



BOARD OF WATERWORKS COMMISSIONERS AGENDA

August 22, 2022 at 3:30 PM

Water Utility Admin Office, 72 Park Avenue, Sheboygan WI

Persons with disabilities who need accommodations to attend this meeting should contact the Sheboygan Water Utility, (920) 459-3805. Persons other than commission, committee, and board members who wish to participate remotely shall provide notice to the Utility at 920-459-3805 at least 24 hours before the meeting so that the person may be provided a remote link for that purpose.

OPENING OF MEETING

1. Pledge of Allegiance

MINUTES

2. Approve minutes of the July 18, 2022 meeting

REPORTS

- [3.](#) Financial reports and approval of vouchers
- [4.](#) Superintendent's report including operations, construction-maintenance, and customer relations/fiscal

ITEMS FOR DISCUSSION AND POSSIBLE ACTION

5. Request approval of proposed 2023 preliminary Water Utility budget
6. Request approval to purchase NEOGOV Perform module
7. Review ETF Board employer determination

PERSONNEL

8. Update on distribution tech recruitment

NEXT MEETING

9. Next meeting will take place on: September 19, 2022

ADJOURN

10. Motion to Adjourn

In compliance with Wisconsin's Open Meetings Law, this agenda was posted in the following locations more than 24 hours prior to the time of the meeting:

City Hall • Mead Public Library
Sheboygan County Administration Building • City's website



REPORT OF BILLING

JULY 2022

	<u>2022</u>	<u>2021</u>	Increase or (Decrease)
<u>Quarterly Metered*</u>			
(Dist II - between Union and Superior Ave.)			
Residential	201,097.63	193,380.73	7,716.90
Multi-Family	26,605.89	25,599.08	1,006.81
Commercial	69,238.40	64,321.32	4,917.08
Industrial	5,298.13	5,148.18	149.95
Public	13,576.28	13,145.98	430.30
Subtotal	315,816.33	301,595.29	14,221.04
Public Fire Protection	70,109.70	67,912.44	2,197.26
Monthly Metered	413,607.81	341,025.23	72,582.58
Sheboygan Net	799,533.84	710,532.96	89,000.88
Sheboygan Falls	66,555.70	66,580.40	(24.70)
Kohler	40,655.74	32,504.20	8,151.54
Total	906,745.28	809,617.56	97,127.72

* Billing for scheduled district only for the three preceding months usage.

Total accumulative billing for 2022 is \$5,755,828.53. An increase of \$424,823.50 from 2021 accounted for as follows:

	<u>2022-Total Year to Date</u>
Sheboygan	421,384.45
Sheboygan Falls	(11,150.79)
Kohler	14,589.84
	<u>424,823.50</u>

Total bills mailed July, 2022: 6,416

Residential	5,334	Multi-Family	9
Multi-Family	111	Commercial	22
Commercial	774	Industrial	67
Industrial	36	Public	8
Public	55		
Quarterly	6,310	Monthly	106



RETURN ON RATE BASE

July 31, 2022

	JULY 2022	JULY 2021
<u>Add 2 YR Average</u>		
Utility Plant Balance	\$ 71,785,097	\$ 68,087,051
Materials and Supplies Inventory	\$ 291,705	\$ 311,399
<u>Less 2 YR Average</u>		
Reserve for Depreciation	\$ 24,593,093	\$ 23,100,732
Customer Adv for Const	\$ 4,776,564	\$ -
Average Rate Base	<u>\$ 42,707,146</u>	<u>\$ 45,297,717</u>
Net Operating Income YTD	\$ 1,113,225	\$ 740,603
Net Operating Income As a Percent of Average Net Rate Base	<u>2.61%</u>	<u>1.63%</u>

Rate base is calculated using the two year average balance in the following accounts:

Utility Plant Balance - includes all capital assets less any contributed capital assets.

Materials and Supplies Inventory - includes all materials and supplies on hand and in inventory.

Reserve for Depreciation - includes depreciation on capital assets less any contributed capital assets.



CASH RESERVE

July 31, 2022

Ending balance on report for June 30, 2022	<u>16,019,102.33</u>
Plus: Receipts	490,448.92
Misc Receipts	4,704.91
Direct Pay Receipts	417,639.09
Stop Loss Reimbursement	-
Money Market/CDARs Investment Interest	5,860.47
Minus:	
Disbursements - vendors and payroll	(1,164,242.63)
Bank Service Fees	(247.65)
Health & Dental Claims/Adm Costs	(40,585.88)
NSF Checks & Customer Refunds	(1,100.82)
Invoice Cloud/Payementech Deposit Fees	(5,895.57)
Reallocate Sewer/Garbage - payments	81.82
Reallocate Sewer/Garbage - monthly	(214.13)
DNR SDWL Reimbursement - RWI	109,451.96
Record ACA Annual PCORI Fees	(183.54)
Automated Credit Card Payments	(1,475.78)
Postage	(4,105.98)
Utility Water Payments	(11,710.81)
Ending Balance July 31, 2022	<u>\$ 15,817,526.71</u>

Note: The above amount includes:	
Bond Reserve Fund	644,319.88
LSL Revolving Loan Fund	145,347.32
Money Market Investment	3,989,243.28
Health Insurance Restricted Reserve	380,000.00
ARPA Money Market Restricted - RWI	7,523,179.88
BAN Funds for Construction	-
Total	<u>\$ 12,682,090.36</u>
General Unrestricted Operating Cash	3,135,436.35



STATEMENT OF NET POSITION
JULY 31, 2022 AND 2021

<u>Assets and Other Debits Utility Plant</u>	<u>Year to Date 2022</u>	<u>Year to Date 2021</u>	<u>Liabilities and Other Credits</u>	<u>Year to Date 2022</u>	<u>Year to Date 2021</u>
			<u>Proprietary Capital</u>		
Utility Plant	81,178,926	78,265,383	Capital Paid by Municipal	1,640,701	1,640,701
Depreciation- Utility Plant	27,283,588	25,762,522	Unapprop. Earned Surplus	57,364,955	45,735,575
Net Utility Plant	<u>\$ 53,895,338</u>	<u>\$ 52,502,861</u>	Total Proprietary Capital	<u>\$ 59,005,656</u>	<u>\$ 47,376,276</u>
<u>Other Property and Investments</u>			Bonds, Loans & Advances	11,226,674	12,624,174
Appropriated Funds ⁴	8,048,527	1,443,420	Total Long Term Debt	<u>\$ 11,226,674</u>	<u>\$ 12,624,174</u>
Bond Redemption Fund	644,320	668,414			
Net Pension Asset ¹	769,762	411,147	<u>Current & Accrued Liabilities</u>		
Deferred Outflow - Pension & OPEB ¹	1,402,233	1,038,866	Accounts Payable	-	483
Total Other Prop & Investment	<u>\$ 10,864,842</u>	<u>\$ 3,561,847</u>	Accrued Liabilities	783,003	798,984
			Total Current & Accrued Liab.	<u>\$ 783,003</u>	<u>\$ 799,467</u>
<u>Current and Accrued Assets</u>			<u>Deferred Credits</u>		
Cash & Investments	7,125,430	5,277,309	Bond Premium	164,170	200,039
Accounts Receivable	1,428,108	1,446,667	Pre 2003 Depr on Contributed Assets	35,560	60,694
LSL Loan Receivable ³	244,578	73,160	Other Deferred Credits ³	0	0
Grant Receivable - Restricted ²	72,232	31,985		<u>\$ 199,730</u>	<u>\$ 260,733</u>
Materials & Supplies Inventory	295,453	287,958	<u>Operating Reserves</u>		
Prepaid Expenses	3,987	30,099	Net Pension & OPEB Liability ¹	357,040	324,886
Total Current & Accrued Assets	<u>\$ 9,169,789</u>	<u>\$ 7,147,177</u>	Deferred Inflow - Pension & OPEB ¹	1,752,555	1,260,697
Total Assets and Debits	<u>\$ 73,929,969</u>	<u>\$ 63,211,885</u>	Accrued Vac & Sick Leave	605,311	565,652
			Total Operating Reserve	<u>\$ 2,714,906</u>	<u>\$ 2,151,235</u>
			Total Liab & Other Credits	<u>\$ 73,929,969</u>	<u>\$ 63,211,885</u>

¹ See full audited Financial Statements for disclosures and details regarding pensions and OPEB.

² Grants Receivable - Restricted pertains to the Lead Water Service Lateral Replacement Program funded by the DNR.

³ Receivable related to the SWU LSL loan program.

⁴ Appropriated funds include \$9,550,000 in American Rescue Plan Act funding designated to the Raw Water Improvement project.



STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

JULY 31, 2022 AND 2021

	2022		2021		Incr (Decr)	% Incr/Decr
	MONTH	YTD	MONTH	YTD	YTD	YTD
Sales Revenue ¹	\$ 918,732	\$ 5,502,276	\$ 814,904	\$ 5,033,363	\$ 468,913	9.32%
Other Water Revenue ²	\$ 4,330	\$ 34,371	\$ 5,003	\$ 33,088	\$ 1,282	3.88%
Total Operating Revenues	\$ 923,062	\$ 5,536,647	\$ 819,907	\$ 5,066,451	\$ 470,196	9.28%
Operating Expenses ³	300,941	2,293,294	362,792	2,163,574	129,720	6.00%
Maintenance Expenses ⁴	37,174	482,345	83,406	517,543	(35,198)	-6.80%
Depreciation Expenses	130,613	932,904	129,921	927,621	5,283	0.57%
Taxes	105,990	714,879	107,597	717,110	(2,231)	-0.31%
Total Operating Expenses	\$ 574,718	\$ 4,423,421	\$ 683,715	\$ 4,325,848	\$ 97,573	2.26%
Utility Operating Income	\$ 348,344	\$ 1,113,226	\$ 136,192	\$ 740,603	\$ 372,623	50.31%
Other Income & Expense						
Non-operating Grant Revenue	4,338	63,982	-	31,985	31,997	
Non-Operating Grant Expenses	(4,338)	(63,982)	(2,500)	(2,500)	(61,482)	
Bond Premium	(311)	17,623	2,989	20,923	(3,300)	
Interest Earned on Investments	5,987	17,342	338	8,597	8,745	
Contributions ⁵	-	9,553,128	-	-	9,553,128	
Other Expense	(40)	(515)	-	(475)	(40)	
Misc Amortization	2,094	14,661	2,094	14,661	-	
Bond Interest Expense	(25,033)	(177,536)	(27,359)	(191,604)	14,068	
Change in Net Position	\$ 331,042	\$ 10,537,929	\$ 111,754	\$ 622,191	\$ 9,915,739	

¹ The increase in Sales Revenue is due to a rate increase that was implemented February 1, 2022.

² The increase in Other Revenues is due to a final settlement received in 2022 for the purchase of liquid alum.

³ The increase in Operating Expense is due to an increase in energy and chemical costs, UV treatment and sludge removal costs, consulting costs, and an increase in salaries over 2021.

⁴ The decrease in 2022 Maintenance Expense is due to reservoir maintenance and work on the Georgia Avenue standpipe in 2021.

⁵ The Contribution is 2022 American Rescue Plan Act funding designated to the Raw Water Improvement Project.



APPROVAL OF VOUCHERS
July 31, 2022

<u>Total Of The General Vouchers</u>	<u>\$ 990,972.78</u>
<u>Gross Payroll</u>	<u>\$ 184,873.39</u>
<u>Net Payroll</u>	<u>\$ 112,985.87</u>

