

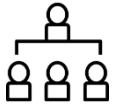
Water and Sewer Board

Regular Meeting

City Council Chambers – City Center South

1001 11th Avenue – Greeley, Colorado

August 21, 2024 at 2:00 p.m.



Regular meetings of the Water and Sewer Board are held **in person** on the 3rd Wednesday of each month in the City Council Chambers, 1001 11th Avenue, Greeley, Colorado.



Members of the public may attend and provide comment during public hearings.



Written comments may be submitted by US mail or dropped off at the

Water and Sewer office located at 1001 11th Avenue, 2nd Floor, Greeley,



CO 80631 or emailed to wsadmin@greeleygov.com. All written

comments must be received by 10:00 a.m. on the date of the meeting.

Meeting agendas and minutes are available on the City's meeting portal at <https://greeleyco.portal.civicclerk.com/>

IMPORTANT – PLEASE NOTE

This meeting is scheduled as an **in-person session only**. If COVID, weather, or other conditions beyond the control of the City dictate, the meeting will be conducted virtually and notice will be posted on the City's CivicClerk meeting portal by 10:00 a.m. on the date of the meeting (<https://greeleyco.portal.civicclerk.com/>).

In the event it becomes necessary for a meeting to be held virtually, use the link below to join the meeting via Zoom. <https://greeleygov.zoom.us/j/84218093588>

For more information about this meeting or to request reasonable accommodations, contact the administrative team at 970-350-9801 or by email at wsadmin@greeleygov.com





Water & Sewer Board

August 21, 2024 at 2:00 PM

1001 11th Avenue, City Center South, Greeley, CO 80631

Agenda

1. Roll Call: _____ Chairman Harold Evans _____ Vice Chairman Mick Todd
 _____ Ms. Cheri Witt-Brown _____ Mr. Fred Otis
 _____ Mr. Joe Murphy _____ Mr. Tony Miller
 _____ Mr. Matt Anderson _____ Mayor John Gates
 _____ Mr. Raymond Lee _____ Ms. Tyra Litzau
2. Moment of silence for the passing of Robert (Bob) Ruyle
3. Approval of Minutes
4. Approval of the Agenda
5. Welcome New Employees and Promotions
6. Recognition of service for retired Board Member Manuel Sisneros
7. Update on Meter Replacement Project
8. Update on Backflow Prevention and Cross Connection Compliance
9. Legal Report
10. Director's Report
11. Such Other Business That May Be Brought Before the Board Added to This Agenda by Motion
 of the Board
12. Adjournment



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact the Water and Sewer Department administrative staff at 970-350-9801 or wsadmin@greeleygov.com



Water & Sewer Agenda Summary

August 21, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Moment of silence in observation of the passing of Robert (Bob) Ruyle

Summary:

The Water and Sewer Board and Department staff request a moment of silence for Board member emeritus Mr. Robert (Bob) Ruyle. A portion of Mr. Ruyle's obituary, which can be found in full at: <https://www.dignitymemorial.com/obituaries/greeley-co/robert-ruyle-11912761>

Robert Arthur Ruyle, known to all as Bob, died peacefully at home on July 27, 2024, surrounded by his family and friends. He was 89 years young. Bob was born in Greeley and a proud resident of what he called "the center of the universe." He graduated from Greeley Central High in 1953, where he played on the State Championship basketball and tennis teams. He attended the University of Northern Colorado and earned his law degree in 1959 from the University of Colorado, Boulder where he became a lifelong and avid Buff. Bob was generous with his community, active and fun to be around. To paraphrase nearly everyone, "when I grow up, I want to be like Bob."

Bob served as a member of the Greeley Water Board from 1975 until 2021 and, thereafter, as an emeritus member. Over the years he also served as a director and/or board member for numerous local organizations including the Greeley Chamber of Commerce, Greeley Industrial Development Foundation, Northern Colorado Foundation, North Colorado Medical Center Foundation, Longs Peak Council of the Boy Scouts of America (which honored him as a distinguished citizen in 1997), Mountain Prairie Council of the Girl Scouts of America, University of Colorado Foundation, University of Colorado School of Law (Alumni Board) and University of Colorado Presidents Leadership Class. He was a founder of the Union Colony Bank of Greeley. Bob was a member of the Greeley Country Club, Colorado Arlberg Club, Beebe Draw Gun Club, and the First Congregational Church.

Bob's profession was law. He started his career in private practice with his father-in-law and early mentor David J. Miller. His career took a dramatic turn when he joined Hensel-Phelps Construction Company as its first Vice President & General Counsel. At Hensel-Phelps he became one of the leading lawyers in construction and water law. So much so, that he became the first lawyer to serve on the Executive Committee of the National Associated General Contractors of America. In that capacity he served as the chairperson of the Corp of Engineers, Heavy and Industrial Division and Water Resources Committees. In 1991 the University of Colorado bestowed upon him a Distinguished Achievement Award as an Executive in Industry. After his retirement from Hensel-Phelps in 1992 he returned to solo practice, helping his friends, relatives, and his community

Recommended Action:

A moment of silence in observation of the passing of Mr. Ruyle

Recommended Motion:

N/A

Attachments:

None

**City of Greeley
Water and Sewer Board
Minutes of July 18, 2024
Regular Board Meeting**

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:00 p.m. on Thursday July 18, 2024.

1. Roll Call

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans, Vice Chairman Mick Todd, Fred Otis, Tony Miller, Joseph Murphy, Cheri Witt-Brown, Mayor John Gates, Director of Finance Tyra Litzau

Water and Sewer Department Staff:

Director Sean Chambers, Interim Deputy Director Water Resources Randy Gustafson, Deputy Director of Utility Finance and Customer Service Erik Dial, Chief Engineer Adam Prior, Office Manager Gigi Allen, Water Enterprise Financial Analyst Crystal Sanchez, Utility Finance Manager Virgil Pierce, Deputy Director of Operations and Maintenance Rebecca Andrus, Civil Engineer IV Jim Paulson, Water Resource Administrator II Alex Tennant, Water Resource Operations Manager Leah Hubbard, Water Conservation Manager Dena Egenhoff, Water Conservation Coordinator Ben Schaffer, Instrument and Control Supervisor Mat Finch, Administrative Assistant III Lisa Van Vorous,

Legal Counsel:

Supervising Senior Environmental and Water Resources Attorney Jerrae Swanson, Senior Environmental and Water Resources Attorney Dan Biwer, Environmental and Water Resources Attorney I Arthur Sayre, Counsel to Water & Sewer Board Attorney Jim Noble

Guests:

Emeritus Bob Ruyle, James Sutherland from Wingfoot, Business Manager CPRD Benjamin Alexander, Police Chief Adam Turk, Fire Chief Brian Kuznik, Lisa Denke - Citizen

2. Approval of Minutes

Mr. Murphy made a motion, seconded by Mr. Todd to approve the June 2024 Water and Sewer Board meeting minutes. The motion carried 6-0.

3. Approval of Agenda

There were no changes to the agenda.

4. Welcome New Employees and Promotions

Director Sean Chambers provided an introduction of new Water and Sewer Department employees starting this month.

5. City of Greeley 2024 Ballot Initiatives

Business Manager CPRD Benjamin Alexander, Police Chief Adam Turk and Fire Chief Brian Kuznik discussed three potential ballot measures moving forward this fall. The measures discussed were Food Tax, TIFIA Debt Issuance, and Public Safety.

6. Approve Resolution Authorizing a CWRPDA Loan for Lead Service Line Replacements Program

Virgil Pierce discussed that due to an inadvertent error, the proposed Resolution to approve CWRPDA loan was not included in the W&S Board packet last month, and because of this it is being brought back to the Board this month for a vote.

The CWRPDA has authorized a \$21M loan from the Colorado Drinking Water Revolving Fund for the city's Lead Service Line Identification and Replacement efforts. The CWRPDA provides public drinking water systems in Colorado with low interest loans from federal and state funds for drinking water infrastructure. The CWRPDA approval includes \$10M in principal forgiveness for the loan.

Vice Chairman Todd moved that the Board approve the Resolution authorizing a loan from the Colorado Water Resources and Power Development Authority for the Lead Service Line Replacement Program. Mr. Otis Seconded the motion. Ms. Witt-Bown abstained from the vote. The motion carried 5-0.

Instrument and Control Supervisor Mat Finch joined the meeting at 2:45 pm.

7. Approve and Recommend to the City Manager the Water and Sewer 2025 Operating and Capital Budget

Erik Dial and Virgil Pierce presented and discussed the 2025 operating budget and the ten-year capital program with the Water and Sewer Board. The operating and capital budgets were prepared with an eye to the future, incorporating capital improvements from master plans, building the operational teams to meet the needs of a growing City, and meeting the high level of service expected when providing water and sanitary sewer services. The enclosed capital budgets meet the regulatory, rehabilitation, and long-range growth needs of the City's water and sewer services while being mindful of the rates that Greeley's citizens pay.

On average, residential water bills will increase approximately \$4.22/month and residential sewer bills will increase approximately \$1.70/month for a total water and sewer bill will increase to \$5.92/month. The water PIF for a 3/4" tap will increase by \$850 to \$13,750 and the sewer PIF will increase by \$1,150 to \$8,650

The Board requested to see comparisons on PIF costs with other surrounding communities. The City stated they will prepare a comparison graph and email the Board in a week.

Vice Chairman Todd moved that the Water and Sewer Board approve and recommend to the City Manager the Water and Sewer 2025 Operating and Capital Budget. Mr. Murphy seconded the motion. The motion carried 6-0.

