.18	791.32	787.50	791.41	0.000390	3.06	2501.49	1231.03	0.20
3	305041	1% Annual Chance	2800.00	782.31	791.03	786.80	791.05	0.000103	1.61	4363.79	1066.39	0.10
3	303861	1% Annual Chance	2800.00	781.25	790.87	785.46	790.92	0.000132	1.92	3028.78	855.14	0.12
3	302506	1% Annual Chance	2800.00	780.04	790.71	786.23	790.74	0.000132	1.99	4617.25	1124.63	0.12
3	301419	1% Annual Chance	2800.00	778.95	790.59	784.61	790.62	0.000100	1.75	4006.22	981.52	0.11
3	300037	1% Annual Chance	2800.00	781.32	790.27	785.59	790.38	0.000321	2.85	1087.35	990.90	0.19
3	289978	CTH H	Bridge									
3	299927	1% Annual Chance	2800.00	781.19	789.64	786.76	790.11	0.001599	5.53	534.31	1020.24	0.40
3	298907	1% Annual Chance	2800.00	781.39	789.36	785.09	789.41	0.000233	2.26	2537.28	970.36	0.15
3	297648	1% Annual Chance	2800.00	782.29	789.13	785.50	789.16	0.000169	1.83	3353.52	1074.78	0.13
3	295242	1% Annual Chance	2800.00	780.95	788.75	784.19	788.79	0.000170	1.98	3246.89	1935.98	0.13
3	293113	1% Annual Chance	2800.00	777.56	788.28	783.97	788.36	0.000295	3.04	3377.52	1263.92	0.18
3	290590	1% Annual Chance	2800.00	781.11	787.97	784.51	787.99	0.000115	1.58	5331.38	1915.23	0.11
3	286594	1% Annual Chance	2800.00	779.03	787.63	784.11	787.65	0.000135	1.74	5028.88	3331.75	0.12
3	284196	1% Annual Chance	2800.00	778.75	787.38	783.31	787.40	0.000131	1.83	4711.26	1607.32	0.12
3	280598	1% Annual Chance	2800.00	776.97	787.05	782.19	787.07	0.000107	1.75	5470.62	1689.35	0.11
3	278597	1% Annual Chance	2800.00	776.74	786.85	782.19	786.89	0.000156	2.12	4644.91	1360.67	0.13
3	277247	1% Annual Chance	2800.00	777.04	786.74	782.20	786.75	0.000064	1.35	7100.36	2071.07	0.08
3	276025	1% Annual Chance	2800.00	777.32	786.71	782.76	786.71	0.000029	0.92	7368.57	1903.73	0.06
3	275210	1% Annual Chance	3453.00	775.87	786.66	781.62	786.69	0.000093	1.72	4572.80	1134.48	0.10
3	274443	1% Annual Chance	3453.00	774.50	786.04	781.61	786.43	0.000882	5.44	870.20	553.12	0.31
3	274387	Bridge										
3	274336	1% Annual Chance	3453.00	774.69	785.64	781.50	786.17	0.001288	5.86	655.20	465.02	0.37
3	273991	1% Annual Chance	3453.00	775.75	785.50	780.90	785.73	0.000582	4.16	1445.24	445.53	0.26
3	273570	1% Annual Chance	3453.00	777.04	785.34	781.22	785.49	0.000473	3.36	2267.77	860.29	0.22
3	271360	1% Annual Chance	3453.00	777.00	784.99	782.52	785.00	0.000115	1.57	9005.13	5108.14	0.11
3	268455	1% Annual Chance	3453.00	777.66	784.92	781.24	784.92	0.000020	0.84	18613.47	5540.47	0.05
3	265274	1% Annual Chance	3453.00	776.51	784.85	781.17	784.85	0.000032	0.89	14067.05	6291.08	0.06
3	263404	1% Annual Chance	3453.00	776.47	784.80	780.87	784.80	0.000049	1.15	10254.29	6057.28	0.07
3	259836	1% Annual Chance	3453.00	776.09	784.72	780.34	784.72	0.000015	0.67	18933.12	8935.25	0.04
3	255515	1% Annual Chance	3453.00	773.63	784.67	780.32	784.67	0.000019	0.77	19797.12	8518.61	0.05
3	252534	1% Annual Chance	3453.00	775.64	784.63	779.63	784.63	0.000011	0.56	22039.50	6701.20	0.03
3	249100	1% Annual Chance	3453.00	774.62	784.60	778.74	784.60	0.000011	0.59	20255.63	4921.49	0.04
3	245956	1% Annual Chance	3453.00	775.46	784.53	779.36	784.54	0.000041	1.12	9504.66	4994.70	0.07
3	245482	1% Annual Chance	3155.00	775.21	784.50	779.11	784.51	0.000047	1.18	6844.30	5272.78	0.07
3	245013	1% Annual Chance	3155.00	774.96	784.44	778.49	784.48	0.000074	1.68	2341.88	923.40	0.11
3	244937	Bridge										
3	244872	1% Annual Chance	3155.00	774.87	784.36	778.87	784.44	0.000133	2.21	1742.27	747.35	0.14
3	244513	1% Annual Chance	3155.00	774.23	784.33	777.89	784.39	0.000095	2.06	2464.89	407.72	0.12
3	243252	1% Annual Chance	3155.00	774.34	784.20	778.00	784.26	0.000106	2.11	2093.26	380.28	0.13
3	242405	1% Annual Chance	3155.00	773.96	784.12	778.13	784.17	0.000093	1.96	3084.09	691.39	0.12
3	241460	1% Annual Chance	3155.00	773.54	784.00	778.12	784.07	0.000128	2.31	3026.62	689.30	0.14

