

# City of Pateros, Public Works & Parks

## October 2022 –Report to City Council

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



Public Works Team  
Mike Lambert – Wastewater  
David Hunter – Water/Streets  
Ryan Sisler – Parks  
Dalton Heller – PW/Parks

## ADMINISTRATIVE

Winter came fast and hard on November 6<sup>th</sup>. Winterization of parks and irrigation were completed the last week of October. Progress on the winter barn was delayed as the crew prepared for the predicted storm. The first snow of the year is always a challenge, and this year was no different. We had several breakdowns and changes in routes due to the new sidewalk on Warren.

Considering the winter weather and projected cold weather, it seemed most prudent to delay completion of the winter barn until spring. We are disappointed but will regroup in the spring.

LnI was invited to inspect all of the City facilities and review our health and safety program. We received six reports.

## GRANTS, PLANNING, ECONOMIC DEVELOPMENT & PROJECTS

**Water System Improvement (Final Tasks)** – No update

**Welcome Center Project** – No update

**Shoreline Master Plan** – Kurt is finalizing a draft for committee review.

**General Sewer and Wastewater Facilities Plan (GSWFP)** – Varela is working on final draft. More time was spent on projecting future growth than was budgeted for.

**TIB Warren Street Sidewalk Grant** – Waiting on LnI documents to closeout.

**2022 Chip Seal/Crack Seal Project** – Project has been closed out! We were able to use \$10,220 in employee labor as our required match and additionally were reimbursed for \$5,410 for employee labor and paint. Total project cost was \$102,197.89. Total amount paved was 2.79 miles or about 7 football fields.

**Winter Barn** – We made a good start. The crew got the kinks worked out, but weather shut us down until spring.

**Solar Project** – Waiting on parts. No known arrival time.

**Stormwater Master Plan** – Grant/loan application submitted 10/10/2022. Mark up draft is expected in November, for review in December.

**Highway 97 Pedestrian Crossing & Pathway PBP DDO Project** – Awards expected May 23, 2022.

**Charging Stations** – Inquiry from contractor on building permits.

## PUBLIC WORKS

I invited LnI to inspect our facilities for safety. We have made corrections to most of the items on the list. A few changes and suggestions were made to our written plan. A final plan will be presented to the safety committee and to council for adoption.

### LnI Checklist

*Items in yellow considered serious and must be completed by deadline*

#### ITEMS COMPLETED:

- Treatment plant floor in headworks has crack in steel grating 10/28/2022 *Completed 10/27/2022*
- “No Exit” sign above tower door in Museum - *Sign installed*
- “No Exit” sign above electrical panel door in museum – *Sign installed*
- All fire extinguishers expired – *all city fire extinguishers inspected and up to date*
- Replace receptacles by two sinks located in the lab office with GFCI 10/28/2022 - *GFCI receptacles installed.*
- Deskins conveyor belt has 6 unguarded nip points 10/28/2022 *Taken out of service. Guards for 6 nip points to be built before bringing back into service.*
- Meyer Diamond Sander needs complete belt and pulley guard 10/28/2022 *Taken out of service. Guard to be built before bringing back into service*
- Meyer Diamond sander chain and sprocket drive need guarded 10/28/2022 *Taken out of service. Guard to be built before bringing back into service.*
- Replace light bulbs with plastic covered LEDs in Museum, old jail cells, and janitorial closet. – *bulbs replaced*  
Eye wash station required in Lab – 12/8/2022 *Eyewash station installed at lab sink.*
- Pump station #4 railing around air gap valve and drain 11/21/2022 – *Railing installed*
- Electrical panel inspection –11/15/2022 – *panels inspected*
- Confined Space Program needs updated – *program updated*
- HAZCOM needs updated - *program updated*
- Ladder training program 11/21/2022 – *program added to the Accident Prevention Program.*
- Eye wash station in UV room needs tested weekly and documented – *Added to the daily maintenance log*
- Accident Prevention Program needs updated to include City Hall staff. – *Program updated*
- Flexible cord associated with door opener in David’s Bay unattached from wall. 11/21/2022 *Completed*
- Pump station #4 electrical panel blocked, must have clear access. *Access cleared*
- Jet drill press anchored to floor. 11/21/2022 *Completed*
- Bench grinder tongue guard adjusted to within ¼” of the wheel 11/21/2022 *Completed*
- Bench grinder work rest adjusted to within 1/8<sup>th</sup> inch of the wheel 11/21/2022 *Completed*
- Makita 4” disk grinders must have safety guards attached. 11/21/2022 *Completed*

