

City of Pateros, Public Works & Parks

August 2021 –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

ADMINISTRATIVE

The heat and smoke have made Public Work projects more difficult than normal. L&I updated rules regarding smoke. Air quality monitoring and training for employees will be required, and I am working on adding this to our Safety Policies, Procedures, and Programs manual. Public Works has had several heat related safety meetings. Park and recreation activities remain high. The big push to have the city tuned up for Apple Pie Jamboree is completed. APJ reported a good year. As always, we completed a debrief meeting with the APJ committee to learn what went wrong and what went right, so we can host a better event next year.

Kerri and I have begun working on 2022 budget. We have also begun working on an update to the Capital Improvement (Facilities) Plan.

GRANTS & PROJECTS

.09/Infrastructure Grants – I presented 8/9/2021 three projects to the .09 County Infrastructure Committee: Pateros Mall Renovation Project; Starr Road Infrastructure Project; and Pederson Road Pedestrian Access Project.

TIB Warren Street Project – I submitted a \$169,552 grant application for Warren Avenue chip seal. The project would be from Dawson Street to the end of Watson Draw; Pryor Drive, Pearl; and Augusta. Typically, TIB has awarded 100% of the request, but we could have a match requirement of up to 10%.

PLANNING & ECONOMIC DEVELOPMENT

ARPA Grant

- Erlandsen just received the title report for the breezeway property and should complete the survey for the property in the next couple of weeks.
- Met with TJ Bultman and discussed the breezeway project.
- I have a proposal ready for Graybeal Signs to manage the design and specs of the sign, and kiosks:
 - Draft scope of work and budget for overhaul and design of message center, tourism kiosk in breezeway, and bulletin board kiosk in Mall, and possible welcome sign above pergola
 - Includes three in person meetings with committee or council.
 - The proposal is \$7,181.50

- Begin working with Varela on a scope of work and contract for design and specs for breezeway project.

City Hall Inquiries – Probably indicative of the economy, but in the past month, there has been significant interest in development and investment in Pateros. I have met with business owners, investors, and developers this year and always try and pass along supportive information and contacts. Pateros is in an Opportunity Zone which allows for tax relief regarding capital gains investments.

Plastics Survey – CREA is waiting on the State recycling data to come out before finishing the report.

ECY Sewer Plan Grant – Met with Daniel Cowger regarding the project to go over the scope and contract. The last plan was drafted in 1998. I went over a couple of concerns with Daniel:

1. Does this, or can this include a review of our sewer codes and make recommendations? *The project will do a cursory review of codes and make recommendations*
2. Can this review the way we charge industrial users? *Yes*
3. Can this review a potential brewery connecting to the system? And make recommendations? *Each potential brewery or new industrial waste producer will need to be evaluated individually. However, the plan will draft a clear process the city to follow for new breweries/industrial waste producers connecting to the system.*
4. Will this look at inflow and infiltration? *It will look at inflow and infiltration flow at a magnitude level and determines if further investigation is required. The project does not include cleaning or camera-ing the lines. However, there are times that ECY steps in and requires it.*
5. I have some concerns about the outflow. It is out in the middle of the river and has not been seen since the 60s. Can we do an investigation of it? Maybe camera? *This is something that should be added to the scope of work, as it was mentioned in the previous Wastewater System Plan.*
6. Can we review recycling or reuse of industrial and wastewater? *This is already a statutory requirement of the plan. Typically, those projects don't pencil out as economical, especially for small systems, but it will be reviewed.*



Map donated to city museum by Lloyd Berry Estate. Mr. Berry was the project engineer for the relocation of Pateros. The lower drawing is a survey of old Pateros with a line showing project limits and inundation levels. The upper map is meant as an overlay and proposal/design of the new city.

