

**Water Department Monthly Report
November, 2023**

Operations

1. During monthly operations, the Water Plant remained in compliance with both federal and state water quality and reporting requirements.
2. Distribution systems pressures and flows met the needs of tire supression and consumer needs.
3. Staff continues to move forward with the EPA-mandated Lead Service Line Inventory.

Maintenance and Improvements

1. Water Plant and Distribution staff performed required maintenance tasks throughout the month.
2. Staff performed tasks at Elkhead Reservoir that included release rate changes, routine maintenance, and groundskeeping.
3. Staff replaced a 10" street valve in a problematic stretch of water main near 9th St. and Rose St.

Water Production Statistics

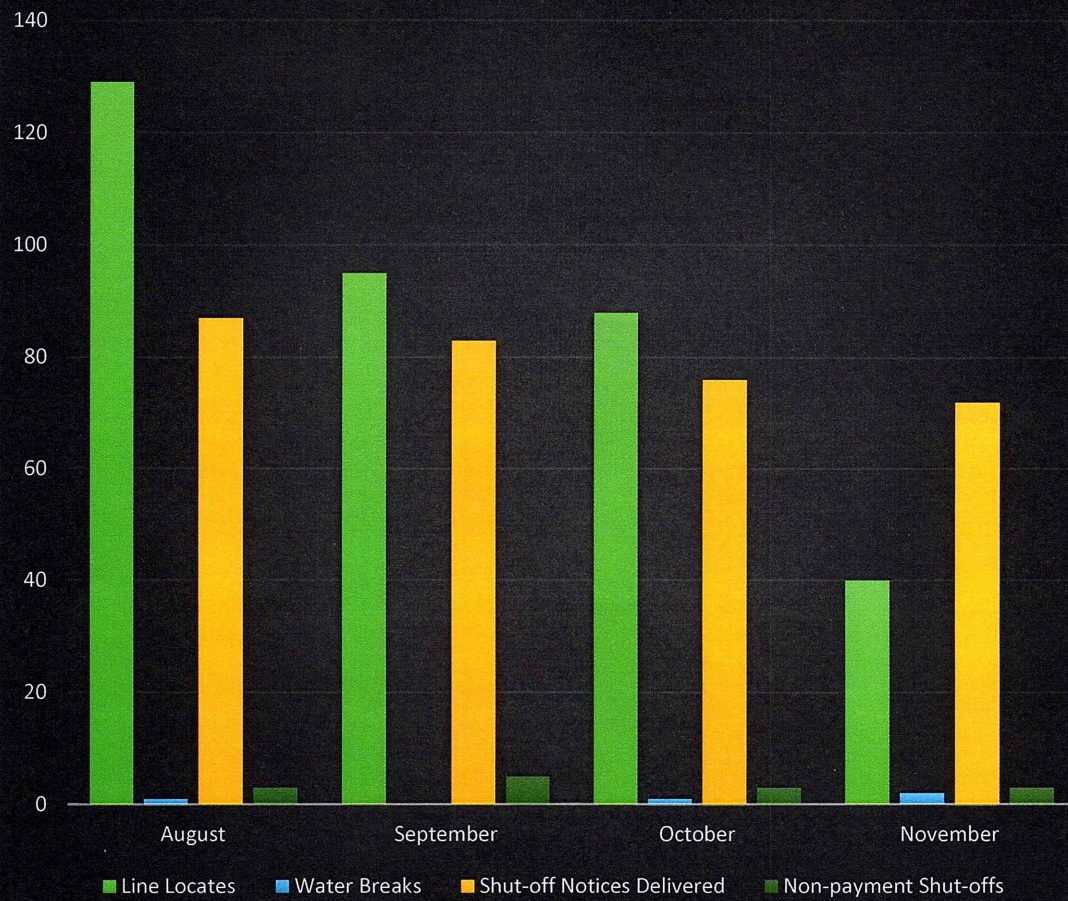
Effluent Total Flow (gallons)	26,797,000
Backwash Total Flow (gallons)	778,000
Total Gallons	27,575,000

Total Chemical Cost	\$6,537.91
Total Chemical Cost/MG	\$289.61
ACH and Soda Ash Cost/MG*	\$11.46

Backwash % of Total Flow = 2.820%

Average Daily Production = 919,167

Distribution Trends



ACTIVITY	Nov, 2023	YTD
Distribution System Operation		
Une Locates	40 (20 Man Hrs)	847 (423.5 Man Hrs)
Hydrants Flushed	3	68
Valves Worked	4	180
Service Turn On/Offs	11	129
Distribution System Maintenance		
Water Breaks	2 (Bus Barn, 595 Steele St)	11
Service Une Repairs	1 - 677 Yampa Ave	24
Meters Replaced	O Upgrade / O Frozen	30 Upgrades / 30 Frozen
MXUs Replaced	2	42
Hydrant Repairs	0	10
Taps	0	27
Final Reads	11	185
Shut Off Notices Delivered	72 {3.6 Man Hrs}	759 (45.7 Man Hrs)
Non-Payment Shut Offs	3	36
Winterize Pump Stations		
Replaced 10 th Street Valve	9th & Rose St	