#### ITEMS TO BE COMPLETED:

- Eye wash station required in Public Works Shop. – 12/8/2022 **Ordered 10/31/2022 – May need extension**
- Unlabeled secondary container inspection – 12/8/2022

**OCTOBER/NOVEMBER ACTIVITIES**

- ✓ Winter barn construction work.
- ✓ LNI safety compliance
- ✓ Holiday lights
- ✓ Hydrant winterization
- ✓ Irrigation and restroom winterization
- ✓ Started vehicle/equipment winterization
- ✓ Prep for snow removal

**NOVEMBER/DECEMBER PLANNED ACTIVITIES**

- ❖ Equipment/vehicle maintenance
- ❖ Shop & facility maintenance
- ❖ Training
- ❖ Water line flushing
- ❖ Hydrant inspections
- ❖ LNI safety compliance activities
- ❖ Irrigation and restroom winterization
- ❖ Vehicle/equipment winterization

4TH QUARTER 2022							
PUBLIC WORKS PERPETUAL CALENDAR						%	✓
OCTOBER	WK 1	WK 2	WK 3	WK 4			
Fertilize Lawns					0		
Preliminary Holiday Inspection					100	✓	
Inspect street lights, trail lights, mall					100	✓	
Prep snow removal equipment					100	✓	
Winterize irrigation and park facilities					100	✓	
Leaf removal					25		
Snow & Ice logs prepared					100	✓	
NOVEMBER	WK 1	WK 2	WK 3	WK 4	%		
Winterize irrigation and park facilities					100	✓	
Take down tennis nets					100	✓	
Prep Mall for winter snow removal					100	✓	
Pull docks from Methow					100	✓	
Prep snow removal equipment					100	✓	
Meter & hydrant winterization					100	✓	
Hang Holiday Decorations					75		
Ensure DOH & ECY Annual Testing					100	✓	
Pull in-street pedestrian signs for					100	✓	
DECEMBER	WK 1	WK 2	WK 3	WK 4	%		
Shop Organization					0		
Facility Maintenance					0		
Fleet/equipment Service					10		

**PARKS & RECREATION**

- 🌿 The trail project is on hold until spring. KCRI may pour the concrete abutments if the weather allows, but paving is delayed until warmer weather.
- 🌿 The Methow Boat Launch dock is falling apart. I have made Scott at the PUD aware of the issue. They will be looking at it to see if it can be repaired. Currently there is no budget for a new dock. I did let him know that it is very difficult for us to pull this dock out of the river, and impossible when the water is low. So, a new dock that can raise up out of the water like those at Memorial would be desirable.
- 🌿 Ives Landing had a good year.
- 🌿 The sign for the new kiosk near bus stop will be installed this week.