BOARD OF WATER COMMISSIONERS

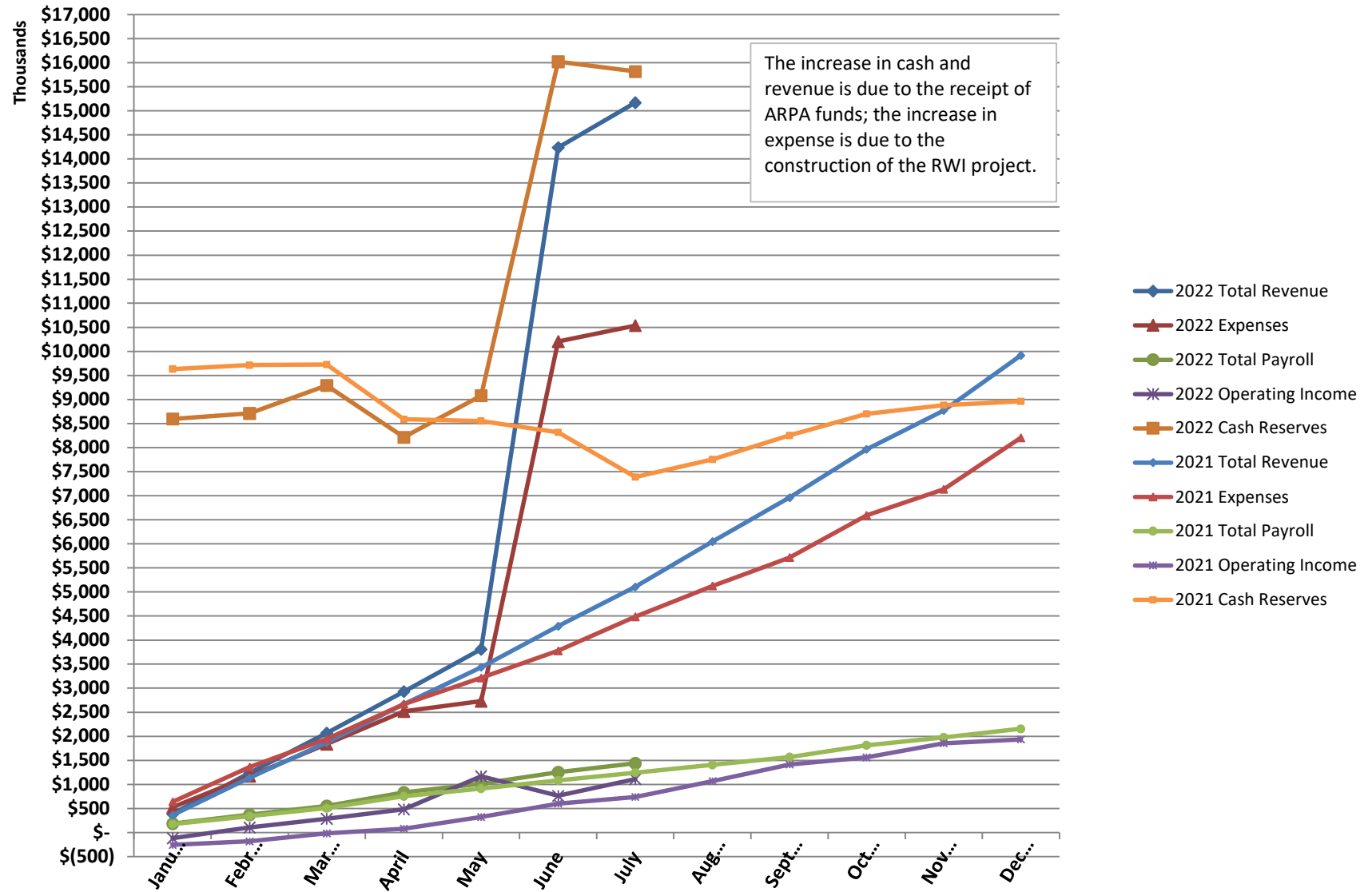
 PRESIDENT

 SECRETARY

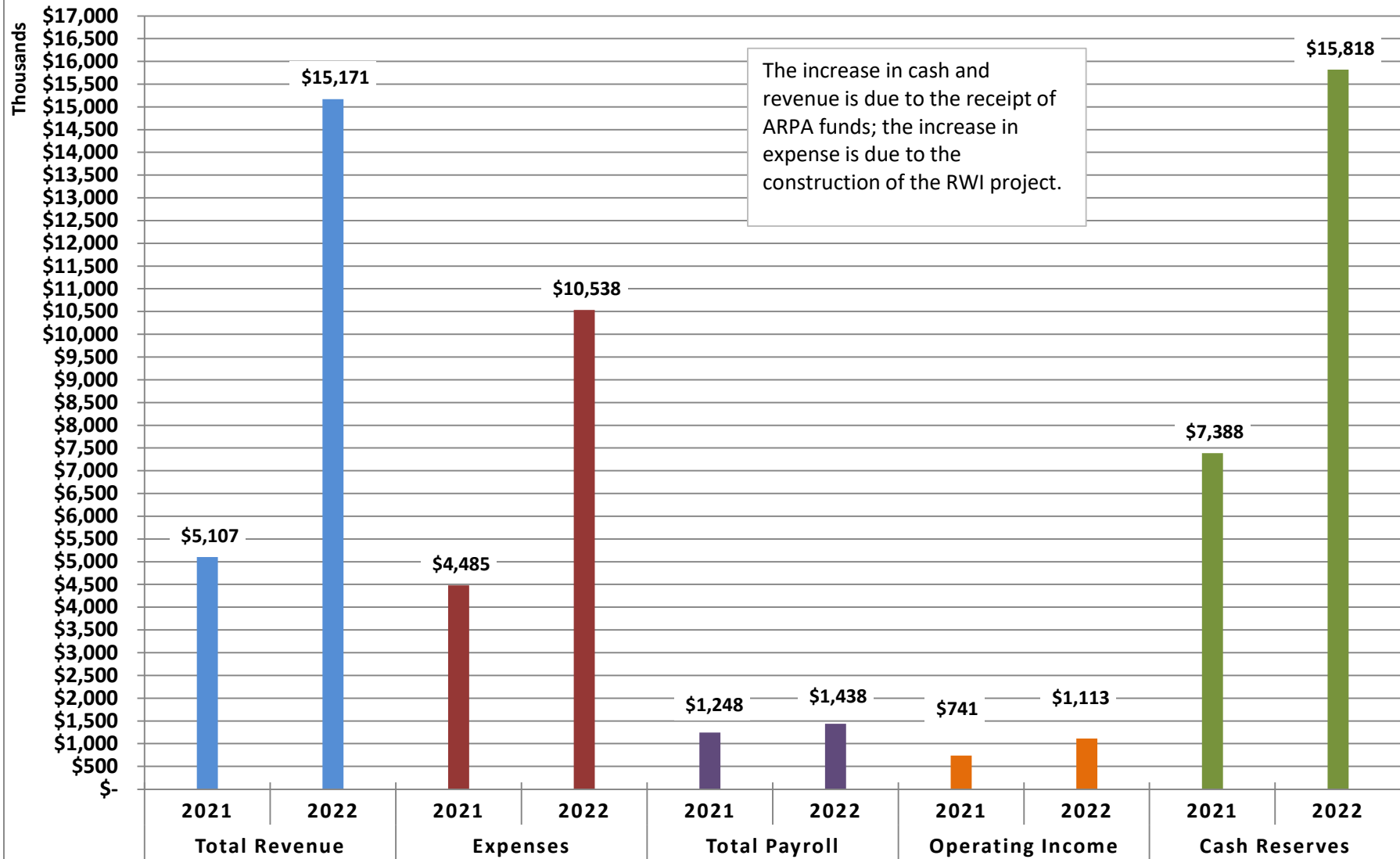
 MEMBER

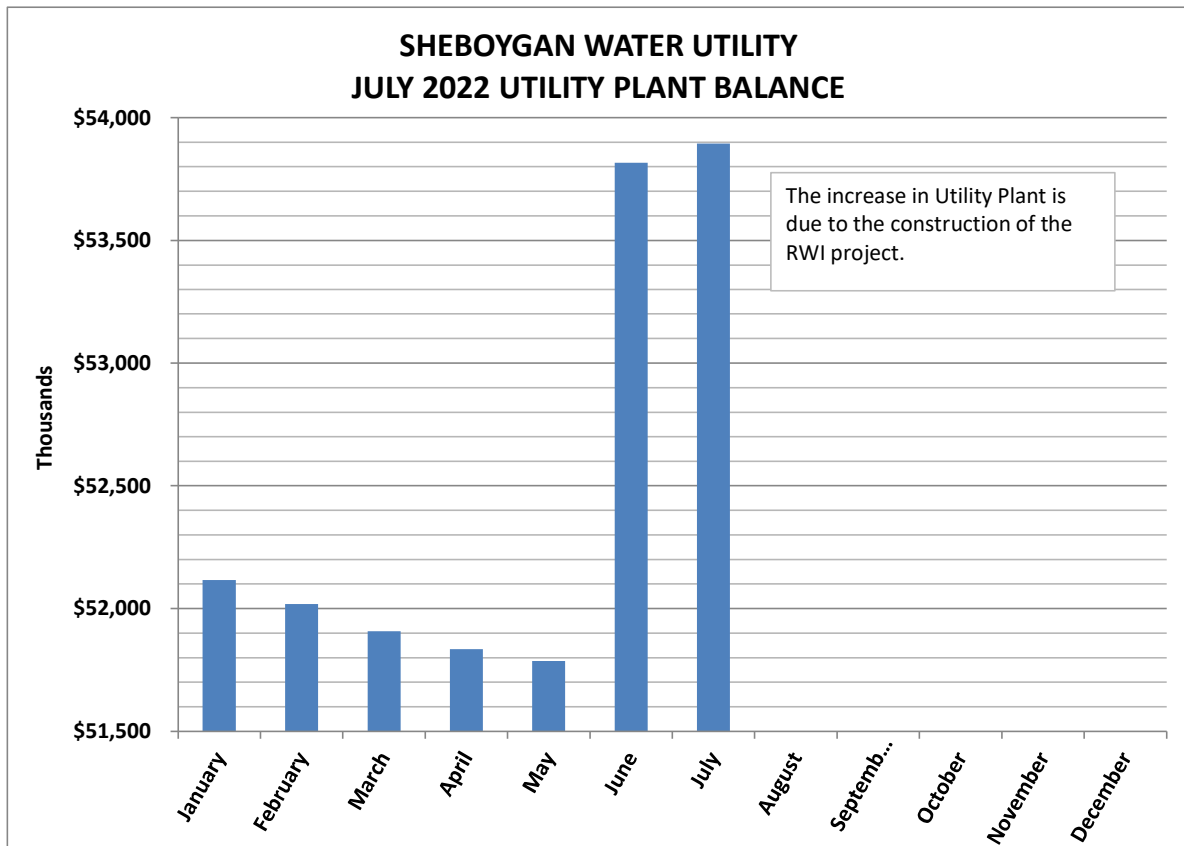
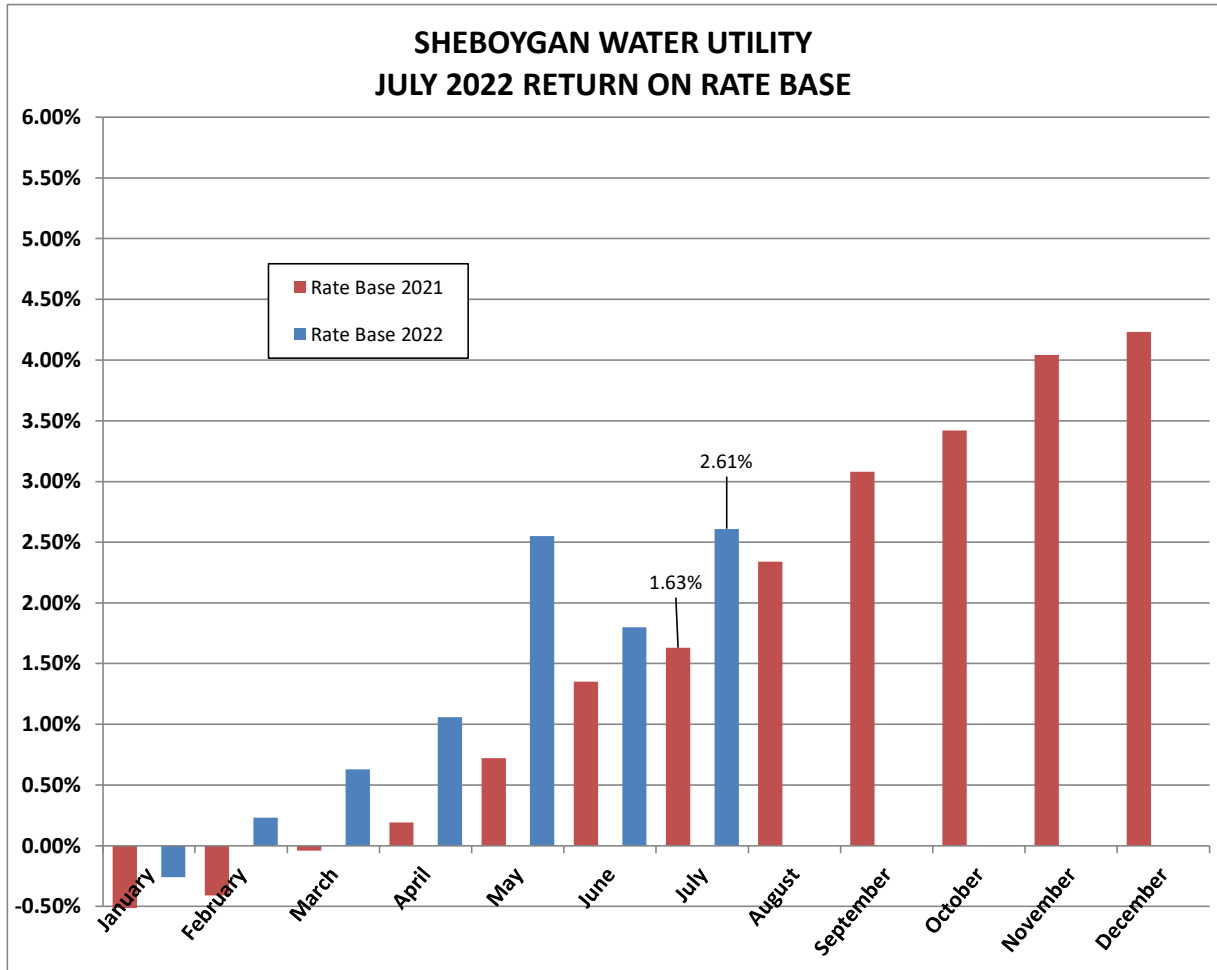
 SUPERINTENDENT

