

# Water and Sewer Board

Regular Meeting

City Council Chambers – City Center South

1001 11<sup>th</sup> Avenue – Greeley, Colorado

July 20, 2022 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 11<sup>th</sup> 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 11<sup>th</sup> Avenue, 2nd Floor, Greeley, CO 80631 or emailed to [wsadmin@greeleygov.com](mailto: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 [Greeley-co.municodemeetings.com/](https://greeley-co.municodemeetings.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 MuniCode meeting portal by 10:00 a.m. on the date of the meeting (<https://greeley-co.municodemeetings.com/>).

In the event it becomes necessary for a meeting to be held virtually, use the link below to join the meeting. Virtual meetings are also livestreamed on YouTube at <https://www.youtube.com/CityofGreeley>.

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](mailto:wsadmin@greeleygov.com)





# Water & Sewer Board Meeting

**July 20, 2022 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. Manuel Sisneros      \_\_\_\_\_ Mayor John Gates  
                         \_\_\_\_\_ Mr. Raymond Lee      \_\_\_\_\_ Mr. John Karner
2. Approval of Minutes
3. Approval of the Agenda

### Consent Agenda

The Consent Agenda is a meeting management tool to allow the Board to handle several routine items with one action.

The Board or staff may request an item to be "pulled" off the Consent Agenda and considered separately under the next agenda item in the order they were listed.

4. Amendment to Water Supply and Storage Co. Catlin Agreement
5. Approve Larimer County Canal No. 2 Excess Capacity Agreement

### End of Consent Agenda

6. Pulled Consent Agenda Items
7. Welcome New Employees and Promotions
8. Speak Up Greeley Engagement Platform
9. Approve Global Settlement Agreement, case #18CW3042



- [10.](#) 2023 Capital and Operating Budget
- [11.](#) Approve and Recommend to Council Water & Sewer Design Standards, Criteria and Specifications and Ordinance Adopting the Same by Reference
- [12.](#) Legal Report
- [13.](#) Director's Report
- 14. Such Other Business That May Be Brought Before the Board Added to This Agenda by Motion of the Board.
- 15. 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](mailto:wsadmin@greeleygov.com)*

**City of Greeley  
Water and Sewer Board  
Minutes of June 15, 2022  
Regular Board Meeting**

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:01 p.m. on Wednesday June 15, 2022.

**1. Roll Call**

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans, Vice Chairman Mick Todd, Fred Otis, Cheri Witt-Brown, Tony Miller, Manuel Sisneros, Kelli Johnson on behalf of City Manager Raymond Lee, Tammy Hitchens on behalf of Finance Director John Karner

Water and Sewer Department staff:

Director Sean Chambers, Utility Finance Manager Erik Dial, Deputy Director Water & Wastewater Operations Nina Cudahy, Water Resource Administrator III Cole Gustafson, Water Resource Planning Manager Kelen Dowdy, Rates and Budget Analyst Virgil Pierce, Senior Administrative Assistant Crystal Sanchez and Interim Office Manager Gigi Allen

Legal Counsel:

Counsel to Water & Sewer Board Attorney Carolyn Burr, Environmental and Water Resources Attorney II Dan Biwer

**2. Approval of Minutes**

Mr. Miller made a motion, seconded by Mr. Otis, to approve the May 18, 2022, Water and Sewer Board meeting minutes. The motion carried 6-0.

**3. Approval of and/or Additions to Agenda**

There were no changes to the agenda.

**4. Welcome New Employees and Promotions**

Mr. Chambers provided an introduction of new Water and Sewer Department employees starting this month and recognized the departures of Mary Gearhart and Dan Moore.

**5. Preliminary 2023 Water and Sewer Budget**

Erik Dial presented to the Water and Sewer Board the challenges and opportunities the department is facing when preparing the 2023 capital and operating budgets. Our current environment is characterized by challenging inflation conditions and regulatory compliance obligations. However, our ongoing water and sewer investments ensure Greeley's water and sewer infrastructure resiliency and continuity of operations. The presentation updated the Board on the city budget process, Department work to refine the changes and additions proposed for the 2023 enterprise budgets, and preliminary rate model outputs.

**6. Approve and Recommend to Council Divestment of the Thayer Farm**

Mr. Otis recused himself from participating due to a potential conflict of interest and left the room at 2:48 p.m.

Cole Gustafson discussed that in 2020, the City of Greeley purchased a 131 +/- acre farm in Weld County, known internally as the "Thayer Farm", along with three shares of the Larimer and Weld Irrigation Company (LWIC) and four shares of the Windsor Reservoir and Canal Company (WRCC). Since 2020, the City has leased the Thayer Farm, along with the LWIC and WRCC Water Rights, to a tenant farmer in order to maintain the use of the Water Rights on the historically irrigated land. In 2022, City staff negotiated an offer of \$1,400,000 to purchase the Thayer Farm. A dry-up covenant, revegetation covenant, and leaseback of the three shares of LWIC and four shares of WRCC to the buyer are part of the proposed agreement. Mr. Gustafson recommended the divestment of the Thayer Farm to the potential buyer.

Ms. Witt-Brown moved that the Board make a finding that the Thayer Farm is not currently being used nor held for a governmental purpose, authorize the proposed divestment of real property, approve the Contract to Buy and Sell Real Estate and exhibits in the forms enclosed, delegate authority to the Director of Water and Sewer or his designee (i) to make minor amendments to the documents, including, but not limited to, corrections to property descriptions and contract extensions, and (ii) to undertake all necessary and appropriate action to close on the divestment, and recommend that City Council authorize the same. Mr. Todd seconded the motion. The motion carried 5-0.

Mr. Otis returned to the meeting at 2:53 p.m.

**7. Approve and Recommend to Council West Fort Collins Water District Customer Transfer and Interconnect IGA**

Sean Chambers presented that the City has long planned, budgeted and strategized on how to make an orderly transition of customers outside of Greeley's service area who have been receiving water off our Bellvue water transmission lines for decades. These transmission taps are a challenge for our operations as they are close to the WTP, a long way from our certified water distribution operators, and they are located on gravity driven pipelines that have significant seasonal fluctuations and periodic maintenance outages. It is difficult to provide such taps with consistent pressure and reliable service, and at times the obligation to serve them increases the complexity of major maintenance activities and costs the City money to ensure they continue to have clean safe water.

Over the past 18 months, Greeley staff and the West Ft. Collins Water District (District) have been engaged in a discussion to transfer 35 taps from Greeley to the District, along with a raw water dedication. In exchange, the District would take over responsibility for providing water service to the customers, improving infrastructure to connect the properties as needed, and coordinating with the customers, all of which live within the District's service area. To offset costs and provide water supply resiliency to the City and the District, Greeley would agree to construct a municipal interconnect between the Greeley and District systems, to be located east of the Bellvue WTP.

The proposed agreement would obligate the City and the District to work in cooperation to manage risk, share certain reasonable project expenses and make the transition of transmission customers from Greeley to the District.

This is a capital project that the Water Enterprise budgeted for and considers a high priority for the continued public health of all customers, and for the best-practice operation of our water treatment and transmission infrastructure.

Vice Chairman Todd moved that the Board (i) find that the North Poudre Irrigation Company water rights described in the IGA Concerning Customer Transfer and Interconnect Operation with West Fort Collins Water District are not currently being used nor held for a governmental purpose, (ii) approve the IGA in the form presented and authorize the divestment of NPIC water rights described therein, (iii) delegate authority to the Director of Water and Sewer or his designee to make minor amendments to the agreement before execution, provided the material substance remains unchanged, and (iv) recommend the same to City Council. Mr. Miller seconded the motion. The motion carried 6-0.

## **8. Executive Session**

Crystal Sanchez, Gigi Allen, Erik Dial, Nina Cudahy, Virgil Pierce, Cole Gustafson and Kelen Dowdy left the meeting at 3:02 p.m.

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

For the purpose of receiving legal advice concerning Case No. 21CW3216, the State and Division Engineers' Final Revised Decennial Abandonment List. The motion was seconded. The motion carried 6-0.

Present at the Executive Session, starting at 3:04 pm were:

Chairman Harold Evans, Vice Chairman Mick Todd, Manual Sisneros, Tony Miller, Cheri Witt-Brown, Fred Otis, Director Sean Chambers, Environmental and Water Resources Attorney Dan Biwer, Attorney Carolyn Burr, Tammy Hitchens and Kelli Johnson.

Executive Session ended at 3:16 p.m.

Crystal Sanchez, Gigi Allen, Erik Dial, Nina Cudahy, Virgil Pierce, Cole Gustafson and Kelen Dowdy returned to the meeting at 3:18 p.m.

## 9. Legal Report

Ms. Carolyn F. Burr, Esq. with Welborn Sullivan Meck & Tooley, P.C. provided the legal report this month which covers the following cases:

The first case for the legal report for this month covers case number 21CW3216. The Water and Sewer Board previously voted to file a statement of opposition in February of 2022. Upon further analysis, staff and counsel have changed their recommendation.

Ms. Witt-Brown moved that the Board rescind its authorization of February 16, 2022 for staff and legal counsel to file a statement of opposition in Case No. 21CW3216 listing Greeley's Island Grove Well No. 4503 water right, originally decreed in Case No. W-2642, on the State of Colorado's Decennial Abandonment List. Mr. Miller seconded the motion. The motion carried 6-0.

The second case is Case Number: **22CW3055**: Ft. Collins' application for diligence of Halligan Reservoir Enlargement in the amount of 16,520AF, conditional. Ft. Collins is not claiming any portion absolute. Staff and legal counsel recommend filing a statement of opposition in this case to ensure that the diligence decree is consistent with the terms of the original decree; that Greeley's operation of Milton Seaman Reservoir is not impacted by any terms in the diligence decree; and that Ft. Collins has met its burden of diligently developing the water right.

Vice Chairman Todd moved that the Board authorize the filing of a statement of opposition in Case No. 22CW3055, and for staff and legal counsel to seek resolution of issues raised by this case consistent with Water and Sewer Board Resolution No. 3-15. Mr. Miller seconded the motion. The motioned carried 6-0.

## **10. Director's Report**

Sean Chambers provided a summary or update on additional items of Board interest:

- June 2022 W&S Organizational Chart
  - Position vacancy summary
  - Total positions – growing service area, growing assets under management and operations, and growing complexity of the business.
- Annual Board & Council Tour of Water and Wastewater Infrastructure
- Annual Greeley Citizen Tour of Water & Wastewater Infrastructure – Aug. 5<sup>th</sup>
- Guest Column on Greeley's water security as a result of planning – 6/10/22
- Confluence Biz West NoCO Water Conference – July 21<sup>st</sup> 8:30 - 3:30
- June 17<sup>th</sup> (Friday) Grand Opening of Boomerang South 8 – 10 AM

## **11. Such Other Business That May be Brought before the Board and Added to This Agenda by Motion of the Board**

Chairman Evans mentioned that the Tointon Gallery has a Confluence exhibit being presented at the gallery starting June 17<sup>th</sup> and there will be a reception from 5 to 7 pm on the opening night. Historical water images and modern-day photography will be displayed from June 17<sup>th</sup> – July 23<sup>rd</sup>.

Chairman Evans adjourned the meeting at 3:43 p.m.

\*\*\*\*\*

---

Harold Evans, Chairman

---

Raymond Lee, Board Secretary

# Water & Sewer Agenda Summary

Date: July 20, 2022

Key Staff Contact: Sean Chambers, Director of Water and Sewer

**Title:** Second Amendment to Water Supply and Storage Company Catlin Agreement

**Summary:** In November 2021, the Water and Sewer Board approved an amendment to an agreement with The Water Supply and Storage Company (“WSSC” or “Company”) that the City originally executed in April 2010 to set forth the terms and conditions by which the Company would consent to the City’s then pending change of WSSC shares. The amendment developed in 2021 will allow the City to incorporate its changed WSSC water rights into the Terry Ranch aquifer storage and recovery project.

The City executed a previous amendment to the 2010 agreement in December 2014, which allows the City to utilize excess capacity in the WSSC system. The second amendment approved by the Board in November 2021 was presented as a first amendment and did not acknowledge the 2014 amendment. To avoid any potential confusion, the enclosed version of the second amendment was reformatted and revised to acknowledge the 2014 amendment. It contains no substantive changes to the version approved by the Board in November 2021.

**Recommended Action:** Approve Second Amendment to the Water Supply and Storage Company Catlin Agreement and delegate authority to the Director of Water and Sewer to approve minor revisions to the agreement before its execution, provided that the material substance of the agreement remains unchanged.

**Attachments:** Second Amendment to Agreement between The Water Supply and Storage Company and the City of Greeley executed by WSSC

**SECOND AMENDMENT TO AGREEMENT BETWEEN  
THE WATER SUPPLY AND STORAGE COMPANY AND  
THE CITY OF GREELEY**

This AGREEMENT is made effective as of the \_\_\_\_ day of \_\_\_\_\_ 2022, by and between the **City of Greeley, Colorado**, acting by and through its Water and Sewer Board (“Greeley”), and **The Water Supply and Storage Company** (“Company”, “Water Supply”, or “WSSC”), a mutual ditch corporation incorporated under and by virtue of the laws of the State of Colorado. WSSC and Greeley are sometimes collectively referred to as the “Parties” or separately as a “Party.”

**RECITALS**

**WHEREAS**, Greeley and WSSC entered into an agreement titled “Agreement Between The Water Supply and Storage Company and the City of Greeley” dated April 30, 2010 (“Original Agreement”), attached hereto as **Exhibit A**, and Greeley and WSSC entered into an amendment to that agreement dated December 29, 2014 (the “First Amendment”) (collectively, the Original Agreement and the First Amendment are referred to herein as the “Existing Agreement”);

**WHEREAS**, pursuant to Paragraphs 1 and 1.a of the Existing Agreement and as relevant to this Agreement, the Parties agreed that Greeley may divert, take delivery, or both of the water represented by the Greeley’s then-current and future shares of capital stock in WSSC for direct use, or for storage and later use, or by exchange, but only into or from reservoirs and direct-flow diversion structures listed in paragraph 1.a of the Existing Agreement;

**WHEREAS**, Greeley is pursuing an aquifer storage and recovery (“ASR”) project, whereby Greeley would inject fully consumable water supplies into an underground aquifer to store for later use, and the Parties desire to amend the Existing Agreement to clarify that Greeley may store its current and future shares of capital stock in WSSC (“Greeley’s Shares”) in underground aquifers as further described below, in addition to the list of storage structures described in paragraph 1.a of the Existing Agreement; and

**WHEREAS**, the Directors of WSSC have determined that Greeley may divert, take delivery, or both divert and take delivery of the water represented by Greeley’s Shares so long as such diversions or deliveries are implemented consistent with the Existing Agreement and this Agreement, and so long as such diversion and deliveries are made without injury to WSSC or its stockholders;

**NOW THEREFORE**, in consideration of the premises and the terms recited in this Agreement and the Existing Agreement, it is agreed by and between WSSC and Greeley as follows:

1. **Amendment to Paragraph 1.a of Existing Agreement.** The Parties agree that Paragraph 1.a of the Existing Agreement shall be amended to state as follows:



a. Greeley may divert and/or take delivery of waters available to Greeley pursuant to Greeley's shares of WSSC for direct use, for storage and later release, or by exchange, but only into or from the following listed reservoirs, aquifer storage and recovery projects, and direct-flow diversion structures (and none other) as such reservoirs, projects, and structures may exist or in the future be constructed or enlarged from time to time (all structures located west of the 6<sup>th</sup> P.M., Larimer and/or Weld Counties, Colorado):

2. **Addition of new Paragraph 1.a.26 to Existing Agreement:** The Parties agree that Paragraph 1.a of the Existing Agreement shall be amended to add a new subparagraph 26, as follows:

26. Aquifer Storage and Recovery ("ASR"). Storage in the Upper Laramie Aquifer, as part of the "Terry Ranch Project," which is generally located in Townships 11 and 12 North, Range 67 West, and includes locations where Greeley currently has rights to nontributary groundwater, and additional locations where Greeley may acquire the right to conduct ASR operations from other owners in that vicinity. The water may be diverted from one or more of the points of diversion authorized in this paragraph 1.a, then treated as necessary, and delivered to the ASR facilities for injection, storage, and later withdrawal. The specific locations for the injection facilities have not been determined at this time.

3. **Administrative and Water Court Approval.** Greeley shall be solely responsible for obtaining any necessary administrative and/or Division 1 Water Court approval for use of Greeley's Shares in an ASR project.
4. **Existing Agreement Applies to the Water Represented by Greeley's Shares Diverted and Delivered to ASR.** This Agreement amends the Existing Agreement only to the limited extent described in paragraphs 1 through 3 of this Agreement. No other terms and provisions of the Existing Agreement are amended or otherwise altered by this Agreement. The terms and provisions of the Existing Agreement shall apply to Greeley's diversion and delivery of the water represented by Greeley's Shares to ASR as provided above, as if such structures were originally set forth on Paragraph 1.a of the Existing Agreement.
5. **Counterparts.** This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, and all of which, taken together, shall constitute the agreement of the Parties.

**IN WITNESS WHEREOF,** the undersigned Parties have entered into this Agreement to be executed on the day and year first written above.

THE WATER SUPPLY AND STORAGE COMPANY

By: Kathy W. Amen  
[INSERT NAME] President

ATTEST:

By: Heather Thiede  
[INSERT NAME] Secretary

CITY OF GREELEY, COLORADO,  
A Municipal Corporation Acting By and Through Its Water and Sewer Board

By: \_\_\_\_\_  
Board Chairman

APPROVED AS TO SUBSTANCE:

By: \_\_\_\_\_  
City Manager

By: \_\_\_\_\_  
City Clerk

APPROVED AS TO LEGAL FORM:

AS TO AVAILABILITY OF FUNDS:

By: \_\_\_\_\_  
City Attorney

By: \_\_\_\_\_  
Director of Finance

RECOMMENDED:

By: \_\_\_\_\_  
Director of Water and Sewer

# Water & Sewer Agenda Summary

Date: July 20<sup>th</sup>, 2022

Key Staff Contact: Leah Hubbard, Water Resource Administrator III

**Title:** Approve the Excess Capacity Agreement of the Larimer County Canal No. 2 Irrigating Company and the Tri-Districts and City of Greeley

**Summary:** Overland Trail Ponds sit along the Poudre River near Laporte, Colorado. Greeley has an invested right of 50% ownership in these ponds along with the Tri-Districts. The Tri-Districts are already utilizing the storage rights. In the future, Greeley will also operate these pits to meet RFOs for WSSC and Larimer and Weld Irrigation Company.

Currently, the Tri-Districts pump water from the Poudre River directly into the Overland Ponds, which is expensive and cumbersome. The Tri-Districts and Greeley seek to enter into an Excess Capacity Agreement with the Larimer County Canal No. 2 Irrigating Company in order to use the Company's ditch to gravity feed the pits and avoid the high cost of pumping.

**Recommended Action:** Approve the Excess Capacity Agreement of the Larimer County Canal No. 2 Irrigating Company and the Tri-Districts and City of Greeley and authorize the Director of Water and Sewer, or their designee, to approve minor corrections or other non-substantive edits to the agreement.

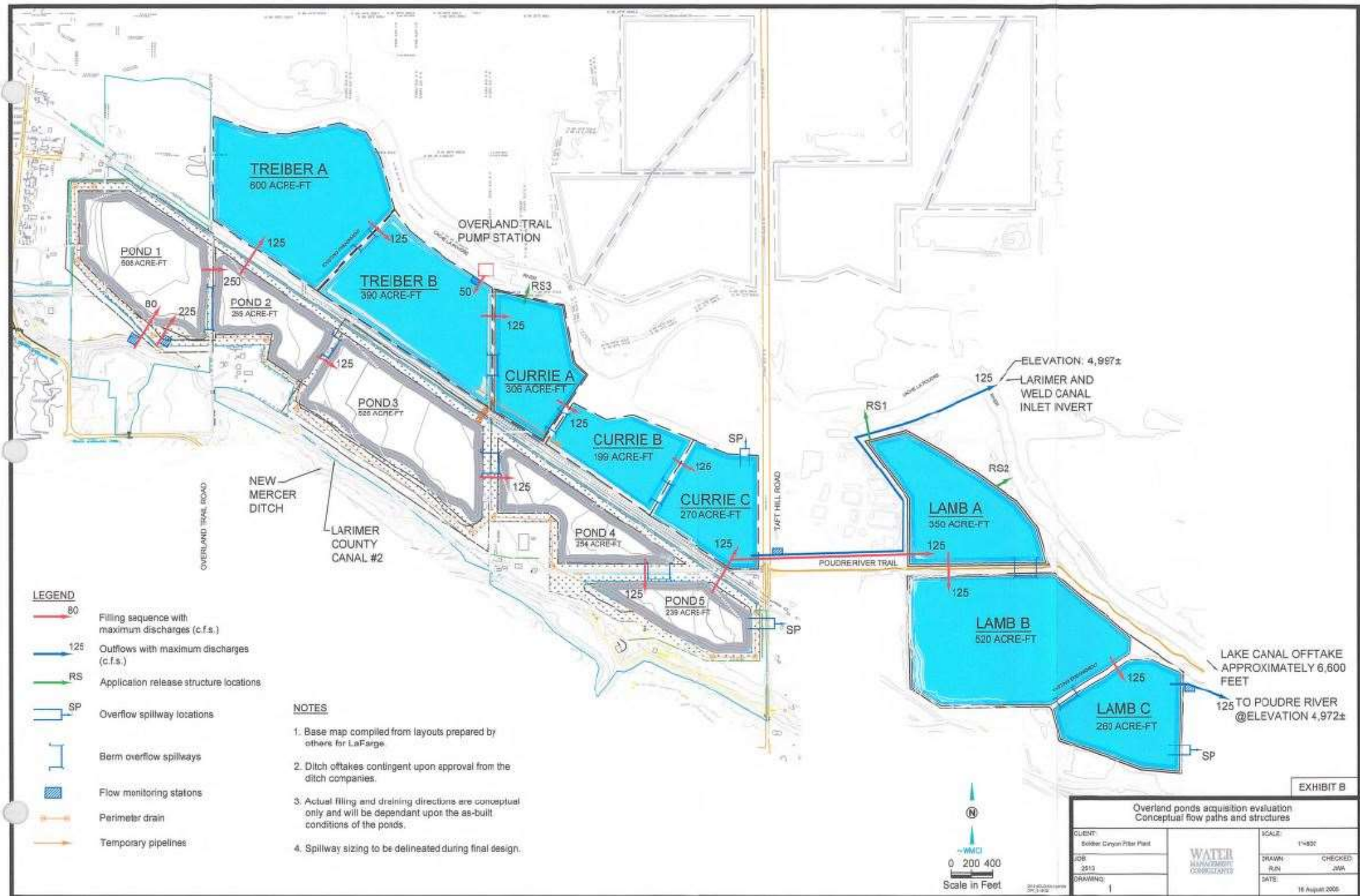
**Attachments:**

1. The Excess Capacity Agreement for the Larimer Canal No. 2 Agreement

# Larimer County No. 2 Excess Capacity Agreement

Leah Hubbard, Water Resources Administrator III

July 20<sup>th</sup>, 2022



# Terms

- Tri-Districts and Greeley can utilize capacity after the Company and Fort Collins needs are met
- 15-year term, with option to renew for two more 15-year terms
- \$11/AF irrigation season, \$21/AF off-season, increasing \$0.50/yr
- Minimum annual charge of \$1,100
- One time fee of \$100,000, Greeley will defer costs until use



# Questions?

**EXCESS CAPACITY AGREEMENT  
LARIMER COUNTY CANAL NO. 2 IRRIGATING COMPANY  
AND  
THE TRI-DISTRICTS AND GREELEY**

**THIS AGREEMENT** entered into this \_\_\_\_ day of June, 2022, is made by and between LARIMER COUNTY CANAL NO. 2 IRRIGATING COMPANY, a Colorado mutual ditch corporation (hereinafter “Company”), and the EAST LARIMER COUNTY WATER DISTRICT (hereinafter “ELCO), the FORT COLLINS - LOVELAND WATER DISTRICT (hereinafter “Fort Collins-Loveland”) and the NORTH WELD COUNTY WATER DISTRICT (hereinafter “North Weld”), each a quasi-municipal corporation and political subdivision of the State of Colorado (collectively ELCO, Fort Collins-Loveland and North Weld are referred to hereinafter as “Tri-Districts”), and the City of Greeley, a home rule municipality, acting by and through its Water Enterprise (“Greeley”). Company, Tri-Districts, and Greeley are sometimes referred to herein as the “parties” collectively, and “party” individually.