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	240451	1% Annual Chance	3155.00	774.09	783.83	778.51	783.82	0.000172	2.71	2495.77	533.78	0.16
3	240174	1% Annual Chance	3155.00	774.24	783.79	778.12	783.87	0.000144	2.44	1590.31	522.15	0.15
3	240094	Bridge										
3	240031	1% Annual Chance	3155.00	774.17	783.72	777.80	783.82	0.000161	2.59	1375.66	563.62	0.16
3	239619	1% Annual Chance	3155.00	773.43	783.70	777.74	783.74	0.000092	1.97	3156.05	688.12	0.12
3	238964	1% Annual Chance	3155.00	772.26	783.64	778.29	783.68	0.000107	2.12	3318.07	731.83	0.13
3	238001	1% Annual Chance	3155.00	773.17	783.54	778.44	783.58	0.000103	2.08	3817.19	938.26	0.13
3	236906	1% Annual Chance	3155.00	774.20	783.46	778.28	783.49	0.000079	1.76	5641.44	2028.92	0.11
3	235897	1% Annual Chance	3747.00	774.04	783.27	777.71	783.35	0.000147	2.39	1842.04	2747.15	0.15
3	235634	Bridge										
3	235550	1% Annual Chance	3747.00	774.86	783.16	778.05	783.25	0.000180	2.51	1714.53	2762.56	0.16
3	234483	1% Annual Chance	3747.00	777.11	783.03	779.73	783.05	0.000130	1.78	6571.15	2730.32	0.13
3	233051	1% Annual Chance	3747.00	774.30	782.91	778.46	782.92	0.000062	1.36	9057.38	2538.90	0.09
3	230148	1% Annual Chance	3747.00	774.32	782.77	778.67	782.78	0.000063	1.49	10867.20	2956.09	0.10
3	225242	1% Annual Chance	3747.00	770.22	782.54	778.52	782.56	0.000083	1.97	8808.79	2498.31	0.11
3	222266	1% Annual Chance	3747.00	773.90	782.46	776.91	782.47	0.000021	0.82	7718.41	3392.10	0.06
3	220133	1% Annual Chance	3747.00	773.68	782.40	777.68	782.41	0.000049	1.31	7194.39	2757.40	0.08
3	218010	1% Annual Chance	3747.00	770.28	782.31	777.40	782.32	0.000048	1.31	8348.14	2180.06	0.08
3	214666	1% Annual Chance	3747.00	771.32	782.19	776.07	782.20	0.000041	1.32	8871.58	1911.45	0.08
3	213726	1% Annual Chance	3747.00	771.64	782.15	775.90	782.17	0.000036	1.23	6750.23	1566.81	0.07
3	213673	Bridge										
3	213631	1% Annual Chance	3747.00	771.69	781.97	776.38	781.99	0.000060	1.62	5668.62	1628.74	0.10
3	212723	1% Annual Chance	3747.00	771.64	781.86	777.11	781.91	0.000125	2.19	3053.73	1090.42	0.14
3	211682	1% Annual Chance	3747.00	769.59	781.56	774.37	781.72	0.000195	3.28	1322.92	3056.49	0.18
3	207416	1% Annual Chance	3747.00	772.11	781.18	775.51	781.21	0.000068	1.67	6887.38	4109.80	0.10
3	204023	1% Annual Chance	3747.00	768.74	781.01	774.84	781.03	0.000050	1.53	9239.05	2286.36	0.09
3	201808	1% Annual Chance	3747.00	770.33	780.85	776.58	780.88	0.000107	2.06	4802.27	1516.36	0.13
3	200716	1% Annual Chance	3747.00	771.22	780.54	775.58	780.68	0.000268	3.14	1367.32	1103.00	0.20
3	200660	Bridge										
3	200612	1% Annual Chance	3747.00	771.43	780.42	775.73	780.60	0.000337	3.47	1173.49	1001.83	0.22
3	199863	1% Annual Chance	3747.00	769.65	780.32	774.60	780.39	0.000146	2.50	2899.28	995.16	0.15
3	198930	1% Annual Chance	3747.00	771.18	780.18	775.55	780.24	0.000165	2.47	3711.07	923.63	0.16
3	197861	1% Annual Chance	3747.00	770.16	779.99	774.50	780.07	0.000161	2.53	2643.54	575.40	0.16
3	196817	1% Annual Chance	3747.00	772.15	779.83	775.47	779.89	0.000164	2.22	3129.77	735.63	0.15
3	194793	1% Annual Chance	3747.00	768.96	779.44	774.71	779.52	0.000219	2.80	4085.47	1258.62	0.18
3	192558	1% Annual Chance	3747.00	769.56	779.02	774.35	779.11	0.000195	2.52	2340.98	761.86	0.17
3	190909	1% Annual Chance	3747.00	768.86	778.85	774.86	778.88	0.000117	1.95	5042.42	2060.23	0.13
3	188937	1% Annual Chance	3747.00	770.82	778.67	775.15	778.69	0.000091	1.58	5845.20	3691.18	0.11
3	186878	1% Annual Chance	3747.00	769.22	778.52	775.74	778.54	0.000085	1.61	8064.91	3155.93	0.11
3	183684	1% Annual Chance	3747.00	769.47	778.28	774.44	778.30	0.000114	1.93	6875.57	2591.85	0.13
3	182126	1% Annual Chance	3747.00	767.65	778.14	773.58	778.17	0.000116	2.11	6986.10	2156.79	0.13
3	180732	1% Annual Chance	3747.00	767.67	777.98	772.55	778.02	0.000105	1.95	4941.88	1665.96	0.13
3	179108	1% Annual Chance	3747.00	767.69	777.66	773.57	777.76	0.000308	3.29	3946.80	1386.27	0.21
3	177822	1% Annual Chance	3747.00	770.53	777.48	773.61	777.51	0.000119	1.78	6917.51	2548.64	0.13
3	173946	1% Annual Chance	3747.00	770.44	777.25	773.57	777.27	0.000049	1.43	10417.41	3906.33	0.11