PUBLIC WORKS

WATER DEPARTMENT

Water Improvement Project Update - All the meters have been installed except Big River's. We are waiting until cherry harvest is completed and they install an approved backflow preventer. The billing transition has been incredibly challenging for Kerri and Cecilia. We hope to have the final glitches worked out in August billing cycle. The new meters are more accurate, and are picking up small leaks in the system. RD completed the subsequent funding request, to close out the project. It will be all grant, no loan. I believe we will be able to purchase a \$30,000 water truck and the grant can pay for half. The truck would be primarily for flushing water lines.

July		2021 WATER PRODUCTION							
	2018	2019	2020	2021		2018	2019	2020	2021
Jan	1,797,800	2,121,438	2,036,291	2,277,596	Jul	17,454,000	18,968,280	16,601,532	19,584,242
Feb	1,552,000	2,056,813	1,946,743	2,057,440	Aug	14,152,900	16,600,547	16,750,284	
Mar	1,778,900	2,260,796	2,373,833	2,133,860	Sep	10,192,700	8,729,598	12,227,228	
Apr	2,963,400	4,503,629	6,608,729	6,062,448	Oct	6,663,600	4,690,568	5,526,800	
May	9,611,300	12,892,999	10,446,235	11,714,756	Nov	2,076,600	2,178,552	1,961,332	
Jun	13,457,700	16,082,186	13,249,332	15,794,652	Dec	1,867,529	1,918,369	1,943,276	
Year to Date Total	2018	2019	2020	2021	<i>Pump Station #3</i>		<i>10,344,326</i>		
Gallons	48,615,100	58,886,141	53,262,695	59,624,994	<i>Pump Station #4</i>		<i>9,239,916</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>								
7/7/2021	1 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>								
7/1-7/30/2021	<i>Month Median of 0.3</i>	Daily samples Mon-Fri		<i>Target Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.3 - 1.50 (4.0 State MCL)</i>					
Manganese Testing	Historic Highs from old wells 0.2-0.7 & DOH SMCL 0.05								
Location	Date	Most Current		Average	High	Low	Median		
Pump Station #3	06/11/21	0.0001		0.00123	0.01207	0.00010	0.00017		
Pump Station #4	06/11/21	0.10250		0.08229	0.21760	0.00037	0.09628		
<i>*Future manganese testing done quarterly</i>									

- The heat wave probably contributed to heavy water use for the months of June and July. We produced 2.5 million gallons in June and almost 3 million gallons above 2020 levels.
- We have made new adjustments to the pumping stations. Instead of alternating, both pumps come on at the same time. Pump Station #4 runs at about 40% of the total, as to reduce the amount of manganese in the system. We are comfortable with the manganese testing, and will be reducing testing to quarterly instead of monthly.

STREETS DEPARTMENT

I attended the Okanogan County Transportation Committee and reviewed applications for STBG funds. All projects were approved. Pateros does not have any eligible roads but may submit for sidewalk funding in the future.

SEWER DEPARTMENT

- Control Freek completed the new SCADA system for the sewer plant and lift station.

City of Pateros Sewer Department							
Permitee: Pateros POTW	Permit #: WA002055		Operator: Mike Lambert				
2021 Wastewater Processed in Gallons							
	2019	2020	2021		2019	2020	2021
January	1,267,300	1,458,000	1,549,650	July	1,580,000	1,663,000	1,769,300
February	1,136,000	1,342,700	1,444,200	August	1,415,100	1,494,200	
March	1,284,500	1,299,500	1,202,300	September	1,496,300	1,457,100	
April	1,741,500	1,239,700	1,272,000	October	1,611,290	1,419,900	
May	1,427,400	1,489,000	1,611,900	November	1,442,200	1,311,700	
June	1,448,900	1,488,700	1,771,300	December	1,433,100	1,227,900	
Year To Date Totals		2019	2020	2021			
Gallons Processed		9,885,600	9,980,600	10,620,650			
Wastewater Effluent Monitoring							
Total BOD 5-day	<i>Organic Loading Rates (Permit Range \geq 85%)</i>						
Weekly Test	4 - Tests		98.8% removal				
TSS	<i>Total Suspended Solids, non organics (Permit Range \geq 85%)</i>						
Weekly Test	4-tests		95.2% removal				
pH	<i>(Daily min/max permit range equal/between pH 6 and pH 9)</i>						
Weekly minimum	Mon-Fri		7.5				
Weekly Maximum	Mon-Fri		8.3				
Fecal Coliform Bacteria	<i>(Permit Range Weekly \leq 100; Monthly \leq 200)</i>						
Monthly geometric mean	4-tests		4.0				
Dissolved Oxygen	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		6 Maximum				
Temperature	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		22.3 Degrees C Average				
Ammonia	<i>Monthly – Report Only</i>						
7/26/2021	1 sample		0.07				

