

City of Pateros, Public Works & Parks

September 2020 –Report to City Council

By City Administrator/
Public Works Supervisor
Jord L. Wilson, MLA



Public Works Team
Mike Lambert – Wastewater
Doug Kirk – Water
Ryan Sisler – Parks
David Hunter – Streets

PUBLIC WORKS

The crew has been working on cleaning up the recycle property in preparation of construction the winter barn for street equipment and winter storage of equipment.

The crew finished up removing the junipers along US-97. We have begun spraying to remove weeds. I will be working on a design over the winter. We will be tackling this project in-house, as I can't see us affording to contract it out.

Key redesign points on the project:

- Irrigation system will need replaced, as it was installed in 1967 and is failing. This will require a complete overhaul along Warren from Dawson to Lakeshore Drive.
- Regrading is necessary to provide safer pedestrian access, plowing, and removal of soil that has sloughed off over the years onto the highway.
- Reduced lawn maintenance – We love the beautiful green lawns, but they require intensive maintenance. On the section of lawn between Lakeshore and Dawson, staff spends approximately 50 hours a year in mow time. With careful redesign, I believe we can get that cut almost in half and still have beautiful lawns along the corridor.
- Appropriate shrub plantings – Shrubs that are colorful, vigorous to choke out weeds, hardy, not extraordinarily flammable, appropriate heights to not block views.

This will be a big project, and will easily be in progress most of 2021.

ADMINISTRATIVE

- Scott Lewis submitted an initial proposal for solar project. The numbers look very good and will be submitted to the Finance Committee for first review. The project could save Water and Sewer Departments \$100,000 in electricity fees over 30 years.
- The City will be recognized as one of RMSA's 2020 Safety Award winner on October 13th during the RMSA Annual Meeting.
- I spent much of the last month working on Asset Management. I have been verifying the new layers of our asset management program. The City now has 19 asset layers, including water and sewer lines, streets, light poles, facilities, meters, and water valves. We are able to track each of these assets and manage and keep record of on-demand and preventative maintenance schedules for these assets.

STREET DEPARTMENT

- I will be meeting on October 6th with Varela to go over the Warren Street Sidewalk Project.
- The crew intended to spend most of the last two weeks on street striping. As is predictable, the street striper broke down as the project begun. The sprayer has been in service for over 10 years, so the pump had to be rebuilt. It is up and running, and the goal is to get some paint on the ground this week and next.



Street Striping on Lakeshore Drive

PARKS

- 🗑️ Tables and chairs are in transit. Were in Summer at transfer station 9/18/2020. Not sure we will set them out this year, as we missed the outdoor eating season.

City of Pateros Park & Sewer Fees								
	Parks RV/Camping/Parking Fees Memorial & Ives Landing				Ives Landing Dump Station (Sewer Dept)			
	2017	2018	2019	2020	2017	2018	2019	2020
JAN	\$ -	\$ -			\$ -	\$ -		
FEB	\$ -	\$ 25.00			\$ -	\$ 10.00		
MAR	\$ -	\$ -			\$ -	\$ -		
APR	\$ 97.00	\$ 25.00	\$ 160.00		\$ 48.16	\$ 40.00	\$ 21.00	\$ 113.00
MAY	\$ 136.50	\$ 332.00	\$ 85.00		\$ 95.85	\$ 85.00		
JUN	\$ 423.00	\$1,227.85	\$ 35.00	\$1,855.00	\$ 228.00	\$ 240.00	\$ 230.75	\$ 268.00
JUL	\$ 279.00	\$2,866.88	\$1,200.00	\$3,318.00	\$ 276.00	\$ 285.00	\$ 280.92	\$ 224.00
AUG	\$1,195.24	\$3,676.00	\$ 740.25	\$1,994.00	\$ 305.00	\$ 112.00	\$ 155.00	\$ 341.75
SEP	\$ 410.35	\$ 814.00	\$1,739.00		\$ 97.00	\$ 143.00	\$ 236.06	
OCT	\$ 153.00	\$ 460.00	\$ 120.00		\$ 145.50	\$ 164.00	\$ 116.00	
NOV	\$ 6.00	\$ 37.00	\$ 145.00		\$ 104.75	\$ 53.00	\$ -	
DEC	\$ -	\$ -	\$ -		\$ -	\$ 83.00	\$ -	
Total	\$2,700.09	\$9,463.73	\$4,224.25	\$7,167.00	\$1,300.26	\$1,215.00	\$1,039.73	\$ 946.75
6 Mo.	\$2,130.74	\$8,152.73	\$2,220.25	\$7,167.00	\$ 953.01	\$ 772.00	\$ 687.67	\$ 946.75

WATER DEPARTMENT

The contractors worked on Pump Station #4, and found what was thought to be the issues. It ran well for a month. In the last week, a similar issue cropped up on the brains of the pump. The pump is still operating, but it has been put in lag. Pump Station #3 is operating as the lead pump. The contractors are working to resolve the issue. I have kept the Engineer in the loop on the issue.