HEC-RAS Plan: 5 Profile Ru River: Fox River Reach: 3 Profile: 1% Annual Chance (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
3	171514	1% Annual Chance	3747.00	768.44	777.06	773.21	777.11	0.000103	2.27	4756.82	3477.63	0.16
3	169976	1% Annual Chance	3747.00	766.31	776.87	772.38	776.95	0.000126	2.83	4311.59	2854.49	0.18
3	169201	1% Annual Chance	3747.00	767.52	776.85	771.88	776.88	0.000045	1.46	4833.06	2974.94	0.10
3	168185	1% Annual Chance	3747.00	769.31	776.80	772.77	776.82	0.000062	1.33	3915.78	2300.31	0.11
3	166545	1% Annual Chance	3747.00	765.59	776.77	770.28	776.78	0.000011	0.70	6529.51	3171.87	0.05
3	166458 Bridge Drive	Bridge										
3	166413	1% Annual Chance	3747.00	766.92	776.62	771.45	776.68	0.000090	2.31	4728.32	2836.79	0.15
3	165884	1% Annual Chance	3747.00	768.41	776.57	772.97	776.63	0.000120	2.21	4148.79	2127.94	0.17
3	164590	1% Annual Chance	3747.00	768.22	776.27	772.30	776.42	0.000212	3.12	1889.48	1035.10	0.22
3	163582	1% Annual Chance	3747.00	769.17	776.18	772.55	776.24	0.000119	2.13	3759.81	4785.51	0.16
3	161501	1% Annual Chance	3747.00	769.84	776.21	770.28	776.21	0.000001	0.19	20205.28	10945.75	0.01
3	157821	1% Annual Chance	3747.00	770.16	776.18	772.05	776.20	0.000043	1.24	3056.85	639.82	0.10
3	154713	1% Annual Chance	3747.00	769.77	776.18	770.38	776.18	0.000002	0.30	12496.17	2165.74	0.02
3	152336	1% Annual Chance	3747.00	765.23	776.11	769.72	776.16	0.000055	1.82	3254.30	1575.51	0.12
3	150577	1% Annual Chance	3747.00	768.11	775.96	771.19	776.03	0.000097	2.22	1783.68	1745.24	0.15
3	147938	1% Annual Chance	3747.00	768.29	775.67	771.22	775.75	0.000116	2.33	1643.76	291.31	0.17
3	145150	1% Annual Chance	3747.00	768.23	775.47	770.89	775.51	0.000062	1.62	2358.73	474.61	0.12
3	142990	1% Annual Chance	3754.00	768.18	775.36	770.83	775.39	0.000046	1.35	2781.39	521.74	0.10

Fred Schnook

From: Gesch, Peter <PGesch@ruekert-mielke.com>
Sent: Tuesday, November 8, 2022 5:20 PM
To: Fred Schnook; Tim Schwecke; Ron Bittner
Cc: Kloth, Ryan; Wegner, Jerad
Subject: FEMA Floodplain Mapping Discussion Follow-Up

**CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Fred/Tim/Ron –

This is a follow up to the conversation that we had this morning in relation to the preliminary floodplain maps that we are reviewing on behalf of the Village. There was additional info that Ryan and I were going to look at to the south of I-43 in the TID #3 area, as well as west of STH 83 near Wolf Run. Below are a few screenshots and a summary of the changes that we are seeing:

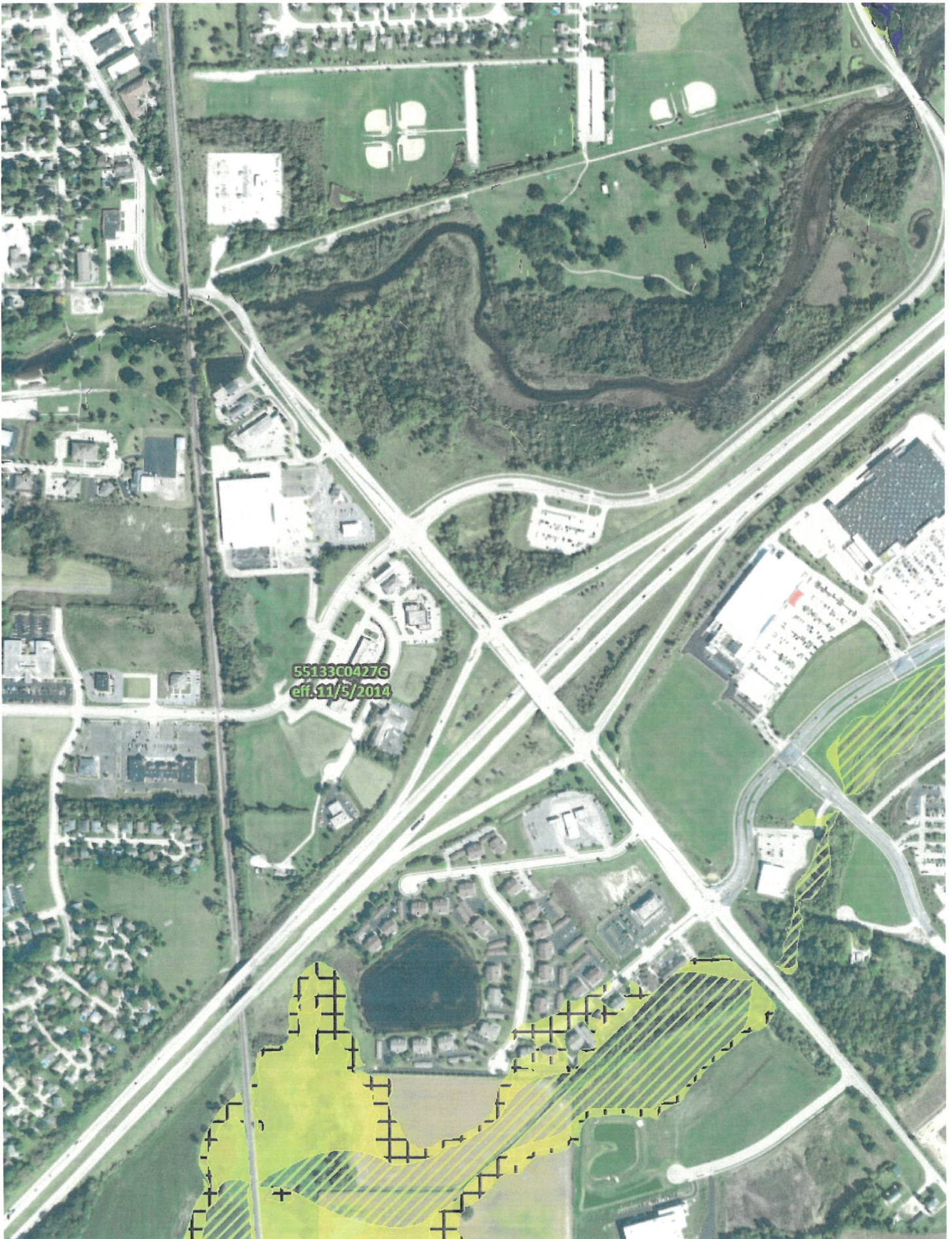
The current Effective FIRM maps that the Village adopted back in 2014 do not show any of this area to be a floodway or floodplain.

