



**A G E N D A**  
**CITY OF WAUPUN BOARD OF PUBLIC WORKS**  
**Waupun City Hall – 201 E. Main Street, Waupun WI**  
**Tuesday, December 10, 2019 at 4:30 PM**

**CALL TO ORDER**

**ROLL CALL**

**PERSONS WISHING TO ADDRESS THE BOARD OF PUBLIC WORKS**--*State name, address, and subject of comments.*  
*(2 Minutes)*

***No Public Participation after this point.***

**FUTURE MEETINGS AND GATHERING INVOLVING THE BOARD OF PUBLIC WORKS**

**CONSIDERATION - ACTION**

- [1.](#) Approve minutes from the November 12, 2019 Board of Public Works meeting.
- [2.](#) Update on 2019 project costs.
- [3.](#) LED Lighting Project Update
- [4.](#) Approve Salt Reduction Strategy

**ADJOURNMENT**

*Upon reasonable notice, efforts will be made to accommodate disabled individuals through appropriate aids and services. For additional information, contact the City Clerk at 920-324-7915.*



**DRAFT MINUTES**  
**CITY OF WAUPUN BOARD OF PUBLIC WORKS**  
**Waupun City Hall – 201 E. Main Street, Waupun WI**  
**Tuesday, November 12, 2019 at 4:30 PM**

**CALL TO ORDER**

Chairman Mielke called the meeting of the Board of Public Works to Order at 4:30pm.

**ROLL CALL**

Board members present on roll call are Chairman Mielke, Alderman Matoushek, Alderman Vossekuil, Deputy Chief Rasch, Public Works Director Daane, and City Clerk Hull. No members are absent.

Common Council members in attendance are Mayor Nickel.

No City Staff is present.

No members in the audience are present.

**PERSONS WISHING TO ADDRESS THE BOARD OF PUBLIC WORKS**

No member of the public appeared before the Board.

**FUTURE MEETINGS AND GATHERING INVOLVING THE BOARD OF PUBLIC WORKS**

The next regularly scheduled meeting of the Board of Public Works is December 10, 2019 at 430pm in the City Hall Council Chambers, if needed.

**CONSIDERATION - ACTION**

**1. Approve minutes of the October 8, 2019 meeting.**

Motion Rasch, second Matoushek to approve the October 8, 2019 minutes of the Board of Public Works.  
Motion carried 6-0.

**2. No Parking Stall Request at Waupun Memorial Hospital. Stall is located just west of the hospital driveway on the north side of W. Brown St.**

Daane was contacted by Waupun Memorial Staff requesting to eliminate the compact car parking space and replace with no parking due to visibility safety issues.

Motion Rasch, second Vossekuil to authorize the elimination of the compact parking space, located in the Waupun Memorial Hospital parking lot, and replace with a no parking sign. Motion carried 6-0 on roll call.

**3. Resolution - DNR Grant for ADA Canoe/Kayak launch.**

Due to the Recreation Board favoring a canoe/kayak launch, Daane is applying for a DNR grant which requires a resolution authorizing Daane to act on behalf of the City and submit an application for possible grant consideration.

Motion Matoushek, second Rasch to recommend to the Common Council to approve the resolution to authorize Daane to submit an application for an ADA Canoe/Kayak Launch at Shaler Park. Motion carried 6-0 on roll call.

**4. Ordinance Amendment - to delete Christian Home Loading Zone designation.**

Ch. 6.05(3)(n) entitled Traffic Code-Parking Limitations provides "Christian Home Loading Zone. An area of not more than 30 feet along the north side of Grandview Ave., extending 15 feet easterly and 15 feet westerly from the centerline of the sidewalk leading from the Christian Home for the Aged to Grandview

Ave., shall be designated as a "Loading Zone" and no parking shall be permitted in such area except for the sole purpose of permitting persons residing at or visiting the Christian Home for the Aged to exit from or enter into motor vehicles". As the Christian Home has relocated, there is no need for this loading zone and Daane requests to update the ordinance by eliminating this language.

Motion Rasch, second Vossekul to recommend the Common Council adopt the ordinance to amend Ch. 6.05(3)(n) entitled Traffic Code-Parking Limitations to eliminate (n) Christian Home Loading Zone. Motion carried 6-0 on roll call.

**5. Set fees for contractors using compost site for City residents.**

Daane requests to charge an annual fee to contractors for dumping at the compost site to aid in the departments time and expense in clearing the debris. N. Fond Du Lac charges a \$300 annual fee and Daane wishes to do the same.

Motion Vossekul, second Matoushek to authorize a \$300 annual fee to contractors for dumping at the City Garage compost site. Motion carried 6-0 on roll call.

**6. Review 2019 Street Ratings.**

Daane provide the 2019 street ratings for review.

**7. Grant Funding Opportunities:**

Daane informs the Board of the grants he is applying for:

LRIP - Gateway Dr. from Main (mill & overlay) (2020)

LRIP - Newton Ave. & Rock Ave. reconstruction (2021)