SHEBOYGAN WATER UTILITY JULY 2022 MONTHLY FINANCIAL TREND



SHEBOYGAN WATER UTILITY JULY 2022 YTD FINANCIAL POSITION







MONTHLY CONSTRUCTION-MAINTENANCE DEPARTMENT REPORT

July 2022

Distribution System Maintenance:

- Saw cut and removed concrete for water main installation on St. Clair Avenue.
- Installed 8" PVC water main on St. Clair Avenue from 12th to 13th St.
- Completed pressure and bacteriological testing on new water main.
- Completed transmission main valve manhole repairs on St. Clair Avenue and N 11th St.
- Completed copper reconnect of customer on the water main job.
- Disassembled temporary water system.
- Continued pouring permanent service repair holes for the season.
- Hauled in fill to replenish stock.

Building/Grounds Maintenance:

- General shop maintenance and cleaning.

Water Quality:

- Monitored and adjusted auto flushers in the system.
- Continued weekly/monthly dead end hydrant flushing.

Taps:

- 1" tap at 2003 N 10th St. Lead Service was removed from the system.

Equipment Maintenance:

- Performed routine maintenance and repairs on construction equipment and vehicle fleet.

Distribution System -- July 2022

Street Valves and Hydrant Valves Installed (including water main projects and others)

Location	Date Installed	Size ("), Jt	Installed By	Type
St. Clair Ave at N.13th St.	7/5/2022	8" MJ	SWU	G (vert)
St. Clair Ave and N.13th St. (NE)	7/6/2022	6" MJ	SWU	G (vert)
St. Clair Ave and N.12th St. ~40 North west	7/12/2022	8" MJ	SWU	G (vert)
St. Clair Ave and N.12th St. (NW)	7/12/2022	6" MJ	SWU	G (vert)

Total Valves Installed = 4

Street Valves and Hydrant Valves Removed

Location	Installed	Abandoned	Type
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Total Valves Removed = 0

Street Valves and Hydrant Valves Abandoned

Location	Installed	Abandoned
St. Clair Ave. at N. 12th St. (W)	2/5/1933	7/12/2022

Total Valves Abandoned = 1

Street Valves and Hydrant Valves Maintained

Location	Maintained	Size	By
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Total Valves Maintained = 0

Hydrants Installed (including water main projects and others)

Location	Installed	Tr Size	Valve	By
St. Clair Ave and N.13th St. (NE)	7/6/2022	7'	y	SWU
St. Clair Ave. at N. 12th St. (NE)	7/12/2022	7'	y	SWU

Total Hydrants Installed = 2

Hydrants Removed (including water main projects and others)

Location	Installed	Removed	Hyd Valve?
St. Clair Ave. at N. 12th St. (NE)	3/31/1936	7/12/2022	n

Total Hydrants Removed = 1

Hydrants Abandoned (including water main projects and others)

Location	Installed	Abandoned	Tr Size	Hyd Valve?
----------	-----------	-----------	---------	------------

Total Hydrants Abandoned = 0

Hydrants Maintained/Moved (including water main projects and others)

Location	Installed	Maintained
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Total Hydrants Maintained/Moved = 0

Water Main Breaks

Location	Date	Size
----------	------	------

Number of Water Main Breaks= 0

SUMMARY

Number of feet of 4 inch water main installed	0.0	water main
Number of feet of 6 inch hydrant lead installed	17.6	
Number of feet of 6 inch water main installed	6.8	
Number of feet of 8 inch water main installed	419.4	
Number of feet of 12 inch water main installed	0.0	
Number of feet of 16 inch water main installed	0.0	
Number of feet of 20 inch water main installed	0.0	
Number of feet of 24 inch water main installed	0.0	
Number of feet of water main abandoned or removed	443	hydrants
Number of water main breaks repaired	0	
Number of hydrants installed	2	
Number of hydrants removed or abandoned	1	
Number of hydrants maintained or moved	0	valves
Number of street valves installed	2	
Number of hydrant valves installed	2	
Number of street valves removed or abandoned	1	
Number of hydrant valves removed or abandoned	0	
Number of valves maintained	3	
Number of water connections installed	38	



WATER MAIN AND APPURTENANCES INSTALLATION -- JULY 2022

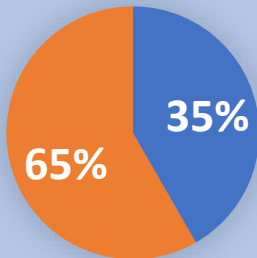
Water Main Projects (including installation or abandonment of more than 3' of pipe by utility or contractors)

Location: 6" Water Main	Installed	New Valves	New Hyd.	New Hyd Valves	Aband. Valves	Aband. Hyd.	Remove Hyd.	Size " Installed	Feet Installed	New Hyd Lead	Size Aband.	Feet. Aband.	Feet. Rem.	By
St. Clair Ave and N.12th St	7/21/2022	0	0	0	0	0	0	6	6.8	0	6" CIP	7	0	SWU
Totals:		0	0	0	0	0	0	6	6.8	0		7	0	

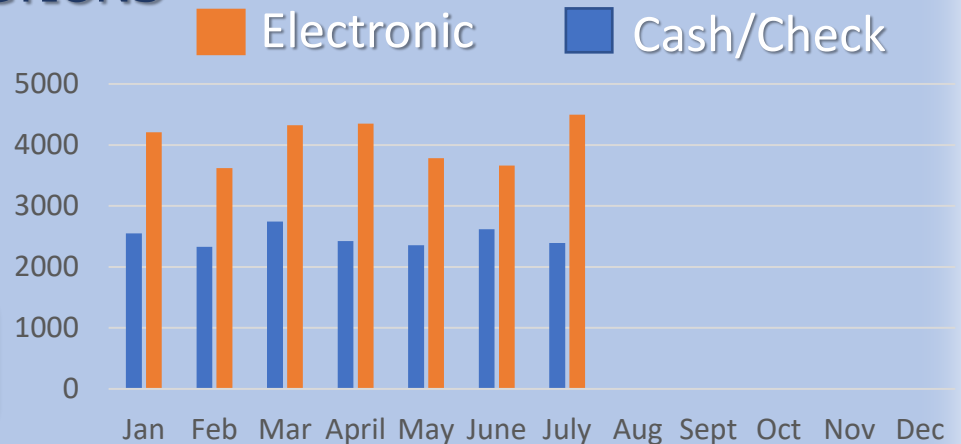
Location: 8" Water Main	Installed	New Valves	New Hyd.	New Hyd Valves	Aband. Valves	Aband. Hyd.	Remove Hyd.	Size " Installed	Feet Installed	New Hyd Lead	Size Aband.	Feet. Aband.	Feet. Rem.	By
St. Clair Ave and N.13th St.	7/5/2022	1	0	0	0	0	0	8	39.8	0	4" CIP	56	0	SWU
St. Clair Ave and N.13th St. (going East)	7/6/2022	0	1	1	0	0	0	8	60	8.3	6" DIP	60	0	SWU
St. Clair Ave between N.13th to N.12th St	7/7/2022	0	0	0	0	0	0	8	100	0	6" CIP	100	0	SWU
St. Clair Ave between N.13th to N.12th St	7/11/2022	0	0	0	0	0	0	8	140	0	6" CIP	140	0	SWU
St. Clair Ave and N.12th St (going west)	7/12/2022	1	1	1	1	0	1	8	48	9.3	6" CIP	48	0	SWU
St. Clair Ave and N.12th St	7/21/2022	0	0	0	0	0	0	8	31.6	0	6" CIP	32	0	SWU
Totals:		2	2	2	1	0	1	48	419.4	17.6	0	436	0	