**RECITALS**

**WHEREAS**, Company is the owner and operator of that certain irrigation system commonly known as the Larimer County Canal No 2 Ditch (“Ditch”) which takes its supply of water from the Cache la Poudre River at a point located near the south section line of the SW ¼ of Section 29 and the north section line of the NW ¼ of Section 32, Township 8 North, 69 West, 6<sup>th</sup> P.M., in Larimer County, Colorado; and

**WHEREAS**, Tri-Districts and Greeley desire to use the Ditch to convey water supplies that they are entitled to divert and use pursuant to appropriations (whether decreed or undecreed), leases, and/or contracts (“Tri-Districts’ Water” and “Greeley’s Water”) from the Ditch’s point of diversion on the Cache la Poudre River to a headgate on the Ditch to deliver Tri-Districts’ and Greeley’s Water into the Overland Trail Reservoirs; and

**WHEREAS**, any rights the Company grants to Tri-Districts and Greeley to utilize capacity pursuant to this Agreement are subject to the priority system described in the: (1) *Easement Agreement*, dated December 18, 2015, recorded with the Larimer County Clerk and Recorder at Reception No. 20150085207 on December 18, 2015; and (2) the *Easement Agreement*, dated December 18, 2015, recorded with the Larimer County Clerk and Recorder at Reception No. 20150085208 on December 18, 2015 (together, “Fort Collins Agreements”); and

**WHEREAS**, any rights to use capacity in the Ditch granted under this Agreement are subordinate to the rights of the City of Fort Collins to use capacity in the Ditch pursuant to the Fort Collins Agreements; and

**WHEREAS**, the parties desire to enter into this Agreement allowing Tri-Districts and Greeley to utilize capacity in the Ditch consistent with this Agreement.



**NOW, THEREFORE**, in consideration of the mutual covenants and agreements, the sufficiency of which is hereby acknowledged, the parties hereby agree as follows:

### **AGREEMENT**

1. Use of Capacity in the Larimer County Canal No. 2 Ditch. The parties recognize that from time to time capacity may be available in all or a portion of the Ditch that is not then needed by Company, its stockholders, or pursuant to other agreements, including the Fort Collins Agreements, or to meet Company's operational obligations. As described in this Agreement, Company is granting the right to utilize capacity in the Ditch for conveyance of water available to Tri-Districts and Greeley, pursuant to and under the terms and conditions prescribed by this Agreement.
2. Definitions. The following terms are defined for purposes of this Agreement:
  - 2.1. **"Company Water"** means waters that derive from the exercise of water rights including but not limited to: (i) diversions to the Ditch under Ditch Priority #57 with an adjudication date of April 11, 1882 and an appropriation date of April 1, 1873, originally decreed for direct irrigation; (ii) water carried by Company by arrangement with and for the benefit of the Warren Lake Reservoir Company pursuant to existing priorities for storage as follows: (a) Ditch Priority #76 for five hundred fifty (550) acre-feet with an adjudication date of April 11, 1882 and an appropriation date of April 15, 1875; (b) Reservoir Priority #31 for one thousand five hundred forty-five (1,545) acre-feet with an adjudication date of December 9, 1904 and an appropriation date of January 10, 1893; and (c) Reservoir Priority #100 for eight hundred eighteen (818) acre-feet with an adjudication date of April 22, 1922 and an appropriation date of July 27, 1908, totaling two thousand nine hundred thirteen (2,913) acre-feet with no right of refill; (iii) the Company's historical deliveries of water during the irrigation season pursuant to contractual or leased rights to water available from the Colorado-Big Thompson Project, or pursuant to exchanges listed in the Decree in Case No. W-8086-75, Water Division No. 1, entered on March 24, 1978; and (iv) water historically carried for the benefit of the owner(s) of the John R. Brown Ditch pursuant to Ditch Priority #14 with an adjudication date of April 11, 1882 and an appropriation date of May 1, 1865, decreed for direct irrigation at a flow rate of three and five-tenths (3.5) cubic feet per second, and any other water the Company deems, in its sole discretion, in the best interest of the Company and its stockholders. For purposes of this Agreement, Company Water includes any waters later acquired by the Company. Company Water is First Priority Water is described in the Fort Collins Agreements.
  - 2.2. **"Company System Water"** means waters that have historically been carried in the Ditch by the Company and/or its stockholders, including but not limited to Company Water. Company System Water shall also include water not historically diverted in the Ditch, whether owned by stockholders or non-stockholders that the Board of Directors determines, in its sole discretion, is in the best interests of the Company to run in the Ditch
  - 2.3. **"New Waters"** means all water whether owned by stockholders or non-stockholders of Company, or river water (free river) which are not classified as Company System Water, including but not

limited to any water diverted and delivered for the benefit of Tri-Districts and Greeley as provided for herein.

- 2.4. **“Stockholder Capacity”** is the then existing capacity above what is needed by the Company to divert, transport or store Company System Water, i.e. at any given time, the difference between the maximum physical safe capacity of any structure of the Company (as determined by the Board of Directors) and the volume of water diverted, transported or stored through or in said structure for the Company’s operational obligations, which include the diversion and delivery of Company Water, and any existing obligations of the Company to deliver water pursuant to agreements in existence prior to the date of execution of this Agreement. Stockholder Capacity shall be determined by the Board of Directors as frequently as is necessary in the Board’s discretion. The Board may also revise this determination in its discretion as necessary to protect the Company, its stockholders, and its infrastructure and surrounding properties and structures from damage. Stockholder Capacity is Second Priority in the priority system described in the Fort Collins Agreements.
- 2.5. **“Stockholder Capacity Entitlement”** shall mean a stockholder’s allocation of capacity for delivery of Company System Water that may be utilized only through agreement with the Company, plus or minus canal shrink, provided there is capacity in the canal. If there is insufficient capacity for stockholders then requesting and having consent of the Company for use of their stockholder capacity entitlement, then each stockholder’s capacity entitlement is reduced on a pro-rata basis.
- 2.6. **“Residual Excess Capacity”** means capacity over and above Stockholder Capacity Entitlement then being used by stockholders for purposes of taking delivery of Company System Water, the use of which may only be granted by the Company pursuant to written agreements with Company stockholders or third parties (not Company stockholders), subject to the terms and conditions of this Agreement and Company policy. Residual Excess Capacity is Third Priority in the priority system described in the Fort Collins Agreements.
- 2.7. **“Irrigation Season” and “Off-Season”**. “Irrigation season” is that period when the Company is diverting Company Water pursuant to their original decreed priorities and “Off-Season” represents all other periods, with said diversions of Company Water being in the sole discretion of the Company.
3. Consent. Company hereby consents to Tri-Districts’ and Greeley’s use of Residual Excess Capacity, as defined herein, pursuant to the terms, conditions and provisions recited in this Agreement. Tri-Districts’ and Greeley’s right to utilize Residual Excess Capacity as provided herein is independent of the right, if any, to use capacity by virtue of any shares of stock now owned or in the future owned by Tri-Districts or Greeley. The Company agrees that the Tri-Districts’ and Greeley’s rights for use of Residual Excess Capacity as described in this Agreement shall be a first priority right for said Residual Excess Capacity in relation to any subsequent rights the Company may grant to others (Company stockholders or third parties) for Residual Excess Capacity.
4. Terms and Conditions of Tri-Districts; and Greeley’s Use of Residual Excess Capacity. Tri-Districts’ and Greeley’s use of Residual Excess Capacity granted herein is subordinate to use by the City of Fort

Collins under the Fort Collins Agreements and use by Company for operational obligations described in Sections 2.1-2.5 of this Agreement, and when necessary Tri-Districts' and Greeley's use may be reduced accordingly. In the event such a reduction in Tri-Districts' or Greeley's use of its Residual Excess Capacity is necessary, Company agrees to provide reasonable notice to Tri-Districts and Greeley. At times when Tri-Districts or Greeley desire to utilize Residual Excess Capacity, Tri-Districts and Greeley shall submit the specific details of their respective desired use (including the point of inflow, source and amount of water, timing, release, point of delivery, and other relevant information reasonably requested by the Company) and request review and approval from the Company, which request shall be timely considered, and approval shall not be unreasonably withheld so long as such request is consistent with this Agreement and the Company articles, bylaws and policies, and also subject to the following:

- 4.1. "Tri-Districts' Water" and "Greeley's Water" shall be the water diverted at the Company river headgate less any transportation losses. In addition to transportation loss prior to diversion at the Company headgate to be assessed, if at all, by the Water Commissioner for District No. 3, Tri-Districts' Water and Greeley's Water may be assessed for reasonable evaporation, seepage and similar "shrink" losses associated with the water that Tri-Districts or Greeley divert and carry as part of their respective Residual Excess Capacity. Transportation losses, evaporation, seepage and shrink will be as reasonably determined by the Company.
- 4.2. Tri-Districts' and Greeley's use of capacity under its Residual Excess Capacity will be allowed only if such uses would in no way be detrimental to the Company or its stockholders.
- 4.3. Tri-Districts' and Greeley's use of capacity under its Residual Excess Capacity, for both irrigation season carriage and for carriage in the off-season, as each such period is further defined herein, shall be limited to an amount not exceed 4,600 acre feet and a rate of no more than 25 c.f.s. at the river headgate.
- 4.4. Tri-Districts and Greeley shall make prompt payment to the Company for any additional operations, maintenance and other costs associated with use of its Residual Excess Capacity, which are specifically identified by the Company and which the parties agree are reasonable and directly related to Tri-Districts' or Greeley's Excess Capacity Entitlement. The nature and amount of compensation shall be subject to mutual agreement of the parties.
- 4.5. Tri-Districts' and Greeley's rights to utilize Residual Excess Capacity are subordinate to the first and preferential right of the Company and its stockholders to utilize Stockholder Capacity Entitlement and Residual Excess Capacity. Once such rights to capacity are satisfied, Tri-Districts and Greeley may utilize available Residual Excess Capacity for the delivery of Tri-Districts' Water and Greeley's Water.
- 4.6. Tri-Districts and Greeley recognize and agree that Stockholders shall have a first and preferential right to utilize Residual Excess Capacity prior to Tri-Districts and Greeley, subject to the terms of this Agreement and Company policy.
- 4.7. The Company shall determine, in its sole discretion, the amount of Stockholder Capacity entitlement and Residual Excess Capacity that is available at any given time. Tri-Districts and

Greeley understand and agree that their rights for use of Residual Excess Capacity shall be a first priority right for said Residual Excess Capacity in relation to any subsequent rights the Company may grant to others (Company stockholders or third parties) for Residual Excess Capacity. Off-season carriage is that period when the the Company is not running water for stockholders during the irrigation season. The availability of Residual Excess Capacity for off-season carriage is determined in the sole and absolute discretion of the Company.

5. Term and Payment.

- 5.1. The Term of this agreement shall be from June 1, 2022 to December 31, 2036, and shall be automatically renewed for two subsequent fifteen-year terms unless Company provides written notice to Tri-Districts and Greeley not less than ninety (90) days prior to the expiration of the then-current Term citing the reason(s) for such termination and providing Tri-Districts and/or Greeley with the opportunity to meet collectively or separately with the Company's Board of Directors within thirty (30) days of receipt of such notice and to conduct good faith negotiations for a revised Agreement
- 5.2. The carriage fee for Tri-Districts' and Greeley's utilization of Residual Excess Capacity for 2022 shall be \$11.00 per acre foot for irrigation season carriage, and \$21.00 per acre foot for carriage during the off-season pursuant to the limitations described in this Agreement ("Annual Fee"). The minimal annual charge for any amount up to 100 acre feet is \$1,100.00 (annual per acre foot fee multiplied by 100 acre feet). Tri-Districts and Greeley shall pay Company the minimum fee annually on or before January 1 of each year of this Agreement and the remaining amount shall be paid on or before November 13<sup>th</sup> of each year. Unless curtailment or termination occurs as described in this Agreement, the amount paid is non-refundable. The Annual Fee shall be increased by fifty cents (\$.50) every year and the minimal annual charge shall be increased in the same ratio as described herein.
- 5.3. At execution of this Agreement, the Tri-Districts and Greeley shall pay a one-time fee of \$100,000.00 as compensation separate and apart from assessments required from all stockholders of the Company during the term of this Agreement. The compensation described herein is non-refundable, not contingent upon any renewal described in this Agreement, and may be used by the Company in their complete and sole discretion.
- 5.4. Additional charges will be assessed as necessary for administration, operation, legal review, engineering review, and any other charges incurred by the Company related to this Agreement. Tri-Districts and Greeley shall pay a minimum annual fee for administration and operation fees in the amount of \$500.00 for irrigation season carriage, and a minimal fee of \$1,000.00 for off-season carriage, with an annual amount not to exceed \$2,500.00 for irrigation season carriage and a maximum annual fee of \$5,000.00 for off-season carriage, all to be paid on or before November 13<sup>th</sup> of each year. The minimum annual fees will increase by the amount of twenty-five percent (25%) every fifteen years and the maximum amounts adjusted accordingly.
- 5.5. Tri-Districts and Greeley will secure the proper approval and provide the appropriate decrees and/or authorization and documentation for Tri-Districts' Water and Greeley's Water to be carried

in the ditch. Tri-Districts and Greeley will provide all measuring devices for proper tracking and accounting for Tri-Districts' Water and Greeley's Water delivered from ditch.

6. No Modification of the Ditch. After execution of this Agreement, the Tri-Districts and Greeley anticipate submitting to the Company for its approval plans to improve the turn-out structure to the Overland Trails Pond system. The Company agrees to review such plans in a timely manner. For any other improvements sought by the Tri-Districts and Greeley that are not related to the turn-out structure improvement, the Tri-Districts and Greeley agree that they may not construct facilities on or in, or operate or modify the Ditch, its headgate, or any other reservoir, ditch, facility or other structure or property owned, controlled or operated by Company, unless the written approval of Company's Board of Directors is obtained. Such other approval(s) may be withheld or denied in the sole and absolute discretion of the Board. Company, and not Tri-Districts or Greeley, shall operate the Ditch to effectuate Tri-Districts' and Greeley's utilization of its Residual Excess Capacity granted herein.
7. Indemnification. Tri-Districts and Greeley agree that in the event there is any lawsuit or claim brought by Company stockholders or third parties against Company or its Board of Directors, officers and employees arising from or related to the diversions, storage, deliveries or use of water under Tri-Districts' and Greeley's right to utilize Residual Excess Capacity granted herein, then to the extent permitted and limited by Colorado law Tri-Districts and Greeley shall hold harmless, indemnify and defend Company, its directors, officers and employees for the cost and defense of said suit and/or any claim for damages relating thereto. If agreed upon by Company and Tri-Districts in writing, Tri-Districts and Greeley may directly defend such suit or suits. Nothing in this paragraph shall be interpreted to require Tri-Districts or Greeley to indemnify or defend Company, its Board of Directors, officers and employees for damage or injury caused by (i) the negligence of Company in the operation, maintenance or repair of any ditch, reservoir, or other structure owned, controlled or operated by Company or (ii) the breach of any third-party agreement by Company or its Board of Directors, officers, and employees.
8. No Warranties or Representations. Company does not warrant or represent that the Ditch and/or its appurtenances is or are owned in fee simple title, but rather may exist by grant of right of way, easement or prescriptive use. The intent of Company is to grant Tri-Districts and Greeley such rights as it is in Company's power to grant, to allow for Tri-Districts' and Greeley's use as described in this Agreement, insofar as Company is legally authorized to allow it. Company makes no warranties or representations as to the quality of water delivered or diverted pursuant to this Agreement.
9. Irresistible Force. Company shall not be liable or responsible for any delay or failure to perform under this Agreement due to conditions or events of irresistible force. Irresistible force shall mean any delay or failure of a party to perform its obligations under this Agreement caused by events beyond Company's reasonable control, including, without limitation, acts of God, terrorism, explosion, vandalism, flood, earthquakes and tornadoes. For purposes of this Agreement, Irresistible Force shall also include a material alteration in the historical operations of Company with respect to carriage, such that carriage of water through the Ditch for Tri-Districts' or Greeley's use is affected, and in such event, and upon written notice to Tri-Districts and Greeley, Company's obligations pursuant to this Agreement shall be suspended or curtailed for such time and to the extent as necessary, or this Agreement may be terminated at the option of Company. In the event Company fails to carry the water pursuant to this Agreement as described in this paragraph, Company shall reimburse to Tri-

Districts and Greeley the amount of the payment proportionate to the amount of water not carried, limited to those fees collected under Section 5.2 of this Agreement.

10. Articles, Bylaws and Policies. Tri-Districts and Greeley acknowledge that the diversion, delivery and use of water at any particular time must be in accordance with the then existing Articles of Incorporation, Bylaws, policies, and rules and regulations of Company.
11. No Modification of Agreements. The parties intend that this Agreement is not to supersede or modify any previous agreements or stipulations that Company has entered into with stockholders or others. Therefore, it shall not be so construed, interpreted, or enforced even if its language would have such a result. This Agreement and the diversion and/or delivery of water authorized hereunder are subject to all previous agreements and stipulations entered into by Company, and all operational obligations arising therefrom.
12. Assignment. This Agreement, or any part thereof, may not be assigned by one party unless it has obtained the written consent of the other parties. Company, Tri-Districts, and Greeley recognize that the rights, obligations and performance under this Agreement are unique and specific to the parties. This Agreement is binding upon the successors of Company, Tri-Districts, and Greeley.
13. Survival. If any cause or provision of this Agreement is illegal, invalid or unenforceable under present or future laws or decrees effective during the term of this Agreement, then and in that event, it is the intention of the parties hereto that the remainder of this Agreement shall not be affected thereby.
14. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed and original, and all of which taken together shall constitute the agreement of the parties. This Agreement, including all component parts, may be executed and delivered by electronic signature by any of the parties and all parties consent to the use of electronic signatures.
15. Governmental Immunity. Tri-Districts and Greeley are relying on, and do not waive or intend to waive by any provision of this Agreement, the monetary limitations or any other rights, immunities, defenses, or protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101 et seq., as amended from time to time.

**IN WITNESS WHEREOF**, The Larimer County Canal No. 2 Irrigating Company has, by the authority of its Board of Directors, caused this Agreement to be executed by its President and attested by its Secretary, and each of the Tri-Districts has, by the authority of each of their respective Boards of Directors, caused this Agreement to be executed by their respective Presidents and attested by their respective Secretaries, and Greeley, acting by and through its Water Enterprise has, by authority of its Water and Sewer Board, caused this Agreement to be executed by the Director of Water and City Attorney.

THE LARIMER COUNTY CANAL NO. 2 IRRIGATING  
COMPANY,  
a Colorado mutual ditch corporation

By: \_\_\_\_\_, President

ATTEST:

\_\_\_\_\_

\_\_\_\_\_  
[Print Name]

THE TRI-DISTRICTS:

EAST LARIMER COUNTY WATER DISTRICT

By:\_\_\_\_\_

\_\_\_\_\_

ATTEST:

\_\_\_\_\_

\_\_\_\_\_  
[Print name]

NORTH WELD COUNTY WATER DISTRICT

By:\_\_\_\_\_

\_\_\_\_\_

ATTEST:

\_\_\_\_\_

\_\_\_\_\_  
[Print name]

FORT COLLINS - LOVELAND  
WATER DISTRICT

By:\_\_\_\_\_

\_\_\_\_\_

ATTEST:

\_\_\_\_\_

\_\_\_\_\_  
[Print name]

THE CITY OF GREELEY, a home rule  
municipality, acting by and through its Water  
Enterprise

By:\_\_\_\_\_

Sean Chambers, Director of Water and Sewer

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Doug Marek, City Attorney



# Water & Sewer Agenda Summary

June 20, 2022

Key Staff Contact: Sean Chambers, Water & Sewer Director

**Title:** Welcome New Water & Sewer Employees and Recognize Department Promotions

**Summary:**    New Hires:    There are no new hires this month

Promotions:    Nick Craigmyle – Promoted to Water Plant Operator C  
                                                           Juan Salazar – Promoted to Lead Meter Services Technician

**Recommended Action:** Information only

**Attachments:** None

# Water & Sewer Agenda Summary

Date: July 20, 2022

Key Staff Contact: Sam Haas, Public Participation and Engagement Manager;  
Communications & Engagement Department

**Title:** “Speak Up Greeley” Community Engagement Platform

**Summary:** As part of the City’s commitment to develop and embed best practices for transparent community engagement into standard operating procedures, the communication and engagement department has launched a new website called “Speak Up Greeley” ([www.speakupgreeley.com](http://www.speakupgreeley.com)) that will enhance Greeley’s ability to foster two-way communication and increase opportunities for public participation.