Dena Egenhoff left the meeting at 2:58 pm
Jerrae Swanson left the meeting at 4:16 pm
Crystal Sanchez left the meeting at 4:23 pm
Jim Paulson left the meeting at 4:24 pm
Mat Finch left the meeting at 4:24 pm

8. Update on SCADA Master Plan

Jim Paulson discussed how the City of Greeley Water and Sewer Department is currently working on development of the Supervisory Control and Data Acquisition (SCADA) system Master Plan. The SCADA system is in dire need of upgrades in both physical hardware and software. Recent and pending regulatory requirements necessitate an upgraded system for cyber security. Furthermore, the department desires to have a more comprehensive real-time and historical data archive for access to evaluate system operations and upgrades.

The SCADA MP includes a review of the current state of the system, development of a vision and goals for the system, gap analysis and identification of projects to upgrade the system. Many of the gaps are due to existing and pending regulatory requirements for water system cybersecurity.

9. Legal Report

James Noble provided the Legal Report. Based on staff and counsel's review of the May 2024 Water Division 1 Resume, they recommended that the Water and Sewer Board authorize filing statements of opposition by the end of July 2024 to the following water court applications:

- 1. Case No. 24CW3078:** this application involves an application by the Central Colorado Water Conservancy District (GMS) to adjudicate conditional groundwater rights for wells to be used for industrial purposes and to add them to its existing augmentation plan. The

wells will be used for gravel mining operations, oil and gas development, and the development of the “Sweet Valley Reservoir Complex” that is the subject of pending Case No. 23CW3181. Mr. Noble Recommended that Greeley file a statement of opposition in this case to ensure Central’s operation of these new conditional groundwater rights does not injure Greeley’s water rights.

2. **Case No. 24CW3079:** This is an application to change water rights for 48 shares of the W.R. Jones Ditch, which is located on the south side of the Cache la Poudre River northwest of Greeley, and for an augmentation plan to use these water rights to replace depletions caused by ponds to be built by the applicants. Mr. Noble recommended that Greeley file a statement of opposition in this case to ensure that the water rights are properly quantified and to protect Greeley’s water rights from injury.

Vice Chairman Todd moved that the Board authorize filing statements of opposition in Case Nos. 24CW3078 and 24CW3079 and for staff and legal counsel to seek resolution of issues raised by these cases consistent with Water and Sewer Board Resolution No. 3, 2015. Mr. Murphy seconded the motion. The motion carried 6-0.

10. Executive Session

Chairman Evans moved that the Board hold an executive session to address the following matters as provided by C.R.S. § 24-6-402(4)(a), (b), and (e) and Greeley Municipal Code § 2-151(a)(1), (2), and (5):

1. For the purposes of obtaining legal advice, determining positions relative to matters that may be subject to negotiations, developing strategy for negotiations, and instructing negotiators on matters related to water rights acquisition strategy within the context of current water market conditions.
2. For the purposes of obtaining legal advice, determining positions relative to matters that may be subject to negotiations, developing strategy for negotiations, and instructing negotiators on matters related to the purchase and sale of Water Supply and Storage Company water rights.

Mr. Murphy seconded the motion. The motion passed.

Roll Call was taken, the Board members present were, Chairman Evans, Vice Chairman Todd, Mr. Miller, Mr. Murphy, Mr. Otis, Ms. Witt-Brown, Ms. Litzau

Ms. Witt-Brown left the meeting at 5:00 pm

Deputy City Manager Rachel Flynn joined the meeting at 5:13 pm

11. Approve Walker Water Rights Acquisition

Cole Gustafson presented that the Water and Sewer staff recommend that the Water and Sewer Board approve the enclosed Purchase and Sale Agreement (PSA) for water rights with Greg Walker. The Agreement contemplates Greeley's purchase of one (1) share of the Water Storage and Supply Company (WSSC) and affiliated lateral right. A dry-up covenant, revegetation covenant, and a leaseback are included in the Purchase and Sale Agreement. The total purchase price is \$4,000,000.

Vice Chairman Todd moved that the Board approve the enclosed water rights purchase and sale agreement with Greg Walker and exhibits and delegate authority the Director of Water and Sewer or his designee, to make minor amendments to the documents including but not limited to corrections to property descriptions and contract extensions and to undertake all necessary and appropriate action to close on the transaction. Mr. Miller Seconded the motion. The motion carried 5-0.

12. Director's Report

Sean Chambers provided the Water & Sewer Board and staff with a brief update on the following items of water utilities policy interest;

Update on the limiting impacts of HB24-1344

Communication with CDPHE, DNR, Governors Office and the State Plumbing Board
This little-known law change significantly limits cross connection and backflow testing to those individuals with backflow certification and master plumbers license. The result is that approximately 85% of previously certified backflow device testers in Northern Colorado will no longer have all the required certifications. Extreme scarcity in certified testers has now defined this service market and affects device owners and water utilities.

Education and Advocacy and Events Calendar

BizWest Confluence Water & Energy Summit

August 1st in Boulder, CO <https://events.bizwest.com/confluence-colorado-water-summit-and-net-zero-cities/>

Colorado Water Congress Summer Conference and Training

August 20th – 22nd in Colorado Springs, CO (conflict with August W&S Board meeting date)
<https://members.cowatercongress.org/calendar/Details/summer-conference-996589?sourceTypeId=Hub>

Water Quality Control Division (within CDPH&E) House Bill 24-1379 Dredge & Fill Workshops

Regulation 87, a control regulation for avoiding and minimizing impacts from dredge and fill activities;

September 2024 workshops: <https://cdphe.colorado.gov/dredge-and-fill-engagement>

The Colorado River District's Annual Water Seminar

Friday, September 20th, 2024 at Colorado Mesa University in Grand Junction

<https://www.coloradoriverdistrict.org/annual-water-seminar-2024/>

Colorado Water Conservation Board Annual all basins summit (C-9 Summit) – a meeting of the state's 9 basin roundtables as guided by the Water for the 21st Century Act; Oct. 1-2, 2024, in Crested Butte

<https://cwcb.colorado.gov/events/c9-summit>

Association of Metropolitan Water Agencies '24 Executive Management Conference

October 20th – 23rd <https://www.amwa.net/>

Colorado River Water Users (CRWU) Conference

December 4th – 6th <https://crwua.org/>

13. Such Other Business That May Be Brought Before the Board Added to This Agenda by Motion of the Board

14. Adjournment

The meeting ended at 5:24 p.m.

Harold Evans, Chairman

Raymond Lee, Board Secretary



Water & Sewer Agenda Summary

August 21, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Welcome New Employees and Promotions

Summary:

New Hires: Paxton Heiny - Intern II - Asset Management
Martin Barger - Plant Operator A - Bellvue

Recommended Action:

Informational Only

Recommended Motion:

N/A

Attachments:

None



Water & Sewer Agenda Summary

August 21, 2024

Key Staff Contact: Sean Chambers, Water & Sewer Director

Title:

Recognition of years of dedicated service – Manuel Sisneros

Summary:

Following ten years of dedicated service to the Greeley community through service on its Water and Sewer Board, Mr. Sisneros retired. The Board has recognized Mr. Sisneros and the many important projects, policy and initiatives undertaken by the Board during the term of Mr. Sisneros service by Resolution No. 2, 2024.

The Board and Staff would like to formally present a placard of our appreciation to Mr. Sisneros in appreciation for a decade of dedicated service.

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

None



Water & Sewer Agenda Summary

August 21, 2024

Key Staff Contact: John Goin, Civil Engineer III

Title:

Update on Meter Replacement Project

Summary:

The City of Greeley Water and Sewer Department has over 29,000 water meters ranging in size from 12 inch to $\frac{3}{4}$ ". These meters started experiencing reduced accuracy, battery failure and communications issues. The Department started replacing these aging water meters throughout the city in 2020, after receiving a Water Smart Grant for \$1.5 million. The Phase I & II water meter replacement project was completed with 14,500 new meters installed by end of 2022. The City received a second \$2.0 million WaterSmart grant to replace another 11,193 meters and was started in October of 2022. The final new meters were delivered in the summer of 2023 with installation by City staff and a small UMS crew. The City then started the final phase of replacement in 2024 with city staff and contractors (Utility Meter Solutions) replacing meters with expected completion in fall of 2025.