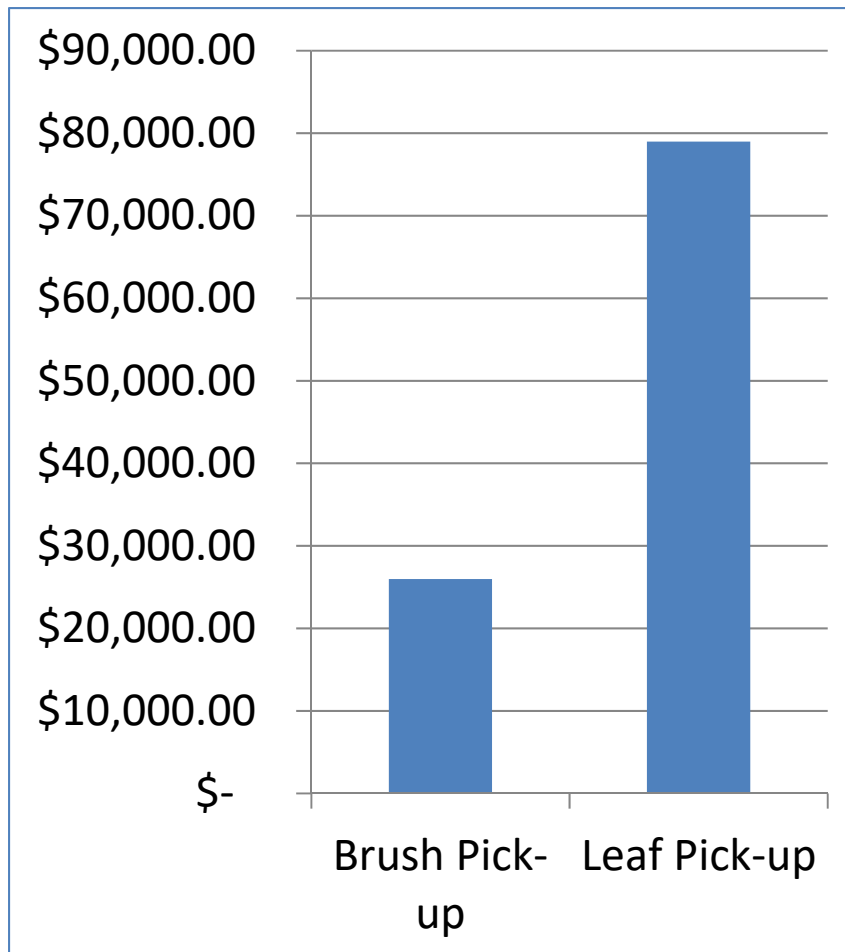
MLS - Shaler Dr. & Baybarry Ln – construction

DNR - ADA Canoe / Kayak launch at Shaler Park

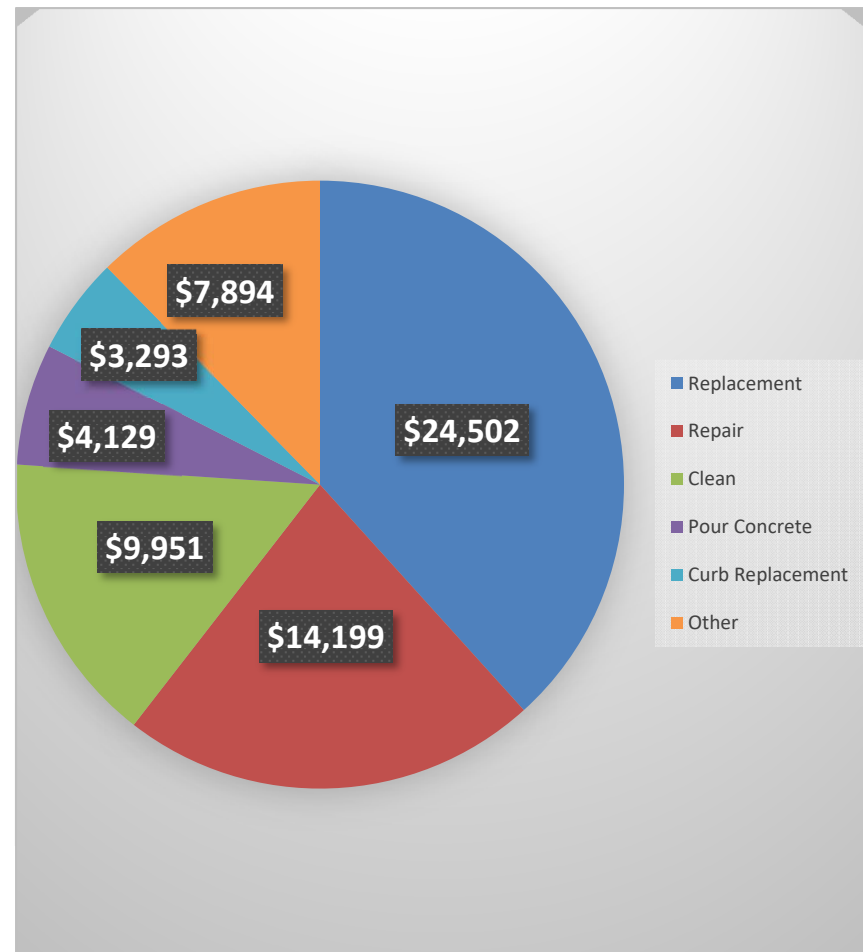
**ADJOURNMENT**

Motion Vossekul, second Rasch to duly call the meeting adjourned at 4:50pm.