CUSTOMER RELATIONS & FISCAL SUMMARY

PAYMENT TRANSACTIONS



6,886
Total # of July
Payments Processed



COLLECTIONS District 3

\$1,135,995

Total Billed

\$207,431

Outstanding
After Due Date

1044

Past Due Letters Mailed

95

Disconnection
Letters Mailed

8

Properties Disconnected

\$69,007

Outstanding At
Month End

PAYMENTS BY SOURCE

	July 2021	July 2022
Payment Window <small>(Cash/Check)</small>	371	381
Drop Box Payments	299	286
Electronic Payments	4250	4496
Mail Payments	2013	1723
Total Payments	6933	6886

Payments Returned NSF **17**

UTILITY BILLS



Total Customers Registered
Paperless
1,232

Total July Emailed
Statements
2,591



**JULY
2022**

CUSTOMER RELATIONS & FISCAL SUMMARY

PROPERTY TRANSACTIONS

	July 2021	July 2022
Account Transfers (<i>Finals</i>)	212	196
Property Data Requests	93	85

PSC COMPLAINTS

0 PSC Complaint(s) Filed

ACCOUNTS PAYABLE

195 Invoices Paid

CUSTOMER SERVICE



166

Customer Service Email
Requests Completed



693

USS Calls Answered



40:32

USS Hours
On the Phone



131

Lead ST Calls Completed
(Incoming & Outgoing)



6:51

Lead ST Hours
On the Phone

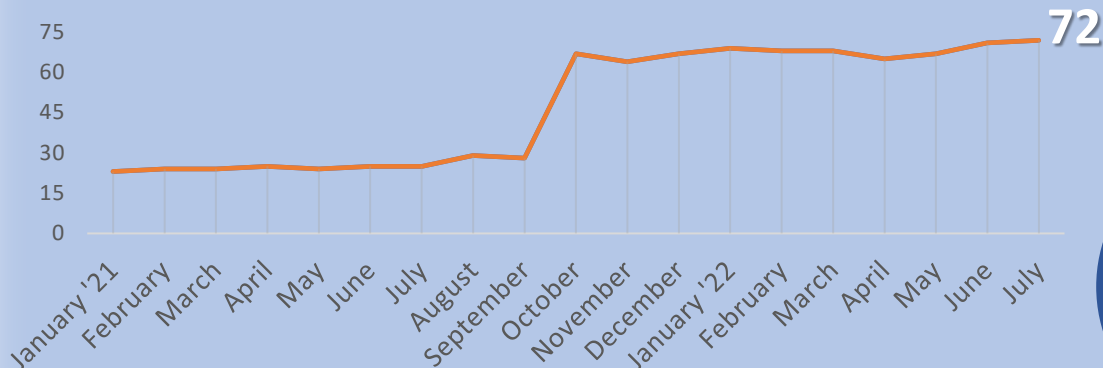
CUSTOMER ASSISTANCE PAYMENTS

Number of Payments Received: **27**

Total Dollars: **\$6,105**

*Payments received from Wisconsin Emergency Rental Assistance Program, LIHWAP, Salvation Army, and St. Vincent DePaul for customer benefit.

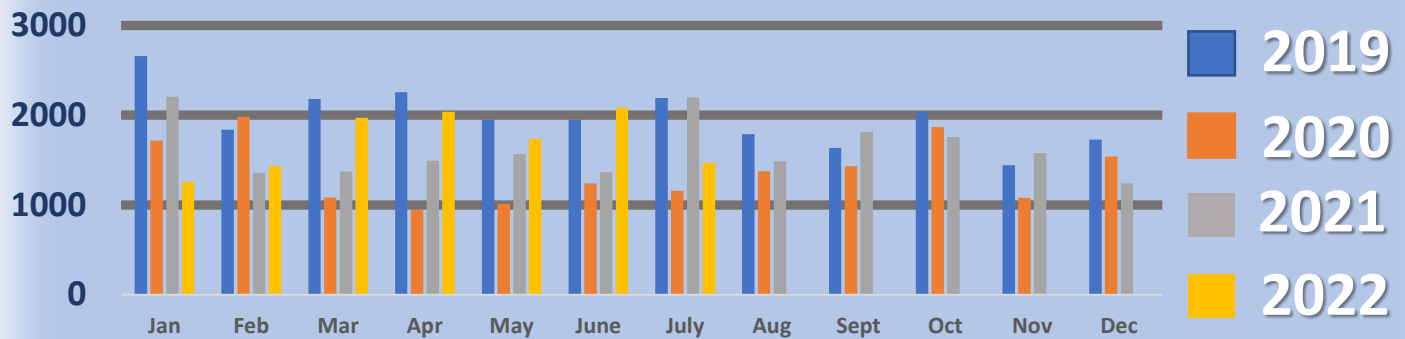
LEAD SERVICE LINE REPLACEMENT ACTIVE LOANS



**JULY
2022**

CUSTOMER RELATIONS & FISCAL SUMMARY

SERVICE TECH MILES DRIVEN



CROSS CONNECTION

1070

Inspections by SWU

Inspections by Hydro Corp



1

Facilities with Compliance Issues

LEAD EDUCATION

17

WDNR Lead in Drinking Water brochures distributed at home visits

TROUBLESHOOTING WORK ORDERS COMPLETED

96

Work orders completed for high consumptions, zero/low, and checks.

LEAK ALLOWANCES ISSUED

1

Customer Requests

27

CCF Allowed @ Reduced Rate



SERVICE LEAKS

0

New Reported Leak(s)

1

Leak(s) Fixed or Off

0

Active Leak(s) Month End

METERS

115

Meters

Installed/Replaced

74

Meters Tested



**JULY
2022**

CUSTOMER RELATIONS & FISCAL SUMMARY

FACEBOOK PAGE



6 July New Followers

742 Total Followers

WEBSITE VISITORS

3,771



2021 Visits in July: 3,107

Top Page Viewed: Pay Your Bill

ADDITIONAL CR/F ACTIVITIES JULY

- ◆ Service Techs continue their work changing out and testing water meters.
- ◆ USS issued bills to District 2 and Monthly customers.
- ◆ Summer sewer usage reduction rate of 10% went into effect.
- ◆ CR/F along with the Utility Accountant are reviewing software options for the LSL Loan Program.

JULY
2022

July 2022

OPERATIONS' DEPARTMENT MONTHLY REPORT

PUMPAGE	HIGH LIFT		LOW LIFT		2022 VS 2021
	2021	2022	2021	2022	HL
Total in MG	422.933	418.679	422.275	425.837	-1.01%
Daily Average (MG)	13.643	13.526	13.622	13.737	
Max. Day (MG)	17.207	17.388	17.138	17.630	2022 VS 2020
					HL
Gal/KwH	1,192	1,323	5,033	4,931	2.50%
ELECTRICAL COSTS					
A. Pumping:	2021		2022		
	KwH	\$	KwH	\$	
High Lift	351,501	\$26,069.65	310,922	\$25,097.75	
Low Lift	83,902	\$6,222.73	85,914	\$8,935.01	
Wash Pump 1	2,100	\$155.75	2,800	\$226.02	
Georgia St. Bstr.	50,700	\$4,878.04	53,100	\$5,446.78	
Wilgus Ave. Bstr.	2,800	\$344.60	3,100	\$416.38	
EE Pit / Bstr.	4,935	\$575.34	5,009	\$645.00	
Erie Ave. Bstr.	16,000	\$2,144.10	16,400	\$2,446.02	
Sub Total	511,938	\$40,390.21	477,245	\$41,212.96	\$/KwH 9.5%
B. Treat./Fiscal/Misc.	2021		2022		
	KwH	\$	KwH	\$	
Office & Maint. Bldg.	9,553	\$1,084.39	8,900	\$1,119.09	
Filter Plant / Pump Station / 2nd Service	52,097	\$4,471.97	96,164	\$8,358.48	
Sub Total	61,650	\$5,556.36	105,064	\$9,477.57	\$/KwH 0.1%
C. Distribution:	2021		2022		
	KwH	\$	KwH	\$	
Taylor Hill Tank	380	\$60.38	399	\$67.66	
Kohler Meter Pit	0	\$0.00	0	\$0.00	
EE Tower	239	\$44.74	1,058	\$151.82	
Washington (PRV) Pit	232	\$45.68	254	\$51.77	
Sub Total	851	\$150.80	1,711	\$271.25	\$/KwH 8.7%
Total Electrical Costs	574,439	\$46,097.37	584,020	\$60,961.78	
Electrical Cost / MG		\$108.99		\$121.54	
NATURAL GAS COSTS					
	2021		2022		
	CCF Used	Cost	CCF Used	Cost	
Production Facility	371	\$333.20			
South Basin	32	\$172.17	355	\$394.69	
Georgia St. Bstr.			29	\$41.84	
Erie Ave. Bstr.	17	\$38.87	0	\$29.59	
Wilgus Ave. Bstr.			0	\$17.33	
Office & Maint. Bldg.	252	\$186.26	320	\$262.98	
Total Natural Gas Costs	1,688	\$730.50	704	\$746.43	\$/CCF 145.0%
Natural Gas Cost / MG		\$1.73		\$1.78	
CHEMICAL COSTS					
	2021		2022		
	Lbs. Used	Cost	Lbs. Used	Cost	
Alum	50,723	\$7,177.30	41,199	\$7,477.62	28.3%
Carbon	0	\$0.00	0	\$0.00	#DIV/0!
Chlorine	9,715	\$7,946.87	8,014	\$11,860.72	80.9%
Fluoride	2,349	\$2,553.36	2,046	\$2,843.94	27.9%
KMnO4	0	\$0.00	0	\$0.00	#DIV/0!
Cationic Polymer	0	\$0.00	0	\$0.00	#DIV/0!
Liquid Phosphate	3,549	\$4,691.78	5,135	\$8,103.03	19.4%
Total Chemical Costs		\$22,369.31		\$30,285.31	35.4%
Chemical Cost / MG		\$52.89		\$72.23	
Grand Total		\$69,197.18		\$81,993.51	18.49%
Total Cost / MG		\$163.61		\$195.54	19.52%