Floodway or 100-year Floodplain or 500-year Floodplain within that boundary. Ron may recall the little area of yellow on the Maple Centre site that was a topic of discussion during past reviews with Maple Centre.



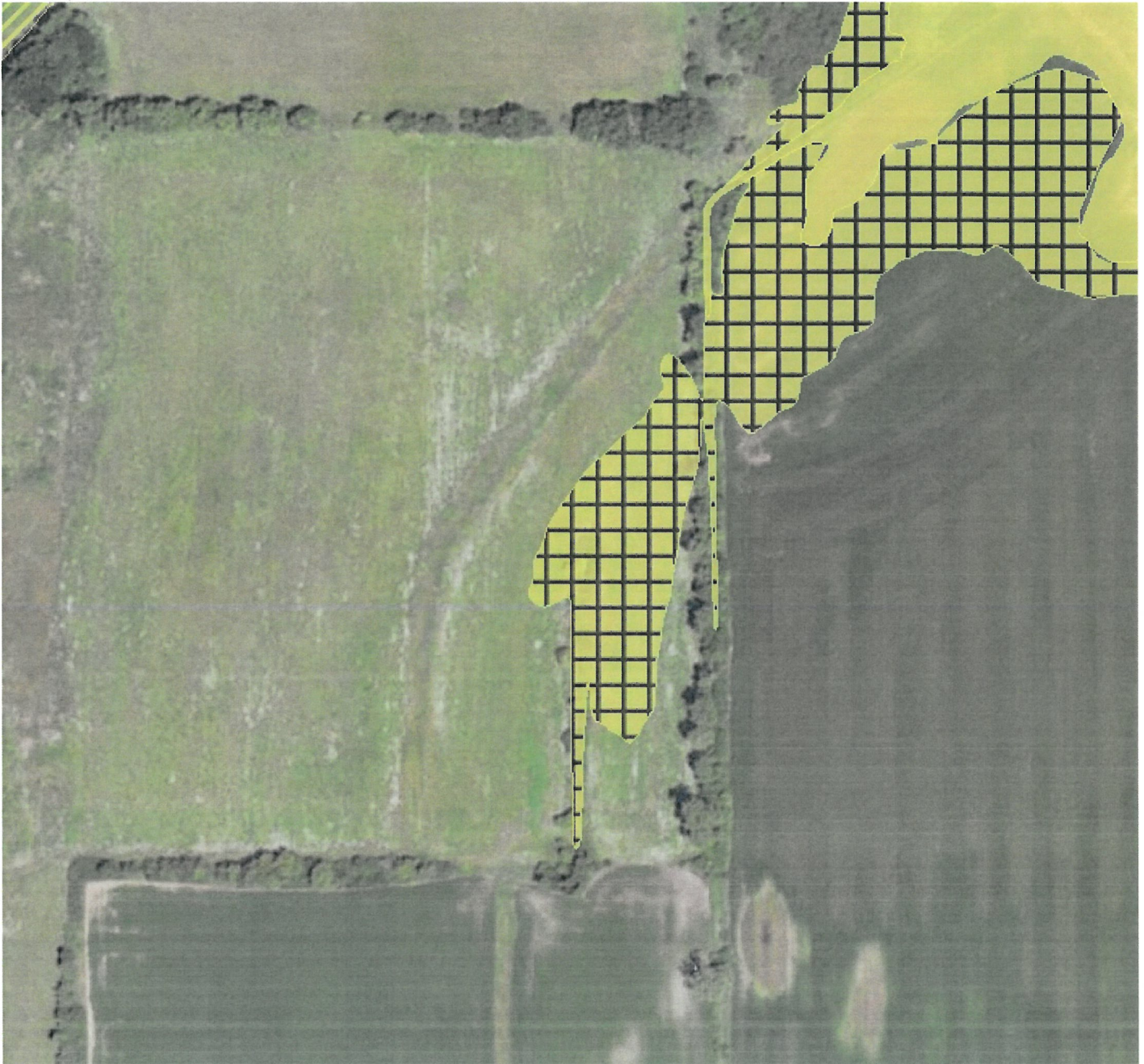
FEMA and WDNR have now taken that SEWRPC Flood Study and are incorporating it in the new FIRM maps that the Village will eventually need to adopt via a new/amended Ordinance. As you can see in the screenshot below, those are the new areas that are showing up on the Floodplain Changes mapping viewer that we were reviewing in our meeting. They are now clearly discerning what is the Floodway, 100-year Floodplain and 500-year Floodplain. You'll see that it all closely matches up with the boundary from the Waukesha County GIS screenshot above.