Speak Up Greeley will be an important tool for city staff as they execute priority projects for which public input or community collaboration are necessary or expected components. No matter how well the city designs in-person opportunities for people to engage, bringing the conversation online gives many more people access to the information and allows them to have a voice in the process. This tool will be a go-to website for community members to:

- Provide input and feedback on City initiatives and projects
- Ask questions in a moderated environment
- Interact with each other and see the range of perspectives represented
- View outcomes of an engagement process

The site will feature projects that are a priority for the city – whether that’s a master plan, a park redevelopment, or streets improvement project – the focus of the site will be to genuinely engage with the community and understand where there is consensus or divergence in perspectives. Any project added to the Speak Up Greeley expands our ability to integrate community feedback into the decisions and outcomes of strategic projects.

**Recommended Action:** Informational item only

**Attachments:** Presentation summarizing Speak Up Greeley

# Greeley's New Engagement Website

## Presentation to Water & Sewer Board

### July 2022



# What is Speak Up Greeley?

**Speak Up Greeley is an online community engagement platform for anyone who:**

- **Lives**
- **Works**
- **Plays**
- **Owns a business/property**

**in Greeley to provide feedback, share ideas, and ask questions about a variety of City projects and decisions.**



# Value for the Community

**The City  
makes a lot of  
decisions...**

**...and needs  
the  
community's  
input for  
many of  
them...**

**...and realizes  
that not  
everyone can  
provide input  
through  
traditional  
means...**

**...and wants  
to provide  
easier ways  
for people to  
share and  
participate in  
decision-  
making**



# What are the Benefits?

- Civic participation leads to better governance
- Online public engagement builds social capital
- Better trust with the community
- Increased overall participation
- Improved government transparency
- Reduced misinformation





**REGISTER  
TODAY!**

**SpeakUpGreeley.com**



## FAQ

### **Why is Greeley engaging online?**

. Speak Up Greeley offers an alternative way to engage:

- Quick and convenient way for people to have a say on a range of topics.
- Easy access to supporting documents/resources on each project page.
- Opportunity to see what other community members think about issues.

### **Why is registration required?**

Registration is not required to view ongoing conversations, but it is required for many of the more in-depth engagement – that's because:

- It promotes accountability and encourages civil/thoughtful dialogue.
- It allows the city to stay in touch with people.
- It helps the city better understand the data.

# How Can You Help?

## **Get the word out!**

- Share with your networks – word of mouth, social media (digital media toolkit available with language, sample posts)

## **Post regularly**

- Your participation sets an example for others on civility and engagement!

## **Share your feedback**

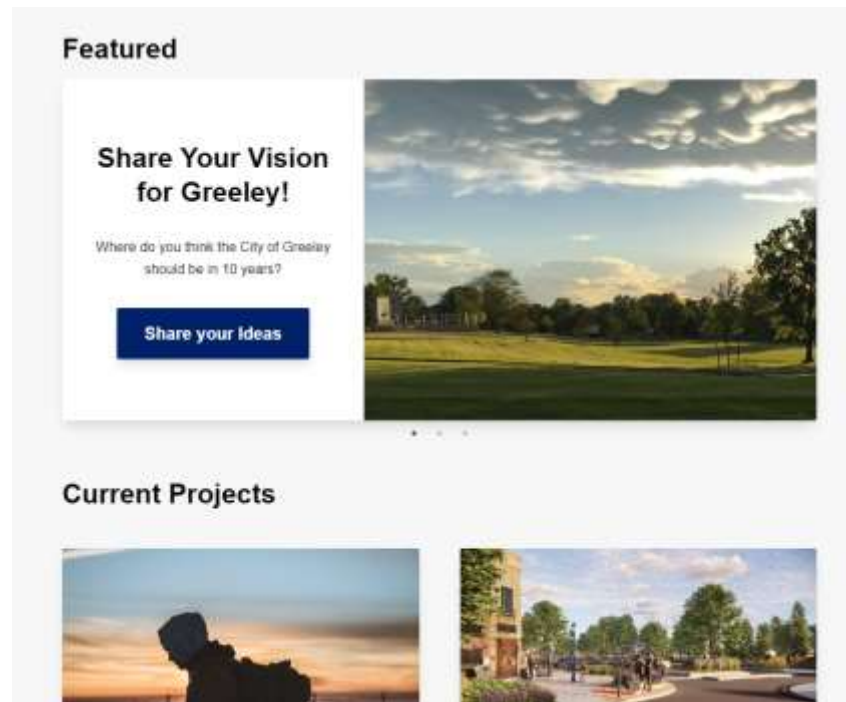
- As more and more projects come online, we want to know firsthand how it's resonating and if there's anything that could be done differently/better.





# Site Overview

Go to [www.SpeakUpGreeley.com](http://www.SpeakUpGreeley.com) to register!



🔒 speakupgreeley.com/share-your-vision-for-the-city

## Share Your Vision for the City



### Share Your Vision

We want to hear about what matters most to you in this community - our City works better, stronger and smarter when your perspectives are centered!

#### Guidelines:

- This is a respectful space.
- Forum will be moderated by a third party.
- This space is about learning what you envision for the future of Greeley - your quality of life, your community. As such, please focus your feedback on providing positive solutions.

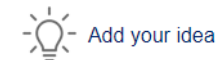
### Ideas



## Share your Vision

about 1 month ago

Imagine it's 2032...10 years from now. If you could create an ideal future for the City of Greeley, what would that future look like?



**citizen 5**

3 days ago

### Move East

I'm hoping Greeley will start growing East. It's getting to crowded moving west. and plenty of resources East of

0 Comment

1 ❤️



**citizen 5**

3 days ago

### McCluskey Park

This is a Natural Habitat Area. Overgrown and many dead trees

0 Comment

0 ❤️

Help get the word out!



# Water & Sewer Agenda Summary

Date: July 20<sup>th</sup>, 2022

Key Staff Contact: Leah Hubbard, Water Resource Administrator III

**Title:** Approve 18CW3042 Global Settlement Agreement with the Greeley Loveland Irrigation Company, City of Loveland, Town of Windsor, Town of Milliken, and Town of Evans

## **Summary:**

The City of Greeley has a diverse portfolio of water rights, which are protected by filing Statements of Opposition in water court cases that could impact these rights. In February of 2018, The Town of Windsor submitted an application to change water rights in the Greeley-Loveland system and Greeley filed a Statement of Opposition with the knowledge that Windsor would be relying on Greeley's previous decrees for the methodology to change these rights.

Greeley has previously changed water rights within this system, and new applications have historically relied on these previous cases as a methodology for their cases. Throughout the last decades there has been ongoing disputes of how this methodology was derived, and how much water the Greeley-Loveland system rights would receive.

Greeley staff, legal counsel, and engineering consultants took the lead on resolving many of the outstanding issues surrounding change cases within this system. Through negotiation of Windsor's pending decree, a Global Settlement was established to limit further disputes in the future. While this is not the typical approach to decrees, Greeley felt that it was necessary to cease the continuing issues when each new court case was entered.

This Global Settlement has been negotiated on and agreed to by all parties and protects Greeley's interests in the future. All other parties are pursuing the appropriate entities to have it signed by the end of July.

**Recommended Action:** Approve 18CW3042 Global Settlement Agreement with the Greeley Loveland Irrigation Company, City of Loveland, Town of Windsor, Town of Milliken, and Town of Evans and authorize the Director of Water and Sewer, or their designee, to approve minor corrections or other non-substantive edits to the agreement.

## **Attachments:**

1. Global Settlement Agreement



# 18CW3042 Global Settlement Agreement

Leah Hubbard, Water Resources Administrator III  
July 20<sup>th</sup>, 2022

# What is Water Court?

- Specialized state courts in Colorado
- Water Division One – South Platte River Basin
  - Based in Weld County Courthouse in Greeley
- The water courts determine water rights, the use and administration of water, and all other water matters within the Division

# Why is Greeley so Active in Water Court?

- Big portfolio with many historic rights to protect
- Location
- Innovative water resource planning for over 100 years



# The Greeley-Loveland System

- Flows from Big Thompson River through Barnes and GLIC headgates
- Feeds Lake Loveland, Horseshoe, Boyd Lake, and other smaller lakes in Loveland
- Relatively junior rights
- Greeley largest shareholder
- Greeley has two positions on the Board

# 18CW3042

- Submitted by Town of Windsor
- Previously discussed by the W&S Board
- Agreement has been reached





# Timeline



- February 2018 – Windsor submitted Application
- April 2020– Case was on trial track, Windsor submitted 26a2's
- December 2020 – DiLalla entered case for Greeley

# Timeline

- August 2021 – Loveland submitted Motion for ditch-wide diversion cap (no ruling)
- September 2021- Loveland submitted motion to strike Windsor's Supplemental Report (no ruling)
- October 2021 – First large in-person meeting
- November 2021 – Engineering meetings, email proposals

# Timeline

- December 2021 – Agreed to terms of Global Settlement
- January 2022 – Started drafting
- February 2022 – First draft went to all parties
- March – April 2022 – Continued redlines, deep dive into Unallocated Shares



# Timeline



- May 2022 – continued negotiations of volumetric limits for future change cases
- June 2022 – Finalization of the Global Settlement

# Final Terms

- Windsor has a slightly larger volumetric limit than future change cases
- Systemwide basis for future changes, versus sector
- Only Great Western and Loudon shares “Unallocated”
- Loveland consents to withhold any quantification of the prior decrees
- “Non-Opposition” in future cases
- Greeley to let trails move forward



# Benefit to Greeley

- Loveland will only enter a future change case to ensure terms and conditions of this settlement are met, no new issues
- No trial, less risk to past and future changed shares
- Closing the door on future disputes
- Maintained relationships within the region



Three thick, light beige wavy lines that sweep across the top of the slide from left to right.

# Questions?

**SETTLEMENT AGREEMENT**  
**IN CONJUNCTION WITH RESOLUTION OF CASE NO. 18CW3042**

This Settlement Agreement in Conjunction with Resolution of Case No. 18CW3042 (“Agreement”) is made by and between the Greeley and Loveland Irrigation Company (“GLIC”); the City of Loveland (“Loveland”); the City of Greeley, acting by and through its Water and Sewer Board (“Greeley”); the Town of Windsor (“Windsor”); the City of Evans (“Evans”); and the Town of Milliken (“Milliken”) (collectively, the “Parties”).

**Recitals**

- A. The Parties other than Milliken are parties to Windsor’s pending Case No. 18CW3042 in the Water Court for Water Division 1 (“Water Court”).
- B. Among other claims, Windsor’s Application in Case No. 18CW3042 includes a claim for a change of the water rights represented by certain shares in the GLIC and the Seven Lakes Reservoir Company (“Seven Lakes”) and certain contract rights in an unincorporated entity, the Loveland and Greeley Reservoir (“Lake Loveland”). GLIC, Seven Lakes, and Lake Loveland are referred to collectively in this Agreement as the “Greeley-Loveland System;” and the interests in the Greeley-Loveland System that Windsor seeks to change in Case No. 18CW3042 are referred to as the “Windsor Shares.”
- C. By the decree entered on February 6, 1990, and amended on September 16, 2002, in Greeley’s Case No. 87CW329 (as amended, the “87CW329 Decree”), the Water Court adjudicated Greeley’s change of the water rights represented by certain shares and contract rights in the Greeley-Loveland System. A copy of the text of the 87CW329 Decree (not including exhibits) is attached as **Exhibit A**. In making its factual findings regarding the historical use of water diverted by the Greeley-Loveland System, the Water Court relied on a system-wide engineering analysis performed by W.W. Wheeler and Associates in support of Greeley’s application (“Wheeler Report” or “Wheeler System-Wide Analysis”). A complete copy of the Wheeler Report is attached as **Exhibit B**. The historical period of use described in the Wheeler Report is from 1968-1985, excluding 1971, and is referred to in this Agreement as the “Wheeler Study Period.” For purposes of this Agreement, the system-wide change methodology approved in the 87CW329 Decree means the suite of terms and conditions of the 87CW329 Decree that have been carried forward in subsequent changes of the Greeley-Loveland System Water Rights (see, e.g., paragraph 19 of the 95CW42 Decree and paragraph 6 of the 99CW235 Decree) as those terms are modified or supplemented by the Stipulated Volumetric Limit Methodology, the Dividend-Based Retained Jurisdiction Term, the 2022 Settlement Storage RFO Methodology, and the Direct-Flow RFO Methodology described below (hereinafter, the “87CW329 System-Wide Methodology”).
- D. For purposes of this Agreement, the term “Unallocated Shares” refers to those 36 rights in Lake Loveland and 20 shares in Seven Lakes owned by the Great Western Sugar Company during the Wheeler Study Period, and 20 rights in Lake Loveland owned by Loudon Ditch Company during the Wheeler Study Period. The table attached as **Exhibit C** summarizes



the characteristics, including certificate numbers from the Wheeler Study Period except for the Lake Loveland rights which are the current certificate numbers, of the Unallocated Shares. The total numbers of outstanding shares or contract rights, as applicable, within each company are as follows: 1,672 GLIC shares (direct flow), 1,648 GLIC-Boyd shares (storage), 300 Lake Loveland rights, and 400 Seven Lakes shares.

- E. In the 87CW329 Decree, GLIC, Seven Lakes, and Lake Loveland are referred to collectively as the “Companies.”
- F. Paragraph 6 of the 87CW329 Decree defined the term “Subject Water Rights” to mean the “water rights which are within the Companies’ system,” comprising the Barnes Ditch water rights described in the decree’s paragraph 6.A; the Larimer County Irrigation and Manufacturing Ditch, a/k/a Chubbuck Ditch or the Chubbuck Ditch water rights described in the decree’s paragraph 6.B; the Loveland and Greeley Canal’s water right described in the decree’s paragraph 6.C; the Seven Lakes Reservoir System water rights described in the decree’s paragraph 6.D; the Boyd Lake water rights described in the decree’s paragraph 6.E; and the Loveland and Greeley Reservoir (Lake Loveland) water rights described in the decree’s paragraph 6.F. Footnote 5 of the 87CW329 Decree narrowed the definition of the term “Subject Water Rights” as follows: “As noted above and in Paragraph 14 below, all references to the ‘Subject Water Rights’ in this paragraph and elsewhere in this Decree do not include the ‘Barnes Ditch contractual rights’ and the ‘Chubbuck Ditch contractual rights,’ as described in Paragraph 14, and all diversions, deliveries, return flows and depletions attributable to such contractual rights have been factored out and excluded from the figures listed above.”
- G. In this Agreement, the terms “Barnes Inches” and “Chubbuck Inches” mean, respectively, the “Barnes Ditch contractual rights” and the “Chubbuck Ditch contractual rights” as described in Footnote 5 and paragraph 14 of the 87CW329 Decree.
- H. Recital G of the 2018 Stipulation described in Recital J below defined the term “GLIC’s Inch Water” as the “incremental amount of additional water delivered to the shareholders under the Greeley-Loveland System as a result of the GLIC’s ownership of Barnes Inches and/or Chubbuck Inches.”
- I. Paragraph 7 of the 87CW329 Decree provides as follows: “This decree authorizes the change of the shares and contract rights within the Companies which Applicant owned at the time of filing the Application, as described above (hereinafter referred to as the ‘Transferred Water Rights’).”
- J. Paragraph 32 of the 87CW329 Decree provides that the volumetric limits imposed on Greeley’s changed Transferred Water Rights apply to “diversions under the direct flow portion of the Subject Water Rights owned by Greeley and any diversions of or stemming from the Barnes and Chubbuck contractual rights by Greeley.”

- K. In this Agreement, the term “Greeley-Loveland System Water Rights” means the water rights described in paragraphs 4.1, 4.2, 4.3, and 4.4 of the Application filed in Case No. 18CW3042, including their subparagraphs.
- L. In paragraph 41, the 87CW329 Decree provided that “the Court should retain jurisdiction indefinitely . . . [t]o permit the change of water rights represented by additional shares or contract rights now owned or hereafter acquired by Greeley in the Subject Water Rights or any of the Companies, upon the terms and conditions of this decree. These rights may be changed only upon the filing of an application under the Court’s retained jurisdiction in this case, identifying the water rights to be changed.” Said paragraph 41 further provided that “[w]ith respect to future changes of additional shares or rights in the Subject Water Rights by Greeley pursuant to this decree, no party shall be foreclosed from challenging the findings and conclusions herein as they relate to such future changes or from asserting any position for proposed terms and conditions for the change of such additional shares or rights.”
- M. Paragraph 50 of the 87CW329 Decree provided that “[i]f Applicant seeks to change water rights represented by additional shares or contract rights now owned or hereafter acquired by Greeley in any of the Subject Water Rights, Applicant may do so upon the terms and conditions of this Decree, including but not limited to the protective terms and conditions contained in Findings of Fact Nos. 16, 18-19, 21-23, and 32-39. These rights may be changed upon the filing of an application under the Court’s retained jurisdiction in this case, identifying the water rights which are to be changed. . . . With respect to future changes of additional shares or rights in the Subject Water Rights by Greeley pursuant to this decree, no party shall be foreclosed from challenging the findings and conclusions herein as they relate to such future changes or from asserting any position for proposed terms and conditions for the change of such additional shares or rights.”
- N. By the decree entered on December 21, 2001, in Case No. 95CW42 (“95CW42 Decree”), the Water Court adjudicated Greeley’s change of the water rights represented by additional shares and contract rights in the Greeley-Loveland System. A copy of the text of the 95CW42 Decree (not including exhibits) is attached as **Exhibit D**.
- O. Paragraph 17 of the 95CW42 Decree provided that “[n]otwithstanding the provisions of Paragraphs 41.A and 50 of the Decree in Case No. 87CW329, Applicant or any other owner of portions of the Subject Water Rights may rely on the findings made herein and, to the extent not revised by this Decree, in the Decree in Case No. 87CW329 regarding historic consumptive use, amount and location of use and dried-up historically irrigated acreage, terms and conditions necessary to prevent an expansion of the historical consumptive use of the Subject Water Rights, and related matters determined herein and therein in any future applications for change of the Subject Water Rights, which determinations shall be *res judicata* in the absence of a showing of subsequent events which were not addressed by this Court herein or therein and which are germane to the question of injury. Williams v. Midway Ranches Property Owners’ Ass’n, Inc., 938 P.2d 515, 526 (Colo 1997); Farmers High Line Canal and Reservoir Co. v. City of Golden, 975 P.2d 189, 200 (Colo 1999).”

Said paragraph 17 of the 95CW42 Decree is referred to in this Agreement as the “95CW42 Res Judicata Term.”

- P. Since entry of the 95CW42 Decree, decrees in the following cases have adjudicated changes of Greeley-Loveland System Water Rights in reliance on the Wheeler System-Wide Analysis and the terms and conditions of the 87CW329 Decree and the 95CW42 Decree: Case No. 99CW235 (Greeley); Case Nos. 96CW958, 03CW314, and 08CW175-B (Evans); and Case No. 97CW077 (Central Colorado Water Conservancy District).
- Q. Through their stipulation dated May 7, 2018, in Case No. 08CW175-B (“2018 Stipulation”), GLIC, Loveland, Greeley, and Evans resolved certain but not all of their disputes pertaining to changes of Greeley-Loveland System Water Rights in reliance on the Wheeler System-Wide Analysis and the terms and conditions of the 87CW329 Decree and the 95CW42 Decree. In particular, paragraph 9 of the 2018 Stipulation provided that the four parties to that agreement “expressly acknowledge that this Stipulation did not and does not resolve all disagreements by, between, and among, Evans, Loveland, Greeley, and the GLIC concerning volumetric and/or season-of-use limits.” That paragraph of the 2018 Stipulation further provided that “[i]t is specifically understood and agreed by Evans, Loveland, Greeley, and the GLIC that this Stipulation shall not give rise to any argument, claim, defense or theory of acquiescence, waiver, bar, merger, stare decisis, res judicata, estoppel, laches, or other form of preclusion, by or against any of the parties to this Stipulation in any other matter, case or dispute on any factual or legal issue concerning volumetric and/or season-of-use limits not expressly contained in paragraphs 1 through 3 and 5 through 7 of this [2018] Stipulation, above.” A copy of the text of the 2018 Stipulation (not including exhibits) is attached as **Exhibit E**.
- R. During the Parties’ settlement negotiations in Case No. 18CW3042, disputes have arisen over the historical use of the Greeley-Loveland System Water Rights and interpretation of prior decrees, stipulations, and agreements, including without limitation disputes over application of the 95CW42 Res Judicata Term, including its reference to subsequent events that are germane to the question of injury. Those disputes over subsequent events that are germane to the question of injury, which are referred to collectively in this Agreement as a dispute over “changed circumstances” in the Greeley-Loveland System since entry of the 87CW329 Decree and the 95CW42 Decree, pertain particularly to the disputes over volumetric and/or season-of-use limits that were left unresolved by Evans, Loveland, Greeley, and GLIC in the 2018 Stipulation.
- S. As described in Recital D of the 2018 Stipulation, the Greeley-Loveland System includes two main ditches, the Barnes Ditch and the Chubbuck Ditch (a/k/a Loveland and Greeley Canal). Certain of the water rights decreed to the Barnes Ditch and the Chubbuck Ditch are subject to contractual delivery entitlements (i.e., the “contractual rights” described in Recital F above) that have come to be known as the “Barnes Inches” and the “Chubbuck Inches.”
- T. Recitals D through J and Recital L of the 2018 Stipulation describe the history and the current status of the Barnes Inches and Chubbuck Inches, including Loveland’s ownership

of such inches and Loveland's changes of the associated Barnes Ditch and Chubbuck Ditch water rights in Case Nos. 82CW202(A), 87CW178, 99CW290, 92CW112, 00CW108/03CW354, and 02CW392 (together, the "Loveland Inches"). By this reference, Recitals D through J and Recital L of the 2018 Stipulation are incorporated herein in their entirety.

