



WATER OPERATING BOARD

Monday, September 23, 2024, 3:00 PM
C&ED Conf Room
Longview City Hall
1525 Broadway Longview, WA 98632

AGENDA

The Water Operating Board will discuss and take action as appropriate on the following matters:

The City Hall is accessible for persons with disabilities. Special equipment to assist the hearing impaired is also available. Please contact the City Executive Office at 360.442.5004 48 hours in advance if you require special accommodations to attend the meeting.

To attend the meeting virtually, use the link or information below:

1. **ROLL CALL**
2. **MINUTES**
24-00908 Minutes of November 20, 2023 meeting
3. **PUBLIC COMMENT**
4. **WATER PRODUCTION/CONSUMPTION REVIEW**
24-00909 Consumption and connections
5. **FINANCIAL REVIEW**
24-00910 Operating budgets 2023-2024
6. **WHOLESALE WATER RATE**
24-00911 Wholesale water rate analysis and direction to staff
7. **WATER SUPPLY, TREATMENT, AND DISTRIBUTION**
24-00912 Project Updates
 - Niemi & Trella Reservoir mixers and chlorine injection for \$174,000
 - Mixer for Main Reservoir 3 & 4, Mt. Solo Reservoir and N. 50 Reservoir
 - Well #4 motor repair \$65,000
8. **FILTER PLANT CONSTRUCTION BUDGET**
24-00913
 - 3rd Hypochlorite Tank \$200,000
 - Equipment Building \$200,000
 - SCADA PLC network \$250,000
9. **TREATMENT PLANT OPERATING REPORT**
10. **PARTICIPANTS' AGREEMENT**

11. **OTHER BUSINESS**

**24-00914 General discussion of water treatment, distribution and Water Operating Board matters
Direction to Staff as appropriate**

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Keith Young

Staff

Chris Collins, Sam Barham, Brian Steveson, Thomas Daly, Lisa Vertrees





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1. **ROLL CALL**

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

Staff

Ken Hash, Chris Collins, Thomas Daly, Lisa Vertrees

2. **MINUTES**

23-001724 September 27, 2023 minutes

A motion was made by Member Ruth Kendall, seconded by Member Mike Wallin, to approve the regular meeting minutes of September 27, 2023. The motion carried unanimously.

3. **PUBLIC COMMENT**

None at this time.

4. **WATER PRODUCTION/CONSUMPTION REVIEW**

Review of flow information. New connections (see charts); total number of meters.

Connections vs. consumption reflect nationwide trends. Longview is down 14% in seven years.

**23-001725 Consumption vs. Connections
Electric vs. Consumption**

5. **FINANCIAL REVIEW**

We are currently under budget in electricity, salaries and repairs.

There have been some cost savings after the VFDs went in.

6. **WHOLESALE WATER RATE**

23-001726 Wholesale water rate analysis and direction to staff

\$864,744 in the fund.

Recommend no change in the wholesale rate and move some of the fund money to the construction

fund.

7. WATER SUPPLY, TREATMENT, AND DISTRIBUTION

23-001727 Project Updates

Moving funds to construction, we can fund the hypo tank, pump #4 rebuild, the storage building, and pump house design in the next few years. We are rebuilding pump #3 now.

A new hypo tank is important as the current tank has 10 days storage on high demand. There is a very small window when it is time to refill.

Pump house A & E - flow meter, move electrical away from pumps for better readings. It's easier to do all at once, one building at a time.

Well house - settling. The preload was removed too early and is a factor in the dissimilar settling.

Vibration analysis - develop a program after all pump houses are rebuilt.

8. FILTER PLANT CONSTRUCTION BUDGET

23-001728 Operating budget

Discussion continued from previous agenda item.

9. TREATMENT PLANT OPERATING REPORT

Hoping Pump #3 is back next month.

We are closing down a bit with winter months. We need to maintain water/chlorine levels for consistency.