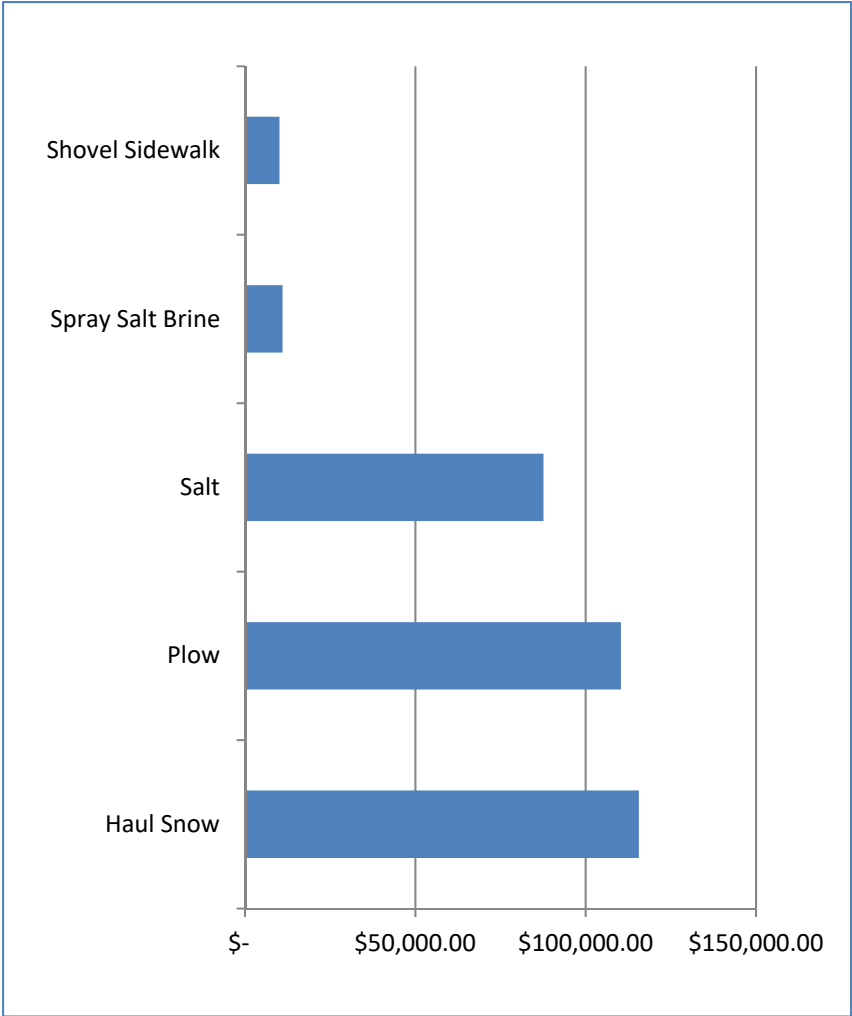
### 2019 Yard Waste Pick-Up Costs



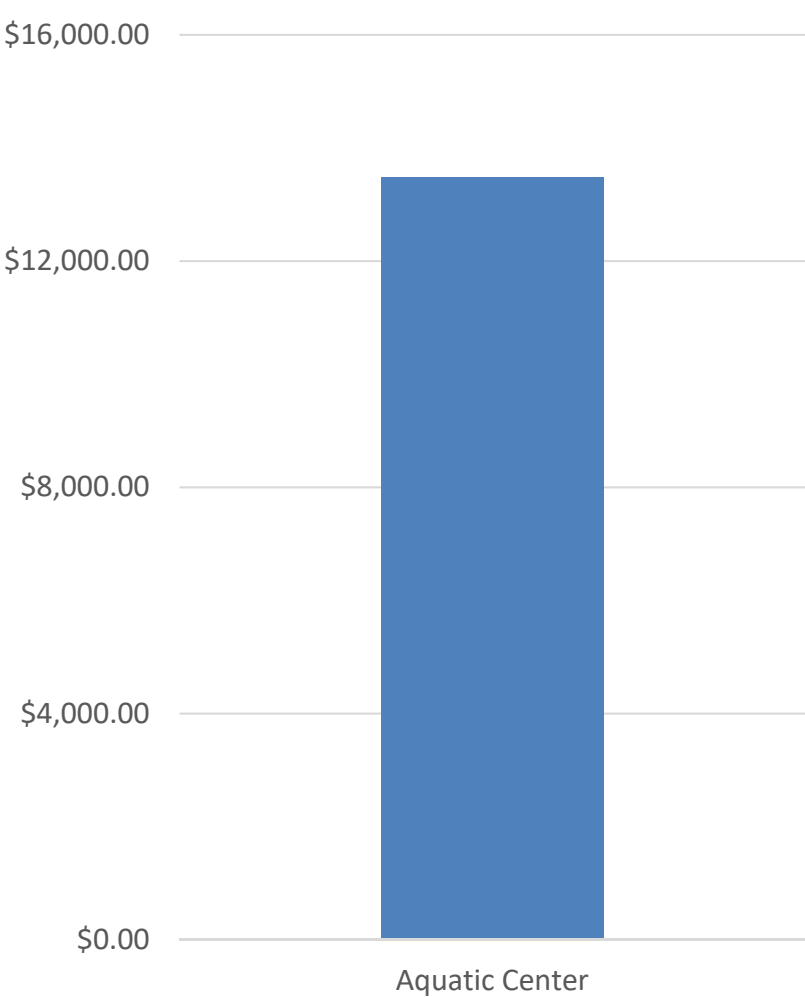
### 2019 Storm Sewer Work



2018-2019 Snow Removal



2019 Aquatic Center





## M&V READINGS





Pre Project Data																Post Lighting Measurement Data													
				Measured by:		Jacob Bradley				Date:		8/19 - 10/19						Measured by:		Jacob Bradley				Date:		8/19 - 10-19			
				Meter Model #		Fluke				Serial #								Meter Model #		Fluke				Serial #					
Pre LN #	Room	FC range	Rm Qty	Pre Retrofit Measurements											FC range	Rm Qty	Post Retrofit Measurements								Projected			Actual Savings	Actual/ Proposed Savings
				Fixture Type	Calculated Watts	Qty	Total Bulbs	Dead Lmps	Watts Per Lamp	Volts	Amps	Watts	Adjusted Watts	% of Calc			Notes + Pnl ID	Fixture Type	Calculated Watts	Qty	Volts	Amps	Watts	% of Calc	Pre	Post	Savings		
	CITY HALL																												
	118	72-69	6	2 F32T8												70-65	6	2 TLEDL											
	118			2 F32T8	58	6	12	1	29	121.1	2.2	266.42	295.42	85%				2 TLEDL	26	6	121.2	1.2	145.44	93%	348	156	192	149.98	78%
	113	44-38	4	2 F32T8												58-47	4	2 TLEDL											
	113			2 F32T8	58	4	8	0	29	120.8	1.5	181.2	181.2	78%				2 TLEDL	26	4	121.3	0.8	97.04	93%	232	104	128	84.16	66%
	114	88-73	3	2 F32T8												70-60	3	2 TLEDL											
	114			2 F32T8	58	3	6	0	29	121.1	1.2	145.32	145.32	84%				2 TLEDL	26	3	121.1	0.6	72.66	93%	174	78	96	72.66	76%
	107	80-70	6	2 F32T8												73-69	6	2 TLEDL											
	107			2 F32T8	58	6	12	0	29	121.6	2.4	291.84	291.84	84%				2 TLEDL	26	6	122.1	1.2	146.52	94%	348	156	192	145.32	76%