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

1. Update on Meter Replacement Project

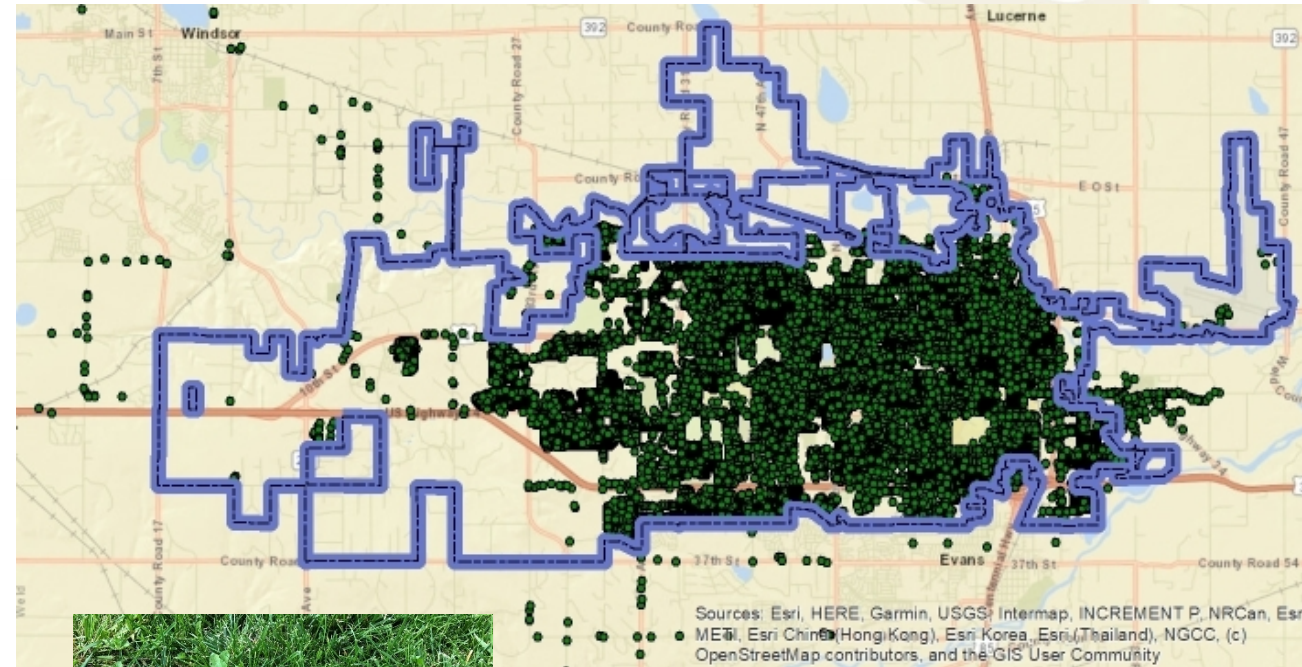
AMI Water Meter Replacement Project Update

John Goin, Civil Engineer III / Project Manager
August 21, 2024



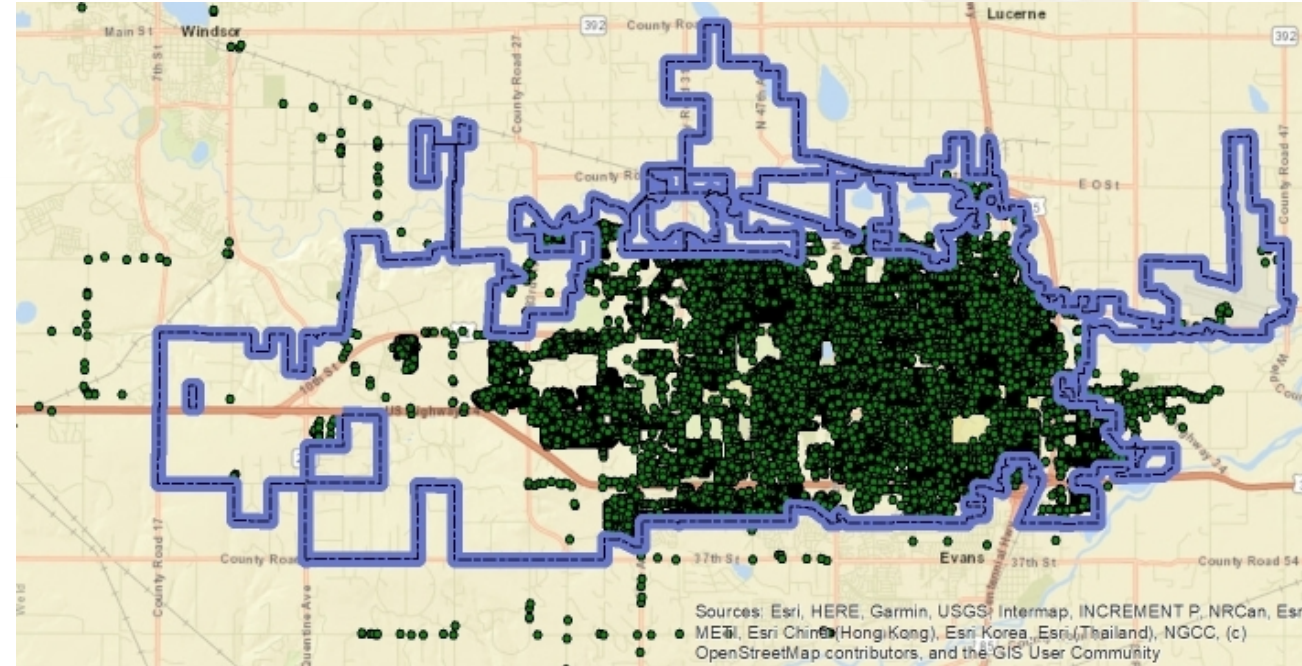
Project Background

- Over 29,000 active water meters in Greeley's water system
- Some batteries in communication devices nearing the end of their useful life and failing
- Last water meter replacement was in 2006/2007



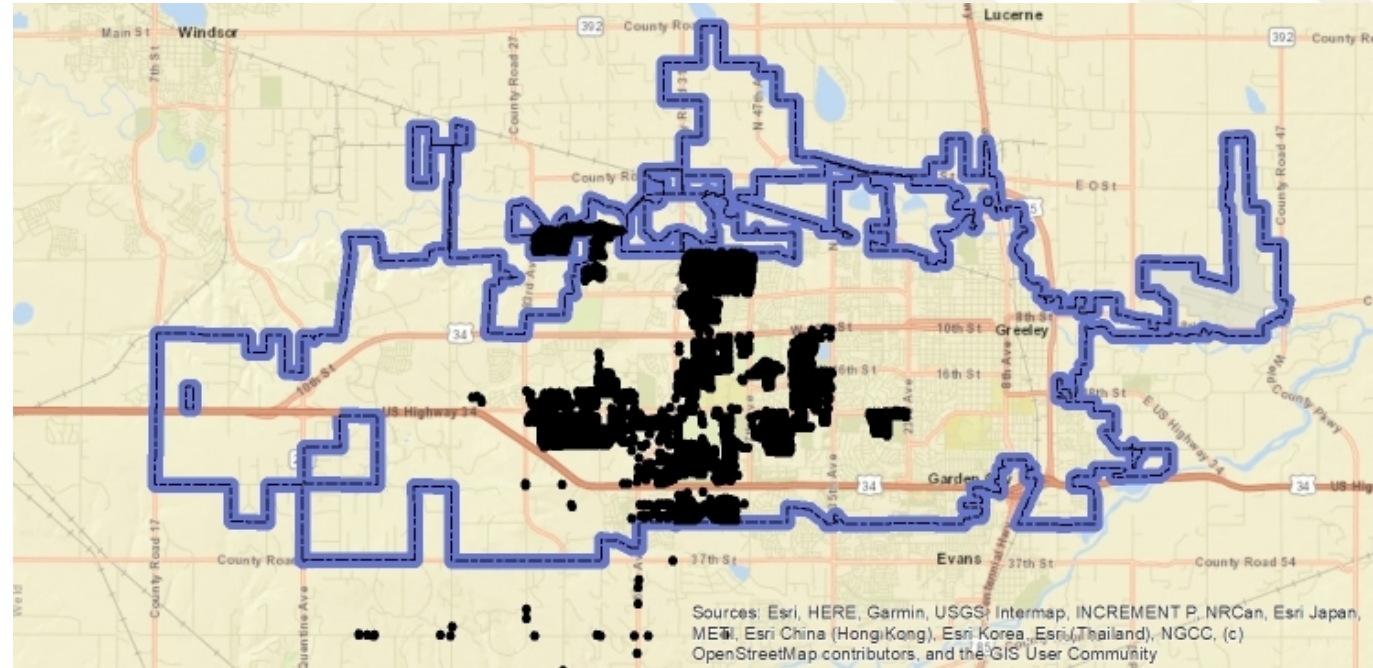
Phases I and II (2021-2022)

- In 2020, City received a \$1.5 million WaterSmart grant for replacing 14,500 meters (half of system)
- Contracted with Utility Meter Solutions (UMS) for meter replacement
- UMS completed 12,500 replacements by December 2022, with City completing over 2,000



Phases I and II (2021-2022)

- Water meters replacements selected based on meter routes with failing endpoint/communication device
- 12,500 water meters replaced by UMS by December 2022
- 2,740 additional water meters replaced by City by December 2022



Phase III – 2023

- September 2022, City received a \$2.0 million WaterSmart grant
 - Replacing an additional 11,193 water meters
- October 2022, City purchased 11,193 meters from Badger Meters, which were delivered by summer 2023



Phase III – 2024

- February 2024, UMS returned to replace remaining 11,193 water meters across the City
- Water meters replaced based on
 - Meter routes with focus on indoor replacements
 - All meter sizes $\frac{3}{4}$ " through 2"