A mixer has been put in Reservoir #5. We are planning to put mixers in all reservoirs along with chlorine injectors.

10. OTHER BUSINESS

23-001729 General Discussion

Direction to staff as appropriate

The budget will be presented at the December 7, 2023 Council workshop.

With no further business to discuss, the meeting adjourned at 4:30 p.m.

Lisa Vertrees, Clerk of the Board

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

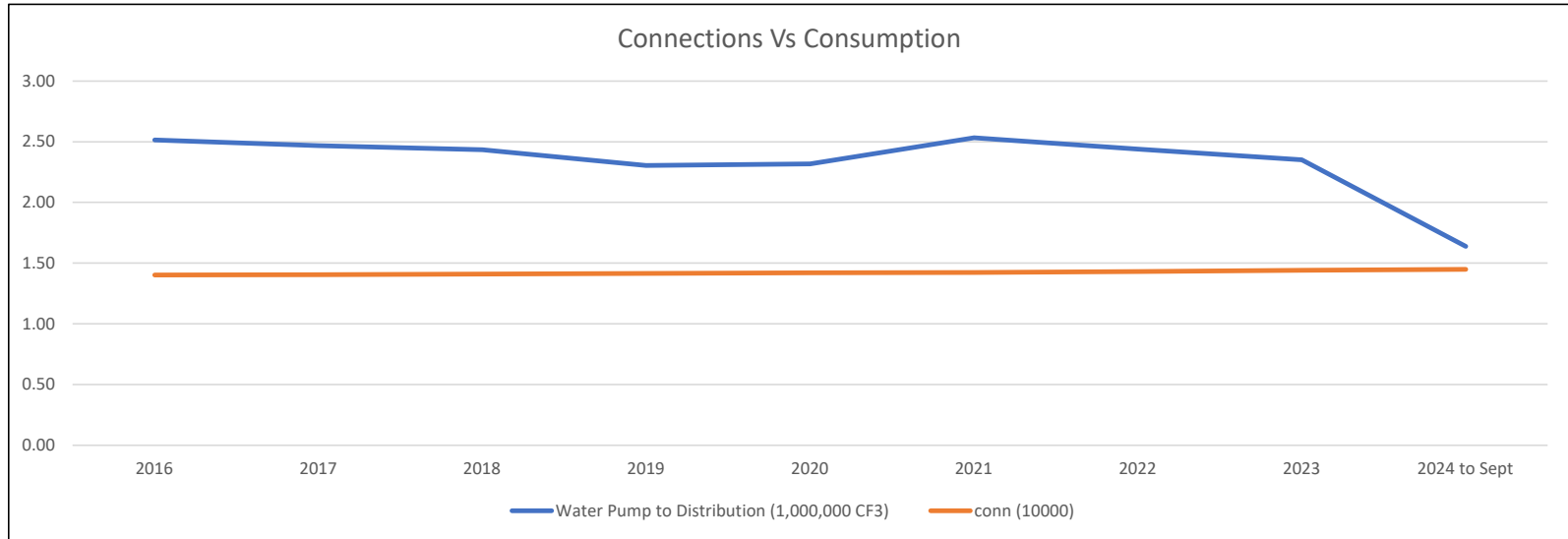
Staff

Ken Hash, Chris Collins, John Axford, Brian Steveson, Thomas Daly, Lisa Vertrees



Connections vs Consumption

| year | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 to Sept |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| connections | 14024 | 14056 | 14105 | 14146 | 14192 | 14225 | 14303 | 14419 | 14497 |
| added connections | 32 | 49 | 41 | 46 | 33 | 78 | 86 | 31 | 78 |
| Water Pump to Distribution (1,000,000 CF3) | 2.52 | 2.47 | 2.43 | 2.30 | 2.32 | 2.53 | 2.44 | 2.35 | 1.64 |
| conn (10000) | 1.4024 | 1.4056 | 1.4105 | 1.4146 | 1.4192 | 1.4225 | 1.4303 | 1.4419 | 1.4497 |