	103	66-56	6	2 F32T8												52-42	6	2 TLEDL											
	103			2 F32T8	58	6	12	0	29	121.8	2.3	280.14	280.14	81%				2 TLEDL	26	6	122.7	1.2	147.24	94%	348	156	192	132.9	69%
	125	33-28	4	2 F32T8												40-34	4	2 TLEDL											
	125			2 F32T8	58	4	8	0	29	121.8	1.3	158.34	158.34	68%				2 TLEDL	26	4	122.1	0.8	97.68	94%	232	104	128	60.66	47%
	124	61-50	4	2 F32T8												50-43	4	2 TLEDL											
	124			2 F32T8	58	4	8	0	29	121.7	1.5	182.55	182.55	79%				2 TLEDL	26	4	122	0.8	97.6	94%	232	104	128	84.95	66%
	COMMUNITY CENTER																												
	Ice Rink	42-28	55	6 F32T8												60-75	55	178W LED HB											
	BRK #2			6 F32T8	225	1	6	3	37.5	123.2	0.9	110.88	223.38	99%				178W LED HB	176	1	123.9	1.4	173.46	99%	225	176	49	49.92	102%
	BRK #4			6 F32T8	225	1	6	3	37.5	123.5	1.2	148.2	260.7	116%				178W LED HB	176	1	123.2	1.6	197.12	112%	225	176	49	63.58	130%
	BRK #8			6 F32T8	225	4	24	3	37.5	123.1	5.8	713.98	826.48	92%				178W LED HB	176	4	123.9	5.7	706.23	100%	900	704	196	120.25	61%
	BRK #10			6 F32T8	225	4	24	0	37.5	123.3	6.6	813.78	813.78	90%				178W LED HB	176	4	123.7	6	742.2	105%	900	704	196	71.58	37%
	BRK #12			6 F32T8	225	4	24	3	37.5	124.5	6.2	771.9	884.4	98%				178W LED HB	176	4	124	5.8	719.2	102%	900	704	196	165.2	84%
	BRK #14			6 F32T8	225	4	24	10	37.5	123.1	4.3	529.33	904.33	100%				178W LED HB	176	4	123.9	5.8	718.62	102%	900	704	196	185.71	95%
	BRK #16			6 F32T8	225	4	24	1	37.5	123.4	7.3	900.82	938.32	104%				178W LED HB	176	4	123.3	5.8	715.14	102%	900	704	196	223.18	114%
	BRK #18			6 F32T8	225	4	24	3	37.5	124.3	6.4	795.52	908.02	101%				178W LED HB	176	4	124	5.8	719.2	102%	900	704	196	188.82	96%