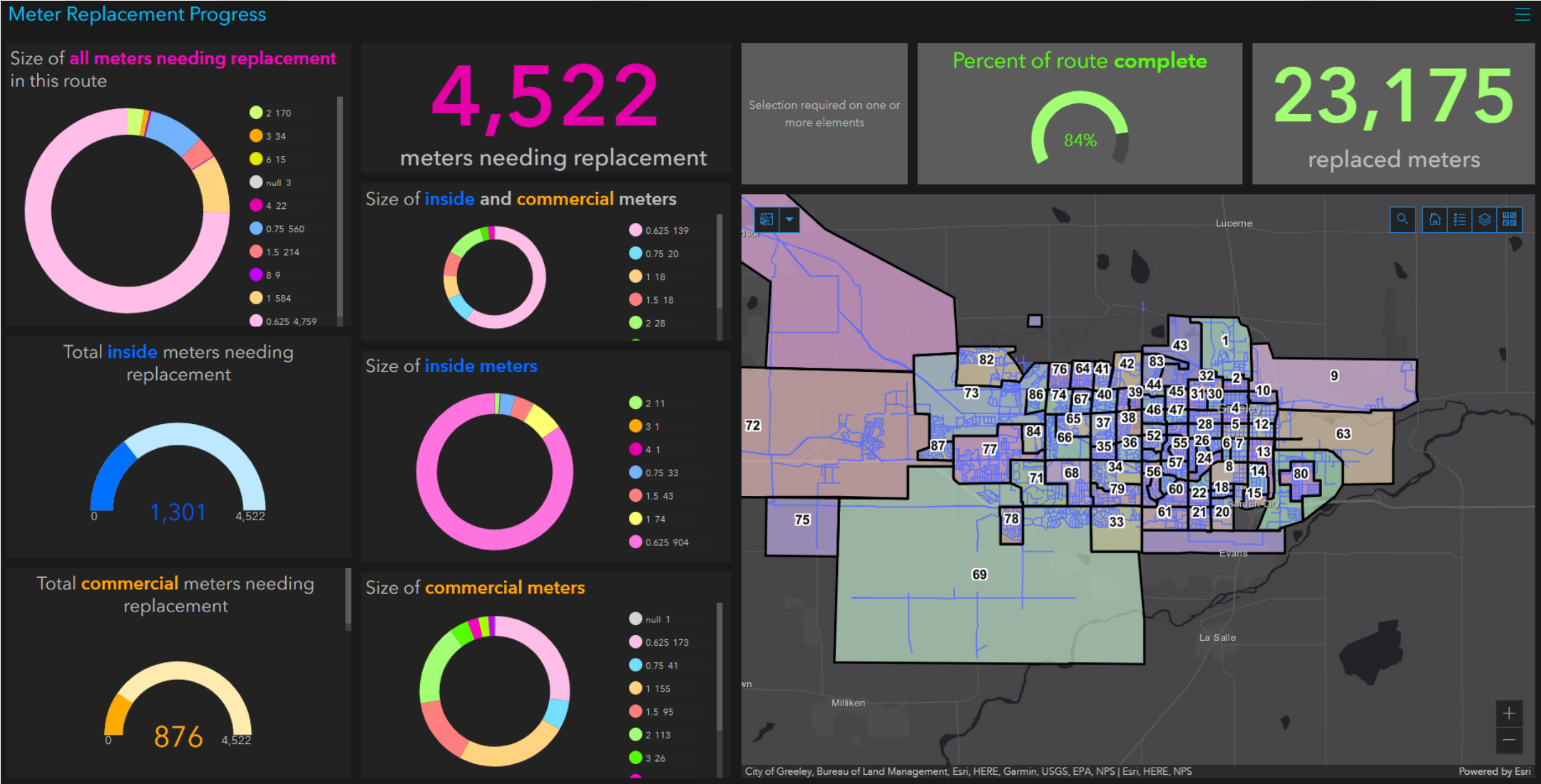


Phase III Installations

- 2023 – City replaced 1,319 and UMS replaced 257 (**1,576** total)
- 2024 – City replaced 584 and UMS replaced 5,819 (**6,403** total) through July



Meter Replacement Dashboard



Key Take Aways and Moving Forward

- 2024 has been most efficient and productive year
 - 6,403 replacements through July 2024
- UMS staff is well-trained and procedures set to keep pace through winter 2024-2025
- City will seek \$2.0 M reimbursement in Fall 2024
- City and UMS are on schedule to complete all 29,000 water meter replacements fall of 2025





Questions?



Water & Sewer Agenda Summary

August 21, 2024

Key Staff Contact: Rebecca Andrus - Deputy Director of Water and Wastewater Operations and Maintenance

Title:

Update on Backflow Prevention and Cross Connection Compliance

Summary:

On June 7, 2024, CDPHE issued 2 drinking water violations to Greeley's Backflow Prevention and Cross Connection Control (BPCCC) Program. W&S staff are working to resolve the violations by the compliance deadline of September 5th and will give an update on progress towards violation resolution.

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

1. Update on Backflow Prevention and Cross Connection Compliance



Backflow Drinking Water Violation Resolution

Water and Sewer Board – August 21, 2024



High Performance Government

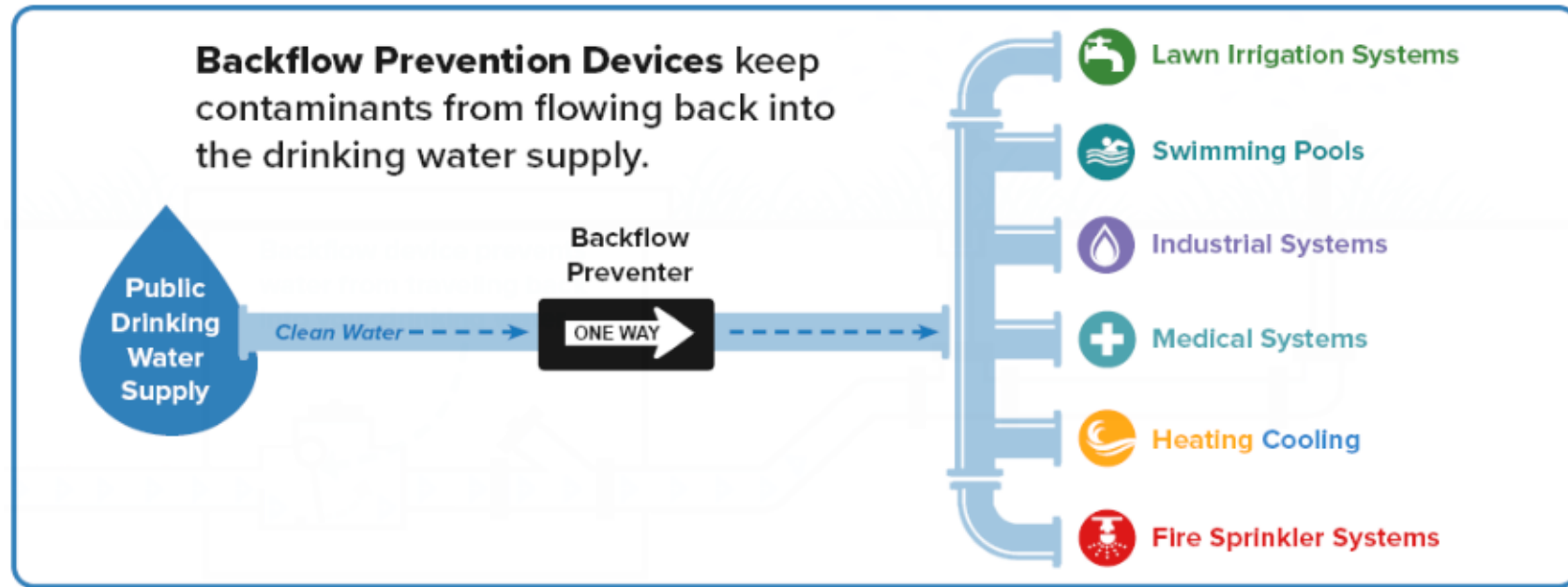
Agenda



- Background
- HB24-1344 Update
- Violation Resolution
- Water Service Termination

Background

Backflow Prevention and Cross-Connection Control Program (BPCCC)



- A backflow prevention device (backflow assembly) is used to protect the public water supply from potential contamination due to backflow.
- Backflow assemblies are an added line of defense to ensure that water only flows one way through water pipes – from the public distribution system to water customers, never the other way around.
- Regulations require that backflow prevention assemblies are tested **annually** by certified testers to make sure they are in proper working order.
- The city is required to ensure that these tests are performed regularly, correctly, and in accordance with drinking water regulations.

Update on HB24-1344



- HB24-1344 (Plumbing Practice Act Changes)
- Changed licensure requirements for backflow testing, requiring testers to be licensed plumbers; effective July 1, 2024
- July 17: Enforcement Discretion Policy
 - Disciplinary action delayed until April 1, 2025
- Timeline allows General Assembly to reconsider this issue during 2025 session

Greeley Timeline of BPCCC Compliance

May 1

W&S Staff submitted the annual BPCCC report to CDPHE and self-reported violations for 2023

June 7

CDPHE issued two Backflow Drinking Water violations to Greeley

July 7

Greeley provided a Public Notice to all water customers for the Backflow Drinking Water Violations through Utility Bills and by direct mail

**Before
September 5**

Greeley W&S staff will correct violations and provide a response letter to CDPHE detailing completed violation resolution actions

To Resolve the Violations :

1. **All assemblies** not tested in 2022 and 2023 **must** have received a passing test by August 20, 2024
2. For the 2023 annual compliance ratio, a number of assemblies that did not test in 2023 must have a passing test by September 5.
 - a. To avoid additional violations in 2024, **all assemblies** that were not tested in 2023 **must test before the end of the calendar year**.
3. Ensure assemblies with failed tests beyond 120-day regulatory timeline are repaired or replaced and pass subsequent testing by September 5.



Noncompliant properties are subject to water service termination starting August 21

Water Service Termination Process



First and second notices mailed to customers requiring them to test noncompliant backflow assemblies within 60 and 30 days respectively



Third notices are mailed after expiration. If no response after 15 days, a water service termination notice is mailed.



Continued lack of response prompts a hand-delivered termination notice 15 days prior to water service termination



Once water service has been terminated, the customer must bring the backflow prevention assembly into compliance before water service can be restored

Questions?





Water & Sewer Agenda Summary

August 21, 2024

Key Staff Contact: Leah Hubbard, Water Resource Operations Manager

Title:

Legal Report

Summary:

This report has been provided by Carolyn Burr, outside counsel for the Greeley Water & Sewer Board. Based on review of the June 2024 Water Division 1 Resume, staff and water counsel did not identify any new matters to recommend that the Water and Sewer Board file a statement of opposition by the end of August 2024.