YTD HL 2022 vs 2021	0.77%	YTD HL HIGH DAY PUMPAGE	17.388	July 19, 2022	
YTD HL 2022 vs 2020	10.56%	YTD HL LOW DAY PUMPAGE	7.587	January 1, 2022	
				YTD HL Ave Day	

NOTE:

Electrical costs include an Alliant Energy 8.3% rate increase approved by PSC.
all WPS bills available.

New YTD HL Day Pumpage 17.388MGD on July 19th

Not

2022	12.235
2021	12.252
2020	11.108

COMPARATIVE SUMMARY OF PLANT OPERATIONS

July 2021

vs

July 2022

Pumping Record

High Lift

Low Lift

	2021	2022	Diff.		2021	2022	Diff.
Tot. Water in MG	422.933	418.679	-1.01%	Tot. Water in MG	422.275	425.837	0.84%
Daily Average	13.643	13.526	-0.86%	Daily Average	13.622	13.737	0.84%
Maximum Day	17.207	17.388	1.05%	Maximum Day	17.138	17.630	2.87%
Minimum Day	9.929	10.032	1.04%	Minimum Day	9.878	10.294	4.21%
By Natural Gas	3.808	7.813	105.17%	By Natural Gas	0.000	2.173	#DIV/0!
Power in KWH	351,501	310,922	-11.54%	Power in KWH	83,902	85,914	2.40%
Gals. per KWH	1,192	1,323	11.03%	Gals. per KWH	5,033	4,931	-2.02%
Power \$ / KWH	\$0.07417	\$0.08072	8.83%	Power \$ / KWH	---	---	---
Power \$ / MG	\$61.64	\$59.85	(\$1.79)	Power \$ / MG	\$14.74	\$16.29	\$1.55
Tot. Power \$/MG	\$104.01	\$121.86	\$17.85	Tot. Power \$/MG	---	---	---

Treatment Chem.

Lbs. Used

Cost

	2021	2022	Diff.		2021	2022	Diff.
Total Lbs.				Total Cost			
Alum	50,723	41,199	-18.78%	Alum	\$7,177.30	\$7,477.62	\$300.32
Carbon			#DIV/0!	Carbon	\$0.00	\$0.00	\$0.00
Chlorine	5,120	8,014	56.52%	Chlorine	\$3,532.80	\$11,860.72	\$8,327.92
KMnO4	0		#DIV/0!	KMnO4	\$0.00	\$0.00	\$0.00
Polymer	0		#DIV/0!	Polymer	\$0.00	\$0.00	\$0.00
Liquid Phosphate	3,549	5,135	44.69%	Liquid Phosphate	\$4,691.78	\$8,103.03	\$3,411.25
Lb/ MG:				Cost / MG:			
Alum	120.1	96.7	-19.46%	Alum	\$17.00	\$17.56	\$0.56
Carbon	0.0	0.0	#DIV/0!	Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	12.1	18.8	55.21%	Chlorine	\$8.37	\$27.85	\$19.49
KMnO4	0.0	0.0	#DIV/0!	KMnO4	#DIV/0!	#DIV/0!	#DIV/0!
Liquid Phosphate	8.4	12.1	43.48%	Liquid Phosphate	\$11.11	\$19.03	\$7.92

Fluoride:

2021

2022

-12.90%

Total Lbs.	2,349	2,046	-12.90%
mg/l applied as F	0.72	0.72	
Av. Res. Plt. Tap	0.73	0.70	

Fluoride:

2021

2022

Cost	\$2,553.36	\$2,843.94	\$290.58
Cost/MG	\$6.05	\$6.79	\$0.74

Water Quality:

Raw

TAP

	2021	2022
Turbidity	2.30	1.00
pH	8.32	8.35
Alkalinity	108.5	108.6
MF (E-Coli)	8.4	0.3
Temperature	59.8	50.1
Wash-H2O % /LL	1.78	2.02
Av. Flt. Run/hrs	118.9	112.7
Av. ROF / MG	1.46	1.40

	2021	2022
Turbidity	0.041	0.066
pH	7.70	7.74
Alkalinity	101.9	102.7
Plate Count	0.00	0.00
Colilert	0	0
Temp.	62.8	52.8
Cl Res.	0.87	0.89

Natural Gas:

2021

2022

Plant & South Basin

	2021	2022	Diff.
Nat. Gas Heating	1,893	-430	
Nat. Gas Pumping	585	785	
	\$959.01	#DIV/0!	#DIV/0!
	\$943.83	#DIV/0!	#DIV/0!

	CCF	Cost	Natural Gas Cost	Natural Gas CCF
#3 Gas Pump	133.3	#DIV/0!	\$394.69	355
#4 Gas Pump	423.0	#DIV/0!		
#7 Gas Pump	102.5	#DIV/0!		
Electric Generator	126.0	#DIV/0!		
Pumping totals	784.8	#DIV/0!		

July 2022

% Run
80.2%
3.52%
0.6%
0.6%
98.7%
1.1%

Kw/Hr run
107.0
57.7
148.9
71.8
128.2
539.0
236.4
#DIV/0!
#DIV/0!
479.6

	8/1/2022	7/1/2022	
Elapsed Time:			
No. 6 Pump	68,058.4	67,461.9	596.5
Wash Pump Meter	5,479.58	5,453.42	26.16
No. 7 Pump	765.6	761.5	4.1
No. 8 Pump	59,540.3	59,535.6	4.7
No. 9 Pump	21,110.0	20,376.0	734.0
Wash Pump 2	31	23	8
No. 1 Prime Pump	1,042.5	1,042.2	0.3
No. 2 Prime Pump	1,115.2	1,113.8	1.4

Wathour Meters:			
Wash Pump 1	1260.1	1256.1	2,800
No. 9 Pump	5595.12	5552.75	42,374
No. 8 Pump	6836.4	6834.4	700
No. 6 Pump	756.2	603.2	42,840
Wash Pump 2	3,3089	2,454	1,026
No. 1 Pump	9002.494	8858.326	144,168
No. 2 Pump	4766.938	4760.877	6,061
No. 3 Pump	9891.855	9891.855	0
No. 4 Pump			0
No. 5 Pump	10,220.221	10,059.528	160,693

Garage (MWatt/Hrs.)	1,061.72	1,061.72	0
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Power Co. (Step #3)	36,986	36,572	496,800
Left Meter - OUTSIDE			

Volume Used:			
Nat. Gas (Correct)	44,821,734	44,772,044	62,460

Elapsed Time:			
Emer. Generator	1,032.4	1,026.1	6.3

% Run
35.9%
3.4%
0.0%
0.6%
0.0%
1.3%
45.0%
0.2%

Elapsed Time:			
No. 1 Pump	16,694.6	16,427.1	267.5
No. 2 Pump	20,344.15	20,318.51	25.64
No. 3 Elec. Pump	34,362.6	34,362.6	0.0
No. 3 Nat. Gas Pump	540.2	535.9	4.3
No. 4 Elec. Pump	0.00	0.00	0.0
No. 4 Nat. Gas Pump	39.3	29.9	9.4
No. 5. Pump	21,371.180	21,036.120	335.060
UV Building Generator	127.5	126.3	1.2