Pre LN #	Room	FC range	Rm Qty	Pre Retrofit Measurements											FC range	Rm Qty	Post Retrofit Measurements										Projected			Actual Savings	Actual/ Proposed Savings
				Fixture Type	Calculated Watts	Qty	Total Bulbs	Dead Lmps	Watts Per Lamp	Volts	Amps	Watts	Adjusted Watts	% of Calc			Notes + PnJ ID	Fixture Type	Calculated Watts	Qty	Volts	Amps	Watts	% of Calc	Pre	Post	Savings				
	BRK #20			6 F32T8	225	4	24	5	37.5	124.2	5.5	683.1	870.6	97%				178W LED HB	176	4	124	5.9	731.6	104%	900	704	196	139	71%		
	BRK #22			6 F32T8	225	4	24	0	37.5	123.5	7	864.5	864.5	96%				178W LED HB	176	4	123.6	6	741.6	105%	900	704	196	122.9	63%		
	BRK #24			6 F32T8	225	4	24	4	37.5	124.5	6.4	796.8	946.8	105%				178W LED HB	176	4	123.1	5.9	726.29	103%	900	704	196	220.51	113%		
	BRK #26			6 F32T8	225	4	24	4	37.5	123.2	6.5	800.8	950.8	106%				178W LED HB	176	4	124	6.1	756.4	107%	900	704	196	194.4	99%		
	BRK #32			6 F32T8	225	3	18	0	37.5	123.1	5.5	677.05	677.05	100%				178W LED HB	176	3	123.9	4.2	520.38	99%	675	528	147	156.67	107%		
	BRK #34			6 F32T8	225	2	12	3	37.5	123.6	2.8	346.08	458.58	102%				178W LED HB	176	2	124	2.9	359.6	102%	450	352	98	98.98	101%		
	BRK #36			6 F32T8	225	2	12	1	37.5	124.6	3	373.8	411.3	91%				178W LED HB	176	2	124.1	2.8	347.48	99%	450	352	98	63.82	65%		
	SW Left			6 F32T8	225	3	16	0	37.5	123	5.6	688.8	688.8	102%				178W LED HB	176	3	122.4	4.4	538.56	102%	675	528	147	150.24	102%		
	SW Right			6 F32T8	225	3	18	0	37.5	122.4	5.6	685.44	685.44	102%				178W LED HB	176	3	122.6	4.3	527.18	100%	675	528	147	158.26	108%		
	**High 5.9- Middle 4.4 Low 1.5 ** (4) Fixtures																														
	Hall Locker Area	18-73	7	4 F32T8												20-80	7	4 TLEDL LW													
	Hall Locker Area			4 F32T8	114	3	12	5	28.5	124.1	1.6	198.56	341.06	100%				4 TLEDL LW	44	3	124.2	1	124.2	94%	342	132	210	216.86	103%		
	Hall Locker Area			4 F32T8	114	4	16	4	28.5	124.2	3.1	385.02	499.02	109%				4 TLEDL LW	44	4	124.4	2	248.8	141%	456	176	280	250.22	89%		
	Locker Rooms	22-44	10	4 F32T8												23-41	10	4 TLEDL													
	Locker Room #1			4 F32T8	114	2	8	0	28.5	123.7	1.8	222.66	222.66	98%				4 TLEDL	52	2	123.4	0.7	86.38	83%	228	104	124	136.28	110%		
	Locker Room #2			4 F32T8	114	2	8	0	28.5	123.1	1.8	221.58	221.58	97%				4 TLEDL	52	2	123.8	0.7	86.66	83%	228	104	124	134.92	109%		
	Locker Room Ref			4 F32T8	114	2	8	4	28.5	124.7	0.9	112.23	226.23	99%				4 TLEDL	52	2	123.4	0.7	86.38	83%	228	104	124	139.85	113%		
	Locker Room #3			4 F32T8	114	2	8	0	28.5	124	1.8	223.2	223.2	98%				4 TLEDL	52	2	122.2	0.8	97.76	94%	228	104	124	125.44	101%		
	Locker Room #4			4 F32T8	114	2	8	0	28.5	123.2	1.7	209.44	209.44	92%				4 TLEDL	52	2	122.7	0.7	85.89	83%	228	104	124	123.55	100%		
	Main Entrance	12-53	7	2 F32T8 / 3 F32T8												18-50	7	2 TLEDL LW / 3 TLEDL LW													
	SW Left			2 F32T8	58	1	2	0	29	124.3	1.1	136.73	136.73	96%				2 TLEDL LW	22	1	124.5	0.4	49.8	91%	143	55	88	86.93	99%		
	SW Left			3 F32T8	85	1	3	0	28	-	-							3 TLEDL LW	33	1	124.5	-	-								
	SW Right			3 F32T8	85	6	18	0	28	122.4	4.4	538.56	538.56	106%				3 TLEDL LW	33	6	123.4	1.6	197.44	100%	510	198	312	341.12	109%		
	Restrooms	43-56	4	3 F32T8													4	3 TLEDL													
	Mens RR			3 F32T8	85	2	6	0	28	122.7	2	245.4	245.4	144%				3 TLEDL	39	2	123.4	1.2	148.08	190%	170	78	92	97.32	106%		
	Womens RR			3 F32T8	85	2	6	0	28	122.9	2	245.8	245.8	145%				3 TLEDL	39	2	123.7	1.2	148.44	190%	170	78	92	97.36	106%		



Pre LN #	Room	FC range	Rm Qty	Pre Retrofit Measurements												FC range	Rm Qty	Post Retrofit Measurements										Projected			Actual Savings	Actual/ Proposed Savings
				Fixture Type	Calculated Watts	Qty	Total Bulbs	Dead Lmps	Watts Per Lamp	Volts	Amps	Watts	Adjusted Watts	% of Calc	Notes + Pnl ID			Fixture Type	Calculated Watts	Qty	Volts	Amps	Watts	% of Calc	Pre	Post	Savings					
	Concession Stand	88-47	2	4 F32T8												28-77	2	4 TLEDL														
	Concession Stand			4 F32T8	114	2	8	0	28.5	124.5	1.8	224.1	224.1	98%				4 TLEDL	52	2	124.5	0.7	87.15	84%	228	104	124	136.95	110%			
	2nd Floor	71-38	11													40-76	11	4 TLEDL														
	2nd Floor			4 F32T8	114	11	44	11	28.5	120.7	8.1	977.67	1291.17	103%				4 TLEDL	52	11	120.5	4.5	542.25	95%	1254	572	682	748.92	110%			
	Dance Room (office)	77-90	8	4 F32T8												69-80	8	4 TLEDL														
	Dance Room (office)			4 F32T8	114	8	32	0	28.5	121.2	7.5	909	909	100%				4 TLEDL	52	8	123.7	3.2	395.84	95%	912	416	496	513.16	103%			
	HALLWAY	15-31	5	2 F24T12												28-65	5	2 2' TLEDH k														
	HALLWAY			2 F24T12	79	5	10	0	39.5	123.2	3.1	381.92	381.92	97%				2 2' TLEDH k	21	5	124.3	0.7	87.01	83%	395	105	290	294.91	102%			
	Outdoor		1	150W MH													1	85w LED Wallpack														
	Outdoor			150W MH	179	1	1	0	179	123.9	2	247.8	247.8	138%				85w LED Wallpack	85	1	123.5	0.7	86.45	102%	179	85	94	161.35	172%			
	PUBLIC SAFETY																															
	Mens Locker	30-56	4	3 F32T8												21-63	4	3 TLEDL														
	Mens Locker			3 F32T8	72	4	12	2	24	121.4	4.5	546.3	594.3	206%				3 TLEDL	39	4	122.4	1.1	134.64	86%	288	156	132	459.66	348%			
	RM 149	63-74	2	3 F32T8												44-58	2	3 TLEDL														
	RM 149			3 F32T8	72	2	6	0	24	123.4	1.2	148.08	148.08	103%				3 TLEDL	39	2	123.7	0.6	74.22	95%	144	78	66	73.86	112%			
	RM 148	53-56	4	3 F32T8												60-74	4	3 TLEDL														
	RM 148			3 F32T8	72	4	12	0	24	122	2.5	305	305	106%				3 TLEDL	39	4	123.5	1.1	135.85	87%	288	156	132	169.15	128%			
	RM 147	33-36	2	3 F32T8												55-63	2	3 TLEDL														
	RM 147			3 F32T8	72	2	6	0	24	122.1	1.4	170.94	170.94	119%				3 TLEDL	39	2	123.5	0.6	74.1	95%	144	78	66	96.84	147%			
	RM 157	88-96	12	3 F32T8												61-73	12	3 TLEDL														
	RM 157			3 F32T8	72	12	36	0	24	120.9	8.7	1051.83	1051.83	122%				3 TLEDL	39	12	122.9	3.4	417.86	89%	864	468	396	633.97	160%			
	RM 158	48-86	13	4 F32T8												56-66	13	4 TLEDL HL														
	RM 158			4 F32T8	96	13	60	5	24	119.7	15.7	1879.29	1999.29	160%				4 TLEDL HL	64	13	121.8	6.6	803.88	97%	1248	832	416	1195.41	287%			
	RM 109/Kitchen	35-45	5	2 F24T12												31-47	5	2 2' TLEDH K														
	RM 109/Kitchen			2 F24T12	46	5	10	0	23	122.1	2.3	280.83	280.83	122%				2 2' TLEDH K	21	5	123.3	0.7	86.31	82%	230	105	125	194.52	156%			