Parks RV/Camping/Parking Fees Memorial & Ives Landing						
	2017	2018	2019	2020	2021	2022
JAN	\$ -	\$ -			\$ 105.00	
FEB	\$ -	\$ 25.00			\$ 245.00	
MAR	\$ -	\$ -			\$ 110.00	\$ 105.00
APR	\$ 97.00	\$ 25.00	\$ 160.00		\$ 580.00	\$ 1,500.00
MAY	\$ 136.50	\$ 332.00	\$ 85.00		\$ 775.00	\$ 1,260.00
JUN	\$ 423.00	\$1,227.85	\$ 35.00	\$1,855.00	\$2,635.00	\$ 2,990.00
JUL	\$ 279.00	\$2,866.88	\$1,200.00	\$3,318.00	\$1,794.25	\$ 2,590.00
AUG	\$1,195.24	\$3,676.00	\$ 740.25	\$1,994.00	\$1,105.00	\$ 1,295.00
SEP	\$ 410.35	\$ 814.00	\$1,739.00	\$1,125.00	\$1,437.10	\$ 340.02
OCT	\$ 153.00	\$ 460.00	\$ 120.00	\$ 305.00	\$ 135.00	\$ 983.40
NOV	\$ 6.00	\$ 37.00	\$ 145.00	\$ 2.00	\$ 35.00	
DEC	\$ -	\$ -	\$ -			
<b>Total</b>	<b>\$2,700.09</b>	<b>\$9,463.73</b>	<b>\$4,224.25</b>	<b>\$8,599.00</b>	<b>\$8,956.35</b>	<b>\$ 11,063.42</b>
<b>YTD</b>	<b>\$2,694.09</b>	<b>\$9,426.73</b>	<b>\$4,079.25</b>	<b>\$8,597.00</b>	<b>\$8,921.35</b>	<b>\$ 11,063.42</b>
Ives Landing Dump Station (Sewer Dept)						
	2017	2018	2019	2020	2021	2022
JAN	\$ -	\$ -				
FEB	\$ -	\$ 10.00				
MAR	\$ -	\$ -				\$ 24.00
APR	\$ 48.16	\$ 40.00	\$ 21.00	\$ 113.00		\$ 30.00
MAY	\$ 95.85	\$ 85.00			\$ 186.00	\$ 160.00
JUN	\$ 228.00	\$ 240.00	\$ 230.75	\$ 268.00	\$ 519.41	\$ 170.00
JUL	\$ 276.00	\$ 285.00	\$ 280.92	\$ 224.00	\$ 120.00	\$ 331.00
AUG	\$ 305.00	\$ 112.00	\$ 155.00	\$ 341.75	\$ 358.00	\$ 266.19
SEP	\$ 97.00	\$ 143.00	\$ 236.06	\$ 126.25	\$ 375.00	\$ 157.02
OCT	\$ 145.50	\$ 164.00	\$ 116.00	\$ 201.35	\$ 230.15	\$ 264.50
NOV	\$ 104.75	\$ 53.00	\$ -	\$ -	\$ -	\$ 131.29
DEC	\$ -	\$ 83.00	\$ -			
<b>Total</b>	<b>\$1,300.26</b>	<b>\$1,215.00</b>	<b>\$1,039.73</b>	<b>\$1,274.35</b>	<b>\$1,788.56</b>	<b>\$ 1,534.00</b>
<b>YTD</b>	<b>\$1,300.26</b>	<b>\$1,132.00</b>	<b>\$1,039.73</b>	<b>\$1,274.35</b>	<b>\$1,788.56</b>	<b>\$ 1,534.00</b>

## WATER DEPARTMENT

- The water plan is expired. Future improvements to the water system will require an update. Our last plan was drafted in 2014 and expired in 2019. DOH has extended the life of future water system plans from five years to ten years. I will be working with DWSRF (Drinking Water State Revolving Fund) and Varela on drafting a strategy and scope of work for Council to review in the coming months. The three most pressing issues are an update to the system plan, a rate study, and construction documents for water improvements on the Mall.

October		2022 WATER PRODUCTION									
	2018	2019	2020	2021	2022		2018	2019	2020	2021	2022
Jan	1,797,800	2,121,438	2,036,291	2,277,596	2,673,280	Jul	17,454,000	18,968,280	16,601,532	19,584,242	16,350,504
Feb	1,552,000	2,056,813	1,946,743	2,057,440	1,974,640	Aug	14,152,900	16,600,547	16,750,284	15,522,640	17,786,352
Mar	1,778,900	2,260,796	2,373,833	2,133,860	2,375,360	Sep	10,192,700	8,729,598	12,227,228	11,318,457	12,013,456
Apr	2,963,400	4,503,629	6,608,729	6,062,448	4,126,768	Oct	6,663,600	4,690,568	5,526,800	6,718,040	7,273,894
May	9,611,300	12,892,999	10,446,235	11,714,756	7,790,780	Nov	2,076,600	2,178,552	1,961,332	2,909,658	
Jun	13,457,700	16,082,186	13,249,332	15,794,652	11,013,668	Dec	1,867,529	1,918,369	1,943,276	2,196,784	
Year to Date Total	2018	2019	2020	2021	2022		Pump Station #3		7,273,894		
Gallons	79,624,300	88,906,854	87,767,007	93,184,131	83,378,702		Pump Station #4		-		
							% of change YTD compared to AVG 2018-2021			-5%	
<b>Water Quality Testing</b>											
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>										
10/25/2022	2 Test		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>										
10/1-10/31	Month Average of 0.28	Daily samples Mon-Fri		Target Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.3 - 1.50 (4.0 State MCL)							
Manganese Testing	<i>Historic Highs from old wells 0.2-0.7 &amp; DOH SMCL 0.05</i>										
Location	Date	Most Current		Average	High	Low	Median				
Pump Station #3	07/27/22	0.00010	PRIMARY	0.00117	0.01207	0.00010	0.00016				
Pump Station #4	09/07/22	0.30700	OFFLINE	0.13632	0.66800	0.00037	0.10130				