- U. GLIC and Loveland are parties to an agreement dated January 25, 2010 ("2010 GLIC-Loveland Agreement"), pertaining to the Loveland Inches and to the "Title Agreement" and the "Operating Agreement," both dated June 22, 1977, between Loveland and GLIC. Paragraph 6 of the 2010 GLIC-Loveland Agreement provides that Loveland "shall not apply for changes of any additional Barnes or Chubbuck Contract Inches beyond those that were the subject of the 202A Decree, the Inclusionary Decrees, or were already included in Case No. 02CW392 and Case Nos. 00CW108/03CW354." A copy of the text of the 2010 GLIC-Loveland Agreement (not including exhibits) is attached as **Exhibit F**.
- V. GLIC, Loveland, and Greeley are parties to the "Agreement Concerning Barnes and Chubbuck Contract Inches" dated March 5, 2003 ("2003 GLIC-Loveland-Greeley Agreement"). A copy of the 2003 GLIC-Loveland-Greeley Agreement is attached as **Exhibit G**.
- W. In the corrected decree entered in Loveland's Case No. 02CW392 on January 11, 2011 ("02CW392 Decree"), the Water Court adjudicated Loveland's changes of water rights in the Big Thompson Ditch and Manufacturing Company's Ditch ("Big Thompson D&M Ditch"), the Buckingham Ditch (a/k/a George Rist Ditch), the Loudon Ditch, and the South Side Ditch, as well as water rights represented by certain of the Loveland Inches based on Loveland's ditch-wide analyses for those ditches ("02CW392 Ditch-Wide Methodologies"). A copy of the text of the 02CW392 Decree (not including exhibits) is attached as **Exhibit H**.
- X. Paragraph 12.3 of the 02CW392 Decree, entitled "Res Judicata," provides that "[t]he findings made herein regarding historic consumptive use, amount and location of use, dry-up, and related matters determined herein for shares being changed in the Big Thompson D&M Co., the Buckingham Ditch Co., the Loudon Ditch Co., and the South Side Ditch Co. are based on ditch-wide analyses and pro rata entitlements. Loveland or any other owner of shares in the Big Thompson D&M Co., the Buckingham Ditch Co., the Loudon Ditch Co., and the South Side Ditch Co. may rely upon the findings made herein regarding historic consumptive use, amount and location of use, dry-up, and related matters determined herein in any future applications for change of such shares, which determinations shall be res judicata in the absence of a showing of subsequent events that were not addressed by this Court herein and which are germane to the question of injury. *See In re Application for Water Rights of Midway Ranches Prop. Owners Ass'n*, 938 P.2d 515, 526 (Colo. 1997). To prevent expanded use, future changes of shares in the Big Thompson D&M Co., the Buckingham Ditch Co., the Loudon Ditch Co., and the South Side Ditch Co. should be based on ditch-wide analyses and pro rata entitlements that are consistent with the analyses and entitlements used in this case." Said paragraph 12.3 of

the 02CW392 Decree is referred to in this Agreement as the “02CW392 Res Judicata Term.”

- Y. The Parties wish to resolve their disputes regarding both Windsor’s claimed change of use of the water rights represented by the Windsor Shares in Case No. 18CW3042 and future claimed changes of use of those Greeley-Loveland System Water Rights represented by those shares and contract rights described in Recital K above, including without limitation their disputes concerning volumetric and/or season-of-use limits and disputes concerning application of the 95CW42 Res Judicata Term in changes of Greeley-Loveland System Water Rights (“Wheeler Historical Use Issues”). Accordingly, this Agreement is intended to provide a final, global resolution to the Parties’ past and ongoing disputes regarding the Wheeler Historical Use Issues and as part of that final, global resolution, to limit participation in future change cases filed in accordance with the “Future GLIC Change Methodology” as that term is defined in paragraph 7 below.
- Z. The Parties further wish to resolve their anticipated disputes regarding Loveland’s future claimed changes of use of water rights that are decreed to the Big Thompson Ditch & Manufacturing Company’s Ditch, the Buckingham Ditch, the Loudon Ditch, and the South Side Ditch and that are subject to the 02CW392 Ditch-Wide Methodologies (“Subject 02CW392 Ditch-Wide Methodologies”), including without limitation anticipated disputes concerning volumetric and/or season-of-use limits and anticipated disputes concerning application of the 02CW392 Res Judicata Term in such changes of water rights.
- AA. As used in this Agreement, the term “GLIC Sector” refers to one of the nine sectors of historically irrigated land under the Greeley-Loveland System that were identified on pages 30-31 and Drawing 1046.2-1 (pages 96-97) of the Wheeler Report.

**NOW, THEREFORE**, for good consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

#### **Agreement**

1. The Recitals above are incorporated herein in their entirety and made a part of this Agreement. The Recitals above are provided for illustrative purposes only. The Parties are not adopting interpretations of the terms and conditions in the prior agreements or prior decrees described in the Recitals as part of this Agreement. The terms of the relevant decrees and agreements speak for themselves.
2. Nothing in this Agreement terminates, supersedes, or amends any existing agreement between any of the Parties, including without limitation the 2018 Stipulation, the 2010 GLIC-Loveland Agreement, and the 2003 GLIC-Loveland-Greeley Agreement; however, this Agreement does resolve the disputes expressly left open by paragraph 9 of the 2018 Stipulation.
3. By separate stipulations to be filed of record with the Water Court, GLIC, Greeley, Loveland, and Evans consent to entry of a decree in Case No. 18CW3042 consistent with

and no less restrictive on Windsor than the proposed Findings of Fact, Conclusions of Law, and Decree of the Water Court dated [[DATE]] and attached as **Exhibit I** (“Stipulated Decree”). The Stipulated Decree was the result of negotiated compromise and is not intended by the Parties to serve as precedent for future changes of shares and rights in the GLIC system. As defined in Paragraph 7 below, the Future GLIC Change Methodology is intended to control future changes of shares in the Companies and the Parties’ involvement in such change cases, subject to the terms of this Agreement.

4. **Stipulated Volumetric Limit Methodology.** As part of the negotiation and compromise in Case No. 18CW3042, the Parties have agreed to a methodology for determining volumetric limits that will apply in future changes of Greeley-Loveland System Water Rights subject to the terms of this Agreement. That methodology is referred to in this Agreement as the “Stipulated Volumetric Limit Methodology” and includes the “GLIC-Wide Direct-Flow Diversion Limit” as defined in paragraph 4.1, “GLIC Direct-Flow Delivery Limit Methodology” as defined in paragraph 4.2, and “Greeley-Loveland System Storage Delivery Limit Methodology” as defined in paragraph 4.3.<sup>1</sup> For clarity, the GLIC-Wide Direct-Flow Diversion Limit is a limitation on GLIC’s diversion of the direct-flow water rights described in **Exhibit J**. The GLIC Direct-Flow Delivery Limit Methodology and the Greeley-Loveland System Storage Delivery Limit Methodology concern limitations that apply to deliveries to shareholders that have changed their shares within the GLIC System. The Stipulated Volumetric Limit Methodology is also part of the “Future GLIC Change Methodology” as defined in paragraph 7 below, and will be applied in future changes of Greeley-Loveland System Water Rights represented by shares or rights except for Unallocated Shares.

4.1 **GLIC-Wide Direct-Flow Diversion Limit.** GLIC will limit GLIC-wide direct-flow diversions of the water rights described in attached **Exhibit J** to 21,477.8 acre-feet per year on a rolling 10-year average basis (“GLIC-Wide Direct-Flow Diversion Limit”), as further detailed below.

4.1.1 Subject to the terms of paragraph 4.1.2 below, diversions attributable to all Barnes Inches and Chubbuck Inches, including those owned by Loveland and by Loveland Ready-Mix Concrete (“Ready-Mix Concrete”), will be counted against the GLIC-Wide Direct-Flow Diversion Limit.

4.1.2 The GLIC-Wide Direct-Flow Diversion Limit is not a restriction on Loveland’s or Ready-Mix Concrete’s diversion of water attributable to their Barnes Inches and Chubbuck Inches (“Loveland’s and Ready-Mix Concrete’s Barnes and Chubbuck Diversions”). Loveland’s and Ready-

---

<sup>1</sup> GLIC agrees to accept the GLIC-Wide Direct-Flow Diversion Limit and related terms described in paragraph 4.1. and shall account for the same as set forth in paragraphs 4.1.4 and 19 of this Agreement and in the GLIC-Loveland 2022 Agreement. Concerning the GLIC Direct-Flow Delivery Limit Methodology and the Greeley-Loveland System Storage Delivery Limit Methodology described in paragraphs 4.2 and 4.3, these are limitations imposed on shareholder deliveries, and GLIC takes no position on such limitations, but GLIC agrees that it will not contest the Stipulated Volumetric Limit Methodology and/or the Future GLIC Change Methodology in the Case No. 18CW3042 and in future Greeley-Loveland System Water Rights change cases brought pursuant to the Future GLIC Change Methodology.

Mix Concrete's Barnes and Chubbuck Diversions instead are and will be measured and accounted for under and limited by the terms and conditions of the decrees entered in Case Nos. 82CW202(A), 87CW178, 99CW290, 92CW112, 00CW108/03CW354, and 02CW392 (Loveland); and 00CW143 (Ready-Mix Concrete).

4.1.3 The sum of (i) direct-flow diversions attributable to the Greeley-Loveland System Water Rights and (ii) all diversions of Barnes Inches and Chubbuck Inches at any structures and locations decreed for diversion of Barnes Inches and Chubbuck Inches, including those owned by Loveland and Ready-Mixed Concrete, will count against the GLIC-Wide Direct-Flow Diversion Limit. Under no circumstance will the GLIC-Wide Direct-Flow Diversion Limit be used to curtail Loveland's and Ready-Mix Concrete's Barnes and Chubbuck Diversions.

4.1.4 For purposes of compliance with the GLIC-Wide Direct-Flow Diversion Limit and this paragraph 4.1, GLIC and Loveland have entered into a Supplemental Agreement Concerning the Operation and Administration of the GLIC Direct-Flow Diversion Limit ("GLIC-Loveland 2022 Agreement") to facilitate coordination between the parties related to data sharing and the operation and accounting of the GLIC-Wide Direct-Flow Limit, which agreement is attached as **Exhibit K**. Loveland will copy GLIC on data that Loveland sends to the Division of Water Resources ("DWR") regarding Loveland's diversions of its Barnes Inches and Chubbuck Inches; and GLIC will copy Loveland on the diversion data that GLIC sends to DWR.

4.2 **GLIC Direct-Flow Delivery Methodology.** The "GLIC Direct-Flow Delivery Methodology" is made up of the "Maximum Monthly Direct-Flow Delivery Limits" described in paragraph 4.2.1, below, the "Maximum Annual Direct-Flow Delivery Limit" described in Paragraph 4.2.2, below, and the "Season-of-Use Direct-Flow Delivery Limits" described in Paragraph 4.3.3, below.

4.2.1 The Maximum Monthly Direct-Flow Delivery Limits were determined as follows:

(1) The maximum monthly total direct-flow deliveries to GLIC Sectors III - IX from May to September, determined from monthly farm headgate deliveries from direct-flow deliveries tabulated in Appendix H to the Wheeler Report.

(2) Plus the calculated maximum monthly direct-flow delivery to Greeley.

The calculated maximum monthly direct-flow delivery to Greeley was calculated as the average monthly distributed direct-flow delivery to Greeley, multiplied by the monthly ratio of the maximum monthly total

direct-flow delivery to GLIC Sectors III - IX ((1) above) divided by the average monthly total direct-flow delivery to GLIC Sectors III - IX from May to September, determined from monthly direct-flow farm headgate deliveries tabulated in Appendix H to the Wheeler Report.

The average monthly distributed direct-flow delivery to Greeley is equal to the monthly average total direct-flow deliveries to GLIC Sectors III – IX from May to September, determined from monthly direct-flow farm headgate deliveries tabulated in Appendix H to the Wheeler Report, divided by the total average annual direct-flow delivery to GLIC Sectors III – IX, multiplied by the average annual direct-flow delivery to Greeley from Table 44 of the Wheeler Report.

- (3) Minus the maximum monthly sector-based direct-flow delivery limit to Windsor from the Stipulated Decree in Case No. 18CW3042.
- (4) All divided by 1,637.75 shares, which is equal to the total outstanding shares in GLIC (1,672, including contract rights, minus 34.25 shares, Windsor's shares in Case No. 18CW3042).

Resulting Maximum Monthly Direct-Flow Delivery Limits (AF/sh)

**May: 1.96**  
**June: 5.64**  
**July: 7.87**  
**Aug: 3.73**  
**Sept: 0.69**

4.2.2 The Maximum Annual Direct-Flow Delivery Limit was determined as follows:

- (1) The maximum total annual direct-flow delivery to GLIC Sectors III – IX, determined from monthly direct-flow farm headgate deliveries tabulated in Appendix H to the Wheeler Report.
- (2) Plus the calculated maximum annual direct-flow delivery to Greeley.

The calculated maximum annual direct-flow delivery to Greeley was calculated as the total average annual direct-flow delivery to the Loveland and Greeley Canal from Table 44 of the Wheeler Report, multiplied by the annual ratio of the maximum total direct-flow delivery to GLIC Sectors III - IX ((1) above), divided by the total average annual direct-flow delivery to GLIC Sectors III – IX, determined from monthly farm headgate deliveries from direct-flow diversions tabulated in Appendix H to the Wheeler Report.



- (3) Minus the maximum annual sector-based direct-flow delivery limit to Windsor from the Stipulated Decree in Case No. 18CW3042.
- (4) All divided by 1,637.75 shares, which is equal to the total outstanding shares (1,672, including contract rights, minus 34.25 shares, Windsor's shares in Case No. 18CW3042).

The resulting Maximum Annual Direct-Flow Delivery Limit is **13.48 acre-feet ("AF")** per share.

4.2.3 The Season-of-Use Direct-Flow Delivery Limits are as follows:

<u>Water Right</u>	<u>Date on</u>	<u>Date off</u>
Loveland and Greeley Canal (as described in <b>Exhibit J</b> , par. 3)	May 26	September 12
Barnes Ditch and Little Barnes Ditch (as described in <b>Exhibit J</b> , par. 1)	May 30	September 4
Chubbuck Ditch (as described in <b>Exhibit J</b> , par. 2)	May 30	September 4

4.3 **Greeley-Loveland System Storage Delivery Limit Methodology.** The "Greeley-Loveland System Storage Delivery Limit Methodology" is made up of the "Rolling 10-Year Storage Delivery Limits" described in Paragraph 4.3.1 below and the "Maximum Annual Storage Delivery Limits" described in Paragraph 4.3.2 below.

4.3.1 The Rolling 10-Year Storage Delivery Limits were determined as follows:

For each reservoir company:

- (1) The average total annual storage deliveries to GLIC Sectors I – IX from the respective reservoir company, determined from monthly farm headgate deliveries from Lake Loveland, Seven Lakes Reservoirs, and Boyd Lake tabulated in Appendix H to the Wheeler Report.
- (2) Plus the calculated average annual storage delivery to Greeley from the respective reservoir company.

The calculated average annual storage delivery to Greeley from each reservoir company was calculated as the total average annual storage delivery to the Boyd Lake Treatment Plant from Table 44 of the Wheeler Report, multiplied by the ratio of the average number of shares/rights that Greeley owned in the respective reservoir company, calculated from the shares/rights listed in Table 6 of the Wheeler Report, divided by the total number of shares/rights that Greeley owned in all three reservoir companies.

- (3) Minus the average annual storage delivery volumetric limits to Windsor from each respective reservoir company.

The average annual storage delivery limit to Windsor is calculated as the average GLIC Sector V storage deliveries from the respective reservoir company, determined from the monthly farm headgate deliveries from Lake Loveland, Seven Lakes Reservoirs, and Boyd Lake tabulated in Appendix H to the Wheeler Report, divided by the average number of shares/rights in GLIC Sector V for the respective reservoir company from Appendix C of the Wheeler Report, multiplied by the number of Windsor shares/rights in the respective reservoir company. In Case No. 18CW3042, Windsor claimed a change of the water rights associated with 34.25 shares in GLIC-Boyd, 9.75 rights in Lake Loveland, and 1.5 shares in Seven Lakes.

- (4) All divided by the net outstanding shares/rights in each reservoir company and then multiplied by 10.

The net outstanding shares for GLIC-Boyd is equal to 1,613.75, calculated as the total outstanding shares in the company (1,648 shares) minus Windsor's shares in Case No. 18CW3042 (34.25 shares).

The net outstanding rights for Lake Loveland is equal to 234.25, calculated as the total outstanding rights in the company (300 rights), minus Windsor's rights in Case No. 18CW3042 (9.75 rights), minus the Unallocated Shares in the company (56.0 rights).

The net outstanding shares for Seven Lakes is equal to 378.5, calculated as the total outstanding shares in the company (400 shares), minus Windsor's shares in Case No. 18CW3042 (1.5 shares), minus the Unallocated Shares in the company (20.0 shares).

The resulting Rolling 10-year Storage Delivery Limits per share for each company in the Greeley-Loveland System are as follows:

<b>GLIC Boyd:</b>	<b>56.21 AF</b>
<b>Lake Loveland:</b>	<b>301.00 AF</b>
<b>Seven Lakes:</b>	<b>143.65 AF</b>

In order for a future Water Court case to conform with the Stipulated Volumetric Limit Methodology and be entitled to the benefit of the Non-Opposition Agreement described in paragraph 8 below, the applicant shall include in each draft of the proposed decree circulated to the objectors, and in the final proposed decree tendered to the Water Court, a cumulative rolling 10-year storage delivery limit for all shares being changed in each company in that particular decree, calculated by multiplying the number of

shares in each company by the above per-share Rolling 10-Year Storage Delivery Limit in each company.

4.3.2 The Maximum Annual Storage Delivery Limits were determined as follows:

For each reservoir company:

- (1) The maximum total annual storage deliveries to GLIC Sectors I – IX from the respective reservoir company, determined from the monthly farm headgate deliveries from Lake Loveland, Seven Lakes Reservoirs, and Boyd Lake tabulated in Appendix H to the Wheeler Report.
- (2) Plus the calculated maximum annual storage delivery to Greeley from the respective reservoir company.

The calculated maximum annual storage delivery to Greeley from each reservoir company was calculated as the maximum annual distributed storage delivery to Greeley, multiplied by the annual ratio of the maximum total annual storage delivery to GLIC Sectors I – IX from the respective reservoir company ((1) above) divided by the average total annual storage delivery to GLIC Sectors I - IX from the respective reservoir company, determined from the monthly farm headgate deliveries from Lake Loveland, Seven Lakes Reservoirs, and Boyd Lake tabulated in Appendix H to the Wheeler Report.

The maximum annual distributed storage delivery to Greeley from each respective reservoir company was calculated as the total average annual storage delivery to the Boyd Lake Treatment Plant from Table 44 of the Wheeler Report, multiplied by the ratio of the average number of shares/rights that Greeley owned in the respective reservoir company, calculated from the shares/rights listed in Table 6 of the Wheeler Report, divided by the total number of shares/rights that Greeley owned in all three reservoir companies.

- (3) Minus the maximum annual storage delivery limit to Windsor from the respective reservoir company.

The maximum annual storage delivery to Windsor is calculated as the maximum GLIC Sector V storage deliveries from the respective reservoir company, determined from the monthly farm headgate deliveries from Lake Loveland, Seven Lakes Reservoirs, and Boyd Lake tabulated in Appendix H to the Wheeler Report, divided by the number of shares/rights in GLIC Sector V during the maximum year for the respective reservoir company from Appendix C of the Wheeler Report multiplied by the number of Windsor shares/rights in the

respective reservoir company. In Case No. 18CW3042, Windsor claimed a change of the water rights associated with 34.25 shares in GLIC-Boyd, 9.75 rights in Lake Loveland, and 1.5 shares in Seven Lakes.

(4) All divided by the net outstanding shares/rights in each reservoir company.

The net outstanding shares for GLIC-Boyd is equal to 1,613.75, calculated as the total outstanding shares in the company (1,648 shares) minus Windsor's shares in Case No. 18CW3042 (34.25 shares).

The net outstanding rights for Lake Loveland is equal to 234.25, calculated as the total outstanding rights in the company (300 rights), minus Windsor's rights in Case No. 18CW3042 (9.75 rights), minus the Unallocated Shares in the company (56.0 rights).

The net outstanding shares for Seven Lakes is equal to 378.5, calculated as the total outstanding shares in the company (400 shares), minus Windsor's shares in Case No. 18CW3042 (1.5 shares), minus the Unallocated Shares in the company (20.0 shares).

The resulting Maximum Annual Storage Delivery Limits per share for each Company in the Greeley-Loveland System are as follows:

<b>GLIC Boyd:</b>	<b>12.05 AF</b>
<b>Lake Loveland</b>	<b>33.75 AF</b>
<b>Seven Lakes</b>	<b>20.13 AF</b>

In order for a future Water Court case to conform with the Stipulated Volumetric Limit Methodology and be entitled to the benefit of the Non-Opposition Agreement described in paragraph 8 below, the applicant shall include in each draft of the proposed decree circulated to the objectors, and in the final proposed decree tendered to the Water Court a maximum annual storage delivery limit for all shares being changed in each company in that particular decree, calculated by multiplying the number of shares in each company by the above per-share Maximum Annual Storage Delivery Limit in each Company.

- 4.4 The Parties agree that the Stipulated Volumetric Limit Methodology will apply to and be incorporated within any future Greeley-Loveland System change applications that are subject to the "Non-Opposition Agreement" described in paragraph 8 below.

5. **Dividend-Based Retained Jurisdiction Term.** The following term and condition is the “Dividend-Based Retained Jurisdiction Term:”

Anytime the Companies alter their method for allocating water to shareholders from that described in ¶ 11 of the Stipulated Decree, the applicant shall provide notice to the opposers of the change in the Companies’ operations. The Water Court shall retain jurisdiction in perpetuity for purposes of reconsidering the Stipulated Volumetric Limit Methodology if and when the Companies alter their method for allocating water to shareholders from the method described in ¶ 11 of the Stipulated Decree, and such alteration (i) allows shareholders in the Companies to share in one another’s “Storage Dividend” or “River Dividend,” (ii) allows the Companies to reallocate dividends between shareholders after they were originally issued, (iii) creates new classes of dividends, (iv) create new classes of shareholders, (v) results in an allocation that is not based on a shareholder’s pro-rata ownership of shares in the Companies, or (vi) otherwise substantively alters the Greeley-Loveland System operations on which the Stipulated Volumetric Limit Methodology was based. An opposer has 3 years from the time the notice is received to invoke the Water Court’s retained jurisdiction to address any claim of injury stemming from the change in the Companies’ method of allocation water to shareholders.

The Dividend-Based Retained Jurisdiction Term is part of the Future GLIC Change Methodology. In order for a future Water Court case to conform with the Stipulated Volumetric Limit Methodology and be entitled to the benefit of the Non-Opposition Agreement described in paragraph 8 below, the applicant shall include the Dividend-Based Retained Jurisdiction Term in each draft of the proposed decree circulated to the objectors, and in the final proposed decree tendered to the Water Court.

6. **2022 Settlement Storage RFO Methodology.** The Stipulated Decree’s terms and conditions pertaining to Windsor’s storage return flow obligation (“RFO”) are described in paragraphs 6.1 and 6.2 below (the “2022 Settlement Storage RFO Methodology”). The Parties agree that for a future change of Greeley-Loveland System Water Rights to be consistent with the Future GLIC Change Methodology, the applicant will propose either the 2022 Settlement Storage RFO Methodology or a storage RFO methodology no less restrictive on the applicant than the 2022 Settlement Storage RFO Methodology. To the extent that a new storage RFO methodology other than the 2022 Settlement Storage RFO Methodology is proposed in a future case, nothing in this Agreement prohibits any Party from participating in that future case to ensure that the new RFO methodology is no less restrictive on the applicant in that future case than the 2022 Settlement Storage RFO methodology.