| CITY OF LONGVIEW - METER DISTRIBUTIONS BY SIZE AND CUSTOMER CLASS | | | | | | |
|---|---|--------------|------------------------------|------------|---------------------------|----------|
| METER SIZE* | TOTAL METERS BY SIZE (09-17-24 EDEN DATA) | RESIDENTIAL | | IRRIGATION | COMMERCIAL / INDUSTRIAL** | OTHER*** |
| | | SFR / DUPLEX | MULTIFAMILY (3 D.U. AND UP) | | | |
| 3/4" | 13,310 | 12298 | 38 | 38 | 500 | 436 |
| 1" | 677 | 221 | 215 | 24 | 186 | 31 |
| 1.5" | 250 | 7 | 99 | 27 | 99 | 18 |
| 2" | 195 | 3 | 47 | 20 | 82 | 43 |
| 3" | 34 | | 5 | 2 | 19 | 8 |
| 4" | 19 | | 4 | | 8 | 7 |
| 6" | 5 | | | | 3 | 2 |
| 8" | 7 | | 1 | | 6 | 0 |
| 10" | 0 | | | | | 0 |
| 12" | 0 | | | | | 0 |
| TOTALS: | 14,497 | 12,529 | 409 | 111 | 903 | 545 |

CATEGORY AS PERCENT OF TOTAL: 86.42% 2.82% 0.77% 6.23% 3.76%

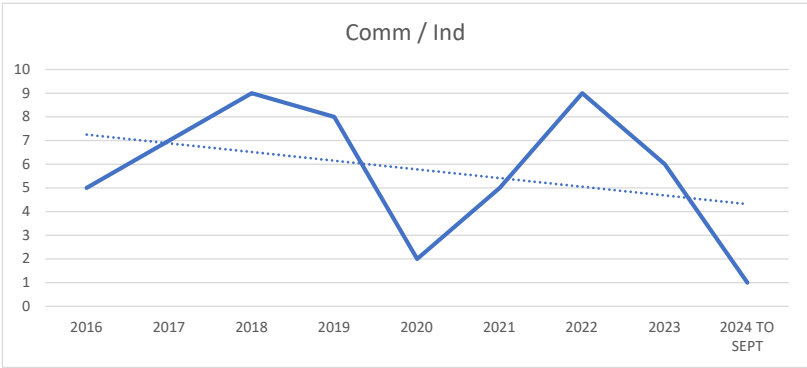
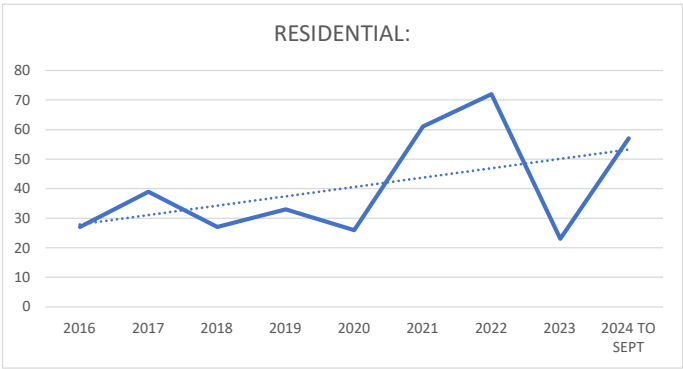
* CITY OF LONGVIEW METER SIZING IS GOVERNED BY LMC 15.48.010, ESTABLISHED BY ORD 1388 IN 1968. INDUSTRY GUIDANCE IS PROVIDED BY THE AWWA'S "SIZING WATER SERVICE LINES AND METERS," THIRD EDITION, 2014, AND BY THE UPC.