1. Update on Case No. 19CW3253 – Application of Parker WSD and Lower South Platte WCD:
Update on the applicants' claims, Greeley's concerns, and the procedural status of the case.

Recommended Action:

Informational only

Recommended Motion:

N/A

Attachments:

1. Legal Report Update



Case No. 19CW3253 – Application of Parker WSD and Lower South Platte WCD

Carolyn Burr
Welborn Sullivan Meck & Tooley

Overview of Claims

Four Conditional Storage Rights on Lower South Platte River

- Iliff Reservoir (Bravo is alternate site of storage)
 - 6,500 a.f./year with refill
 - Diversion Rate 230 c.f.s.
- Prewitt Reservoir Forebay (5 alternate sites of storage claimed)
 - 6,500 a.f./year with refill
 - Diversion Rate: 1,000 cfs at Prewitt Inlet Canal
- Fremont Butte Reservoir
 - 72,000 a.f./year with refill
 - Diversion Rate up to 1,000 cfs at Prewitt Inlet Canal
- Bravo Reservoirs (Alternate to Iliff Reservoir & Prewitt Reservoir Forebay)
 - 6,500 a.f./year with refill
 - Diversion rate: 230 cfs

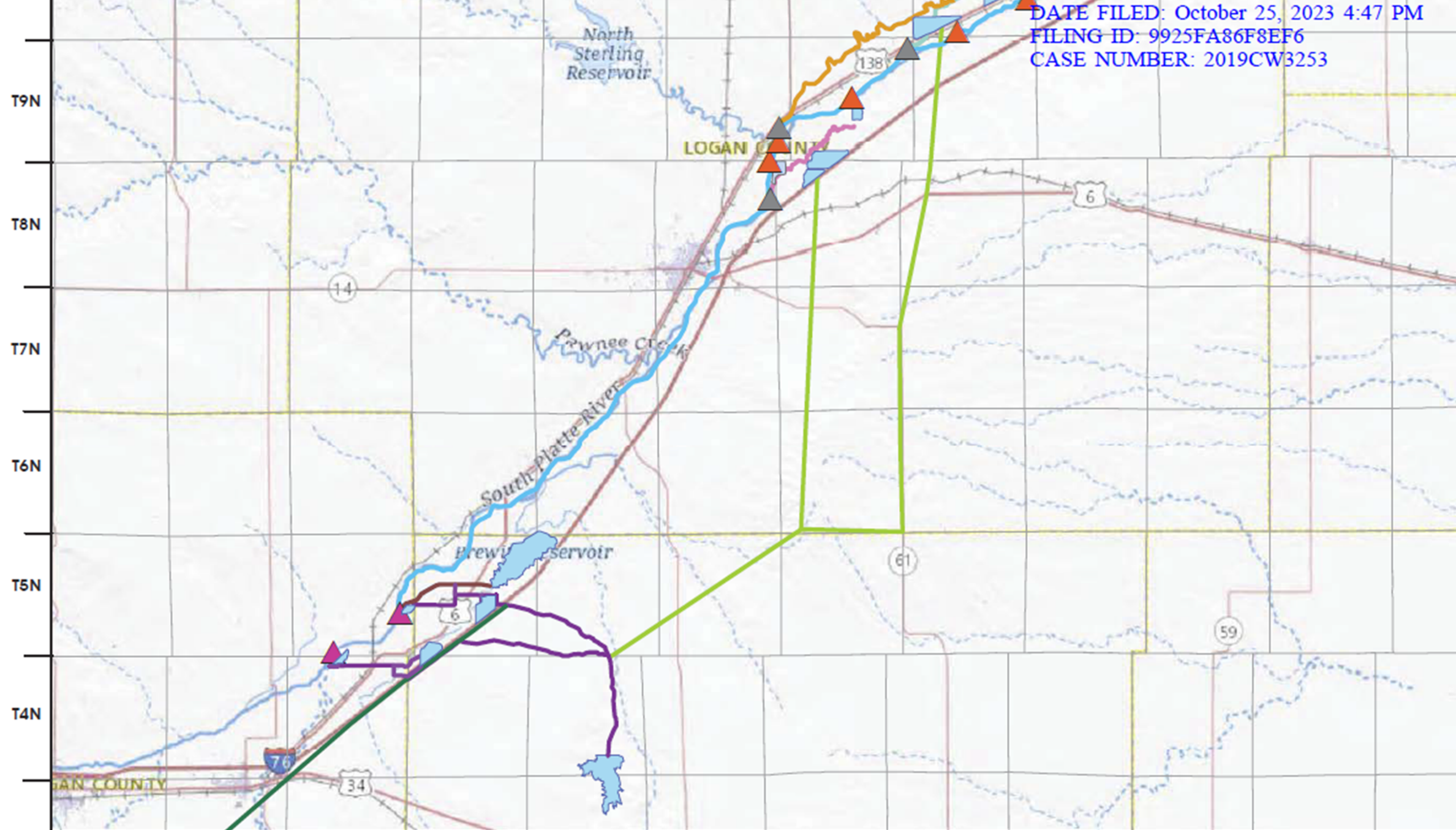
Overview of Claims (cont.)

Change of 03CW428 Conditional Storage Right

- to include storage in Prewitt Reservoir and/or Bravo Reservoirs
- 18,000 a.f./year with 10 year max of 96,000a.f.
- Diversion rate: 40 cfs

Exchange and Operational Trade

- 150 cfs exchange of reservoir releases from Iliff and Bravo Reservoirs to Prewitt Inlet Canal
- Operational Trade to move water from Iliff and Bravo Reservoirs to Prewitt Reservoir in unspecified quantities



LEGEND

0 3 6 12 Miles



PWSD/LSPWCD

Concerns Raised by Greeley

- No agreement with Prewitt regarding operations and use of facilities
 - Cannot determine how Prewitt Reservoir and its existing senior storage rights will be operated in conjunction with Applicants claims
- Lack of information regarding modeling to show when water is available and how it will be moved among storage reservoirs. Can't really determine how much water can be made available to applicants under different hydrologic and use scenarios
- Lack of detail regarding Applicants' reasonable future demands and need for water
- No detail on how 03CW428 conditional storage right will be changed to operate within existing decree limits
- No information on costs/feasibility of construction

Status of Case

- Original application filed in 2019
 - Application has been amended twice
- Over 50 opposers
- Trial rescheduled from Jan/Feb. 2024 to June 15, 2025
 - Three week trial
- Applicant Expert Disclosures due Nov. 4, 2024
- Opposer Expert Disclosures due Mar. 3, 2025



Water & Sewer Agenda Summary

Date: August 21, 2024

Key Staff Contact: Water and Sewer Director Sean Chambers

Title: Directors Report

Summary:

The Director will provide a summary report including educational opportunities and updates on various operations activities.

1. Education and Advocacy and Events Calendar

Colorado Water Congress Summer Conference and Training

August 20th – 22nd in Colorado Springs, CO (conflict with August W&S Board meeting date)

<https://members.cowatercongress.org/calendar/Details/summer-conference-996589?sourceTypeId=Hub>

Rocky Mountain AWWA Water Conference

September 26 – 28th, Operator, Admin and Leadership Training Conference by the Rocky Mountain Section of the American Water Works Association. <https://www.rockymountainwaterconference.org/>

Water Quality Control Division (within CDPH&E) House Bill 24-1379 Dredge & Fill Workshops

Regulation 87, a control regulation for avoiding and minimizing impacts from dredge and fill activities;

September 2024 workshops: <https://cdphe.colorado.gov/dredge-and-fill-engagement>

The Colorado River District's Annual Water Seminar

Friday, September 20th, 2024 at Colorado Mesa University in Grand Junction

<https://www.coloradoriverdistrict.org/annual-water-seminar-2024/>

Colorado Water Conservation Board Annual all basins summit (C-9 Summit) – a meeting of the state's 9 basin roundtables as guided by the Water for the 21st Century Act: Oct. 1-2, 2024, in Crested Butte

<https://cwcb.colorado.gov/events/c9-summit>

Water in the West Symposium by Colorado State University at Spur Campus

November 13 – 14th at Hydro building of CSU's Spur campus, Denver

Association of Metropolitan Water Agencies '24 Executive Management Conference

October 20th – 23rd <https://www.amwa.net/>

Colorado River Water Users (CRWU) Conference

December 4th – 6th <https://crwua.org/>

2. Terry Ranch Pipeline Phase 1 Completion Milestone

Staff, Contractors and consulting engineers are celebrating the completion of the first phase of pipeline construction. As we prepare to move forward with the next phase, this is a milestone worth celebrating.

Recommended Action: N/A

Attachments:

1. Terry Ranch Pipeline Reaches first Milestone

2. WS-Community-Tour-2024-Flyer-8.5x11
3. Board Meeting Charts

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Terry Ranch Pipeline Reaches First Project Milestone

City of Greeley, Colorado sent this bulletin at 08/06/2024 04:06 PM MDT

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Terry Ranch Project Closes in on First Milestone

The [Terry Ranch pipeline](#) nears its first milestone as Reynolds Construction finishes the initial 7.7 miles that will connect it to the 60-inch Bellvue pipeline near Windsor.

Select contractors will construct the 30-mile pipeline in phases over the next 10-15 years. Once complete, the 36-inch steel pipeline will connect Greeley's existing treated water infrastructure to the Terry Ranch water treatment plant and underground aquifer.