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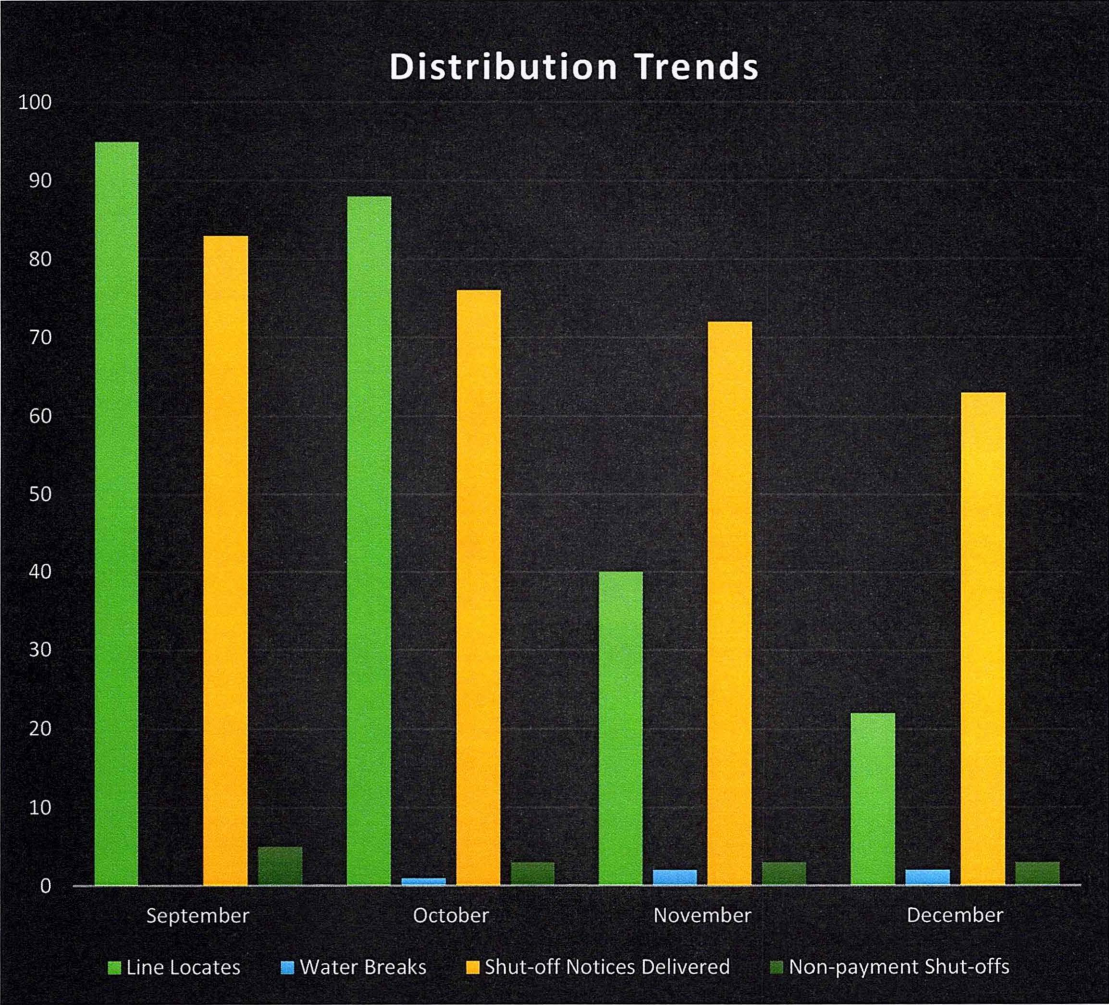
Water Production Statistics

Effluent Total Flow (gallons)	29,350,000
Backwash Total Flow (gallons)	1,496,000
Total Gallons	30,846,000

Total Chemical Cost	\$7,296.31
Total Chemical Cost/MG	\$236.54
ACH and Soda Ash Cost/MG*	\$113.15

Backwash % of Total Flow = 5.100%

Average Daily Production = 995,032 gallons



ACTIVITY	Dec, 2023	YTD
Distribution System Operation		
Une Locates	22 (11 Man Hrs)	869 (434.5 Man Hrs)
Hydrants Flushed	0	68
Valves Worked	5	185
Service Turn On/Offs	10	139
Water Breaks	2 (6th & Green, 7th Ave W)	13
Service Une Repairs	2	26
Meters Replaced	O Upgrade / 4 Frozen	30 Upgrades / 34 Frozen
MXUs Replaced	1	43
Hydrant Repairs	0	10
Taps	0	27
Other		
Final Reads	11	196
Shut Off Notices Delivered	63 (3.15 Man Hrs)	822 (41.1 Man Hrs)
Non-Payment Shut Offs	1	37
Quarterly Tank Inspections		
Annual Backflow Tests	18	52