Pre LN #	Room	FC range	Rm Qty	Pre Retrofit Measurements												Notes + Pnl ID	FC range	Rm Qty	Post Retrofit Measurements								Projected			Actual Savings	Actual/ Proposed Savings
				Fixture Type	Calculated Watts	Qty	Total Bulbs	Dead Lmps	Watts Per Lamp	Volts	Amps	Watts	Adjusted Watts	% of Calc	Fixture Type				Calculated Watts	Qty	Volts	Amps	Watts	% of Calc	Pre	Post	Savings				
	Truck Room Switch	10-18	22	2 F32T8												20-25	22	2 TLEDH LW R.O.T													
	Breaker 20 Truck Room Switch 1			2 F32T8	48	11	22	0	24	122.1	3.8	463.98	463.98	88%				2 TLEDH LW R.O.T	30	11	122.7	2.5	306.75	93%	528	330	198	157.23	79%		
	Breaker 12 Truck Room Switch 2			2 F32T8	48	11	22	0	24	122.5	3.5	428.75	428.75	81%				2 TLEDH LW R.O.T	30	11	123.1	2.6	320.06	97%	528	330	198	108.69	55%		
	RM 128 Fire	25-50		2 F32T8												33-47	2	2 TLEDL													
	RM 128 Fire			2 F32T8	48	2	4	0	24	122.7	0.7	85.89	85.89	89%				2 TLEDL	26	2	123.5	0.4	49.4	95%	96	52	44	36.49	83%		
	Library																														
	SW-Young Adult	96-114	14	2 F32T8												30-55	14	1X4 BLTR LED 20L / 2X2 BLT LED 20L													
	SW-Young Adult			2 F32T8	58	2	4	0	29	121.4	8.9	1080.46	1108.793	98%				1X4 BLTR LED 20L	15	2	121.7	1.5	182.55	82%	1136	222	914	926.2433	101%		
	SW-Young Adult			3 F32T8	85	12	36	1	28	-	-							2X2 BLT LED 20L	16	12	-	-									
	SW- DVDS	30-59	15	3 F32T8												30-55	15	2X2 BLT LED 20L													
	SW- DVDS			3 F32T8	85	15	45	0	28	122.3	8.9	1088.47	1088.47	85%				2X2 BLT LED 20L	16	15	121.1	1.7	205.87	86%	1275	240	1035	882.6	85%		
	SW- CHILDRENS	32-66	10	3 F32T8												31-43	10	2X4 BLTR LED 40L													
	SW- CHILDRENS			3 F32T8	85	10	30	2	28	122.4	6.3	771.12	827.7867	97%				2X4 BLTR LED 40L	31	10	121.4	1.8	218.52	70%	850	310	540	609.2667	113%		
	SW - CIRCULATION	29-54	9	3 F32T8 / 32W CFL												31-43	9	2X4 BLTR LED 40L / 13W CAN													
	SW - CIRCULATION			3 F32T8	85	5	15	0	28	122.2	4.7	574.34	574.34	102%				2X4 BLTR LED 40L	31	5	120.9	1.3	157.17	76%	565	207	358	417.17	117%		
	SW - CIRCULATION			32W CFL	35	4	4	0	35	-	-							13W CAN	13	4	-	-									
	SW -HIGH CEILING	41-50	12	3 F32T8												38-42	12														
	#28			3 F32T8	85	6	18	1	28	123.3	3.6	443.88	472.2133	93%				2X4 BLTR LED 40L	31	6	120.8	1.4	169.12	91%	510	186	324	303.0933	94%		
	#29			3 F32T8	85	6	18	3	28	122.6	3.2	392.32	477.32	94%				2X4 BLTR LED 40L	31	6	121.5	1.4	170.1	91%	510	186	324	307.22	95%		
	SW -NON FICTION	96-114	36	2 F32T8 / 3 F17T8												26-53	32	1X4 BLTR LED 20L													
	#18			2 F32T8	58	17	34	4	29	121.7	7.4	900.58	1016.58	103%				1X4 BLTR LED 20L	15	17	121.6	1.7	206.72	81%	986	255	731	809.86	111%		
	#17			2 F32T8	58	15	30	1	29	121.2	8.1	981.72	1010.72	96%				1X4 BLTR LED 20L	15	15	121.7	1.9	231.23	80%	1050	289	761	779.49	102%		
	#17			3 F17T8	45	4	12	0	15	-	-							2x2 BLTR LED 20L	16	4	-	-									
	SW - FAR SIDE	35-52	12	3 F32T8													12	2X4 BLTR LED 40L													
	#16			3 F32T8	85	8	24	2	28	122.9	4.9	602.21	658.8767	97%				2X4 BLTR LED 40L	31	8	121	2.0	242	98%	680	248	432	416.8767	96%		