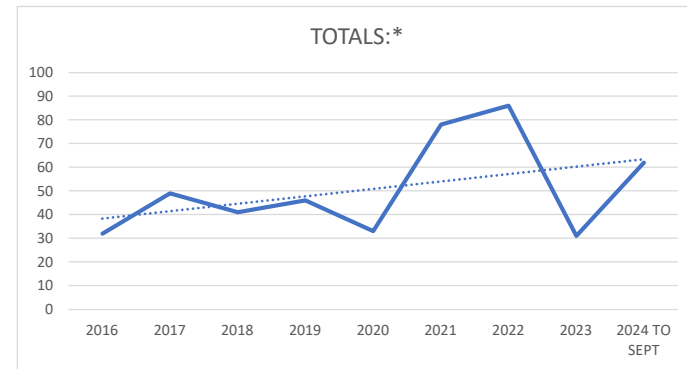
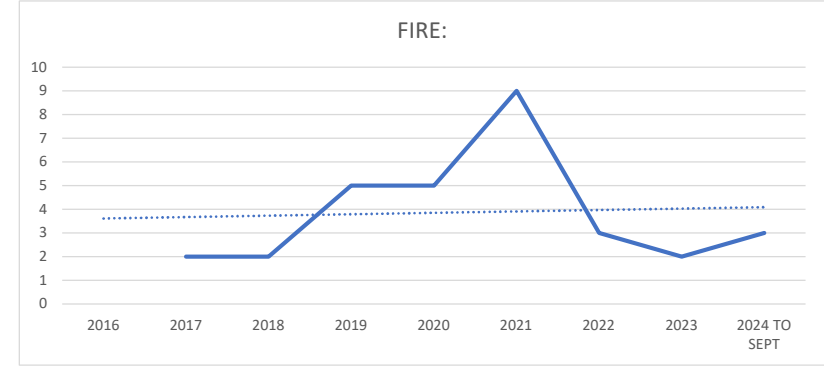
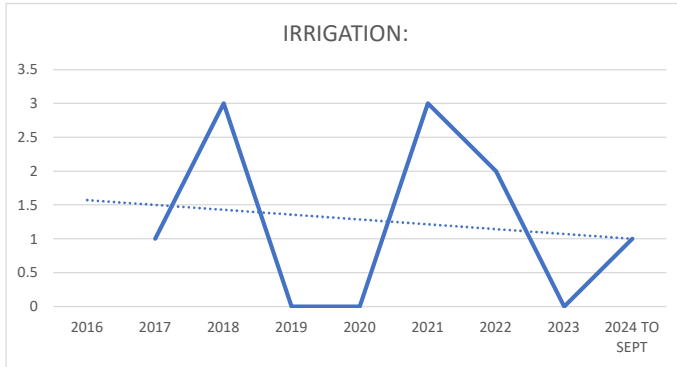
**COMMERCIAL / INDUSTRIAL INCLUDES RETAILERS, RESTAURANTS, AND INDUSTRIES

*** "OTHER" INCLUDES CHURCHES, HOSPITALS, SCHOOLS, AND CITY FACILITIES.

| CONNECTION PERMITS, 2016 - 2024 | | | | | | | | | | | | |
|---------------------------------|--------------------|--|------|------|------|------|------|------|------|------|--------------|---------------------|
| | | | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 TO SEPT | *TOTAL, 2016 - 2024 |
| | RESIDENTIAL: | | 27 | 39 | 27 | 33 | 26 | 61 | 72 | 23 | 57 | 365 |
| | COMM / INDUSTRIAL: | | 5 | 7 | 9 | 8 | 2 | 5 | 9 | 6 | 1 | 52 |
| | IRRIGATION: | | | 1 | 3 | 0 | 0 | 3 | 2 | 0 | 1 | 10 |
| | FIRE: | | | 2 | 2 | 5 | 5 | 9 | 3 | 2 | 3 | 31 |
| | TOTALS:* | | 32 | 49 | 41 | 46 | 33 | 78 | 86 | 31 | 62 | 458 |

*INCLUDES BOTH WATER-SEWER, WATER-ONLY, AND SEWER-ONLY CONNECTIONS. WATER-ONLY IS COMMON OUTSIDE THE CITY LIMITS; SEWER-ONLY CONNECTIONS ARE RARE, INSIDE OR OUTSIDE THE CITY LIMITS.