The black hatched areas indicate an increase in the 500-year floodplain, the yellow solid colors are the 100-year floodplain increases, and the yellow cross hatched areas are the new floodway areas. The purple areas indicate a decrease in the floodplains.



55133C0427G
eff. 11/5/2014

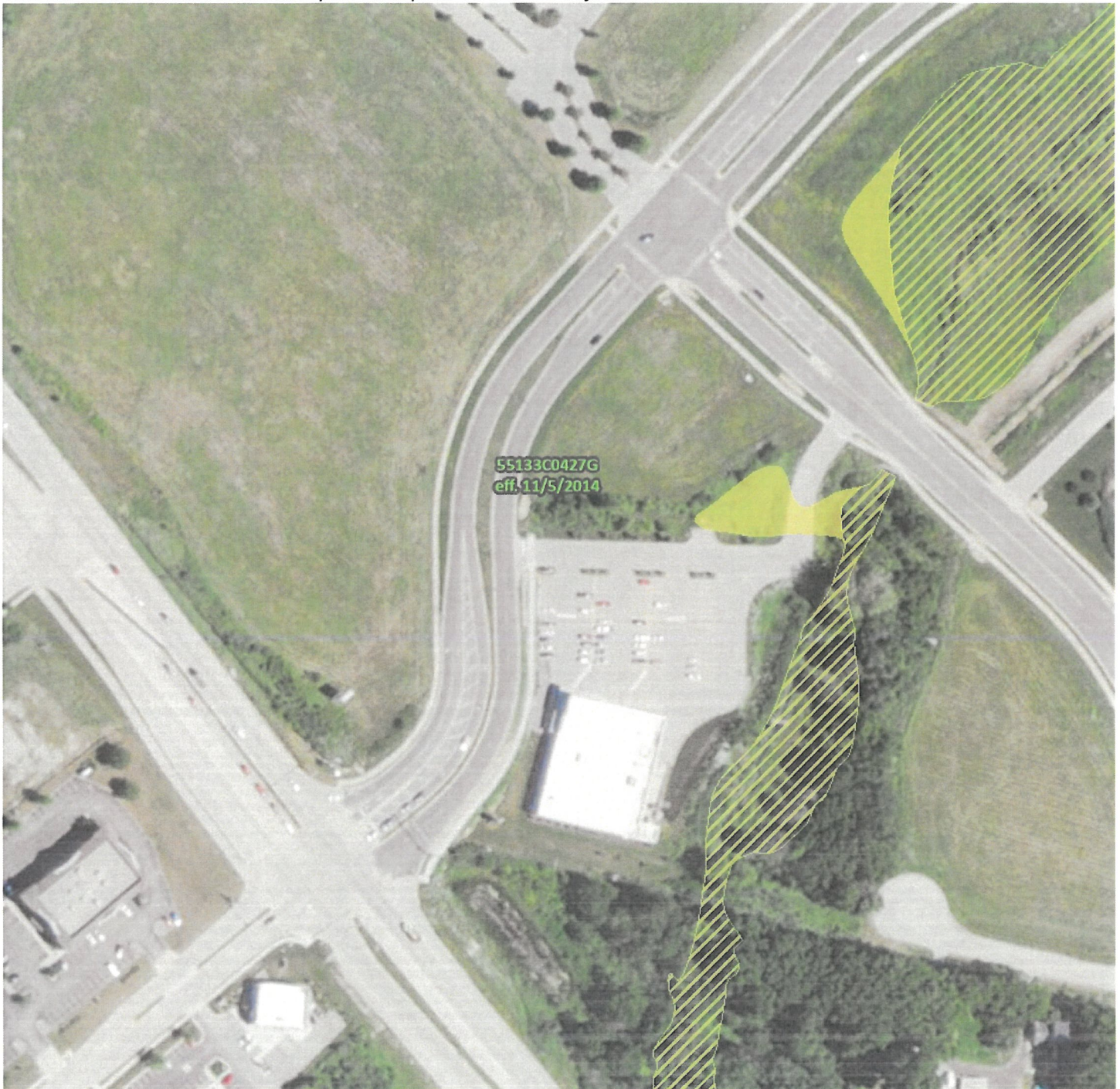
For the Maple Centre Area, it appears that the area on their site would be classified as a 500-year floodplain. There are no regulatory requirements associated with the 500-year floodplain. Meaning, this should not affect the Maple Centre development as they are allowed to build and fill in these areas.