- 6.1 For each share of GLIC-Boyd Lake and Seven Lakes, and each contract right in Lake Loveland, the applicant’s “Current Month Storage RFO” will be calculated as (the previous 12 months of deliveries) x (the applicable annual RFO percentage shown in Table 6.1 below) x (the applicable decreed monthly RFO distribution

percentage given in Exhibit C to the 95CW42 Decree). A copy of Exhibit C to the 95CW42 Decree is attached as **Exhibit L**.

**Table 6.1**

Annual Return Flow Obligation Percentage by Sector (AF/AF)								
Sector:	1	2	3	4	5	6	7	8 & 9
GLIC-Boyd	-	44.4%	38.0%	35.0%	35.2%	35.0%	35.0%	35.0%
Lake Loveland	40.0%	40.5%	35.9%	35.0%	35.1%	35.2%	35.2%	35.1%
Seven Lakes	41.7%	-	37.0%	35.0%	35.0%	35.0%	35.0%	35.0%

- 6.2 By way of example and not by way of limitation, the Current Month Storage RFO for Lake Loveland for July deliveries to GLIC Sector 6, with deliveries of 20 AF over the previous 12 months (July through June), would be calculated as 20 AF x 35.2% (annual RFO percentage) x 17.2% (July monthly distribution percentage) = 1.21 AF.
- 6.3 The 2022 Settlement Storage RFO Methodology does not affect the RFO applicable to direct-flow diversions under the terms and conditions established by the 87CW329 Decree (“Direct-Flow RFO Methodology”) or the retained jurisdiction provisions related thereto.
7. **Future GLIC Change Methodology.** The Future GLIC Change Methodology comprises the Stipulated Volumetric Limit Methodology described in paragraph 4 above, the Dividend-Based Retained Jurisdiction Term described in paragraph 5 above, the 2022 Settlement Storage RFO Methodology described in paragraph 6 above and the Direct-Flow RFO Methodology described in paragraph 6.3 above, and the 87CW329 System-Wide Methodology described in Recital C above.
8. The Parties shall limit their future participation in certain of each other’s future Water Court cases in accordance with the following “Non-Opposition Agreement:”
- 8.1 The Parties other than Loveland are referred to as the “GLIC Parties.”
- 8.2 With respect to future claims for changes of Greeley-Loveland System Water Rights prosecuted in accordance with the Future GLIC Change Methodology, Loveland shall limit its participation under any statement of opposition to such claims for changes of Greeley-Loveland System Water Rights, regardless of the applicant, to the following:
- 8.2.1 Ensuring consistency with the Future GLIC Change Methodology; or, if changes to the Future GLIC Change Methodology are requested by other opposers, ensuring that those changed terms and conditions are no less restrictive on the applicant than those in the Future GLIC Change Methodology; and
- 8.2.2 Ensuring consistency with the terms and conditions of this Agreement.

- 8.2.3 In opposing any future claim for changes of Greeley-Loveland System Water Rights prosecuted in accordance with the Future GLIC Change Methodology, Loveland will not challenge the Future GLIC Change Methodology on the basis of a change in seepage in the Greeley-Loveland system; changed circumstances since the Wheeler System-Wide Analysis; or any other argument related to the quantification of historical use of shares in the Greeley-Loveland System; and Loveland will not seek to impose terms and conditions that are more restrictive on the applicant than the Future GLIC Change Methodology.
- 8.2.4 The Non-Opposition Agreement does not apply to claims for changes of Greeley-Loveland System Water Rights represented by Unallocated Shares or other claims for relief, such as new storage rights, new points of diversion, plans for augmentation, quantification of municipal return flows, or exchanges that are included in a change of water rights application or any other Water Court application. Accordingly, the Non-Opposition Agreement does not apply to Loveland's prosecution of a statement of opposition to such claims and does not limit Loveland's participation or arguments in such a Water Court case in any fashion.
- 8.3 With respect to future claims by Loveland for changes of water rights prosecuted in accordance with the Subject 02CW392 Ditch-Wide Methodologies, the GLIC Parties shall limit their participation under any statement of opposition to such claims to ensure consistency with the terms and conditions of the 02CW392 Decree as applied to the new shares being changed by Loveland; or, if changes to such terms and conditions are requested by other opposers or are deemed necessary by Loveland to avoid litigation, ensuring that those changed terms and conditions are no less restrictive on Loveland than those in the 02CW392 Decree.
- 8.3.1 In opposing any future Loveland claim for changes of water rights prosecuted in accordance with the Subject 02CW392 Ditch-Wide Methodologies, the GLIC Parties will not challenge the Subject 02CW392 Ditch-Wide Methodologies based on changed circumstances or any other argument or seek to impose terms and conditions that are more restrictive on Loveland than those in Case No. 02CW392.
- 8.3.2 The Non-Opposition Agreement does not apply to claims other than for changes of water rights in accordance with the Subject 02CW392 Ditch-Wide Methodologies, including without limitation claims for new storage rights, new points of diversion, plans for augmentation, quantification of municipal return flows, or exchanges that are included in a change of water rights application or any other Water Court application involving the water rights that are the subject of the Subject 02CW392 Ditch-Wide Methodologies.

9. As part of the global resolution to the Parties' past and ongoing disputes regarding the Wheeler Historical Use Issues, Loveland agrees that so long as Greeley is operating in compliance with this Agreement, Loveland will not ask the Water Court to impose new restrictions on Greeley's operations under the 87CW329 Decree, 95CW42 Decree, or 99CW235 Decree. As part of the global resolution to the Parties' past and ongoing disputes regarding the Wheeler Historical Use Issues, Loveland agrees that so long as Evans is operating in compliance with this Agreement, Loveland will not ask the Water Court to impose new restrictions on Evans' operations under the 96CW958 Decree, the 03CW314 Decree, or the 08CW175-B Decree. As part of the global resolution to the Parties' past and anticipated disputes regarding the Subject 02CW392 Ditch-Wide Methodologies, the GLIC Parties agree that so long as Loveland is operating in compliance with this Agreement, the GLIC Parties will not ask the Water Court to impose new restrictions on Loveland's operations under the terms and conditions of the decrees entered in Consolidated Case Nos. 00CW108 and 03CW354 or 02CW392. The foregoing limitation is not intended to limit or restrict, in any way, a party from initiating or participating in an action under the retained jurisdiction terms of any existing Water Court decree.
10. For future changes of Greeley-Loveland System Water Rights represented by Unallocated Shares, the GLIC Parties shall rely on parcel-specific historical use analyses, and not on the Future GLIC Change Methodology or the Wheeler System-Wide Analysis. Consistent with the terms of paragraph 8.2.4, above, nothing in this Agreement limits the scope of Loveland's opposition in a future case involving Unallocated Shares.
11. The Parties agree not to take or support, including without limitation in any Water Court proceeding, any position that is contrary to the terms and conditions of this Agreement; and further agree that they will jointly defend the principles contained in this Agreement.
12. Greeley, Windsor, Evans, and Milliken agree not to purchase or accept additional changed Greeley-Loveland System Water Rights in exchange for municipal water taps, water service, or development approvals, or otherwise accept such water rights for use in any way unless said changed water rights are being or have been changed using the Future GLIC Change Methodology ("Change Mandate"). The Change Mandate does not apply to the water rights associated with the Unallocated Shares. The purpose of this term is to prevent developers or other third parties from deviating from the Future GLIC Change Methodology, changing Greeley-Loveland System Water Rights, and subsequently conveying the associated shares to Greeley, Windsor, Evans, or Milliken, thereby circumventing the terms of this Agreement. Any violation of the Change Mandate constitutes a breach and is subject to the terms of paragraph 17 below. The Change Mandate does not apply to Greeley-Loveland System Water Rights which were previously changed in the decrees described in Recital P, above.
13. Paragraph 11 of the Stipulated Decree, and its subparts, describes GLIC operations and is a component of the Dividend-Based Retained Jurisdiction Term. Other than the GLIC-Wide Direct-Flow Diversion Limit described in paragraph 4.1 above, nothing in the Stipulated Volumetric Methodology is intended to impose limitations on GLIC operations, and GLIC is under no obligation to monitor, enforce, or account for the volumetric



limitations other than the GLIC-Wide Direct Flow Limit contained in the Stipulated Volumetric Methodology.

14. Nothing in this Agreement alters, or is to be construed as altering, the Parties' rights and obligations under their existing decrees, including without limitation the decrees entered in Case Nos. 87CW329, 95CW42, and 99CW235 (Greeley); 96CW958, 03CW314, and 08CW175-B (Evans); and 82CW202(A), 87CW178, 99CW290, 92CW112, 00CW108/03CW354, and 02CW392 (Loveland).
15. Nothing in this Agreement alters, or is to be construed as altering or establishing, any entitlement of GLIC, if one exists, to divert, and to deliver to its shareholders, water available to the Barnes Inches and Chubbuck Inches when that water is not being diverted and placed to beneficial use by the non-GLIC owner(s) of such inches.
16. **Barnes and Chubbuck Rights.** Since at least 1977, Loveland and GLIC have had various disputes regarding the Barnes and Chubbuck Water Rights, the Barnes Inches and the Chubbuck Inches and the Parties' relative and correlative rights concerning the same, leading to several agreements between the Parties attempting to resolve these disputes. These agreements include but are not limited to the 2003 GLIC-Loveland-Greeley Agreement and the 2010 GLIC-Loveland Agreement. A major motivation for GLIC entering into this Agreement is to eliminate future disputes with Loveland concerning the Barnes and Chubbuck Water Rights and with this in mind, and while recognizing that this Agreement does not alter any prior Agreements in any way, GLIC wishes to restate several provisions from the 2003 GLIC-Loveland-Greeley Agreement (attached as **Exhibit G**) and 2010 GLIC-Loveland Agreement (attached as **Exhibit F**) as follows:

- a. Paragraph 1.c of the 2003 GLIC-Loveland-Greeley Agreement states:

With regards to Barnes contract inches that have been changed or will be changed in the future by Loveland to municipal or other uses, Loveland shall reduce its diversions under said contract inches by fifteen percent in accordance with paragraph 6.C.(7)(d) of the 82CW202A Decree; GLIC and Greeley agree that Loveland shall not be required to further reduce its diversions in order to compensate for the ditch loss or "shrink" that was historically assessed against Loveland's Barnes contract inches. GLIC shall be entitled to divert and beneficially use for its shareholders said water that Loveland leaves in the stream pursuant to paragraph 6.C.(7)(d). Loveland's daily rate-of-flow diversion entitlement under its Barnes contract inches shall be determined under the following formula, as measured at the river headgate:

$$0.85 \times (\text{amount of Barnes water rights in priority (cfs)}) \times (\text{number of inches changed by Loveland}/1,944.23)$$

So, for example, on a given day, if Loveland owns 1,306.75 Barnes contract inches and the amount of Barnes water rights that are in priority that day is equal to 30.62 cfs, Loveland would be entitled to divert 17.49 cfs.

It is understood that Loveland may divert water under its Barnes contract inches which are subject to the 82CW202A Decree and the application in Case No. 00CW108 in accordance with the provisions of paragraph 6.C.(4) of the 82CW202A Decree, as modified by the 2000 Modification, except that Loveland's monthly diversions under its Barnes contract inches shall be limited according to the volumetric diversion limits set forth in the table attached hereto as Exhibit 1.

- b. Paragraph 2.c of the 2003 GLIC-Loveland-Greeley Agreement states:

With regards to Chubbuck contract inches that have been changed or will be changed in the future by Loveland to municipal or other uses, Loveland shall reduce its diversions under said contract inches by fifteen percent in accordance with paragraph 6.C.(7)(d) of the 82CW202A Decree; GLIC and Greeley agree that Loveland shall not be required to further reduce its diversions in order to compensate for the ditch loss or "shrink" that was historically assessed against Loveland's Chubbuck contract inches. It is understood that GLIC shall be entitled to divert and beneficially use for the benefit of its shareholders said water that Loveland leaves in the stream pursuant to paragraph 6.C.(7)(d). Loveland's rate-of-flow diversion entitlement under its Chubbuck contract inches shall be determined under the following formula, as measured at the river headgate:

$$0.85 \times (\text{amount of the most senior 41.35 cfs Chubbuck water rights in priority}) \times (\text{number of inches changed by Loveland} / 1,590.40)$$

So, for example, on a given day, if Loveland owns 596.58 Chubbuck contract inches and the amount of the most senior 41.35 cfs of Chubbuck water rights that are in priority that day is equal to 8.36 cfs, Loveland would be entitled to divert 2.67 cfs.

It is understood that Loveland may divert water under its Chubbuck contract inches which are subject to the 82CW202A Decree and the application in Case No. 00CW108 in accordance with the provisions of paragraph 6.C.(4) of the 82CW202A Decree, as modified by the 2000 Modification, except that Loveland's monthly diversions under its Chubbuck contract inches shall be limited according to the volumetric diversion limits set forth in the table attached hereto as Exhibit 1.

- c. Paragraph 6 of the 2010 GLIC-Loveland Greeley Agreement states:

**NO ADDITIONAL CHANGES OF BARNES AND CHUBBUCK CONTRACT INCHES.** The City shall not apply for changes of any additional Barnes or Chubbuck Contract inches beyond those that were the subject of the 202A Decree, the Inclusory Decrees, or were already included in Case No. 02CW392 and Case Nos. 00CW108/03CW354. Any additional Barnes or Chubbuck Contract Inches acquired by the City will not be made part of a water court application or used by the City for any purpose, or leased, sold or otherwise assigned by the City;

provided, however, that the City of Loveland Parks Department may, if the City acquires certain Chubbuck Inches described in EXHIBIT 3, utilize those Chubbuck Inches for irrigation of open space or parks in the amounts, on those lands, and with the acreage limitations described in EXHIBIT 3.

- d. Paragraph 9 of the 2010 GLIC- Loveland Creek Agreement states:

COMPANY USE OF BARNES AND CHUBBUCK CONTRACT INCHES. The City shall not, in any fashion, challenge the Company's use of water rights adjudicated to the Barnes and Chubbuck Ditches as that use was analyzed by W.W. Wheeler & Associates, Inc. in the engineering report prepared for the City in support of the application by the City in Case No. 82CW202A.

17. Should a dispute arise under this Agreement, or in the event of an alleged breach of a Party's obligations hereunder, the following dispute resolution protocol will apply:

- 17.1 If a Party believes that another Party has breached any obligation under this Agreement, the Party alleging the breach shall give written notice to the other Party setting forth the nature of the alleged breach and the curative action(s) required ("Breach Notice"), with copies of the Breach Notice also delivered to all other Parties. If the Party alleged to be in breach does not cure such alleged breach within twenty business days of receiving such notice ("Cure Period") the Party sending the notice may pursue one or more of the following remedies:

- 17.1.1 For an alleged breach of an obligation under the Non-Opposition Agreement, the Party sending the Breach Notice may file, in the applicable Water Court case, a motion for determination of question of law asking the Water Court to interpret the Non-Opposition Agreement and to determine whether it has been breached in that case. Should the Water Court rule that there has been a breach of the Non-Opposition Agreement in that case by virtue of a Party's filing of an improper statement of opposition or prosecution of improper defenses to such application, the breaching Party shall immediately withdraw its improper statement of opposition or its improper defenses, as relevant, and shall pay to the Party that initiated the motion for determination of question of law ("Moving Party") all reasonable and documented attorneys' fees associated with the Moving Party's drafting and briefing of and conferrals regarding that motion. In the event the Water Court rules that no breach occurred, the Moving Party shall pay all reasonable and documented attorneys' fees associated with the non-moving party's defense to the motion.

- 17.1.2 For an alleged breach of any obligation hereunder, the Party sending the Breach Notice may file, in the Water Court, an action for declaratory judgment and for damages and/or equitable relief, including without limitation, specific performance. In any such action, the prevailing Party

will be entitled to payment by the non-prevailing Party of the prevailing Party's reasonable and documented attorneys' fees and any experts' fees.

17.1.3 For an alleged breach of any obligation, the Parties with an interest in such alleged breach may but are not required to pursue mediation or binding arbitration.

17.1.4 Time is of the essence with respect to the Cure Period.

18. Non-Party applicants for future changes of Greeley-Loveland System Water Rights in accordance with the Future GLIC Change Methodology will be third-party beneficiaries of this Agreement.
19. GLIC shall be responsible for accounting for the GLIC-Wide Direct Flow Diversion Limit, and shall complete said accounting consistent with paragraph 2.h of the GLIC-Loveland 2022 Agreement, which is attached as **Exhibit K**.
20. This Agreement may not be amended except by an instrument in writing signed by all Parties. No right hereunder may be waived except by an instrument in writing signed by the Party to be charged with such waiver. The failure of any Party to require any other Party's strict performance of any obligation, term, or condition of this Agreement does not constitute a waiver of such obligation, term, or condition hereunder.
21. This Agreement may be executed in counterparts, each of which is an original, and all of which taken together constitute one and the same Agreement.
22. All attached exhibits to this Agreement are incorporated herein by this reference.
23. This Agreement and any prior agreement will, to the extent possible, be construed to be consistent. However, in the event of a conflict between the terms and conditions of this Agreement and any existing agreement between any of the Parties, this Agreement will control interpretation of any inconsistency, so long as such interpretation is not contrary to paragraph 2 of this Agreement.
24. Paragraph headers in this Agreement are for convenience of reference only and do not substantively define or limit any term of this Agreement.
25. To be effective, this Agreement must have received the prior approval of the controlling Council, Board of Trustees, or Board of Directors of each Party. By signing this Agreement, each signatory affirms and warrants that such approval has been duly and properly given, and that such signatory has been duly authorized to bind the Party represented by such signatory.

**Signature pages follow.**

Executed on the dates written below, and effective as of the latest such date.

<p><b>THE CITY OF GREELEY</b> <b>Acting by and through its Water &amp; Sewer Board</b></p> <p>By: _____ Harold Evans Chairman, Greeley Water &amp; Sewer Board</p> <p>APPROVED AS TO SUBSTANCE:</p> <p>By: _____ Raymond C. Lee, III, City Manager</p> <p>APPROVED AS TO AVAILABILITY OF FUNDS:</p> <p>By: _____ John Karner, Finance Director</p> <p>APPROVED AS TO LEGAL FORM:</p> <p>By: _____ Douglas Marek, City Attorney</p>	<p><b>CITY OF LOVELAND</b></p> <p>By: _____ Stephen C. Adams, City Manager</p> <p>APPROVED AS TO FORM:</p> <p>By: _____ Assistant City Attorney</p> <p>ATTEST:</p> <p>By: _____ City Clerk</p>
<p><b>TOWN OF MILLIKEN, COLORADO:</b></p> <p>By: _____ Elizabeth Austin, Mayor</p> <p>ATTEST:</p> <p>_____ Caree Rinebarger, Town Clerk</p> <p>APPROVED AS TO FORM</p> <p>_____</p>	<p><b>GREELEY AND LOVELAND IRRIGATION COMPANY</b></p> <p>By: _____ David Bernhardt, President</p> <p>ATTEST:</p> <p>By: _____ _____, Secretary</p>

Matthew T. Gould, Town Attorney	
<b>CITY OF EVANS</b>  By: _____ Mark C. Clark, Mayor  APPROVED AS TO SUBSTANCE  By: _____ Randy Ready, Interim City Manager  APPROVED AS TO FORM  By: _____ Scotty P. Krob, City Attorney  ATTEST  By: _____ Julie Kamka, City Clerk	<b>THE TOWN OF WINDSOR</b>  By: _____ Shane Hale, Town Manager

# Water & Sewer Agenda Summary

Date: July 20, 2022

Key Staff Contact: Erik Dial, Utility Finance and Business Manager

## Title:

Approve and Recommend to the City Manager the Water and Sewer 2023 Operating Budget and 5 Year CIP

## Summary:

Staff prepared the 2023 operating budget and the five-year capital program for review by the Water and Sewer Board. The operating and capital budgets were prepared with an eye to the future, incorporating capital improvements from recent 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 planning 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 \$1.83/month and residential sewer bills will increase approximately \$4.71/month for a total water and sewer bill increase of \$6.54/month. The water PIF for a 3/4" tap will increase \$900 to \$12,100 and the sewer PIF will increase by \$100 to \$6,900.

## Recommended Action:

Approve and recommend to the City Manager the Water and Sewer 2023 Operating Budget and 5-Year Capital Plan

## Attachments:

1. Presentation slides
2. Water and sewer pro formas
3. 10-Year CIP
4. Existing and future debt summary
5. Capital Budget Detail
6. Operating Budget Detail



# 2023 Water & Sewer Budget and Rate Review

Water and Sewer Board  
Presented July 20, 2022



# Presentation Agenda

- **Water & Sewer Finance Overview**
- **Capital Funds**
  - Review budgets and major projects
- **Operating Funds**
  - Review budget increase requests
- **Rates**
  - Review proposed 2023 rate increases

# Water & Sewer Enterprise Funds

- Supported through rates and fees
- Each fund is a separate “line of business”
- Separate from the General fund (tax supported)
  - Annual transfers occur to the General fund for services provided to Water and Sewer by General fund departments (Finance, HR, etc.)