| FLOW SUMMARY (LONGVIEW ONLY - EXCLUDES BHWSO AND KELSO) | | | | | | | | | |
|--|-------------------|------------------|------------|------------------|---------------------------|------------------|----------|------------------|--|
| YEAR | TOTAL RESIDENTIAL | | IRRIGATION | | COMMERCIAL / INDUSTRIAL** | | OTHER*** | | TOTAL FLOW, SUMMED FROM METERED DELIVERY |
| | FLOW | PERCENT OF TOTAL | FLOW | PERCENT OF TOTAL | FLOW | PERCENT OF TOTAL | FLOW | PERCENT OF TOTAL | |
| 2006 | 0 | #DIV/0! | 0 | #DIV/0! | 0 | #DIV/0! | 0 | #DIV/0! | 0.00 |
| 2013 | 1,177,653 | 69.7% | 35,469 | 2.1% | 363,769 | 21.5% | 112,867 | 6.7% | 1,689,758 |
| 2015 | 1,204,711 | 67.4% | 53,462 | 3.0% | 408,655 | 22.9% | 120,987 | 6.8% | 1,787,815 |
| 2022 | 1,097,097 | 62.8% | 36,230 | 2.1% | 478,445 | 27.4% | 134,442 | 7.7% | 1,746,214 |
| 2023 | 931,664 | 45.8% | 41,612 | 2.0% | 441,819 | 21.7% | 617,543 | 30.4% | 2,032,638 |
| 2024 to September | 574,861 | 46.2% | 23,176 | 1.9% | 340,371 | 27.3% | 306,394 | 24.6% | 1,244,802 |

NOTES:

- THE ENERGY POLICY ACT OF 1992 MANDATED LOW-FLOW FIXTURES. RESIDENTIAL REQUIREMENTS TOOK EFFECT IN JANUARY 1994, WITH COMMERCIAL FOLLOWING IN 1997.
 - YEARS REPORTED WERE SELECTED TO EVALUATE THE IMPACT OF THE 1992 ACT OVER TIME, AS THE REQUIREMENTS BEGAN TO SHOW RESULTS IN NEW CONSTRUCTION.
 - WATER CONSUMPTION ALSO VARIES WITH UTILITY COSTS, WEATHER, CONSUMER CONFIDENCE, CONSUMER CONSERVATION EDUCATION, AND TRENDS IN HOME DESIGN.

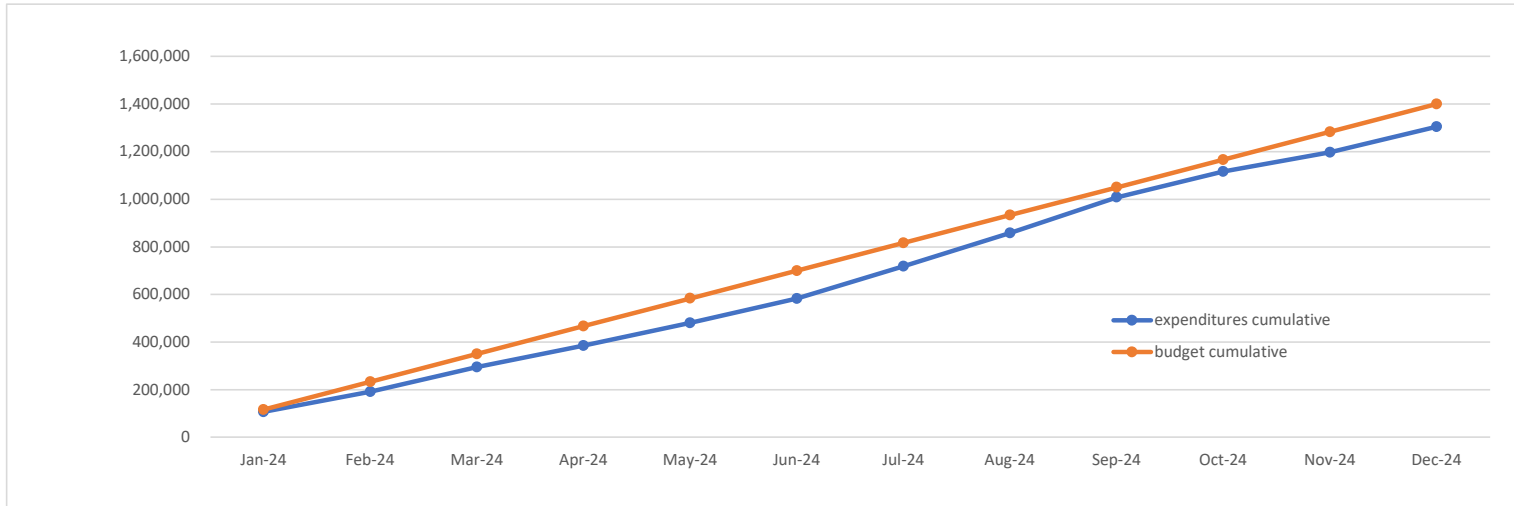
2. ALL FLOWS ARE REPORTED IN "UNITS." ONE UNIT = 100 CUBIC FEET, OR 748 GALLONS.