ACTIVITY	2023 Annual
Distribution System Operation	
Line Locates	869 (434.5 Man Hrs)
Hydrants Flushed	68
Valves Worked	185
Service Turn On/Offs	139
Distribution System Maintenance	
Water Breaks	13
Service Line Repairs	26
Meters Replaced	30 Upgrades / 34 Frozen
MXUs Replaced	43
New Fire Hydrants Installed	5
Hydrant Repairs	10
Taps	27
Other	
Final Reads	196
Shut Off Notices Delivered	822 (41.1 Man Hrs)
Non-Payment Shut Offs	37
Meter Pits Removed	5
Annual Backflow Tests	52
13th St & Barclay St PRV Repair	
Kennedy Fire Hydrant Training	
Backflow Tester Recertification	
8th St & Russell Test Hales	
Assisted with Sewer Jetting	
Flood Prevention	
Quarterly Tank Inspections	
Cleaned Oxidation Ditch	
9th St & Rose St 10 ^{ll} Valve Replace	
North Water Sales Upgrades	
1605 N Yampa Ave Sewer Repair	

Craig Water Department 2023 Annual Summary



Total Production MG	601.3
Total Backwash MG	15.9
Total Backwash %	2.64
Peak Month MG	96.3 (July)
Average Daily Production MG	1.648
Total Annual Chemical Cost	\$204,891.43
Chemical Cost/MG	\$340.75

During the year 2023, the Craig Water Department successfully met the needs of consumers and community alike. We continuously maintained compliance with both State and Federal regulations governing the industry

Monthly Report
Wastewater
November, 2023

A. Treatment - Operation:

1. Operated treatment plant to comply with State and Federal regulations.
2. Performed daily, weekly, and monthly maintenance as recommended in the manufacturer's manuals.
3. Treated average of 914,000 gallons/day of wastewater.
4. Treated 6,500 gallons hauled waste.
5. Biosolids have land applied.

B. Collection - Operation:

1. 20 man hours used to perform 40 locates.
2. 5 man hours used to hydraulically clean 0.16 miles of sewer main as part of an annual cleaning program.
3. 36 man hours used to hydraulically clean 0.75 miles of sewer main as part of routine (every 5 weeks) maintenance.

C. Collection - Correction

1. 2 man hours used to respond to a backup complaint at 2201 B St. Main was inspected and found to not be flowing well. The main was hydraulically cleaned and then video inspected. Operators found a root mass within the main and were able to clear it, returning flow to normal. No damage to residence was reported.
2. 1 man hour used to respond to a backup complaint at 366 Taylor. The main was inspected and found to be flowing well. Determined to be homeowner's issue.

D. Other:

1. Assisted other departments, local plumbers, and contractors as needed.
2. Analyzed Maybell's Wastewater Plant monthly samples.

Monthly Report
Wastewater
December, 2023

A. Treatment - Operation:

1. Operated treatment plant to comply with State and Federal regulations.
2. Performed daily, weekly, and monthly maintenance as recommended in the manufacturer's manuals.
3. Treated average of 887,000 gallons/day of wastewater.
4. Treated 10,200 gallons hauled waste.

B. Collection - Operation:

1. 11 man hours used to perform 22 locates.
2. 36 man hours used to hydraulically clean 0.75 miles of sewer main as part of routine (every 5 weeks) maintenance.

C. Collection - Correction

1. 1.5 hours used to respond to a report of water coming out of a manhole at 9th & Ashley. Operators vacuumed out the manhole and then hydraulically cleaned the main where they encountered an obstruction and cleared it. No damage to homes was reported.
2. 1 man hour used to respond to a complaint of water not draining at the Dollar Tree. Operators inspected the main and found it to be flowing well. Determined to be business owner's issue.
3. 2 man hours used to respond to a complaint of slow drains at 908 Colby Circle. A local plumber said that the service line was offset. Operators hydraulically cleaned and then video inspected the main. Video inspection showed heavy roots growing into the main from homeowner's tap. Homeowner was told they will need to fix tap.

D. Other:

1. Assisted other departments, local plumbers, and contractors as needed.
2. Analyzed Maybell's Wastewater Plant monthly samples.

City of Craig Wastewater Department 2023 Annual Summary



Wastewater

Total Gallons Treated	380,358,000	Average Daily Flow	1,042,000
Peak Flow (April)	2,216,000		
Chemical Cost	\$25,576.20	Chemical Cost/MG	\$67.24

Collection System

26.21 miles of sewer pipe were cleaned

23 Backup Complaints 20 Backups didn't require assistance beyond our department

3 Backups were referred to Liz for insurance purposes

Biosolids

Total Produced	323 Dry Metric Tons (this includes 155 DMT from 2022)
Total Land Applied in 2023	204 Dry Metric Tons (this includes 98 DMT from 2022)

The City of Craig Wastewater Treatment Plant was able to remain in compliance with State and Federal regulations throughout the year, even in April when our flows were higher than have ever been experienced (due to an abundance of melting snow). 2023 proved to be a successful year and we look forward to another successful year in 2024.