July Notes: The plant has been running relatively well. July was the a high flow month.

PARKS & RECREATION

- 🌳 We met with Hotel owners and Douglas PUD regarding the new trail plans. The goal is to get design and construction documents completed this fall and go out to bid for a spring construction. The meeting was productive and well received. SEE ATTACHED PLANS
- 🌳 I am attaching a DRAFT Wildlife Viewing Implementation Plan from the PUD, and can pass along comments to Scott Krieter. SEE ATTACHED PLANS.
- 🌳 Our part time help Kim, is probably out for the remainder of the season due to health issues.
- 🌳 Reservations were up in the parks; however, \$1,200 was refunded due to smoke and the cancelling of salmon season.
- 🌳 Not all the furniture has been placed on the mall, but all three colors have. It is a challenge keeping them clean, and we have had to adjust placement in response to roosting birds.
- 🌳 We are working on a paired down Arbor Day event during the September Movie & Market. Parks Department will be planting two trees at Ives Landing Park for Arbor Day 2021.

City of Pateros Park & Sewer Fees										
	Parks RV/Camping/Parking Fees Memorial & Ives Landing					Ives Landing Dump Station (Sewer Dept)				
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
JAN	\$ -	\$ -			\$ 105.00	\$ -	\$ -			
FEB	\$ -	\$ 25.00			\$ 245.00	\$ -	\$ 10.00			
MAR	\$ -	\$ -			\$ 110.00	\$ -	\$ -			
APR	\$ 97.00	\$ 25.00	\$ 160.00		\$ 580.00	\$ 48.16	\$ 40.00	\$ 21.00	\$ 113.00	
MAY	\$ 136.50	\$ 332.00	\$ 85.00		\$ 775.00	\$ 95.85	\$ 85.00			\$ 186.00
JUN	\$ 423.00	\$1,227.85	\$ 35.00	\$1,855.00	\$2,635.00	\$ 228.00	\$ 240.00	\$ 230.75	\$ 268.00	\$ 519.41
JUL	\$ 279.00	\$2,866.88	\$1,200.00	\$3,318.00	\$1,794.25	\$ 276.00	\$ 285.00	\$ 280.92	\$ 224.00	\$ 120.00
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	\$1,125.00		\$ 97.00	\$ 143.00	\$ 236.06	\$ 126.25	
OCT	\$ 153.00	\$ 460.00	\$ 120.00	\$ 305.00		\$ 145.50	\$ 164.00	\$ 116.00	\$ 201.35	
NOV	\$ 6.00	\$ 37.00	\$ 145.00	\$ 2.00		\$ 104.75	\$ 53.00	\$ -	\$ -	
DEC	\$ -	\$ -	\$ -			\$ -	\$ 83.00	\$ -		
Total	\$2,700.09	\$9,463.73	\$4,224.25	\$8,599.00	\$6,244.25	\$1,300.26	\$1,215.00	\$1,039.73	\$1,274.35	\$ 825.41
7 Mo.	\$ 935.50	\$4,476.73	\$1,480.00	\$5,173.00	\$6,244.25	\$ 648.01	\$ 660.00	\$ 532.67	\$ 605.00	\$ 825.41

* July 2021 \$1,200 refunded due to smoke and cancelled salmon season.