# Water Sub-Funds and Revenues

The water fund is divided into 5 “sub-funds” for tracking purposes

- **Operating fund**
  - \$ Rates
- **Capital New Construction fund**
  - \$ Plant Investment Fees and Bonds
- **Capital Replacement fund**
  - \$ Rates (depreciation) and Bonds
- **Acquisition fund**
  - \$ Bonds & Cash-in-lieu payments
- **Debt Service fund**
  - \$ Rates (revenue in/debt service payment out)

# Sewer Sub-Funds and Revenues

The sewer fund is divided into 4 “sub-funds” for tracking purposes

- **Operating fund**
  - \$ Rates
- **Capital New Construction fund**
  - \$ Bonds and Plant Investment Fees
- **Capital Replacement fund**
  - \$ Rates (depreciation) and Bonds
- **Debt Service fund**
  - \$ Rates (revenue in/debt service payment out)

# Financial Practices

- **Annual rate modeling and budgeting each Spring**
- **Operations and capital project managers submit draft budgets**
- **Utility finance staff model a 10-Year cash flow for each sub-fund**
  - **Determine when bonds are needed**
  - **Determine necessary rate increases**
  - **There's some flexibility within the sub-funds**
    - **Example: Additional cash funding of capital projects through transfers**

# 2023 Big Picture

- **Inflationary impacts**
  - Regulatory driven investments at the Wastewater Treatment and Reclamation Facility – Additional ~\$32M in WTRF project costs over next 5 years
  - Cut \$45M from the 5-year Water CIP to offset Sewer CIP increases and manage customer bill impacts
- **Utility Billing transitioning to W&S**
  - Utility Billing software conversion project slowly restarting
- **Operations Investments**
  - Staffing – New positions, classification & compensation
  - Inflationary impacts (chemicals, power, outside legal support)

# Water Capital and Operating



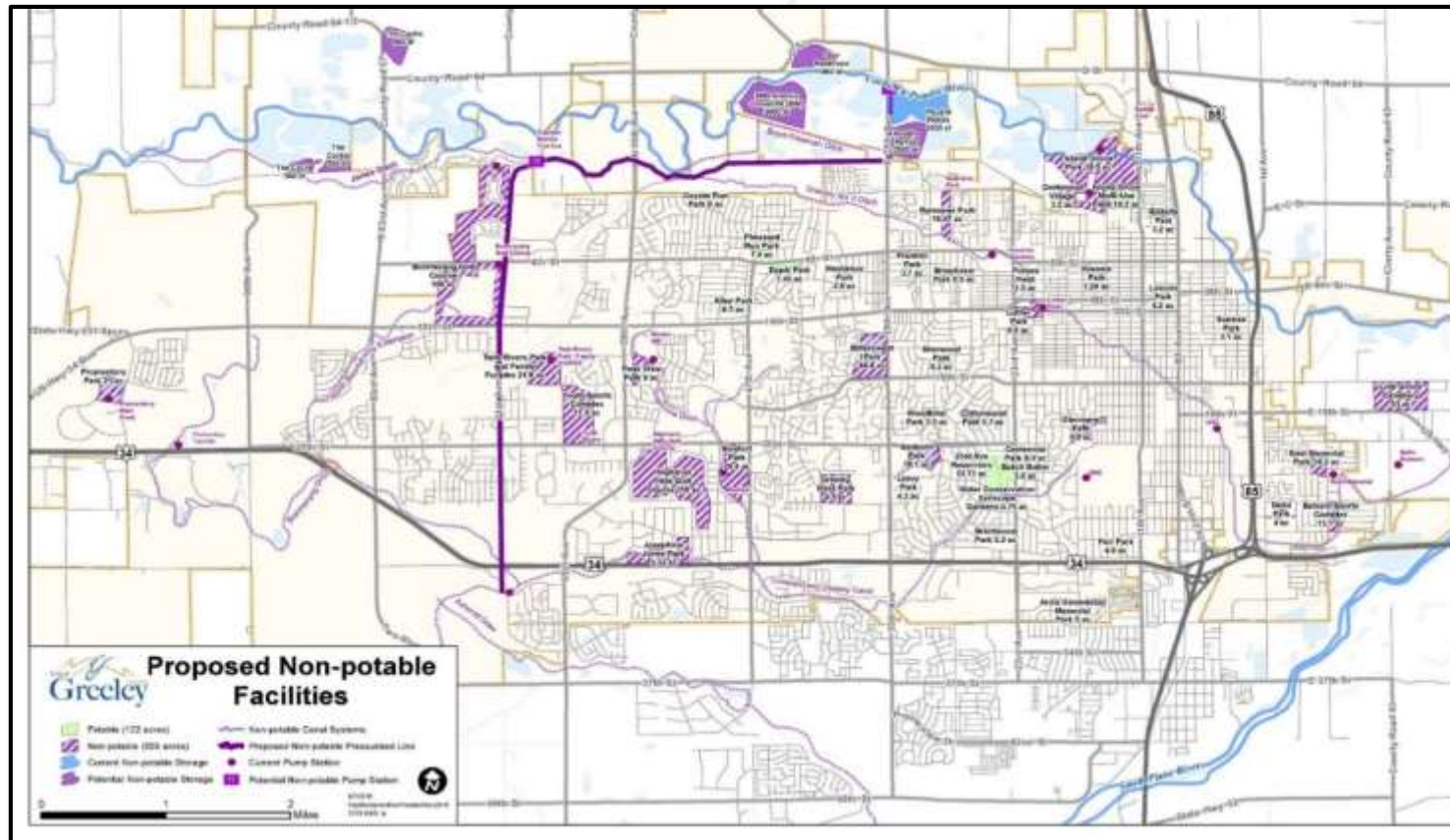


# 2023 Water New Construction (Fund 422)

<b>2023 Project List</b>	
<b>Non-Potable Expansion Projects</b>	<b>3,830,000</b>
<b>O St &amp; 59th Roundabout Waterline</b>	<b>1,108,374</b>
<b>Bellvue 2 Million Gallon Clearwell</b>	<b>750,000</b>
<b>F St &amp; 47th Ave Waterlines</b>	<b>590,000</b>
<b>Windy Gap Firming</b>	<b>515,000</b>
<b>*Ogilvy Bypass Structure</b>	<b>200,000</b>
<b>Distribution Line Extension &amp; Oversizing</b>	<b>154,210</b>
<b>*O Street Waterline Extension 23<sup>rd</sup>-25<sup>th</sup></b>	<b>125,000</b>
<b>35<sup>th</sup> Ave Waterline Extension</b>	<b>115,000</b>
<b>Bellvue Pipeline – Gold Hill Segment</b>	<b>85,000</b>
<b>Water Taps</b>	<b>75,000</b>
<b>New Construction Meters</b>	<b>45,000</b>
<b>12 Projects Total:</b>	<b>\$7,592,584</b>

\* Projects new to CIP

# Large Strategic Investments: Non-Potable System Expansion

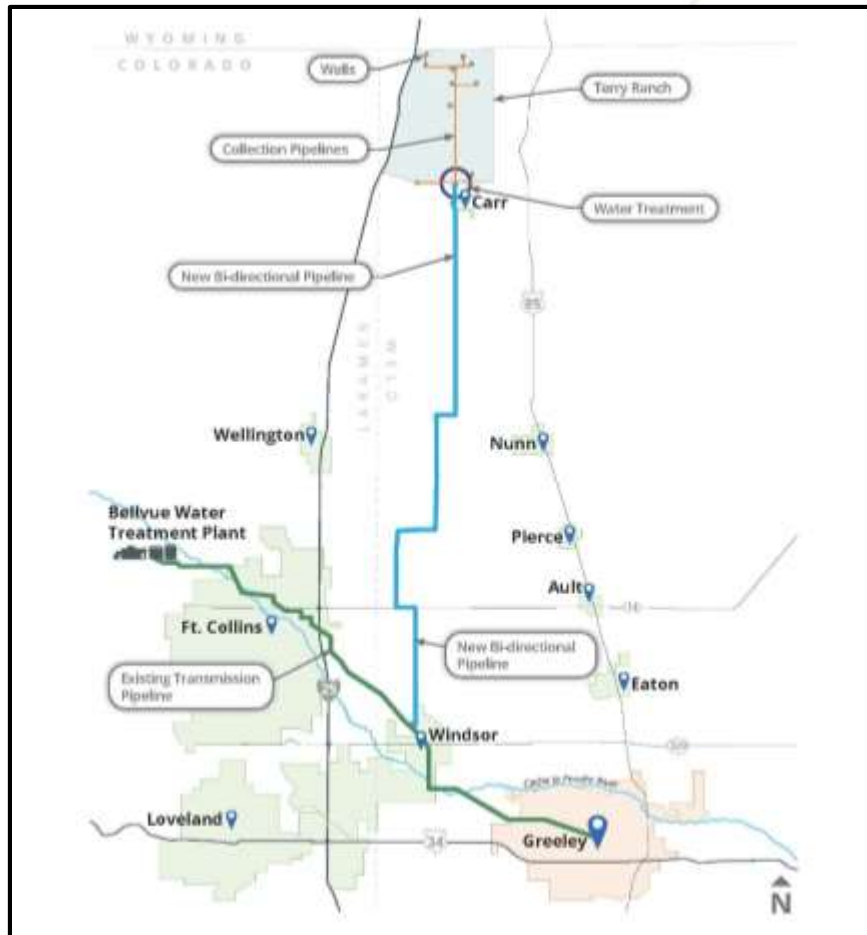


**2023 Project Cost: \$3,830,000  
(annual system investment) –  
Reduced from \$5M/annually**

**Funds non-potable infrastructure  
for new development and retro-  
fitting existing developments.**



# Large Water Supply Investment: Terry Ranch Water System Development



**Funded in 2022, project ongoing :  
\$36,515,000**

**\$25M funded through Wing Foot  
contribution ('21 Master PSA).**



# 2023 Water Replacement/Rehab (Fund 423)

2023 Project List	
Utility Billing Replacement-Water	3,000,000
Treated Water Reservoir Rehabilitation	2,390,410
* Lead Service Line Replacements	2,137,727
Distribution Pipeline Replacement	1,895,000
Suburban Ditch Non-Potable Replacement	1,295,420
Non-Potable Replacement Rehabilitation	1,160,000
Transmission System Rehabilitation	1,000,000
Capital Outlay Replacement - Water	965,077
Advanced Metering Infrastructure	700,000
Bellvue Water Treatment Plant General Rehabilitation	500,000
Boyd Water Treatment Plant - General Rehabilitation	490,000
Risk and Resiliency Projects	315,200
Instrumentation & Controls - Water	195,800

# 2023 Water Replacement/Rehab (Fund 423)

2023 Project List Continued	
SCADA Upgrades High Mountain Reservoirs	124,000
Meter Replacement	100,000
Valve Replacement	100,000
Fire Hydrant Replacement	77,000
Ancillary System Improvements	50,000
18 Projects Total:	\$16,495,634

\* Project new to CIP



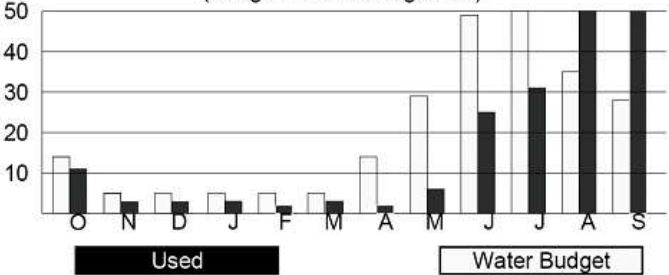
# Utility Billing Replacement



City of Greeley  
Director of Finance  
P.O. Box 1928  
Greeley, CO 80632-1928

## Statement of Account for Utility Service(s)

THIS BILL SHOWS A PREVIOUS AMOUNT DUE.  
PLEASE REMIT AT EARLIEST CONVENIENCE.  
IF PYMT HAS BEEN MADE, THANK YOU.

ACCOUNT INFORMATION						WATER CHARGES					
Account Number	222-222222-22					BUDGET: Indoor	7	Outdoor	21	Total	28
Service Location	2000 GREELEY AVENUE CT					RESIDENTIAL WATER					
	Persons in Household: 4    Irrigable Area: 7799					Used	Rate	Amount			
METER INFORMATION						Water Budget (0% to 100%)	28	3.97	\$108.64		
						Inefficient Use (>100% to 130%)	9	4.85	\$42.66		
						Excessive Use (>130% to 150%)	5	6.62	\$30.20		
						Unsustainable Use (>150%)	8	8.82	\$68.96		
						Base Charge			\$11.83		
Meter ID	Date	Curr Read	Date	Prev Read	Usage	BILLING SUMMARY					
97403425U	09/28	750	08/28	700	50	Payments					\$165.74
						Bal Fwd					\$10.74
						RESIDENTIAL WATER					\$262.29
						RESIDENTIAL SEWER					\$15.72
						STORMWATER					\$11.09
CONSUMPTION HISTORY											
(Usage in thousand gallons)											
											
						CURRENT CHARGES					\$289.10
						TOTAL DUE ON 10/18/17					\$299.84

**Est. Project Cost: \$5.4M**  
**\$3,000,000 Water**  
**\$1,200,000 Sewer**  
**\$1,202,000 Stormwater**



# Largest Investments: Advanced Metering Infrastructure



**Total Project Cost: \$13,232,000**  
**\$3.5M in WaterSmart grants**

**Project will continue until 2025**



# 2023 Water Acquisition (Fund 424)

2023 Project List	
Future Water Acquisition - Phase II	5,521,109
Development of Parcel B – Poudre Ponds	1,010,000
Non-Tributary Groundwater SLB Change Case	1,000,000
Life After Lawn	153,000
Water Supply & Storage Change Case Ph 2	100,000
Overland Trail	35,000
6 Projects Total:	\$7,819,109

# Largest Investments: Non-Tributary Groundwater State Land Board Change Case



**2023 Project Cost: \$1,000,000**  
**Water Court case to obtain**  
**decree for State Land Board**  
**lease water rights.**

**SLB is checkerboarded with**  
**Terry Ranch property**



# Budget Increase Requests – Water

Dept. Rank	Title	New FTEs	2023 One-Time	2023 Ongoing
1	Water and Sewer Priority Operating Increases	0	\$270,000	\$632,114
2	Department Organizational Changes	1.5	\$4,900	\$189,201
3	Utility Billing Organizational Investments	TBD	\$0	\$300,000
5	Instrumentation & Electrician Lead-Water	1.0	\$41,600	\$138,109
6	Distribution System O&M Coordinator	1.0	\$55,500	\$94,495
7	Utility Locator Contract to Permanent FTEs & Vehicles	0	\$82,300	\$6,100
8	Distribution System Seasonal Maintenance	0	\$0	\$69,000
10	W&S Maintenance Technician-Transmission & Distribution	1.0	\$0	\$73,809
12	Instrumentation & Controls SUV	0	38,500	\$1,700
13	Water Conservation SUV and Trailer	0	\$44,000	\$1,700
14	Treated Water Reservoirs Operations	0	\$0	\$50,000
18	W&S Supervisory and Leadership Training	0	\$0	\$17,000
19	Regional Water Advocacy Group Planning	0	\$5,000	\$0
	Aerial Photography/GIS Data Capture (IT Request)		\$60,000	\$0
	Water Sundry (Operating Contingency)		\$0	\$250,000
	Lobbying Services (CMO Request)		\$0	\$120,000
	Classification and Compensation		\$0	\$200,000
			<b>\$601,800</b>	<b>\$2,143,228</b>

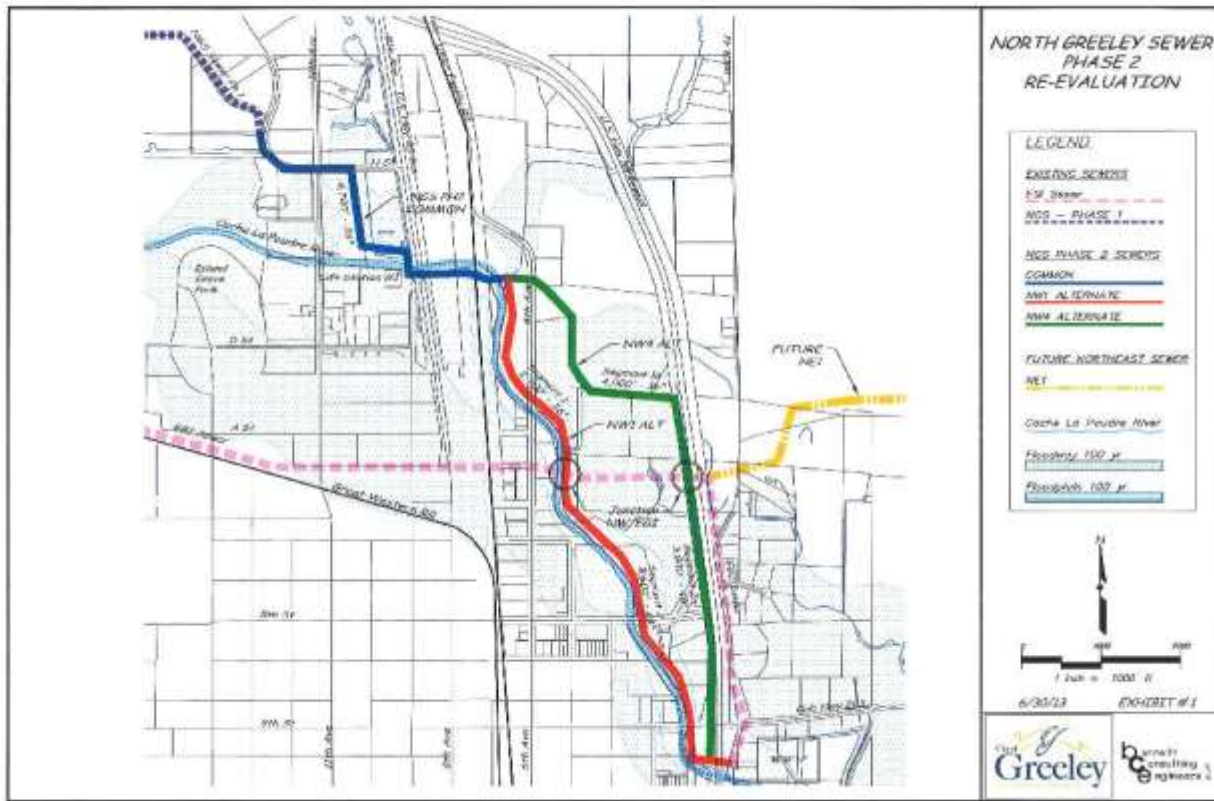
# Sewer Capital and Operating



# 2023 Sewer New Construction (Fund 412)

2023 Project List	
North Greeley Sewer Phase 2A	198,000
Highland Hills Sewer 25 <sup>th</sup> Street Diversion	195,000
Additional Sanitary Sewer Manholes & Sewer Taps	69,000
3 Projects Total:	\$462,000

# Largest Investments: North Greeley Sewer Phase 2A



**Total Project Cost: \$6,556,000**

**Project will allow growth to occur north of Poudre River.**

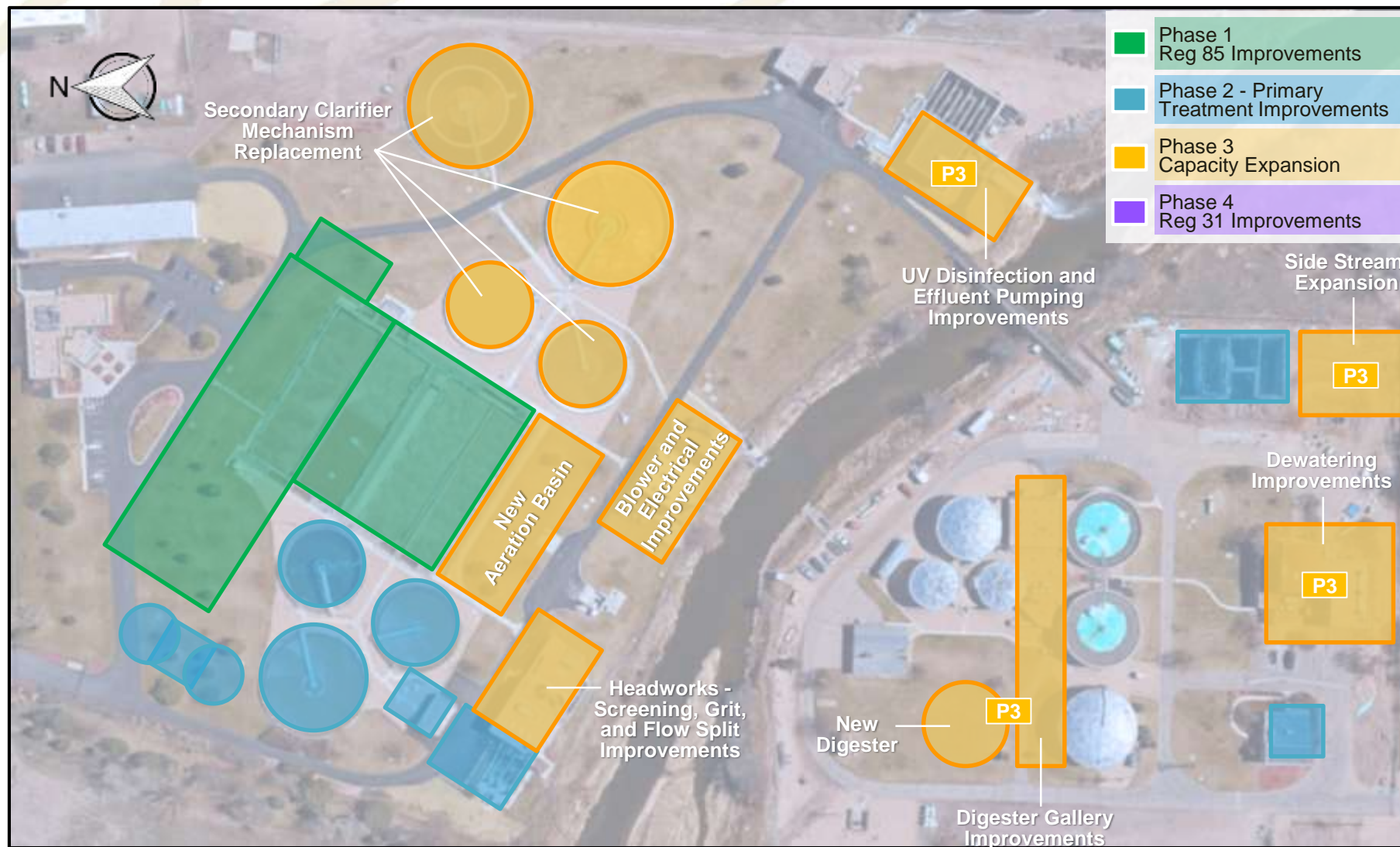


# 2023 Sewer Replacement/Rehab (Fund 413)

2023 Project List Continued	
WTRF Generator Replacement	3,780,000
Utility Billing Replacement-Sewer	1,200,000
General Rehabilitation Projects	656,000
Trenchless Main and Collector Rehabilitation	420,000
Capital Outlay Replacement - Sewer	388,424
* WTRF Primary Treatment Ph 2	370,000
Sewer Collection System Rehabilitation	285,000
WWC Sewer System Rehabilitation	180,000
Wastewater Flow Monitoring Program	85,000
Instrumentation and Controls - Wastewater	75,000
8 <sup>th</sup> Ave Sanitary/Storm Sewer Manhole Conflict	66,000
WTRF Stream Temperature Assessment	52,000
12 Projects Total:	\$7,557,424

\* Project new to CIP

# Future Years - WTRF Primary Treatment Phase 2/3



**Phase 2 project  
budget 2023-2025:  
\$43,651,650**

**This project  
reflects most of  
the increase in the  
Sewer CIP**

**Phase 3 project  
budget 2029-2032:  
\$75,400,000**



# Budget Increase Requests – Sewer

Dept. Rank	Title	New FTEs	2023 One-Time	2023 Ongoing
1	Water and Sewer Priority Operating Increases	0	\$96,000	\$92,939
4	W&S Maintenance Technician-Wastewater Collection	1.0	\$7,400	\$73,951
15	WTRF Maintenance	0	\$0	\$35,000
	Classification and Compensation		\$0	\$100,000
	Sewer Sundry (Contingency)		\$0	\$100,000
			<b>\$103,400</b>	<b>\$401,890</b>