4. KEY DATES:

- 1991 - CITY BEGINS USE OF 'EDEN' SOFTWARE FOR TRACKING ACCOUNTS, METER READS, AND CUSTOMER CONSUMPTION. PREVIOUS DATA ARE NOT ACCESSIBLE.
- 1994 - RESIDENTIAL LOW-FLOW REQUIREMENTS UNDER THE 1992 ENERGY POLICY ACT TAKE EFFECT - FOR NEW CONSTRUCTION.
- 2005 - SIGNIFICANT 'EDEN' UPGRADES; DATA PRIOR TO 2005 DISRUPTED.
- 2015 - FIRST FULL YEAR OF WATER PRODUCTION AT THE MINT FARM FILTER PLANT
- 2022 - LAST FULL YEAR OF RECORDS
- 2023 - STILL NEED TO DETERMINE WHY OTHER SPIKED. IT MIGHT BE A REPORTING ISSUE.

Filter 2023
 Budget analysis by month

| | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | total |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|
| Filter Ops Budget | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 116,665 | 1,399,980 |
| budget cumulative | 116,665 | 233,330 | 349,995 | 466,660 | 583,325 | 699,990 | 816,655 | 933,320 | 1,049,985 | 1,166,650 | 1,283,315 | 1,399,980 | |
| Filter ops Expenditures | 106,621 | 85,273 | 102,632 | 90,837 | 94,901 | 102,753 | 135,397 | 140,167 | 149,617 | 108,661 | 80,530 | 106,871 | |
| expenditures cumulative | 106,621 | 191,894 | 294,526 | 385,362 | 480,263 | 583,016 | 718,414 | 858,580 | 1,008,197 | 1,116,859 | 1,197,389 | 1,304,260 | 1,304,260 |



Filter 2024
Budget analysis by month

| | Jan-24 | Feb-24 | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Filter Ops Budget | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 | 118,976 |
| budget cumulative | 118,976 | 237,952 | 356,928 | 475,903 | 594,879 | 713,855 | 832,831 | 951,807 | 1,070,783 | 1,189,758 | 1,308,734 | 1,427,710 |
| Filter ops Expenditures | 114,055 | 175,989 | 161,878 | 92,481 | 111,804 | 109,151 | 85,517 | 129,730 | 149,617 | 108,661 | 80,530 | 106,871 |
| expenditures cumulative | 114,055 | 290,043 | 451,921 | 544,402 | 656,206 | 765,357 | 850,874 | 980,604 | 1,130,221 | 1,238,882 | 1,319,413 | 1,426,284 |