The underground pocket of water, isolated for thousands of years, contains nearly 2 million acre-feet of water. (One acre-foot would cover a football field with 12 inches of water.) The city will recharge and store water in the aquifer during wet years and withdraw and treat it for use during extended droughts. The pipeline is being built in multiple phases to help keep Greeley's water rates low.

Director of Water and Sewer Sean Chambers is confident in the project's development strategy and excited about its contribution to Greeley's water portfolio.

"The Terry Ranch Project is an investment in our collective future. While storing our treated river water underground and withdrawing it in times of drought is innovative for Northern Colorado, it is common practice across the west and a primary water supply strategy in South Metro Denver," Chambers said.

"This project is an important piece of how Greeley will meet future water storage needs. It helps us navigate challenging droughts and wildfires in our mountain watersheds. Based on the [Integrated Water Resources Plan](#), the city has confidence in our ability to develop this project incrementally over time, pairing this new asset with the existing water system."

[Learn About Our Commitment to Providing Safe, Clean and Great-Tasting Water](#)



WATER & SEWER

REGISTER TODAY!

Community
Water & Sewer Tour
September 20, 2024
8 a.m. to 2 p.m.

It's as easy as 1-2-3!

1. Scan the QR Code.
2. Register for the tour.
3. Join us on September 20, 2024.

This year's tour stops include:

- Greeley's wastewater treatment plant
- Neighborhood waterline replacement project
- Gold Hill water tower and reservoir
- Lunch at the Bellvue Water Treatment Plant

Space is limited so sign up today!



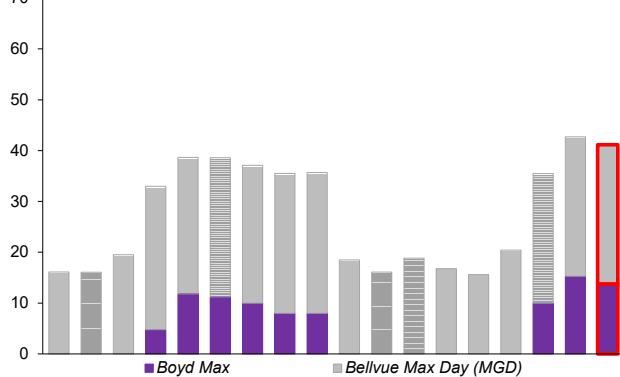
Water Treatment

Bellvue Water Treatment Plant operates year-round with a transmission capacity of 29.1 million gallons per day (mgd) (plant capacity is 32 to 35 mgd). Water sources include Poudre River direct flows, Colorado-Big Thompson (C-BT), Windy Gap, High Mountain Reservoirs, Laramie-Poudre Tunnel, and Water Supply and Storage. Average volume is 19,000 acre-feet a year (2000-2011). The plant was built in 1907, with its last treatment upgrade in 2009. Solar panels were added in 2014.

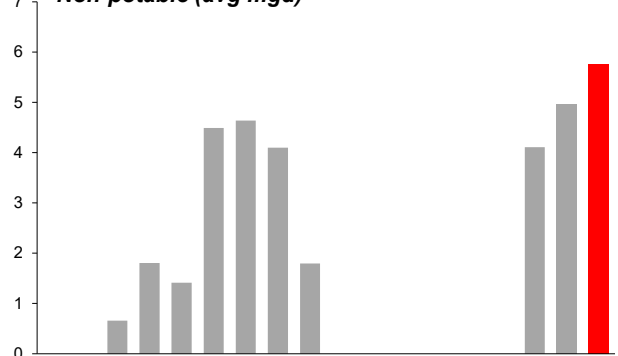
Boyd Water Treatment Plant operates normally from April to October with a plant capacity of 38 mgd (transmission capacity is 40 mgd). Water sources include Greeley-Loveland Irrigation Company, C-BT, and Windy Gap. Average Volume is 8,200 acre-feet (2000-2011). The current plant was built in 1974, with its last treatment upgrade in 1999. Solar panels were added at Boyd in 2014. In 2016, tube settlers and plate settlers were replaced in the sedimentation basins. In 2018, all old existing chemical lines were replaced with new lines and the piping was up-sized to carry more chemical. A PLC upgrade was done on the SCADA system. Sludge pumps were replaced and hooked into the Trac Vac system that pulls sludge out of the sedimentation basins.

Combined, Bellvue and Boyd can treat a maximum of 70-73 million gallons per day.

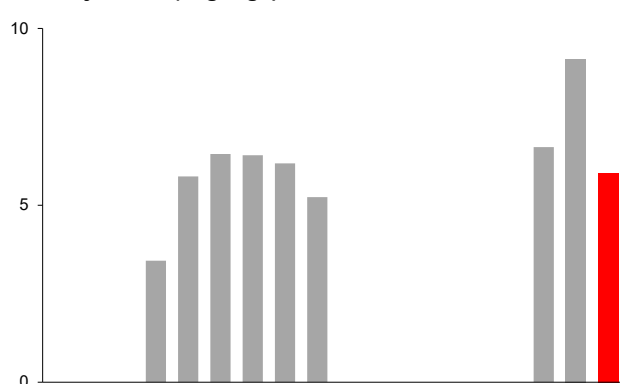
Max Day (mgd)



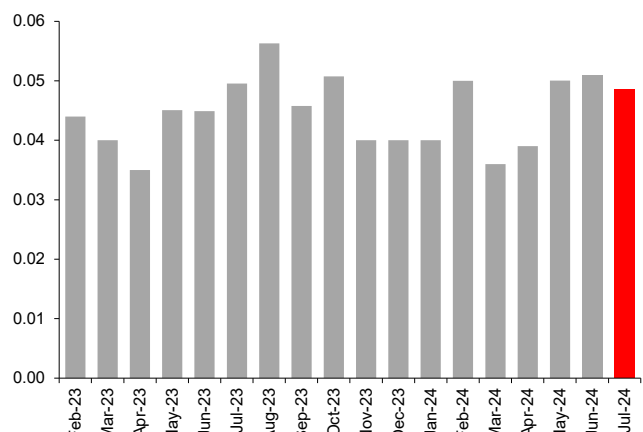
Non-potable (avg mgd)



Boyd WTP (avg mgd)



Turbidity of Finished Water (NTU*)



Starting May 2016 Bellvue turbidity measurements will use a new method resulting in more accurate readings.

*Turbidity limit: 95% of samples must be below 0.3 NTU.

Turbidity is the measure of relative clarity of a liquid. Clarity is important when producing drinking water for human consumption and in many manufacturing uses. Turbidity is measured in Nephelometric Turbidity Units (NTU).

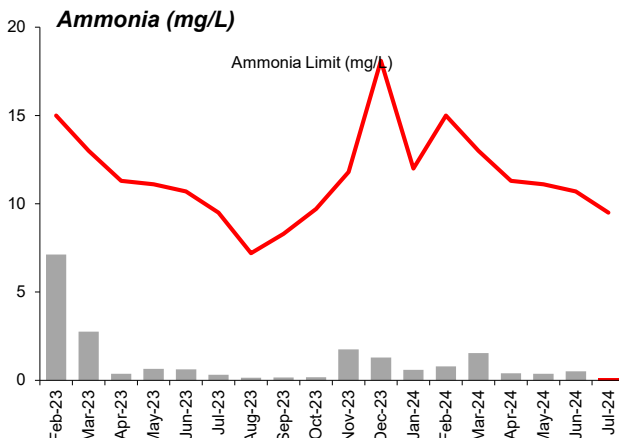
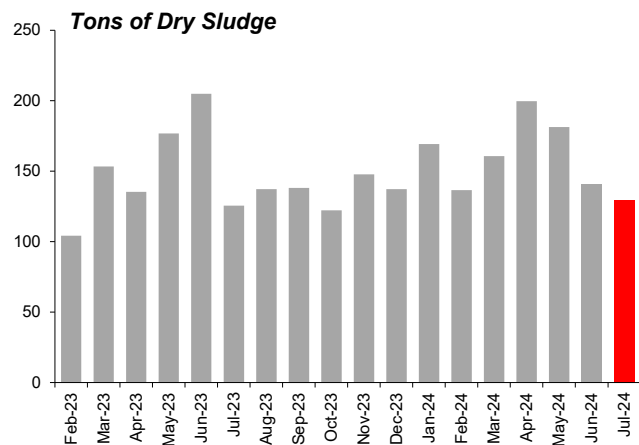
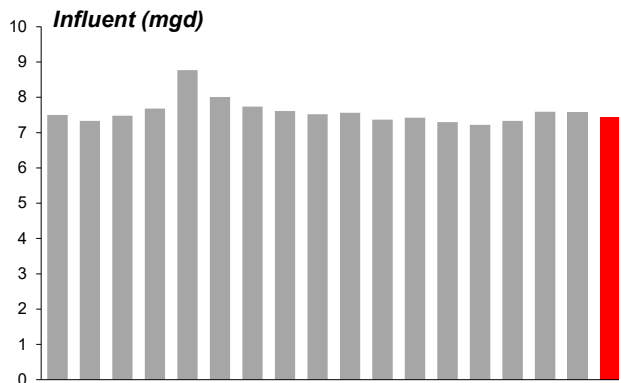
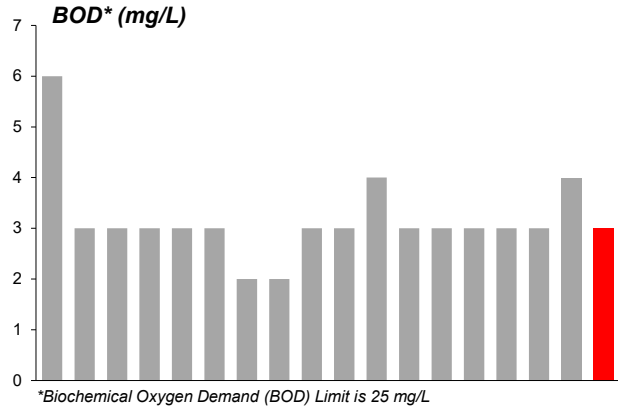
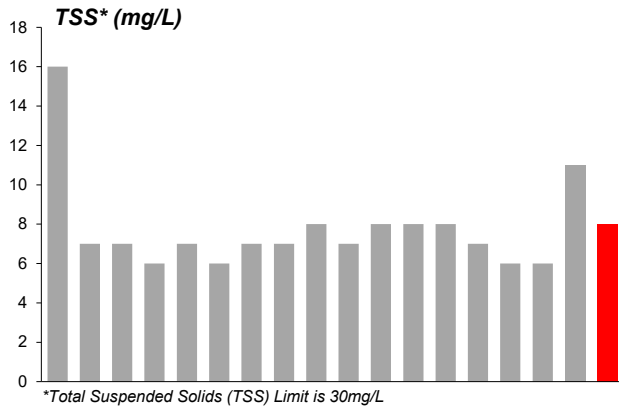