The final water project has been awarded, and the contractor is submitting the documents to the Varela for review. We should be ready to sign the contract within the next couple of weeks. The goal is to have the pre-construction meeting, kicking the project off, before Kerri and I leave for vacation on October 6th. The school property easement paperwork has been delivered for recording.

2020 WATER PRODUCTION							
	2018	2019	2020		2018	2019	2020
Jan	1,797,800	2,121,438	2,036,291	Jul	17,454,000	18,968,280	16,601,532
Feb	1,552,000	2,056,813	1,946,743	Aug	14,152,900	16,600,547	16,750,284
Mar	1,778,900	2,260,796	2,373,833	Sep	10,192,700	8,729,598	
Apr	2,963,400	4,503,629	6,608,729	Oct	6,663,600	4,690,568	
May	9,611,300	12,892,999	10,446,235	Nov	2,076,600	2,178,552	
Jun	13,457,700	16,082,186	13,249,332	Dec	1,867,529	1,918,369	
Year to Date Total Gallons	62,768,000	75,486,688	70,012,979	<i>Pump Station #3</i>	<i>16,729,240 gallons</i>		
				<i>Pump Station #4</i>	<i>21,044 gallons</i>		
<i>Water consumption for the year is down slightly from last year. We have approved 2 new water connections this month. 205 Augusta & 505 Beach, both new construction.</i>							
Water Quality Testing							
Coliform Test	<i>This is an indicator test for total coliform (good and bad). The presence of coliform in a sample indicates the need for further testing</i>						
8/12/2020		2 Samples	Coliform absent				
Chlorine Monitoring	<i>A target residual of 0.3-0.5 (min. 0.2) used to control microbes *As part of routine monitoring, the chlorine input rate is immediately increased for all chlorine tests results below 0.2 to meet the DOH minimum of 0.2</i>						
8/3/2020-8/31/2020	<i>Month AVG of 0.53</i>	Daily samples Mon-Fri	<i>Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.3 - 1.50 (4.0 State MCL)</i>				
Manganese Testing	<i>Historic Highs from old wells 0.2-0.7 & DOH MCL 0.05</i>						
	Date	Most Current	Average	High	Low	Median	
Pump Station #3	August	0.00016	0.00132	0.01207	0.00010	0.00016	
Pump Station #4	June	0.04636	0.01032	0.04636	0.00037	0.00149	
<i>The most recent reading of manganese level looks good.</i>							

SEWER DEPARTMENT

The Warren Street lift station required more than normal repairs. We extracted all the good we could out of the wench used to remove the pumps. We will be purchasing a new one to replace it.

City of Pateros Sewer Department					
Permitee: Pateros POTW		Permit #: WA0020559		Operator: Mike Lambert	
2020 Wastewater Processed in Gallons					
	2019	2020		2019	2020
January	1,267,300	1,458,000	July	1,580,000	1,663,000
February	1,136,000	1,342,700	August	1,415,100	1,494,200
March	1,284,500	1,299,500	September	1,496,300	
April	1,741,500	1,239,700	October	1,611,290	
May	1,427,400	1,489,000	November	1,442,200	
June	1,448,900	1,488,700	December	1,433,100	
Year To Date Totals		2019	2020		% in Change
Gallons Processed		11,300,700	11,474,800		1.5%
Wastewater Effluent Monitoring					
Total BOD 5-day		<i>Organic Loading Rates (Permit Range \geq 85%)</i>			
Weekly Test		4 - Tests	99% removal		
TSS		<i>Total Suspended Solids, non organics (Permit Range \geq 85%)</i>			
Weekly Test		4-tests	94.5% removal		
pH		<i>(Daily min/max permit range equal/between pH6 and pH9</i>			
Weekly minimum		Mon-Fri	6.9		
Weekly Maximum		Mon-Fri	7.7		
Fecal Coliform Bacteria		<i>(Permit Range Weekly \leq 100; Monthly \leq 200</i>			
Weekly geometric mean		5-tests	5.6		
Monthly geometric mean		5-Tests	5.6		
Dissolved Oxygen		<i>Daily – Report Only</i>			
Daily Test		Mon-Fri	6.1 Maximum		
Temperature		<i>Daily – Report Only</i>			
Daily Test		Mon-Fri	23 Degrees C Average		
Ammonia		<i>Monthly – Report Only</i>			
8/12/2020		1 sample	0.1		

August Notes:
August was a good month. The numbers look good. Apple House numbers look really good, which helps our overall process ability.



5-security cameras have been installed. One is still on the way. Hopefully this will help reduce vandalism. We received \$5,000 grant from RMSA for these cameras. The cameras are remote, and are motion triggered. Pictures loaded at City Hall, reviewed, and stored on the City secure drive.