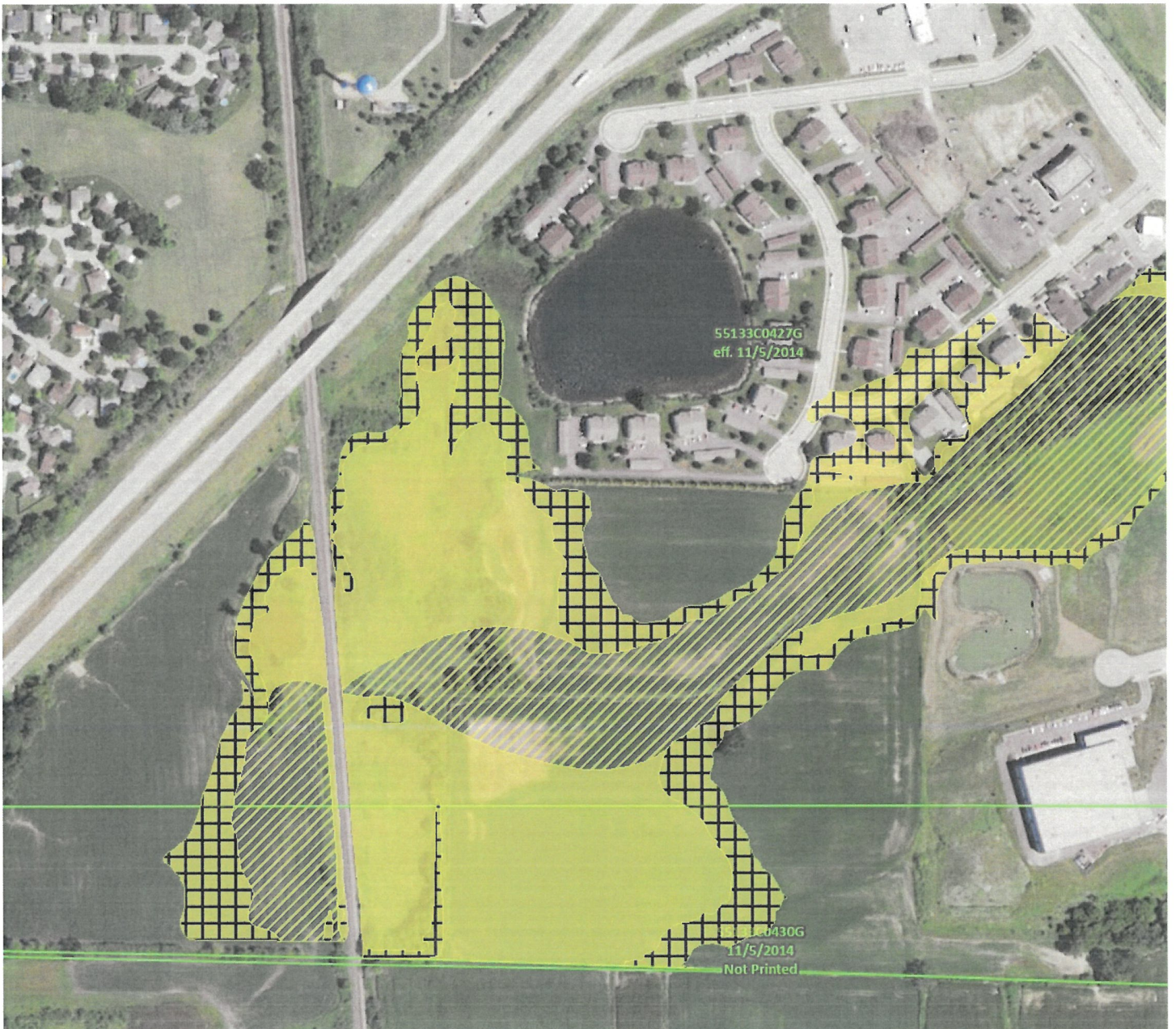
For the proposed TID #6 boundary, there does not appear to be any concerns with additional floodplains affecting that area. There is a little sliver of 100-year floodplain immediately West of the Maple Centre site on one of the two commercial sites, but speaking with Mike Michalski, this matches what he has already been looking at.



There is some increase in the 100-year floodplain on the site adjacent to the Aldi site.

