Operations Update

<u>Plant Operations</u> – Treatment and operations continue to be doing well for the month of April. It was the most rainfall ever recorded in Wisconsin during the month of April, according to TV 2 News.

<u>Post ATAD #2 Air Header</u> – Noticed treatment was not normal; PH not being met. Checked calibration on PH probe and found it to be ok. Removed cover on digester roof to inspect surface area of liquid and noticed air only coming up in one area. Pumped down to check header for failure and header was ok. Suspect air header plugged with bio-solids. I will have more info at Tuesday's meeting.

<u>Plant/Kruger SCADA Computers</u> – June 13 – 15th is still the tentative date set by L.W. Allen to install the new SCADA computers.

ATAD Programming - Will be accomplished with the SCADA computer upgrades.

<u>Energy Use and Cost History</u> – Included in the update is the energy use and cost history back to 2015. The peaks that are shown on the graphs generally are caused by higher flows in those months.

Maintenance Update

<u>Fairbanks Vertical Turbine Pump #3</u> – Fairbanks completed repairs on the pump, & completed a Certified Performance Curve. Received pump back on Tuesday May 2nd and L.W Allen had all contractors lined up to have it reinstalled. Pump was installed plus clearances were set, then put back into service

<u>Process Return Pump Drives</u> –The new upgrades are still tentatively scheduled for May 9^{th} & 10^{th} .

<u>ACTI-FLO Water Champs</u> – Received the new parts for the vacuum head assembly and a new motor with power cable and hardware. We are now covered in the event of a failure to the water champs which will reduce the three to four week lead time for the new items.

Director of Operations and Maintenance Kevin Skogman

Dawn Bartel

From: Kevin Skogman <kevin.skogman@hvmsd.org>

Sent: Thursday, May 4, 2017 7:58 AM

To: Dawn Bartel

Subject: FW: Report: Energy Use and Cost History

Energy Use and Cost History - Kaukauna Utilities

January 2015 to December 2017

Customer: Account No: HOVMSDC 9012694

Location: SEWAGE DIST

2015

Year	Month	Retail rate code	Bill Days	On- Peak[kWh]	Off- Peak[kWh]	Total[kWh]	On- PeakDemand[kW]	Off- PeakDemand[kW]	Billed Demand[kW]	LoadFactor[%]	TotalCost[\$]	AverageCost[\$/kWh]
2015	January	Cp2	31	223,203	397,465	620,668	1,047.1	1,030.9	1,047.1	80%	\$45,245.56	\$0.0729
2015	February	Cp2	28	215,060	357,316	572,376	1,069.7	1,004.9	1,069.7	80%	\$42,978.97	\$0.0751
2015	March	Cp2	31	237,132	398,308	635,440	1,046.5	997.9	1,046.5	82%	\$44,280.73	\$0.0697
2015	April	Cp2	30	250,237	410,929	661,166	1,122.1	1,069.2	1,122.1	82%	\$47,402.88	\$0.0717
2015	May	Cp2	31	216,269	426,799	643,068	1,085.9	1,077.8	1,085.9	80%	\$45,876.35	\$0.0713
2015	June	Cp2	30	235,810	376,701	612,511	1,364.6	1,233.9	1,364.6	62%	\$49,761.34	\$0.0812
2015	July	Cp2	31	231,853	359,546	591,399	1,023.3	1,029.2	1,023.3	78%	\$40,709.29	\$0.0688
2015	August	Cp2	31	227,854	380,793	608,647	1,104.3	1,053.5	1,104.3	74%	\$48,898.63	\$0.0803
2015	September	Cp2	30	222,284	359,194	581,478	1,270.6	1,050.3	1,270.6	64%	\$44,199.57	\$0.0760
2015	October	Cp2	31	229,795	381,282	611,077	1,068.1	1,036.3	1,068.1	77%	\$43,610.96	\$0.0714
2015	November	Cp2	30	206,035	382,605	588,640	1,028.7	1,014.1	1,028.7	79%	\$38,686.22	\$0.0657
2015	December	Cp2	31	231,745	398,673	630,418	1,463.9	1,483.4	1,463.9	58%	\$42,355.69	\$0.0672
Total				2,727,277	4,629,611	7,356,888	13,694.9	13,081.5	13,694.9		\$534,006.19	
Minir	mum			206,035	357,316	572,376	1,023.3	997.9	1,023.3	58%	\$38,686.22	\$0.0657
Maxi	mum			250,237	426,799	661,166	1,463.9	1,483.4	1,463.9	82%	\$49,761.34	\$0.0812
Avera	age			227,273	385,801	613,074	1,141.2	1,090.1	1,141.2	75%	\$44,500.52	\$0.0726