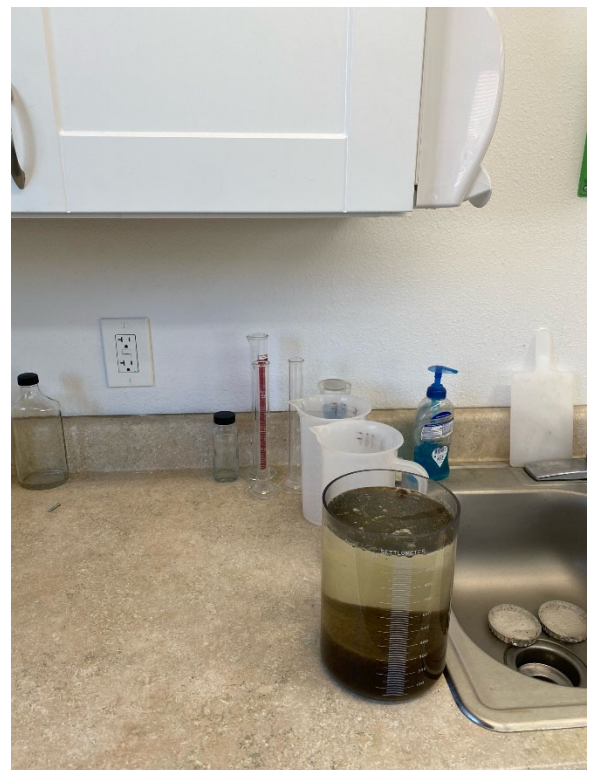
## STREET DEPARTMENT

- The crew completed the first plow of the year. The new sidewalk presents some challenges, and the crew will continue to adjust. Although there were some equipment break-downs, the plow went well.

## SEWER DEPARTMENT

- We have had a little difficulty passing some of our lab tests this year. Evergreen Rural Water and Andy O'Neal with Ecology are an asset.
- The Warren Avenue Lift Station has been running well since the work completed in October. We were also to make necessary repairs to our SCADA system and are now receiving appropriate alarms
- The rapid arrival of winter has delayed the hauling of biosolids until spring.

October		City of Pateros Sewer Department							
Permittee: Pateros POTW				Permit #: WA0020559		Operator: Mike Lambert			
2022 Wastewater Processed in Gallons									
	2019	2020	2021	2022		2019	2020	2021	2022
January	1,267,300	1,458,000	1,549,650	1,619,500	July	1,580,000	1,663,000	1,769,300	1,790,100
February	1,136,000	1,342,700	1,444,200	1,368,700	August	1,415,100	1,494,200	1,674,400	1,621,600
March	1,284,500	1,299,500	1,202,300	1,525,200	September	1,496,300	1,457,100	1,498,100	1,327,400
April	1,741,500	1,239,700	1,272,000	1,426,800	October	1,611,290	1,419,900	1,478,900	1,286,400
May	1,427,400	1,489,000	1,611,900	1,901,400	November	1,442,200	1,311,700	1,397,500	
June	1,448,900	1,488,700	1,771,300	1,697,400	December	1,433,100	1,227,900	1,627,900	
<b>Year To Date Totals Gallons Processed</b>		<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>% of change YTD compared to 2019</b>		<b>8%</b>	
		14,408,290	14,351,800	15,272,050	15,564,500				
Wastewater Effluent Monitoring									
<b>Total BOD 5-day</b>	<i>Organic Loading Rates (Permit Range ≥ 85%)</i>			<b>Fecal Coliform Bacteria</b>		<i>(Permit Range Weekly ≤ 100; Monthly ≤ 200)</i>			
Weekly Test	4 - Tests	99% removal		Monthly Geometric Mean		4-tests	49		
<b>TSS</b>	<i>Total Suspended Solids, non organics (Permit Range ≥ 85%)</i>			<b>Disolved Oxygen</b>		<i>Daily – Report Only</i>			
Weekly Test	4 - Tests	96% removal		Daily Test		Mon-Fri	6.4		
<b>pH</b>	<i>(Daily min/max permit range equal/between pH 6 and pH 9)</i>			<b>Temperature</b>		<i>Daily – Report Only Average Degree Celcius</i>			
Weekly Minimum	Mon-Fri	6.8		Daily Test		Mon-Fri	19		
Weekly Maximum	Mon-Fri	7.1		<b>Amonia (Report only)</b>		1 sample	10/20/2022	0.0	



Eye wash station and GFCI outlets installed at WWTP Lab