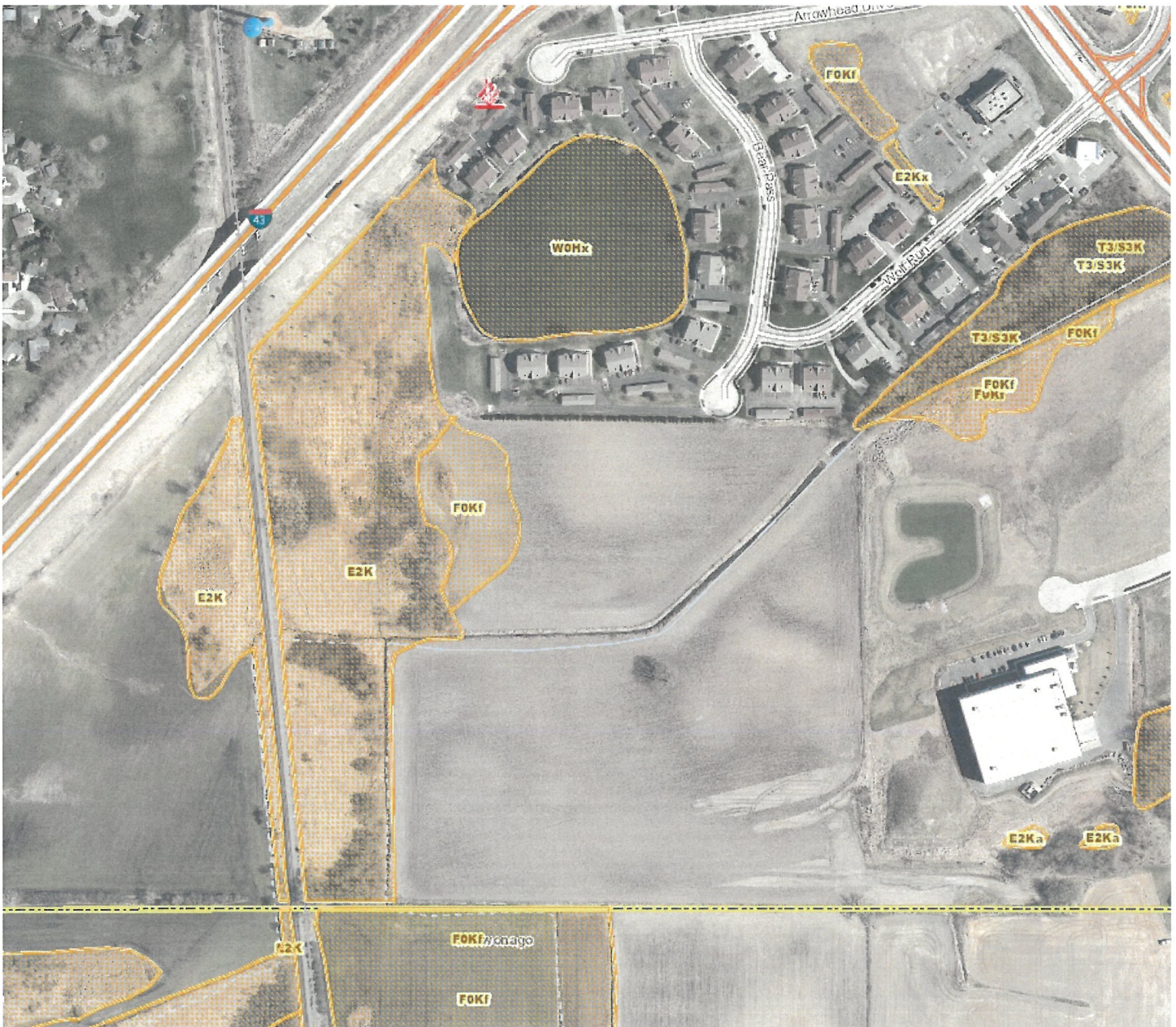


For the area west of STH 83, Mike has already been evaluating this when looking at possible Dewey Drive extensions and land development in this area. He was aware of the SEWRPC Flood Study and was working around that. A lot of this area is also mapped wetlands. As indicated in our original technical memorandum, there are a few properties on Wolf Run that will now be in the 100-year flood plain that would affect their insurance in the future. See screenshots below:

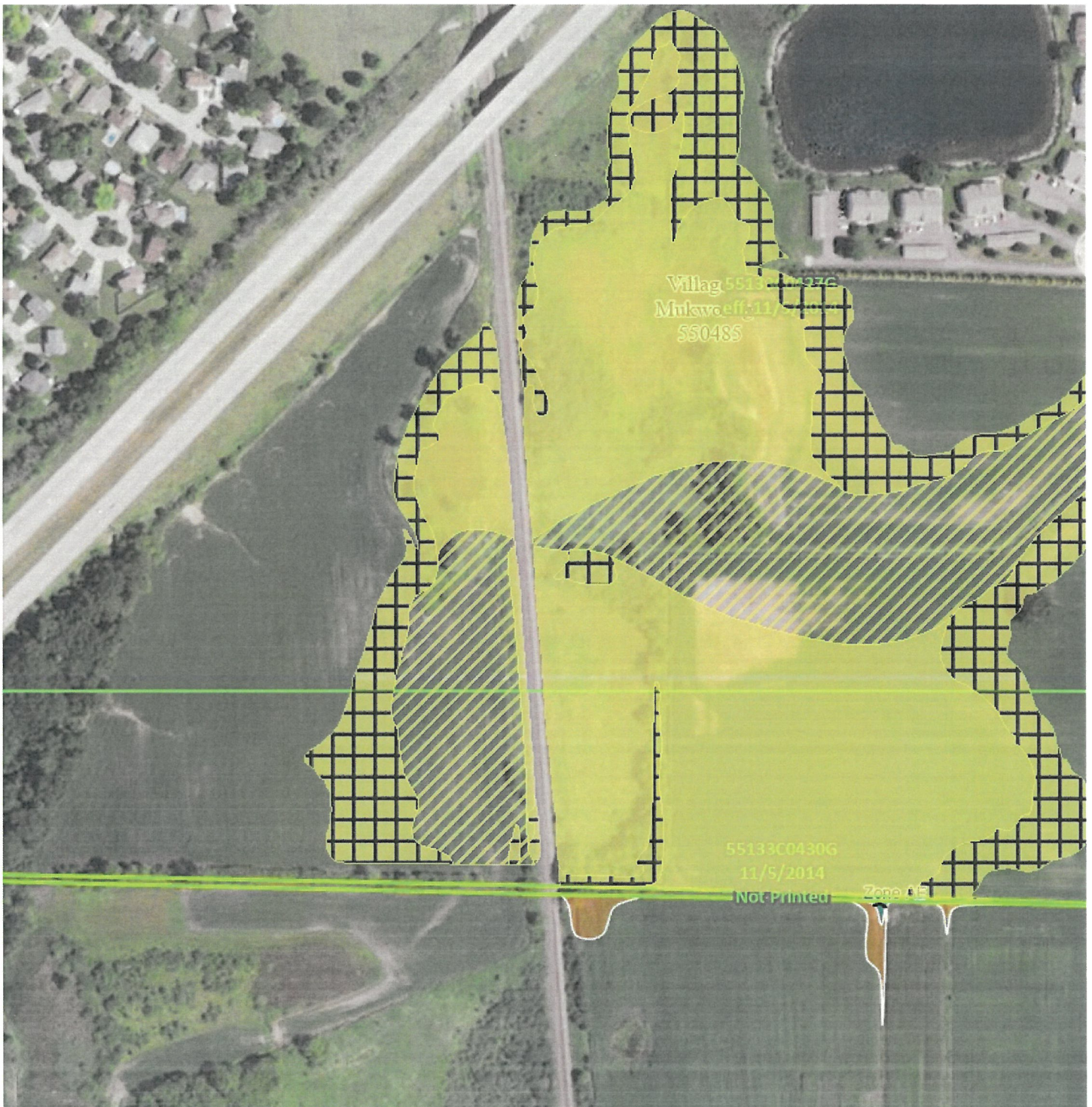




Wetlands are shown here:



Walworth County has already finalized their Floodplain Maps and the Village adopted those last year. The area in Walworth County related to this new study area is the little bit of brown color you see below the yellow in the screenshot below. That is the extent of how far this floodplain area extends into Walworth County. Keep in mind that this is all wetland area as shown above, as well.