Customer:

HOVMSDC

Account No:

9012694

Location:

SEWAGE DIST

2016

Year	Month	Retail rate code	Bill Days	On- Peak[kWh]	Off- Peak[kWh]	Total[kWh]	On- PeakDemand[kW]	Off- PeakDemand[kW]	Billed Demand[kW]	LoadFactor[%]	TotalCost[\$]	AverageCost[\$/kWh]
2016	January	Cp2	31	216,003	428,806	644,809	1,145.3	1,089.7	1,145.3	76%	\$41,566.01	\$0.0645
2016	February	Cp2	29	221,607	372,395	594,002	1,040.6	1,057.3	1,040.6	82%	\$39,408.68	\$0.0663
2016	March	Cp2	31	261,430	405,403	666,833	1,221.5	1,132.4	1,221.5	73%	\$40,536.38	\$0.0608
2016	April	Cp2	30	228,858	396,899	625,757	1,130.8	1,126.4	1,130.8	77%	\$39,567.93	\$0.0632
2016	May	Cp2	30	215,542	380,980	596,522	1,041.7	1,022.2	1,041.7	80%	\$36,234.00	\$0.0607
2016	June	Cp2	30	240,894	386,697	627,591	1,098.4	1,176.1	1,098.4	79%	\$42,356.59	\$0.0675
2016	July	Cp2	31	212,869	418,333	631,202	1,093.5	1,073.5	1,093.5	78%	\$46,917.32	\$0.0743
2016	August	Cp2	31	235,598	352,710	588,308	1,019.5	978.5	1,019.5	78%	\$43,463.09	\$0.0739
2016	September	Cp2	30	222,972	364,080	587,052	1,053.5	992.0	1,053.5	77%	\$43,081.17	\$0.0734
2016	October	Cp2	31	220,392	397,098	617,490	1,095.7	1,063.8	1,095.7	76%	\$40,359.90	\$0.0654
2016	November	Cp2	30	222,357	389,297	611,654	1,038.4	1,009.8	1,038.4	82%	\$40,392.65	\$0.0660
2016	December	Cp2	31	231,229	424,175	655,404	1,118.3	1,102.7	1,118.3	79%	\$45,416.31	\$0.0693
Total				2,729,751	4,716,873	7,446,624	13,097.2	12,824.5	13,097.2		\$499,300.03	
Minimum				212,869	352,710	587,052	1,019.5	978.5	1,019.5	73%	\$36,234.00	\$0.0607
Maximum				261,430	428,806	666,833	1,221.5	1,176.1	1,221.5	82%	\$46,917.32	\$0.0743
Average				227,479	393,073	620,552	1,091.4	1,068.7	1,091.4	78%	\$41,608.34	\$0.0671

Customer: Account No:

Location:

HOVMSDC 9012694 SEWAGE DIST

2017

Year	Month	Retail rate code	Bill Days	On- Peak[kWh]	Off- Peak[kWh]	Total[kWh]	On- PeakDemand[kW]	Off- PeakDemand[kW]	Billed Demand[kW]	LoadFactor[%]	TotalCost[\$]	AverageCost[\$/kWh]
2017	January	Cp2	31	235,317	433,740	669,057	1,111.3		1,111.3	81%	\$46,755.89	\$0.0699
2017	February	Cp2	28	214,912	358,047	572,959	1,053.0		1,053.0	81%	\$33,684.52	\$0.0588
2017	March	Cp2	31	260,103	408,695	668,798	1,150.7		1,150.7	78%	\$37,983.12	\$0.0568
Total				710,332	1,200,482	1,910,814	3,315.1		3,315.1		\$118,423.53	
Minin	num			214,912	358,047	572,959	1,053.0		1,053.0	78%	\$33,684.52	\$0.0568
Maximum				260,103	433,740	669,057	1,150.7		1,150.7	81%	\$46,755.89	\$0.0699
Avera	ige			236,777	400,161	636,938	1,105.0		1,105.0	80%	\$39,474.51	\$0.0620