# Water & Sewer

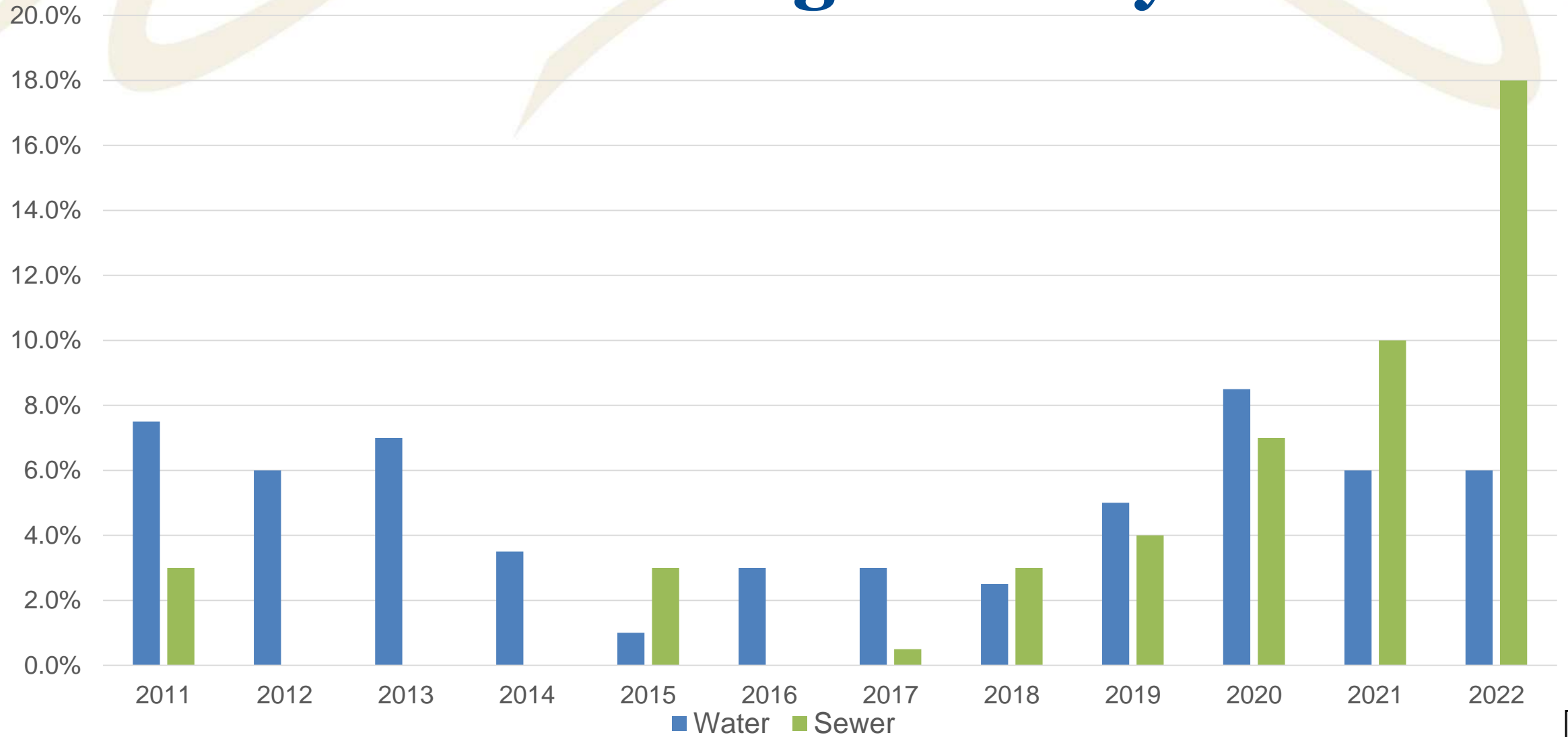
2023 Draft Rate Adjustments

System-Wide Water: 3%

System-Wide Sewer: 18%



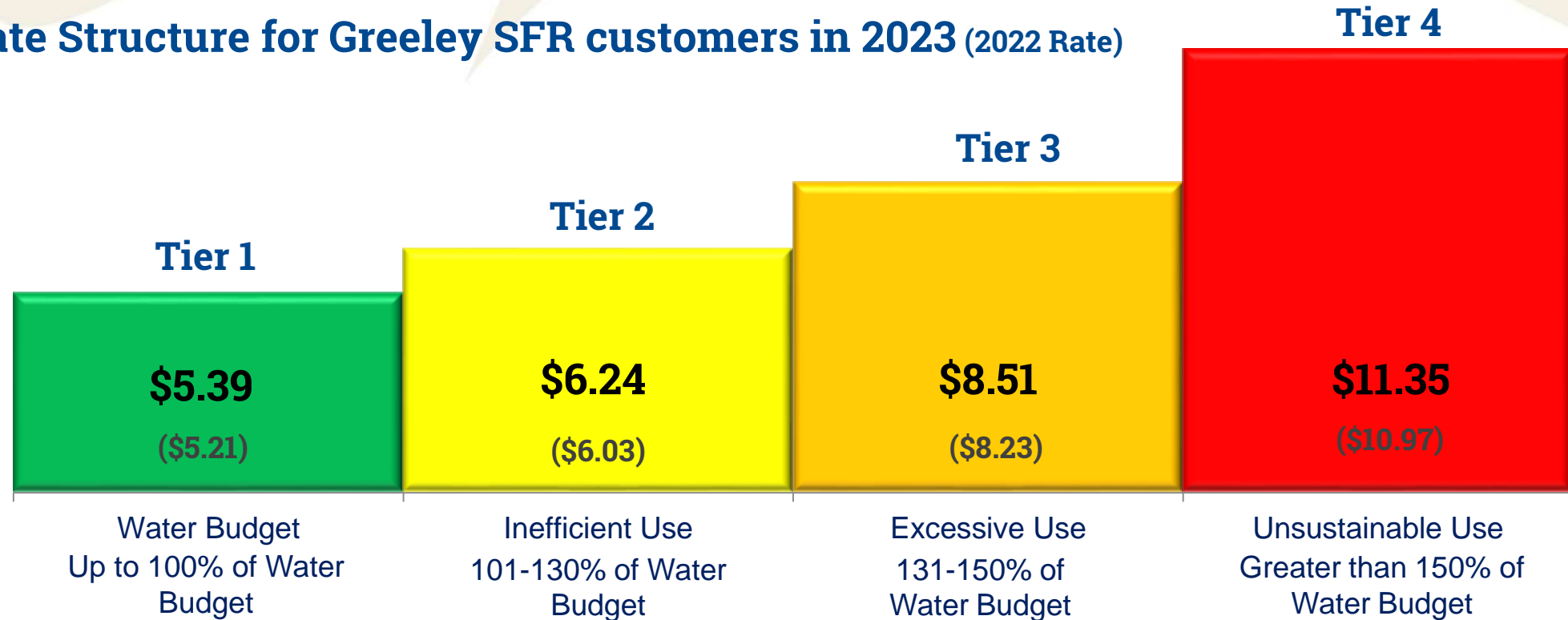
# Rate Change History



**TENTATIVE**

# Residential Water Budget Rate Structure

Rate Structure for Greeley SFR customers in 2023 (2022 Rate)



- **Uniform rate is \$5.64 for customers not on water budget (up from \$5.46)**
- **Monthly service charge is \$17.50 (no change from 2022)**

# **TENTATIVE** 2023 Water Rate Changes

<b>Customer Class</b>	<b>Existing Rate/kgal</b>	<b>% Increase</b>	<b>Proposed Rate/kgal</b>
<b>Inside Residential</b>	<b>Varies</b>	<b>2.5%</b>	<b>Varies</b>
<b>Inside Commercial</b>	<b>\$5.45</b>	<b>2.5%</b>	<b>\$5.60</b>
<b>Inside Industrial</b>	<b>\$4.28</b>	<b>5.5%</b>	<b>\$4.52</b>
<b>Outside Residential</b>	<b>\$11.62</b>	<b>0%</b>	<b>\$11.62</b>
<b>Outside Commercial</b>	<b>\$11.54</b>	<b>0%</b>	<b>\$11.54</b>
<b>Outside Industrial</b>	<b>\$3.75</b>	<b>6.0%</b>	<b>\$3.98</b>
<b>City of Evans</b>	<b>\$4.69</b>	<b>5.5%</b>	<b>\$4.96</b>
<b>Town of Windsor</b>	<b>\$4.95</b>	<b>6.0%</b>	<b>\$5.31</b>
<b>Town of Milliken</b>	<b>\$5.98</b>	<b>1.0%</b>	<b>\$6.05</b>

# **TENTATIVE** 2023 Sewer Rate Changes – Inside City

Customer Class	Existing Rate/kgal	% Increase	Proposed Rate/kgal
Single Family	\$3.45	18.0%	\$4.03
Multi-Family	\$3.46	18.0%	\$4.08
Commercial 1	\$3.48	18.0%	\$4.10
Commercial 2	\$4.85	18.0%	\$5.72
Commercial 3	\$6.21	18.0%	\$7.33
Commercial 4	\$7.58	18.0%	\$8.95
Commercial 5	\$8.97	18.0%	\$10.58

- Monthly service charge increase to \$16.70 from \$14.00 ( + \$2.70 )

# **TENTATIVE** 2023 Sewer Rate Changes – Industrial

Customer Class	Existing Rate/kgal	% Increase	Proposed Rate/kgal
Industrial SIC 2013	\$16.54	35.0%	\$22.34
Industrial SIC 7218	\$8.10	30.0%	\$10.54
Industrial SIC 2034	\$5.12	45.0%	\$7.44
Industrial SIC 2873	\$35.42	35.0%	\$47.90
Industrial SIC 4212	\$3.46	0%	\$3.40
Industrial SIC 2047	\$14.35	35.0%	\$19.38
Industrial SIC 5169	\$3.47	12.0%	\$3.88
Industrial SIC 7542	\$5.40	51.0%	\$8.16

# **TENTATIVE** 2023 Monthly Residential Bill Estimate

Average Bill	2022	2023	Change	Percent Change
Water	\$70.93	\$72.76	+ \$1.83	2.5%
Sewer	\$27.46	\$32.17	+ \$4.71	18.0%
Total W&S	\$98.39	\$104.93	+ \$6.54	6.5%

Stormwater	\$11.84	\$13.97	+ \$2.13	18.0%
Total Utility Bill	\$110.23	\$118.90	+ \$8.67	8.0%

- **2023 Water Service Charge: \$17.50 (no increase from 2022)**
- **2023 Sewer Service Charge: \$16.70 (\$2.70 increase from 2022)**



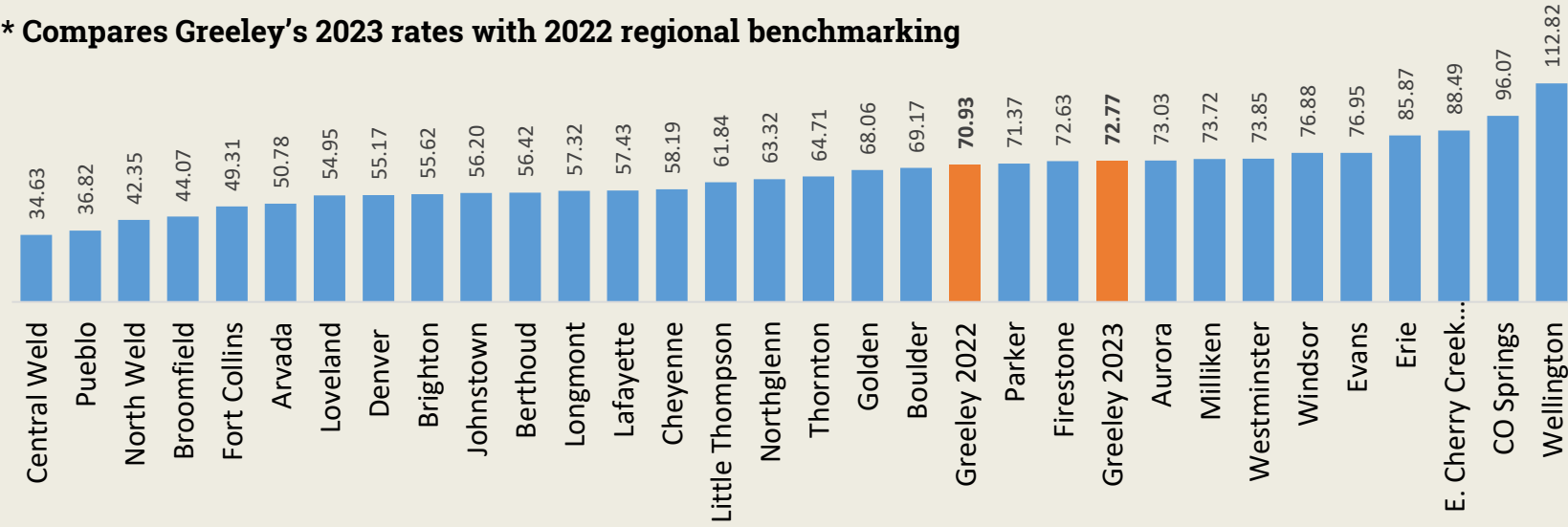
# **TENTATIVE** 2023 Monthly Residential Bill Estimate – Comparison From Last Year's Projection

Average Bill	2022	2023 (Projection From Last Year)	2023 (Updated This Year)	Difference
Water	\$70.93	\$73.77 (4%)	\$72.76 (2.5%)	(\$1.01)
Sewer	\$27.46	\$29.93 (9%)	\$32.17 (18%)	+\$2.24
Total W&S	\$98.39	\$103.93	\$104.93	+\$1.23

## Single Family Monthly Water Bill Comparison

Assumes water use of 10,000 gallons per month

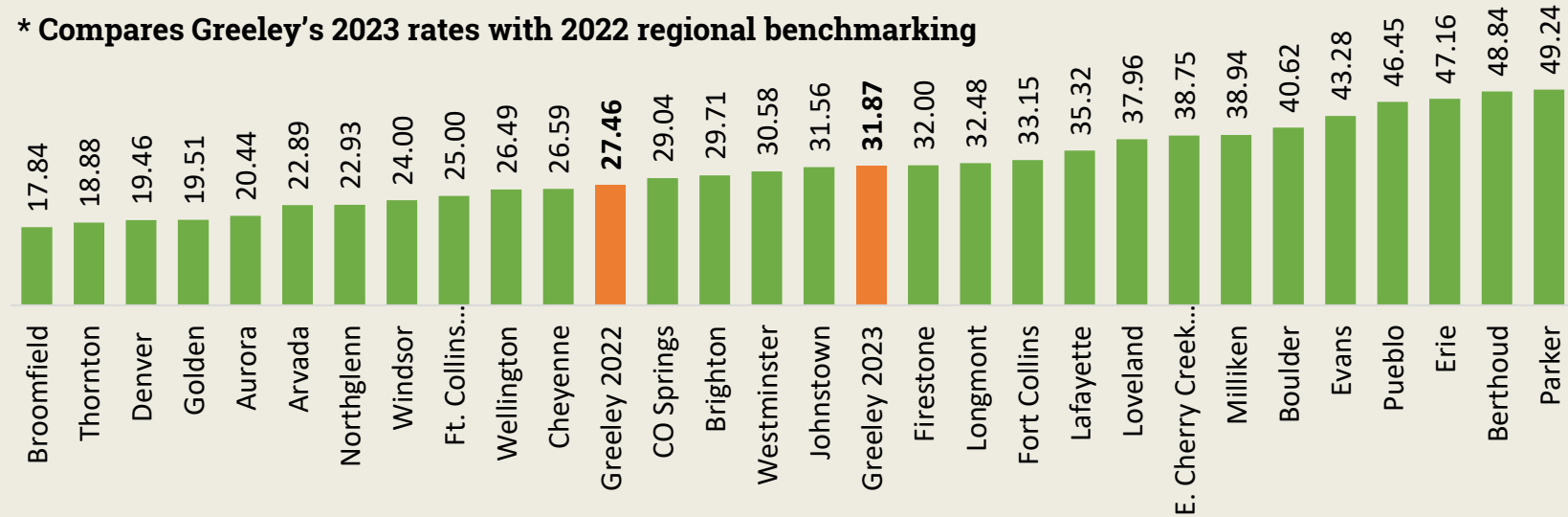
\* Compares Greeley's 2023 rates with 2022 regional benchmarking



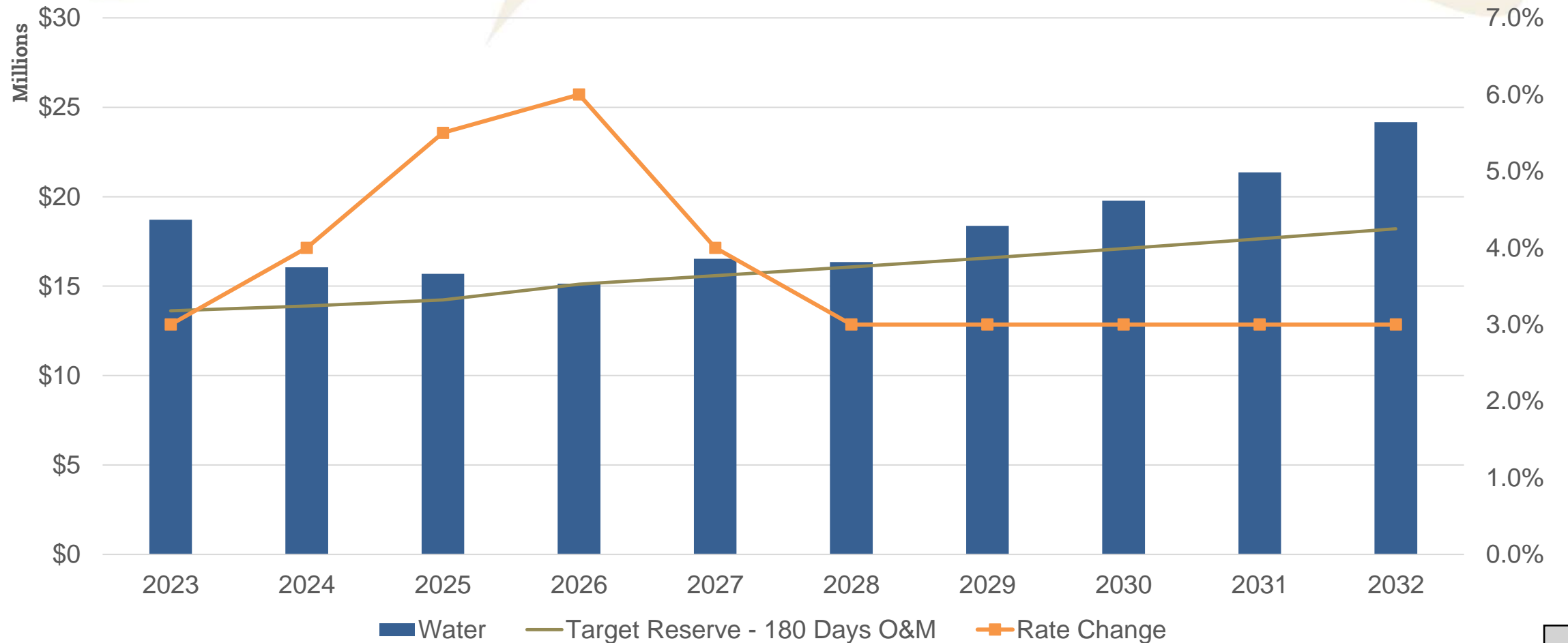
## Single Family Monthly Sewer Bill Comparison

Assumes 3,900 gallons average winter consumption.