Pre LN #	Room	FC range	Rm Qty	Pre Retrofit Measurements												FC range	Rm Qty	Post Retrofit Measurements										Projected			Actual Savings	Actual/ Proposed Savings
				Fixture Type	Calculated Watts	Qty	Total Bulbs	Dead Lmps	Watts Per Lamp	Volts	Amps	Watts	Adjusted Watts	% of Calc	Notes + Pnl ID			Fixture Type	Calculated Watts	Qty	Volts	Amps	Watts	% of Calc	Pre	Post	Savings					
	#31			3 F32T8	85	4	12	1	28	122.6	2.1	257.46	285.7933	84%				2X4 BLTR LED 40L	31	4	121.6	1.0	121.6	98%	340	124	216	164.1933	76%			
	MAIN ENTRY	25-30	35	32W BI-PIN												31-37	16	13W LED CAN														
	MAIN ENTRY			32W BI-PIN	35	16	16	0	35	120.6	6.7	808.02	808.02	144%				13W LED CAN	13	16	118.7	4.5	534.15	257%	560	208	352	273.87	78%			
	112	8-16	15	75W HALOGEN												27-30	15	12W PAR 30														
	SW-1			75W HALOGEN	75	9	9	1	75	121.7	4.7	571.99	646.99	96%				12W PAR 30	12	9	122.1	0.9	109.89	1.0175	675	108	567	537.1	95%			
	SW-2			75W HALOGEN	75	6	6	0	75	122.3	3.4	415.82	415.82	92%				12W PAR 30	12	6	123	0.5	61.5	0.854167	450	72	378	354.32	94%			
	#18	57-73	6	3 F32T8 / 3 F32T8												65-79	6	2 TLEDUH T / 2 TLEDUH T														
	#18			3 F32T8	85	8	24	4	28	123	8.9	1094.7	1208	102%				2 TLEDUH T	31	8	122.4	3.8	465.12	107%	1190	434	756	742.9133	98%			
	#18			3 F32T8	85	6	18	0	28	-	-							2 TLEDUH T	31	6	-	-										
	#20	57-73	6	3 F32T8												65-79	6	2 TLEDUH T														
	#20			3 F32T8	85	18	54	2	28	121.6	12.7	1544.32	1601	105%				2 TLEDUH T	31	18	121.8	4.9	596.82	107%	1530	558	972	1004.167	103%			
	#10	18-73	20	32W CFL CAN / 3 F32T8 / 3 F32T8												28-79	24	13W LED CAN / 2 TLEDUH T / 2 TLEDUH T														
	#10	18-27		32W CFL CAN	35	16	16	1	35	122.2	11.6	1417.52	1509	122%		28-31		13W LED CAN	13	16	121.5	4.1	498.15	109%	1240	456	784	1011.037	129%			
	#10			3 F32T8	85	6	18	2	28	-	-					65-79		2 TLEDUH T	31	6	-	-										
	#10	57-73		3 F32T8	85	2	6	0	28	-	-							2 TLEDUH T	31	2	-	-										
	#22			3 F32T8												65-79	3	2 TLEDUH T														
	#22			3 F32T8	85	9	27	2	28	122.3	5.8	709.34	766	100%				2 TLEDUH T	31	9	121.5	2.6	315.9	113%	765	279	486	450.1067	93%			
	#24		6	3 F32T8 / 3 F32T8												65-79	6	2 TLEDUH T / 2 TLEDUH T														
	#24			3 F32T8	85	8	24	4	28	123	9.1	1119.3	1233	104%				2 TLEDUH T	31	8	122.4	3.8	465.12	107%	1190	434	756	767.5133	102%			
	#24			3 F32T8	85	6	18	0	28	-	-							2 TLEDUH T	31	6	-	-										
	#3			3 F32T8												65-79	6	2 TLEDUH T														
	#3			3 F32T8	85	12	36	1	28	122.2	8.4	1026.48	1055	103%				2 TLEDUH T	31	12	121.5	3.5	425.25	114%	1020	372	648	629.5633	97%			
	#1		14	3 F32T8 / 32W CFL CAN												65-79	14	2 TLEDUH T / 13W LED CAN														
	#1			3 F32T8	85	12	36	0	28	121.6	10.6	1288.96	1324	102%				2 TLEDUH T	31	12	121.9	4	487.6	102%	1300	476	824	836.36	102%			
	#1			32W CFL CAN	35	8	8	1	35	-	-							13W LED CAN	13	8	-	-										