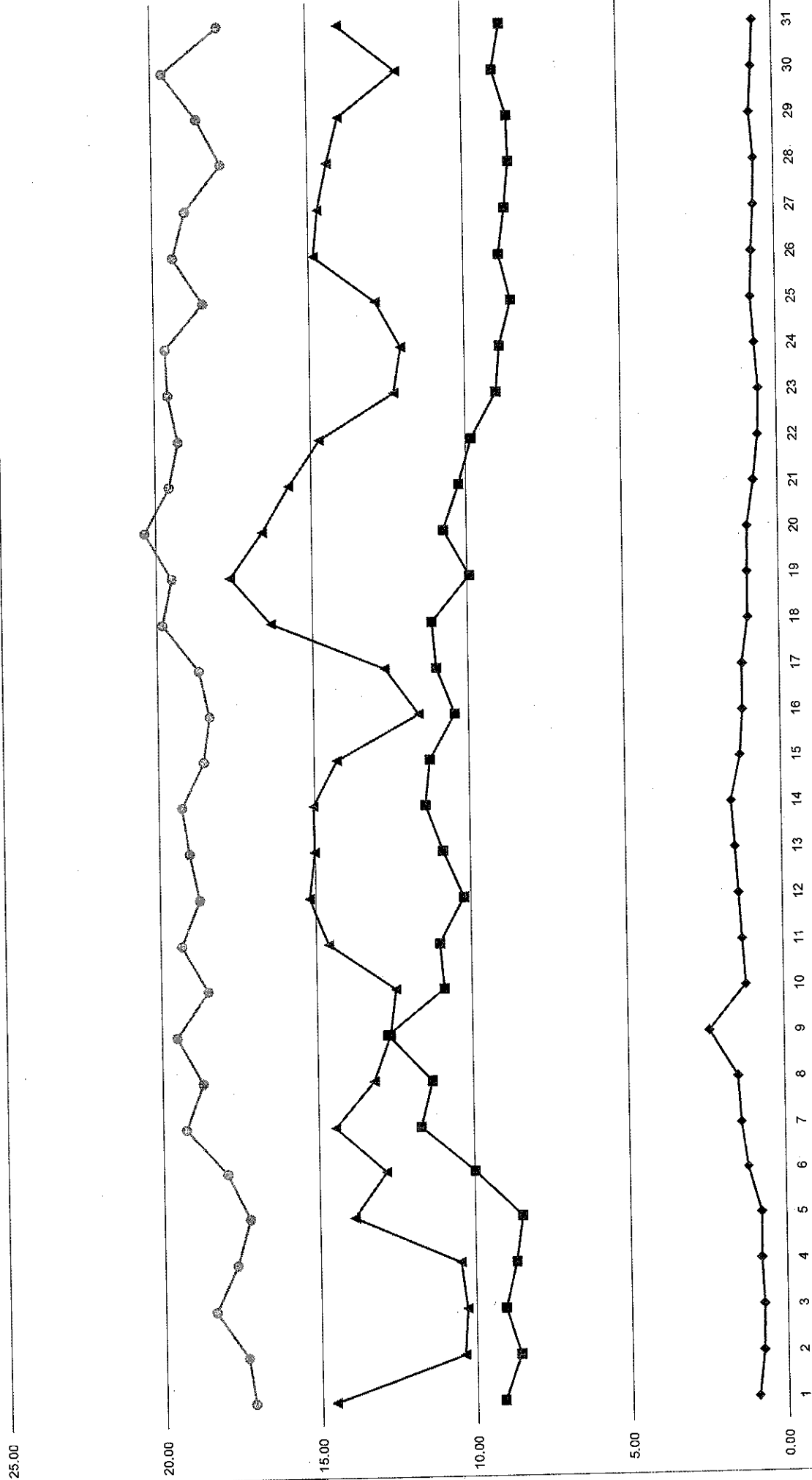
	8/1/2022	7/1/2022	
SLUDGE No. 1 Hour Meter	0.0	0.0	0
SYSTEM No. 2 Mag Meter	5,278,130	4,919,530	358,600
Recycle Meter (Reset to zero each month)			358,600

Power Cost	\$0.0807204	Bill >>>>	\$36,517.91
	0.51536	KWH >>>	452,400
Init. Chg.	\$40,101.90		
	\$	KWH	
Kohler Pit			
Horizon	\$134.77		871
Taylor	\$67.66		399
ALT. 72 Park	\$515.36		1,000
Geo. Ave.	\$5,446.78		53,100
Wilgus Ave.	\$416.38		3,100
EE Pit	\$645.00		5,009
EE Tower	\$151.82		1,058
Washington	\$51.77		254
Office	\$1,119.09		8,900
Erie Ave.	\$2,446.02		16,400
Total	\$51,096.55		586,891
		Low L. KWH	85,914
		L.L. Cost \$	\$6,935.01
		High L. KWH	310,922
		H.L. Cost \$	\$25,097.75
		Total Cost	\$32,032.76
		Plant Costs	\$8,358.48

SUMMARY

	HIGH LIFT		LOW LIFT	
	2021	2022	2021	2022
Tot. Pump	422.933	419.312	422.275	425.837
Daily Ave.	13.643	13.526	13.622	13.737
Max. Day	17.207	17.388	17.138	17.630
Min. Day	9.929	10.032	9.878	10.294
By Nat. Gas	3.808	7.813	0.000	2.173
Power KWH	351,501	310,922	83,902	85,914
Gals/KWH	1192	1323	5033	4931
Cost/KWH	\$0.07417	\$0.08072	*****	*****
Cost/MG	\$61.64	\$59.85	\$14.74	\$16.29
Tot. Cost/MG	\$104.01	\$121.86	*****	*****

July 2022: Sheboygan Water Utility Plant Operations Summary



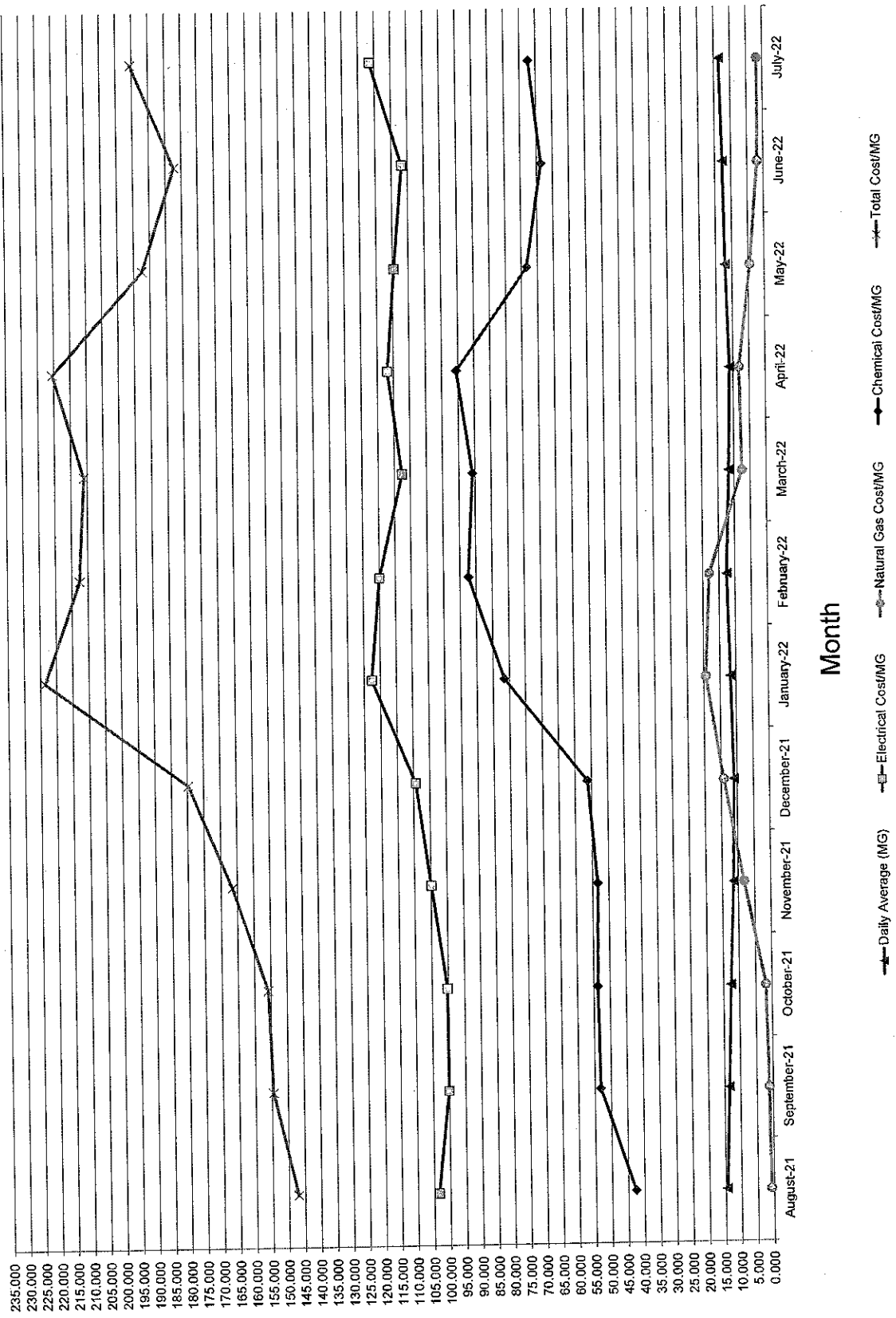
Days

Scaling
Alum(X.10)

—▲— Flow (MGD), —■— Alum (lbs/MG), —○— CL2 (lbs/MG), —◆— Raw Turbidity (NTU's)

Item 4.