We discussed the culvert under STH 83 and if it is having an impact on this area to the west or not. It is possible that the culvert is a constriction point and it could be a point of discussion with WisDOT to have them look into it if you so choose. One concern with this is that if the culvert is upsized, it could increase the floodway downstream to the east which could negatively affect more properties downstream.

In conclusion, the Village could choose to pursue a Letter of Map Revision (LOMR) with WDNR and FEMA to analyze this area and verify that it was modeled correctly and there is no errant data in the model. That effort would be about \$9,000-\$14,000 to complete. It is possible that, as a result of the LOMR, the floodplain area could decrease and the few properties on Wolf Run would be out of the floodplain. However, that is not guaranteed. We could analyze the data and find that everything was done correctly and that the mapping is accurate. Our experience with these types of small

specific study areas (like the SEWRPC Flood Study Area that is now being included) is that they are typically pretty precise with minimal error. In other words, there is a high likelihood that the effort to further evaluate the area and work on a LOMR would yield no change. If the Village chooses to not do a LOMR, we would recommend notifying the few properties along Wolf Run of the changes, since the Village will be adopting the new maps in the future and it would affect their properties. These properties could choose to do a Letter of Map Revision or Elevation Certificate on their own in the future that could potentially get them out of the Floodplain – but the Village would not be involved in that.

The deadline to notify FEMA and WDNR of a possible appeal is next Friday the 18th. The Village could choose to write a letter with the possible intent to appeal and go through the LOMR process, but it would not hurt them if they ended up not going through the process. Or, the Village could choose not to go through the process, in which case, no correspondence is needed to FEMA and the WDNR.

Please let me know if you have any questions and feel free to call if you'd like to discuss this further. If you'd like to put this matter in front of the Village Board next week either as an FYI or for a recommendation, I'd be happy to attend the meeting and go through all of this with them and answer any questions they may have.

Thanks!

Peter W. Gesch, P.E. (WI)
Project Engineer



☎ 262-953-3014
📠 920-901-4624
✉ PGesch@ruekert-mielke.com
🌐 ruekertmielke.com



Village of Mukwonago
Election Statistics Report
Tuesday, November 8, 2022

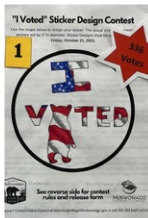
	Waukesha Wards 1-10	Walworth Wards 11, 12	TOTAL VILLAGE
Registered Voters by County	5320	117	5,437
% Of Votes Cast	77.0%	88.0%	77.3%

	WAUKESHA W1-10	WALWORTH W11, 12	TOTAL VILLAGE
ABSENTEE Ballots Cast by Reporting Unit	1423	33	1456
IN-PERSON Votes Cast by Reporting Unit	2369	62	2431
Total Voter Participation	4099	103	4202
Provisional Ballots Cast by Ward	0	0	0
Election Day Registrations	308	6	314

	Waukesha Votes Cast	Walworth Votes Cast	Village Total By Candidate
Governor/Lt Governor			
Evers/Rodriguez (Democratic)	1405	38	1443
Michels/Roth (Republican)	2637	56	2693
Beglinger (Independent)	44	1	45
Write In	2	1	3
Attorney General			
Kaul (Democratic)	1351	41	1392
Toney (Republican)	2684	55	2739
Write In	0	0	0
Secretary of State			
LaFollette (Democratic)	1289	38	1327
Loudenbeck (Republican)	2616	57	2673
Harmon (Libertarian)	86	0	86
McFarland (Green)	55	0	55
Write In	0	0	0
Treasurer			
Richardson (Democratic)	1223	34	1257
Leiber (Republican)	2648	59	2707
Zuelke (Constitution)	90	1	91
Write In	0	0	0
US Senator			
Barnes (Democratic)	1329	36	1365
Johnson (Republican)	2728	63	2791
Write In	7	0	7
Congress D5			
Van Someren (Democratic)	1276	37	1313
Fitzgerald (Republican)	2739	60	2799
Write In	1	0	1
Assembly D83			
Rettinger (Republican)	2899	66	2965
Self (Independent)	802	21	823
Write In	16	0	16
County Sheriff (Waukesha)			
Severson (Republican)	3320		3320
Write In	83		83
County Sheriff (Walworth)			
Gerber (Republican)		67	67
Write In		6	6
Clerk of Circuit Court			
Paz (Republican)	3097	69	3166
Write In	58	2	60
Referendum			
Waukesha County Q1 - Yes	3196		3196
Waukesha County Q1 No	665		665
Waukesha County Q2 - Yes	2853		2853
Waukesha County Q2 - No	979		979
Mukwonago Q1 - Fire Dept Yes	2286	49	2335
Mukwonago Q1 - Fire Dept No	1624	44	1668

56%
40%

Waukesha County Clerk Unofficial Results <https://electionresults.waukeshacounty.gov/contests.aspx?contest=-1>
Walworth County Clerk Unofficial Results <https://www.co.walworth.wi.us/199/Election-Results>



"I Voted" Sticker Design Winners

www.villageofmukwonago.gov