Wastewater Treatment

The Water Pollution Control Facility (WPCF) staff are dedicated environmental professionals who provide quality, safe and cost-effective wastewater treatment services for the citizens of Greeley. The WPCF treats wastewater to meet or exceed Environmental Protection Agency (EPA) and Colorado Department of Public Health & Environment requirements.

In 2011, the WPCF received an Xcel Energy Custom Efficiency Achievement Award for saving 2.78 million kWh and reducing CO2 emissions by 1,584 tons. In 2012, the WPCF received the Rocky Mountain Water Environment Association's (RMWEA) Sustainability Award for Colorado demonstrating excellence in programs that enhanced the principles of sustainability. A Certificate of Achievement from the Colorado Industrial Energy Challenge program managed through the Colorado Energy Office was received in the same year. In 2013, the plant received the City of Greeley's Environmental Stewardship Award for outstanding efforts to reduce energy (watts), conserve energy and water, reduce air and water pollution, and educate and encourage others to be environmental stewards. Also, in 2013, the plant was the recipient of a Bronze Award from the Colorado Environmental Leadership Program. In 2015, after having 5 years without a plant violation, the plant received the 2015 National Association of Clean Water Agencies (NACWA) Platinum Peak Performance award for the City of Greeley Water and Sewer Department.

Note: the red column indicates the current month.



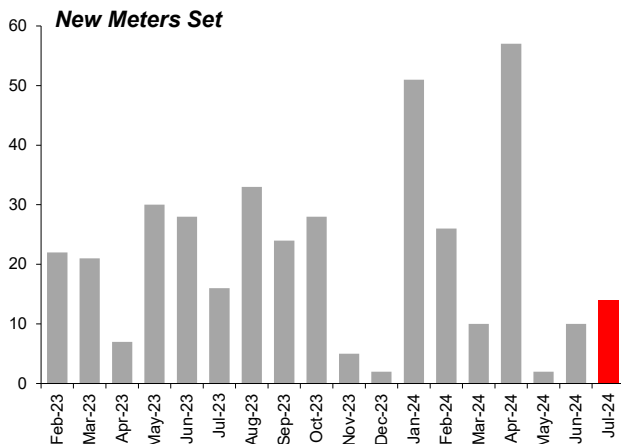
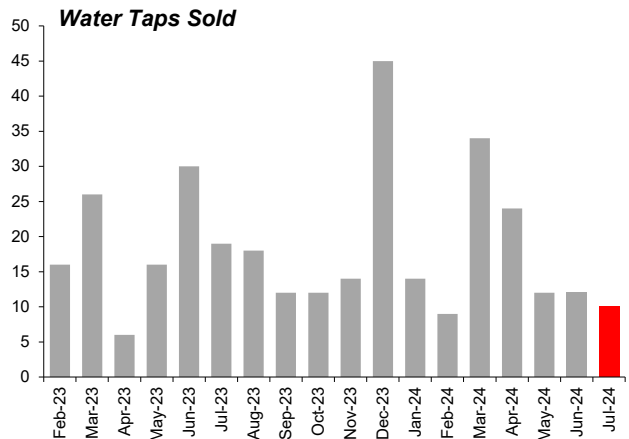
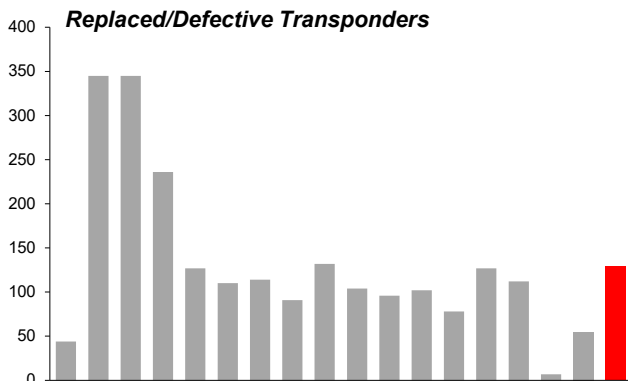
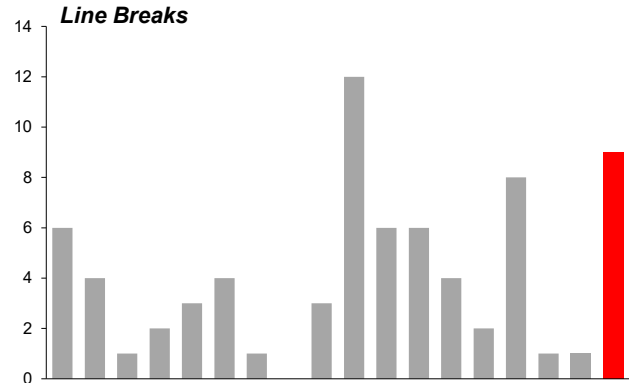
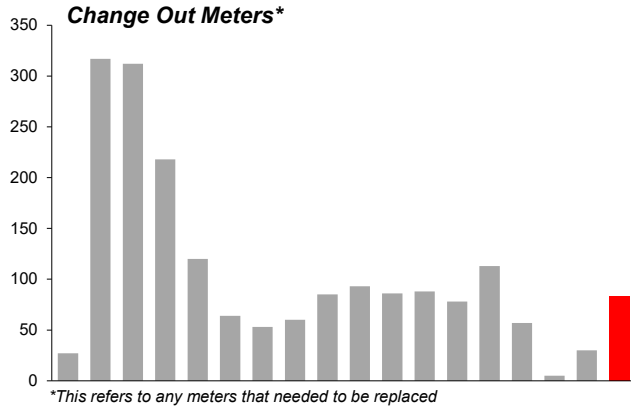
Water Distribution

The Greeley water distribution system consists of various sizes of pipes that generally follow the streets within the City. The distribution system serves residences and businesses in Greeley, Evans and Garden City, and the system is divided into four pressure zones.

There are 69.75 million gallons of potable water storage in Greeley. The water is stored within three covered reservoirs and one elevated tank; 23rd Avenue - 37.5 million gallons, Mosier Hill - 15 million gallons, and Gold Hill - 15 million gallons. The system also has 476 miles of pipeline, 24,233 water meters and 3,378 fire hydrants.

The water pipes in the distribution system vary in size from 4" to 36". Pipe material is steel, ductile iron, cast iron, or polyvinyl chloride. The age of the pipes varies from the 1890's to new installations.

Note: the red column indicates the current month.



Wastewater Collection

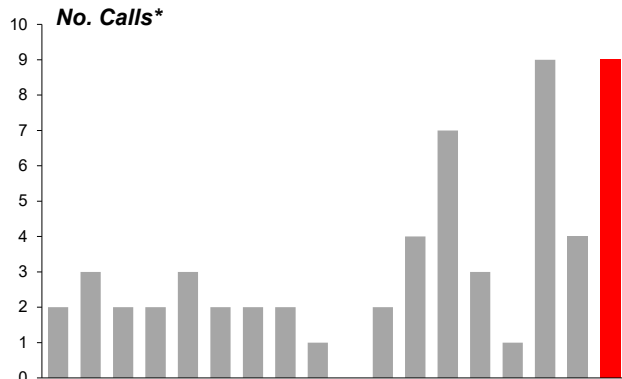
The mission of the Wastewater Collection Division of the Water and Sewer Department is to protect community health by transporting wastewater away from homes and businesses. This includes respecting property values and public safety by reducing the frequency of blockages in the sanitary sewer lines.

A wide variety of work is performed including routine cleaning of sewer lines, inspection of sewer lines, maintenance of the sewage pumping stations, rehabilitation of the system and responding to emergencies.

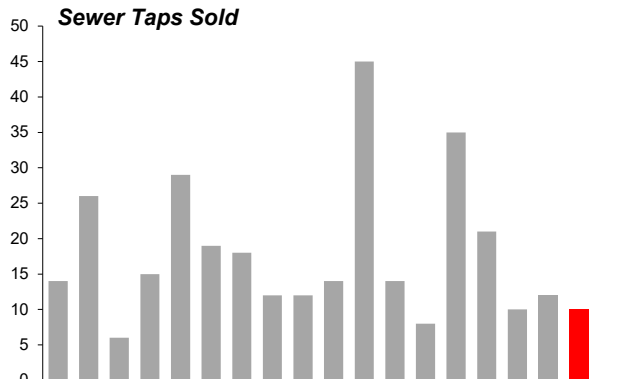
The wastewater collection system dates back to 1889. At the end of 2017, the system had a total of 364.8 miles of line and 10 sewage pumping stations. The sewer service area is approximately 51 square miles. Over the last 10 years, the system has grown by 17 miles.