Plant Operations: Expense Report



July 2022

Filter Plant Maintenance Completed For July 2022

Subject	Start Date	End Date	Description
4th of July Holiday	4-Jul-22		4th of July holiday
Utility observed holiday	4-Jul-22		Utility observed holiday
Dan on vacation	5-Jul-22		Dan on vacation
Joshua on Vacation	5-Jul-22		
2" Valves	6-Jul-22		Clean old 2" generator valve and place spare upstairs.
East Floe Motor	6-Jul-22		Replace belts on N.W. floe gear and motor set.
Dan Covering Laboratory	6-Jul-22	9-Jul-22	Dan covering laboratory for Eric.
Joshua Operating 1st	7-Jul-22	7-Jul-22	Joshua covering 1st shift for Glen.
UV Reference Sensor Check	8-Jul-22		Perform UV reference sensor check.
South Basin Bathroom	8-Jul-22		Clean south basin bathroom.
Filter Plant Garbage	8-Jul-22		Throw filter plant garbage and recycling away.
Joshua Email/Outlook Issue	8-Jul-22		Assist On-Tech diagnosing email/outlook access issue.
Hypo Feed Room Floor	11-Jul-22		Empty hypo feed room sump crock and clean floors.
East Hypo Pump	11-Jul-22		Install new Viton O-rings on swing pump feed valve on East hypo line.
Potassium Permanganate	11-Jul-22		Diagnose and adjust feed scaling; programming is off by 60%.
Joshua On-Tech Training	11-Jul-22		Flush feed line, calibrate tank height, install new tube, and begin feeding.
Monday Meeting	11-Jul-22		Complete On-Tech training.
Gas Engine 3	12-Jul-22		Coverage, potassium feed, UV reference sensor calibration, raw water project work, etc.
H.L. Garbage	12-Jul-22		Clean up area after filter and gasket replacement.
Gas Engines	12-Jul-22		Throw away garbage, old west light, and replace soap.
End of Month Report	12-Jul-22		Assist Wayne while operating gas engines; power in units, reset meters, and walk plant looking for failures.
Engine 4 and 7	12-Jul-22		Create and deliver June end of month report.
Dakota Supply Group	12-Jul-22		Clean pressure reduction screen, install new gauge on 4, and check cooling water flow.
H.L. Center Light	12-Jul-22		Purchase SPEARS 1/2" nipples, 1/4"-1/2" adaptors, and new D-160 psi gauge for engine 4.
H.L. West Light	12-Jul-22		Install new bulb on H.L. center pole.
Dan operating 1st shift	13-Jul-22	15-Jul-22	Install new L.E.D. light on West wall in high lift.
Hypo Bulk Area	13-Jul-22		Dan covering 1st shift operations for Wayne and mark.
Batteries Plus	13-Jul-22		Inspect hypo bulk tank area for leaks; third tank is showing signs of leakage.
South Basin Emergency Lights	13-Jul-22		Purchase batteries for South Basin emergency/exit lights.
Filter 2	13-Jul-22		Install new batteries in south basin emergency lights.
Engine 3 and 4	14-Jul-22		Wash filter for backwash sample.
Hypo Bulk Tank	14-Jul-22		Order oil pressure senders, indicators, and cover gaskets.
Pipe Gallery	14-Jul-22		Begin exploring options for fiberglass tank repair/replacement.
South Basin Exit Signs	14-Jul-22		Begin monthly maintenance and replace LED light bulb by wash pump 1.
Dakota Supply Group	14-Jul-22		Begin installing new south basin exit signs.
High Lift NTU Meter	15-Jul-22		Purchase emergency and exit signs for south basin.
Dakota Supply Group	15-Jul-22		Finish installing new south basin emergency lights.
Dan Covering Laboratory	18-Jul-22	19-Jul-22	Install Hach NTU meter in high lift.
Milwaukee Vacuum	18-Jul-22		Purchase pressure reducing valve for high lift NTU meter.
Rebuild Raw Water Sample Pump	18-Jul-22		Dan covering laboratory for Eric.
Raw Water Sample Pump	18-Jul-22		Cleaned Milwaukee backpack vacuum.
Menards x 2	18-Jul-22		Found front gasket took out impeller, left gasket out, installed 2 new 6203 bearings, impeller, and spring; didn't have new mechanical seals.
Batteries Plus	18-Jul-22		Install rebuilt raw water sample pump.
Maintenance Shop	18-Jul-22		Purchase shop towels, yellow paint, CLR, MAP gas, etc.
Menards	18-Jul-22		Return 5x 6-volt 7 amp. batteries
Erle and Horizon Ave.	19-Jul-22		Throw out garbage, organize shelving, locate pump bearings, clean old NTU meter parts.
Lab Tap NTU Meter	19-Jul-22		Purchase heavy fan for low lift 9 switchgear.
			Collected laboratory samples, checked grounds, and filled hypo reagents.
			Replaced feed hose, cleaned ortho out of feed line, and adjusted flow.

Yellow indicates days operating or running labs

July 2022

Low Lift Cooling Water	19-Jul-22	Ortho buildup causing flow issues in cooling water lines. Cleaned lines and adjusted flow.
Diagnose East Hypo Alarm	19-Jul-22	East hypo pump has erratic feed rate, suspected air in raw water lines but air reliefs are okay, found pump 9 switch gear has issues.
Pump 9	19-Jul-22	Open switch gear and diagnose over-temp issue.
Gas engine 4 sending unit	20-Jul-22	Gas engine number 4 oil pressure sending unit and gauge replaced.
Gas engine 10 coolant air release	20-Jul-22	Gas engine 10 backup air release valve was broken and inoperable, valve was not needed so it was removed and plugged
Dakota supply group	20-Jul-22	Parts run to Dakota supply group for hoses and hose barbs
Tap NTU Meter	20-Jul-22	Completed tap NTU meter plumbing
Josh covering 1st shift Ops	21-Jul-22	Josh covering 1st shift operations
maintenance paperwork	21-Jul-22	Filling in maintenance work calendar, contacting vender information for parts
Cleaned FP bathrooms	21-Jul-22	Cleaned filter plant bathrooms
Erie pump station	21-Jul-22	Checked Erie pump station emergency generator for Monday shut operations
Taylor hill reservoir	21-Jul-22	Changed swan hypo analyzer reagent hoses
Georgia reservoir	21-Jul-22	Changed switch gear filters in Georgia pump station
Joshua on Vacation	22-Jul-22	Joshua sailing across Lake Michigan
Dan on vacation	22-Jul-22	Dan on vacation
Dan covering 3rd shift	25-Jul-22	Dan covering 3rd shift operations for Wayne
Erie Ave.	28-Jul-22	Reagents good, generator could use paint, spare reagents could be brought out, grounds good.
Horizon and Georgia Ave.	28-Jul-22	Horizon reagents and grounds good. Georgia Ave. reagents good, but cabinet filters need replaced.
Taylor Hill	28-Jul-22	Reagents need serviced and SWAN reagent fill hoses installed.
Engine 4	28-Jul-22	Plumb cover drain for filter service.
Engine 3	28-Jul-22	Install new oil pressure sender and gauge.
Truck 6	29-Jul-22	Vacuum and wash.
South Basin Bathroom and Maintenance	29-Jul-22	Clean south basin bathroom and maintenance shop.
Georgia Ave.	29-Jul-22	Wash interior floor, sweep entrance area, and inspect switch gear filters.
Erie Ave.	29-Jul-22	Deliver new reagent set.
Taylor Hill	29-Jul-22	Replace reagents, clean dehumidifier, and sweep interior.