Pre LN #	Room	FC range	Rm Qty	Pre Retrofit Measurements											Notes + Pnl ID	FC range	Rm Qty	Post Retrofit Measurements							Projected			Actual Savings	Actual/ Proposed Savings
				Fixture Type	Calculated Watts	Qty	Total Bulbs	Dead Lmps	Watts Per Lamp	Volts	Amps	Watts	Adjusted Watts	% of Calc				Fixture Type	Calculated Watts	Qty	Volts	Amps	Watts	% of Calc	Pre	Post	Savings		
	#5		9	3 F32T8 / 32W CFL CAN												28-31	9	2 TLEDUH T / 13W LED CAN											
	#5			3 F32T8	85	16	48	2	28	123	11	1353	1410	101%				2 TLEDUH T	31	16	122.4	4.4	538.56	106%	1395	509	886	871.1067	98%
	#5			32W CFL CAN	35	1	1	0	35	-	-							13W LED CAN	13	1	-	-							
	#7		9	32W CFL CAN / 3 F32T8												28-31	9	13W LED CAN / 2 TLEDUH T											
	#7			32W CFL CAN	35	1	1	0	35	121.6	11	1337.6	1451	104%				13W LED CAN	12	1	121.8	4.5	548.1	108%	1395	508	887	902.8333	102%
	#7			3 F32T8	85	16	48	4	28	-	-							2 TLEDUH T	31	16	-	-							
Totals						494				8,829.8	350.0	42,826.8	42,826.76	95%					494			22,657.1	101%	45,158	22,323	22,835	23,832	104%	



## AGENDA SUMMARY SHEET

**MEETING DATE:** 12/10/19

**TITLE:** [Approve Salt Reduction Strategy]

**AGENDA SECTION:** [Consideration - Action]

**PRESENTER:** [Jeff Daane]

DEPARTMENT GOAL(S) SUPPORTED <i>(if applicable)</i>	FISCAL IMPACT	\$ [Enter]
[EnterGoals]	Estimated savings \$17,000	

**ISSUE SUMMARY:**

Due to increased salt costs and environmental impact we will continue to spray salt brine on all street and lots when the chance of snow is 50% or greater.

We would continue to salt main and secondary streets as normal. The residential streets would get the intersections, hills, and curves salted during most snow events.

This strategy would cut about 4-5 ton of salt per event. Last year the City salted 32 times and plowed 17 times. Depending on the number of times the City plows and salts, the City could cut back about 200 ton or 1/3 of the amount that we use in the winter season.

**STAFF RECOMMENDATION:**

Conserve salt and lessen the environmental impact, while continuing to keep the city streets safe.

**ATTACHMENTS:**

[Fond du Lac County E-Mail  
Fond du Lac County Memo]

**RECOMMENDED MOTION:**

Reduce the amount of salt used on residential streets by salting only intersections, hills and curves during most snow events.

## Jeff Daane

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**From:** Myers, Mary Jo <maryjo.myers@fdlco.wi.gov>  
**Sent:** Friday, November 1, 2019 8:27 AM  
**To:** Jeff Daane  
**Cc:** Sabel, Joe  
**Subject:** RE: Salt brine

Hi Jeff,

Looking at the average delivery times from last winter this is what the costs seem to be averaging.

- Sat Brine Cost - \$0.19/Gallon (this per gallon price will stay the same for the season)
- Delivery Cost - \$190 per trip

The delivery cost will fluctuate slightly as we bill actual hours and I did an average based on the deliveries from Jan – March of this year. Let me know if you have any questions.

Regards,

Mary Jo Myers  
Highway Accounting Manager  
Fond du Lac County Highway Commission  
920.929.3489  
maryjo.myers@fdlco.wi.gov

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**From:** Jeff Daane <jeff@cityofwaupun.org>  
**Sent:** Friday, November 01, 2019 6:11 AM  
**To:** Myers, Mary Jo <maryjo.myers@fdlco.wi.gov>  
**Subject:** Salt brine

Good Morning Mary Jo,  
Do you know what the salt brine price delivered will be for us this year?

Thanks

Jeff Daane  
Director of Public Works  
City of Waupun  
[jeff@cityofwaupun.org](mailto:jeff@cityofwaupun.org)  
Office (920) 324-7918  
Cell (920) 210-8200  
Fax (920) 324-7939



# Fond du Lac County

## OFFICE OF THE COUNTY HIGHWAY COMMISSION

301 Dixie Street, P.O. Box 1234, Fond du Lac, WI 54936-1234

August 1, 2019

**TO: ALL MUNICIPALITIES PURCHASING SALT OR SAND/SALT FROM FDL COUNTY**

**SUBJECT: SALT FOR THE 2019-2020 WINTER SEASON**

The prices for salt and sand/salt for the 2019-2020 winter season are listed below.

	2019-2020 State Contract Cost Per Ton	Cost with 2019 Admin Fee Per Ton	Cost with 2020 Admin Fee Per Ton
Sand/salt picked up from FDL County by municipality	\$ 37.05	\$ 38.74	\$ 38.76
Salt picked up from FDL County by municipality	\$ 86.11	\$ 90.04	\$ 90.09
Salt direct delivery by vendor	\$ 82.01	\$ 85.75	\$ 85.80

All invoices will carry a fee to recover our administrative support costs. The statewide rate is currently 4.56% for 2019 and is expected to be 4.62% for 2020.

Please note that the price for salt picked up from our locations reflects the costs associated with storing and handling the salt and sand/salt.

All salt and sand/salt picked up at the Dixie Street location shall be weighed. This ensures accurate tonnage and it will prevent over-charges or under-charges. Drivers must stop in at the front office and fill out a **WEIGHT TICKET**. The bottom copy (**GOLDENROD**) remains in the front office. After loading and weighing-(both empty and full), the **PINK** copy is kept by the driver. The **WHITE** and **YELLOW** copy remains at the scale or with the loader man.

Salt loaded from the County satellite garages, Brandon, Mt. Calvary and Campbellsport must be loaded by a Fond du Lac County employee. Weight tickets shall be made out for each load of salt and weighed where possible. The salt loaded shall be calculated by bucket weight when a scale is not available. The bucket weights are as follows:

Loader #302 (Brandon)	3 ton per bucket
Loader #313 (Mt Calvary)	3 ton per bucket
Backhoe Loader #320 (Mt Calvary)	1.25 ton per level bucket
Loader #315 (Campbellsport)	1.25 ton per level bucket
Loader #318 (Campbellsport)	3 ton per bucket