Note: the red column indicates the current month.

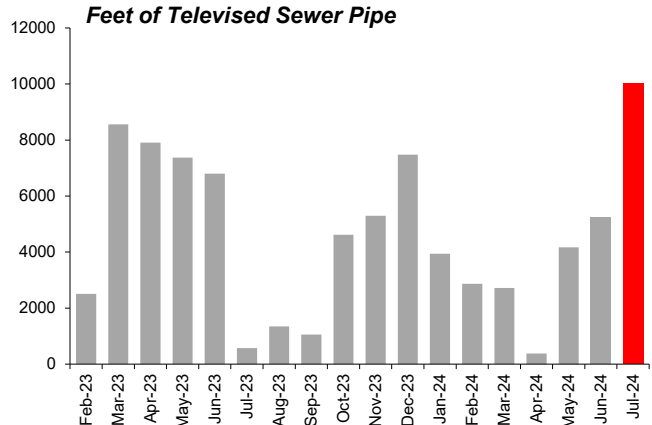
No. Calls*



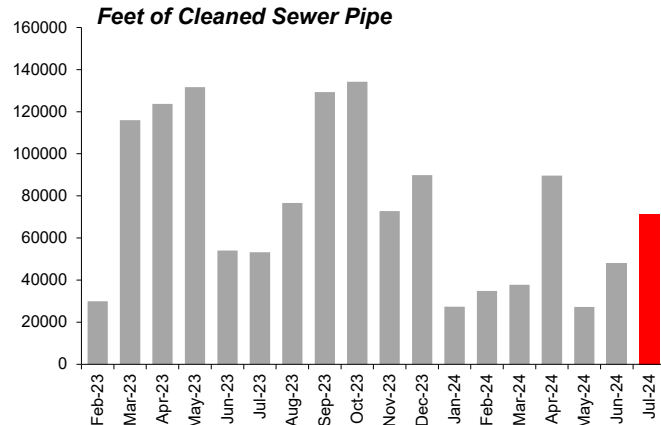
Sewer Taps Sold



Feet of Televised Sewer Pipe



Feet of Cleaned Sewer Pipe

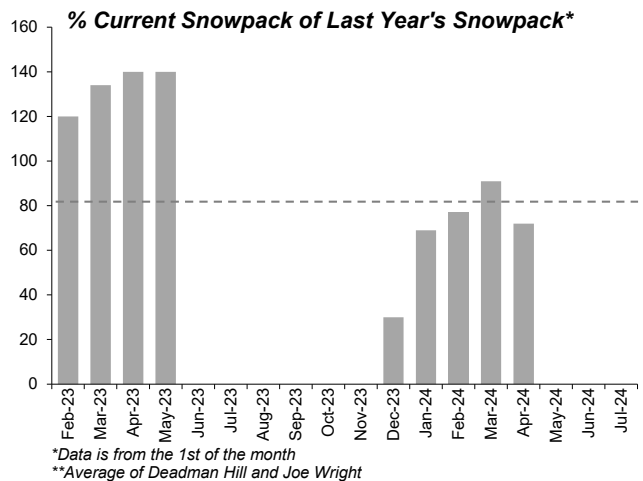
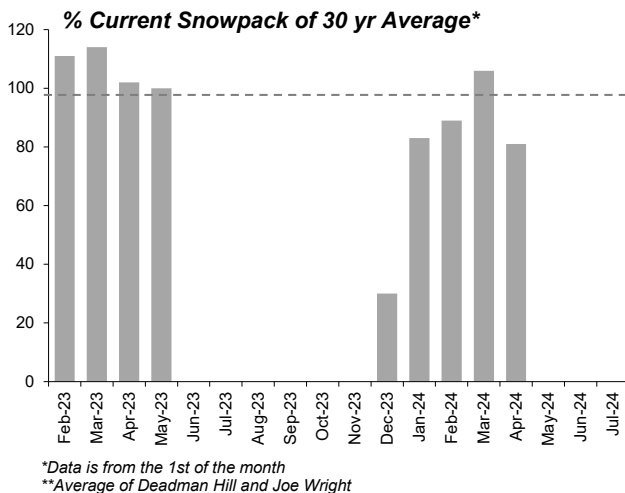
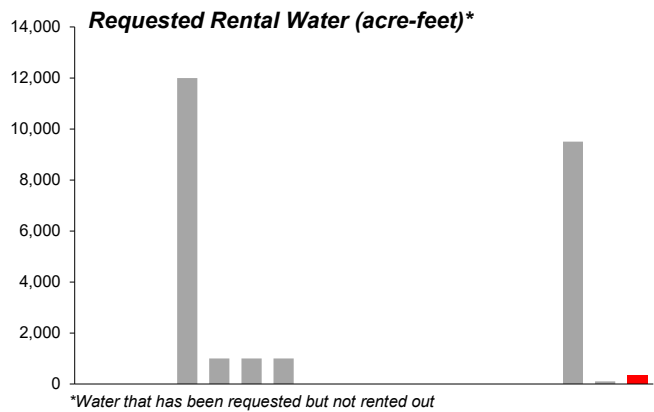
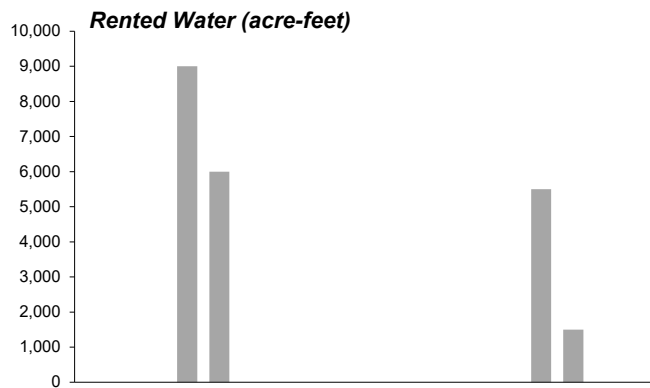
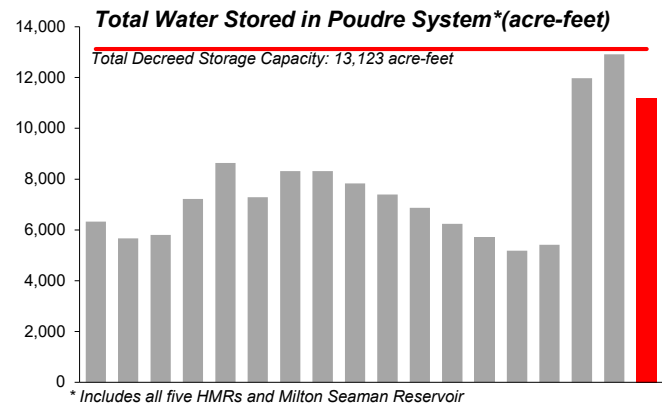
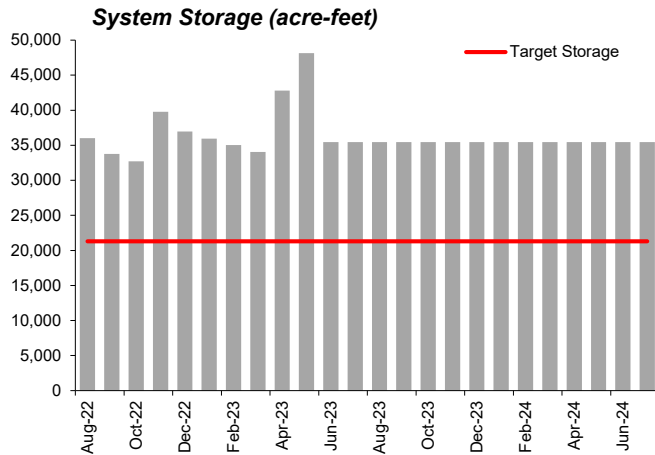


Water Resources

Greeley has numerous water rights in four river basins; the Upper Colorado River, Cache La Poudre, Big Thompson and Laramie River. The Water Resource staff must account for all of this water and comply with the rules of the Colorado Water Court and the State Engineer's Office which is in charge of allocating all of Colorado's water resources. Approximately one-third of the City's water supply comes from agricultural water rights. These water rights must be formally changed to municipal use by a special legal process through the Water Court. In this court, Water Resource staff and attorneys also defend the City's water rights against adverse claims from other parties.

Greeley's goal is to have enough water in carry-over storage to sustain Greeley through a 50-year critical drought. Water in excess of this carry-over drought supply can be leased to agriculture, both for revenue and to support our local agricultural community. Modeling has shown that, given existing population and demand factors, Greeley will have sufficient water for citizens, if at the beginning of the 6-year long, 50-year critical drought, there is 20,000 acre-feet in storage on April 1st of the following year.

Note: the red column indicates the current month.



Treated Water and Weather Data

January was a cold month with an average temperature of 24.63°F. Temperatures warmed up in February with an average temperature of 34.52°F. The average temperature was 40.38°F in March and 49.62°F in April. May signaled the start of summer with an average temperature of 57.27°F. June tracked slightly higher than average at 71.6°F. July temperatures were seasonably average at 73.3°F.

Greeley received 0.35 inches of precipitation in January. A big snow storm brought 2.03 inches of precipitation in February. Greeley received 1.5 inches of precipitation in March and 1.6 inches in April. May brought less precipitation than expected, with 1.07 inches for the month. June precip was just below average, but kept the total precip above average. July was dry and only produced 0.58 inches of precipitation.