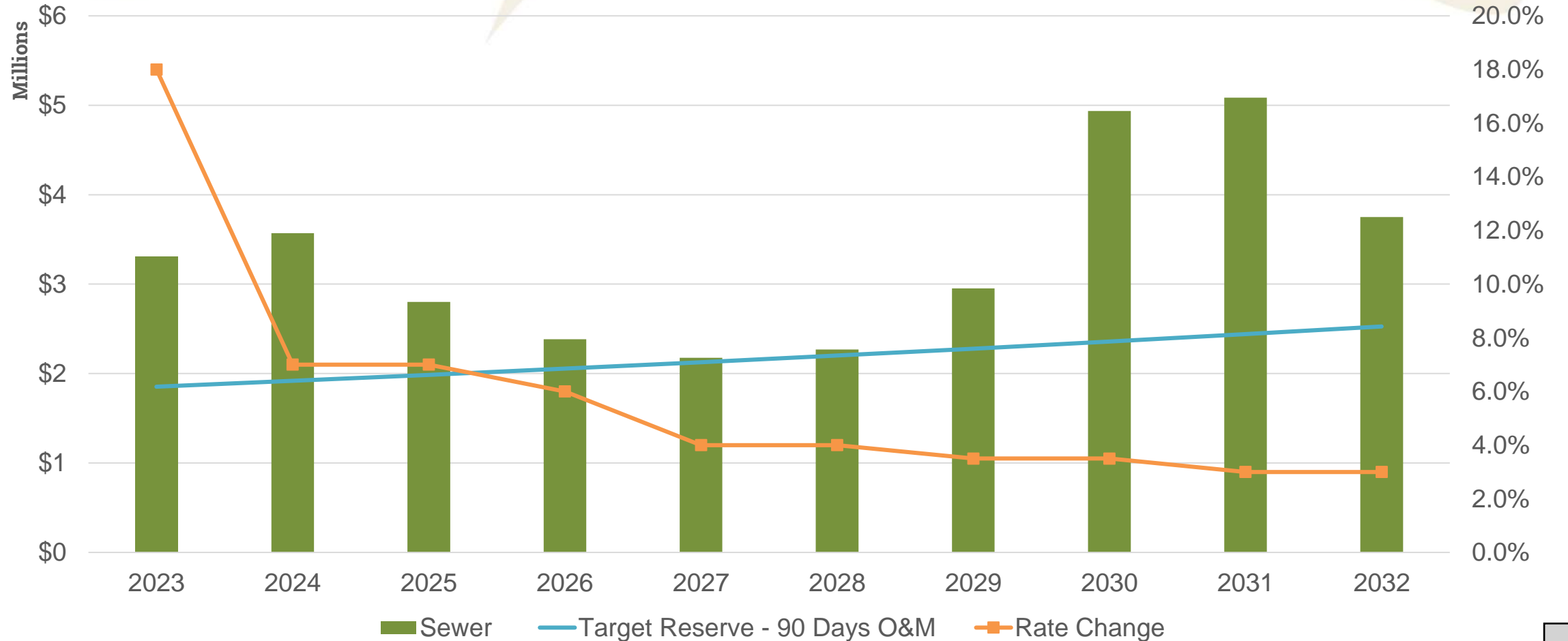
\* Compares Greeley's 2023 rates with 2022 regional benchmarking



# Projected Water Rate Increases & Operating Fund Balances



# Projected Sewer Rate Increases & Operating Fund Balances



# Plant Investment Fees – 3/4” Tap

	2022	2023
<b>Water</b>	<b>\$11,200</b>	<b>\$12,100</b>
<b>Sewer</b>	<b>\$6,800</b>	<b>\$6,900</b>
<b>Total</b>	<b>\$18,000</b>	<b>\$19,000</b>

# Thank You

July 20, 2022



**Water Pro Forma  
2023**

Line No.		Total for 2023	Operating	Construction	Replacement	Acquisition
<b>Operating Revenue:</b>						
1	User Charges	48,762,027	48,762,027			
2	Plant Investment Fees	5,934,972		5,934,972		
3	Hydrant Water Sales	412,000	412,000			
4	Raw Water Surcharge	412,000				412,000
5	Cash-in-Lieu	350,000				350,000
6	Meter Sales/Rentals	234,544		234,544		
7	Total Operating Revenue	56,105,543	49,174,027	6,169,516	-	762,000
<b>Operating Expenses:</b>						
8	O&M	23,988,618	23,793,026	195,592		
9	Windy Gap Assessments	3,818,290	3,818,290			
10	Total Operating Expenses	27,806,908	27,611,316	195,592	-	-
11	<b>Operating Income</b>	28,298,635	21,562,711	5,973,924	-	762,000
<b>Non-Operating Revenue:</b>						
12	Miscellaneous	2,244,162	2,244,162			
13	Terry Ranch Contributions	15,000,000		15,000,000		
14	Investment Income	394,461	202,145	129,598	25,885	36,833
15	Sewer Fund for Services & Meters	90,644	90,644			
16	Sale of Assets	-				
17	Water Smart Grant	2,000,000			2,000,000	
18	Bond Issue	-				
19	Total Non-Operating Revenue	19,729,267	2,536,951	15,129,598	2,025,885	36,833
<b>Non-Operating Expenses:</b>						
20	Water Acquisition	7,819,109				7,819,109
21	Capital	42,212,051		27,417,584	14,794,467	
22	Debt Service	14,158,700	14,158,700			
23	General Fund for General Administration	3,615,581	3,615,581			
24	Total Non-Operating Expenses	67,805,441	17,774,281	27,417,584	14,794,467	7,819,109
<b>Interfund Revenue or (Expense)</b>						
	Funded Depreciation	-	(8,227,441)		8,227,441	
	Additional Transfer from Operating	-	(1,100,000)			1,100,000
25	Total Interfund Revenue (Expense)	-	(9,327,441)	-	8,227,441	1,100,000
26	<b>Annual Surplus (Deficiency)</b>	(19,777,539)	(3,002,060)	(6,314,062)	(4,541,141)	(5,920,276)
27	Beginning Fund Balance 2023	49,334,803	21,715,496	16,116,797	4,859,091	6,643,419
28	Ending Fund Balance 2023	29,557,264	18,713,436	9,802,735	317,950	723,143
29	Minimum Target Reserve-180 Days O&M	5,218,808				

**Water Pro Forma  
2023-2032**

Line No.		10-year Total	Operating	Construction	Replacement	Acquisition
<b>Operating Revenue:</b>						
1	User Charges	617,869,633	617,869,633			
2	Plant Investment Fees	76,060,360		76,060,360		
3	Hydrant Water Sales	4,723,122	4,723,122			
4	Raw Water Surcharge	4,723,122				4,723,122
5	Cash-in-Lieu	4,012,358				4,012,358
6	Meter Sales/Rentals	2,901,337		2,901,337		
7	Total Operating Revenue	710,289,932	622,592,755	78,961,697	-	8,735,480
<b>Operating Expenses:</b>						
8	O&M	281,367,560	279,125,325	2,242,235		
9	Windy Gap Assessments	41,337,057	41,337,057			
10	Total Operating Expenses	322,704,617	320,462,382	2,242,235	-	-
11	<b>Operating Income</b>	387,585,315	302,130,373	76,719,462	-	8,735,480
<b>Non-Operating Revenue:</b>						
12	Miscellaneous	24,140,453	24,140,453			
13	Terry Ranch Contributions	23,800,000		23,800,000		
14	Investment Income	3,467,886	1,809,186	854,510	427,099	377,091
15	Sewer Fund for Services & Meters	1,063,397	1,063,397			
16	Sale of Assets	-				
	Water Smart Grant	2,000,000			2,000,000	
18	Bond Issue	204,500,000		49,000,000	89,500,000	66,000,000
19	Total Non-Operating Revenue	258,971,736	27,013,036	73,654,510	91,927,099	66,377,091
<b>Non-Operating Expenses:</b>						
20	Water Acquisition	82,502,186				82,502,186
21	Capital	363,594,911		161,280,002	202,314,909	
22	Debt Service	178,067,800	178,067,800			
23	General Fund for General Administration	41,448,572	41,448,572			
24	Total Non-Operating Expenses	665,613,469	219,516,372	161,280,002	202,314,909	82,502,186
<b>Interfund Revenue or (Expense)</b>						
	Funded Depreciation	-	(106,076,166)		106,076,166	
	Additional Transfer from Operating	-	(1,100,000)			1,100,000
25	Total Interfund Revenue (Expense)	-	(107,176,166)	-	106,076,166	1,100,000
26	<b>Total Surplus (Deficiency)</b>	(19,056,418)	2,450,871	(10,906,030)	(4,311,644)	(6,289,615)
27	Beginning Fund Balance 2023	49,334,803	21,715,496	16,116,797	4,859,091	6,643,419
28	Ending Fund Balance 2032	30,278,385	24,166,367	5,210,767	547,447	353,804
29	Minimum Target Reserve-180 Days O&M	18,202,656				



**Sewer Pro Forma  
2023**

Line No.		Total for 2023	Operating	Construction	Replacement
<b>Operating Revenue:</b>					
1	User Charges	16,997,824	16,997,824		
2	Plant Investment Fees	2,237,285		2,237,285	
3	Total Operating Revenue	19,235,109	16,997,824	2,237,285	-
<b>Operating Expenses:</b>					
4	O&M	7,714,972	7,518,431	196,541	
5	Total Operating Expenses	7,714,972	7,518,431	196,541	-
6	<b>Operating Income</b>	11,520,137	9,479,393	2,040,744	-
<b>Non-Operating Revenue:</b>					
7	Miscellaneous	223,600	223,600		
8	Investment Income	137,288	32,634	49,222	55,432
9	Bond Issue	-			
10	Total Non-Operating Revenue	360,888	256,234	49,222	55,432
<b>Non-Operating Expenses:</b>					
11	Capital	17,101,424		462,000	16,639,424
12	Debt Service	2,879,694	2,879,694		
13	Water Fund for Services and Meters	90,644	90,644		
14	General Fund for General Administration	1,009,742	1,009,742		
15	Total Non-Operating Expenses	21,081,504	3,980,080	462,000	16,639,424
<b>Interfund Revenue or (Expense)</b>					
	Funded Depreciation	-	(4,265,597)		4,265,597
	Additional Transfer from Operating	-	(1,400,000)		1,400,000
16	Total Interfund Revenue (Expense)	-	(5,665,597)	-	5,665,597
17	<b>Annual Surplus (Deficiency)</b>	(9,200,479)	89,950	1,627,966	(10,918,395)
18	Beginning Fund Balance 2023	18,328,969	3,218,380	4,108,218	11,002,371
19	Ending Fund Balance 2023	9,128,490	3,308,330	5,736,184	83,976
20	Minimum Target Reserve-90 Days O&M	1,853,860			

**Sewer Pro Forma  
2023-2032**

Line No.		10-year Total	Operating	Construction	Replacement
<b>Operating Revenue:</b>					
1	User Charges	234,263,307	234,263,307		
2	Plant Investment Fees	48,335,723		48,335,723	
3	Total Operating Revenue	282,599,030	234,263,307	48,335,723	-
<b>Operating Expenses:</b>					
4	O&M	90,454,769	88,201,655	2,253,114	
5	Total Operating Expenses	90,454,769	88,201,655	2,253,114	-
6	<b>Operating Income</b>	192,144,261	146,061,652	46,082,609	-
<b>Non-Operating Revenue:</b>					
7	Miscellaneous	2,577,670	2,577,670		
8	Investment Income	2,103,454	329,637	1,301,096	472,721
9	Bond Issue	137,000,000		62,000,000	75,000,000
10	Total Non-Operating Revenue	141,681,124	2,907,307	63,301,096	75,472,721
<b>Non-Operating Expenses:</b>					
11	Capital	243,387,451		111,929,241	131,458,210
12	Debt Service	75,958,838	75,958,838		
13	Water Fund for Services and Meters	1,063,397	1,063,397		
14	General Fund for General Administration	11,575,557	11,575,557		
15	Total Non-Operating Expenses	331,985,243	88,597,792	111,929,241	131,458,210
<b>Interfund Revenue or (Expense)</b>					
	Funded Depreciation	-	(58,440,615)		58,440,615
	Additional Transfer from Operating	-	(1,400,000)		1,400,000
16	Total Interfund Revenue (Expense)	-	(59,840,615)	-	59,840,615
17	<b>Total Surplus (Deficiency)</b>	1,840,142	530,552	(2,545,536)	3,855,126
18	Beginning Fund Balance 2023	18,328,969	3,218,380	4,108,218	11,002,371
19	Ending Fund Balance 2032	20,169,111	3,748,932	1,562,682	14,857,497
20	Minimum Target Reserve-90 Days O&M	2,526,620			

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	<b>CITY OF GREELEY - WATER &amp; SEWER 10 YEAR CIP 2023-2032</b>													<b>Revised June 22, 2022</b>
2	Project Count: 91      • Project new to CIP this year													
3	<b>WATER CONSTRUCTION</b>													
4	<b>Supply</b>	<b>Driver</b>	<b>Description</b>	<b>2023 to 2032</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>
5	Windy Gap Firming	Master Plan	Firms water rights for Greeley's Windy Gap units.	1,030,000	515,000		515,000							
6	Terry Ranch Water Development	Master Plan	A aquifer supply & storage project for long term water storage needs-2022 ongoing project											
7	Non-Potable Expansion Projects	Master Plan	Funds non-potable system conversions and np infrastrucutre to serve new development.	28,302,000	3,830,000	2,771,000	2,709,000	2,268,000	3,538,000	3,538,000	3,109,000	3,109,000	3,109,000	321,000
8	Poudre Ponds Pond C	Master Plan	Fill Pond C, grade the site and reseed the area to get released from the DRMS mining permit.	4,633,540			203,140	4,430,400						
9	•Ogilvy Bypass Structure	Regulatory	Bypass to measure flow to Ogilvy ditch headgate.	200,000	200,000									
10	<b>Treatment</b>													
11	Bellvue Residuals Gravity Thickener	Operations/MP	2nd residual gravity thickener for increased capacity & demand.	8,107,000					1,260,000	6,847,000				
12	Bellvue 2mg Clear well	Operations/Reg.	Best practice is 10% of max daily production, need 4 mg and currently have 2mg.	6,562,500	750,000	757,500	5,055,000							
13	<b>Transmission &amp; Distribution</b>													
14	O ST and 59th Roundabout Waterline		Install two new 20" waterlines prior to construction of the new roundabout intersection	1,108,374	1,108,374									
15	Waterline F St S and E of 47th Ave	Master Plan	Install 7000 feet of 12", 16" and 20" Waterline.	4,750,081	590,000	4,160,081								
16	Distribution Line Extension & Oversizing	Operations/MP	Development reimbursement for water line oversizing.	1,631,990	154,210	161,280	161,280	163,300	165,320	165,320	165,320	165,320	165,320	165,320
17	Water Taps	Operations	City installed taps for new development or removing compound taps.	750,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
18	New Construction Meters	Operations	City installed meters for new development (reimbursed).	450,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000
19	Non-Potable Waterline	Master Plan	Dependent on roadwork - install new non-potable line, 83rd Avenue alignment.	15,692,633				1,727,007		7,247,813	6,717,813			
20	35th Ave Non-Potable Waterline Ph II	Const. Coord/MP	Phase two to install a 30-36" non-pot pipe as part of the 35th Ave Widening by Public Works.	2,007,501		2,007,501								
21	35th Avenue Water Line Extension Ph II	Const. Coord	Waterline to be installed in advance of City and County roadway projects along 35th Ave.	2,932,100		115,000	2,817,100							
22	O St Waterline Extension 23rd-25th	Master Plan	Install 16" Waterline along "O" Street between 23rd and 25th Avenues	812,820		125,000	687,820							
23	Bellvue Pipeline Gold Hill	Master Plan	Gold Hill segment will allow gravity service to Gold Hill.	20,855,000	85,000	5,166,000	7,749,000	7,815,000	40,000					
24	EFI Pump Station Installation	Operations	Install self-contained pre-fab water pump station to provide additional flow and pressure.	65,000	65,000									
25	71st - 83rd Pump Station and Pipeline	Master Plan	Construct pump station and pipeline to 83rd Ave, part of the lower equalizer project.	13,487,100							1,159,300	6,454,650	5,873,150	
26	<b>SUB-TOTAL WATER CONSTRUCTION</b>			<b>113.4M</b>	<b>7.4M</b>	<b>15.4M</b>	<b>20.0M</b>	<b>16.5M</b>	<b>5.1M</b>	<b>17.9M</b>	<b>11.3M</b>	<b>9.8M</b>	<b>9.3M</b>	<b>606.3K</b>
27														
28	<b>WATER CAPITAL REPLACEMENT</b>													
29	<b>Supply</b>	<b>Driver</b>	<b>Description</b>	<b>2023 to 2032</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>
30	Milton Seaman Outlet Works	Operations/Reg.	Replacement of Milton Seaman reservoir outlet gates.	5,525,600		225,000	5,300,600							
31	Non-Potable Replacement and Rehabilitation	Maintenance	Maintenance and expansion of Greeley's existing non-potable irrigation system.	5,914,000	1,160,000	536,000	2,188,000	270,000	285,000	295,000	295,000	295,000	295,000	295,000
32	Risk & Resiliency Projects	Master Plan	Risk mitigation projects per the 2020 Risk & Resiliency Assessment.	990,200	315,200	164,500	335,000	175,500						
33	Ancillary system Improvements	Maintenance	Irrigation ditch system assessments and City maintenance.	500,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
34	Bellvue Intake Maintenance Project Phase 2	Maintenance	Repair damages to Bellvue raw water intake structure.	8,375,000					8,255,000	120,000				
35	Suburban Ditch (Reservoir Rd) Line Replacement	Maintenance	Replace a 1961 irrigation line due to deterioration.	4,123,611	1,295,420	1,373,005	1,455,186							
36	Boyd Freeman Ditch Improvements	Operations	Repair Inverted syphon on the Boyd Freeman Ditch	1,944,000		918,000	482,000	544,000						
37	Lake Loveland Tower Cover	Maintenance	Replace one fiberglass cover over the Lake Loveland intake tower.	270,000				270,000						
38	SCADA - High Mountain Reservoirs	Maintenance/Reg.	Upgrade SCADA for High Mountain Reservoirs to meet upgraded regulations.	393,200	124,000	131,200	138,000							
39	Peterson Reservoir Spillway Abutment Repair	Regulatory	Repair deteriorating abutments as required by State Engineer.	200,500		200,500								
40	•Non-Potable Water Master Plan Update	Master Plan	Master Plan for non-potable systems.	325,000			325,000							
41	<b>Treatment</b>													
42	Boyd Process Improvements	Maintenance	Design/construct improvements to the treatment infrastructure at the Boyd Lake plant.	17,075,000					4,625,000	50,000	12,400,000			
43	Boyd Sedimentation Basin Repair	Maintenance	Repair concrete erosion within the sedimentation basins	900,000				900,000						
44	Boyd Flocculator Replacement	Maintenance	Replace 24 flocculators in the sedimentation basins											
45	Bellvue WTP General Rehab.	Maintenance	General maintenance projects or unanticipated rehab	4,930,000	500,000	460,000	475,000	555,000	490,000	490,000	490,000	490,000	490,000	490000
46	Boyd WTP General Rehab.	Maintenance	General maintenance projects or unanticipated rehab	4,915,000	490,000	525,000	495,000	580,000	450,000	475,000	475,000	475,000	475,000	475000
47	Water Treatment Plants Master Plan	Master Plan	Master plan for planning project needs in the future for the City's two water plants.	790,000		790,000								
48	Boyd Pump Station Intake Valve	Maintenance	Replace a non functional intake valve at the Boyd Lake pump station	520,000				520,000						
49	Bellvue 20 MGD Treatment Trains-Ph. 2	Maintenance/MP	20 MGD replacement of the old flocculation/sedimentation and 58/64 filters (TB2)	4,410,000										4,410,000
50	Boyd Micro strainer Building Remodel	Maintenance	Remodel Micro strainer building to meet current building code and expand space	2,020,000							1,135,000	885,000		
51	<b>Transmission &amp; Distribution</b>													
52	Transmission System Rehab.	Maintenance	Replacement and rehabilitation of transmission lines	19,883,000	1,000,000	1,000,000	2,101,000	2,276,000	2,251,000	2,251,000	2,251,000	2,251,000	2,251,000	2,251,000
53	Distribution Pipeline Replacements	Maintenance	Replaces lines based on leak history or increase size for operations or meet City standards	19,067,000	1,895,000	2,400,000	2,324,000	2,134,000	1,719,000	1,719,000	1,719,000	1,719,000	1,719,000	1,719,000
54	Advanced Metering Infrastructure (AMI)	Operations	AMI to facilitate water savings, improve customer communication, enhance Water Budget	2,350,000	700,000	725,000	925,000							
55	Treated Water Reservoir Rehabilitation	Maintenance	Maintenance and minor repairs to the treated water reservoirs	3,409,410	2,390,410	175,000	140,000	50,000	45,000	121,800	121,800	121,800	121,800	121,800
56	Water Capital Outlay Replacement	Maintenance	Replacement of rolling stock: trucks, loaders, etc.	10,047,718	1,035,977	537,418	1,419,324	1,821,475	944,109	879,615	236,958	1,057,614	1,057,614	1,057,614
57	Utility Billing Replacement - Water	Operations	Replacement of existing City CIS software system	3,000,000	3,000,000									
58	Instrumentation & Controls - Water	Operations	Maintains SCADA systems and control panels	1,851,612	195,800	175,102	180,355	185,765	185,765	185,765	185,765	185,765	185,765	185,765
59	Meter Replacement	Maintenance	Replace meters that become inaccurate or failing	1,000,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
60	Valve Replacement	Maintenance	Replaces failed valves on system with over 12,000 valves	1,000,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
61	Fire Hydrant Replacement	Maintenance	Replace hydrants that do not meet current city standards	770,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000
62	W&S Facilities Program	Operations	Site will be developed to house W&S operational crews & equipment	23,983,162		3,000,000		20,918,162	65,000					
63	Transmission Customers Re-Route	Operations	Existing transmission line customers moved to other water providers	2,000,000			400,000	400,000	400,000	400,000	400,000			
64	•Reservoir Rd Reservoir Replacements	Maintenance	Replacement of aged reservoirs at reservoir road.	15,000,000										15,000,000
65	•Lead Service Line Repalcement	Regulatory	Replacement of lead and galvanized service lines from meter to house	10,656,955	2,137,727	2,129,807	2,129,807	2,129,807	2,129,807					
66	<b>SUB-TOTAL WATER CAPITAL REPLACEMENT</b>			<b>178.1M</b>	<b>16.6M</b>	<b>15.8M</b>	<b>21.1M</b>	<b>34.1M</b>	<b>22.2M</b>	<b>7.3M</b>	<b>20.0M</b>	<b>7.8M</b>	<b>6.9M</b>	<b>26.3M</b>
67														

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	<b>CITY OF GREELEY - WATER &amp; SEWER 10 YEAR CIP 2023-2032</b>													<i>Revised June 22, 2022</i>
2	Project Count: 91      • Project new to CIP this year													
68	<b>WATER RIGHTS ACQUISITION</b>													
69		Driver	Description	2023 to 2032	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
70	Future Water Acquisition	Master Plan	Acquisition of 10,000 ac-ft. of agricultural water supplies	63,144,207	5,521,109	5,686,742	5,857,344	6,033,065	6,207,304	6,386,770	6,571,620	6,762,016	6,958,123	7,160,114
71	Life After Lawn	Master Plan	Program to pay water customers to replace bluegrass turf with Water Smart Landscape.	1,604,796	153,000	156,060	159,181	162,365	162,365	162,365	162,365	162,365	162,365	162,365
72	Non-tributary groundwater SLB Change Case	Master Plan	Water use court system change for non-tributary groundwater right in the Laramie Fox aquifer	1,300,000	1,000,000	200,000	100,000							
73	Poudre Ponds Parcel B	Master Plan	Expansion of gravel water pit storage at the Poudre Ponds compls	1,010,000	1,010,000									
74	Water Supply and Storage Change Case	Master Plan	Water use court system change from irrigation to municipal use	200,000	100,000	100,000								
75	Overland Trail Gravel Pits	Master Plan	Greeley and Tri-Districts partnership for approximately 2,350 ac-ft. storage.	3,210,000	35,000	35,000	35,000	35,000	35,000	35,000	1,000,000	2,000,000		
76	SUB-TOTAL WATER RIGHTS ACQUISITION			70.5M	7.8M	6.2M	6.2M	6.2M	6.4M	6.6M	7.7M	8.9M	7.1M	7.3M
77														
78	<b>WATER TOTAL</b>			362.0M	31.8M	37.4M	47.3M	56.8M	33.7M	31.8M	39.0M	26.6M	23.3M	34.3M
79														
80	<b>SEWER CONSTRUCTION</b>													
81	Collection	Driver	Description	2023 to 2032	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
82	Sanitary Sewer Manholes & Taps	Operations	Manholes added for operation and maintenance benefits	690,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000	69,000
83	N. Greeley Sewer Phase IIA	Master Plan	Provides service north of the Poudre River and along HWY 85	6,556,000	198,000	6,331,000	15,000	12,000						
84	Highland Hills 25th St Sewer Diversion	Master Plan	Divert flows from the existing 8" main in 25th St/Centerplace Dr. and 38th Ave.	1,127,000	195,000	932,000								
85	<b>Treatment</b>													
86	WTRF Primary Treatment Phase III	Master Plan	Increase total treatment capacity for loads and flows through the WTRF.	75,378,990							9,439,000	104,000	65,731,990	104,000
87	SUB-TOTAL SEWER CONSTRUCTION			83.8M	462.0K	7.3M	84.0K	81.0K	69.0K	69.0K	9.5M	173.0K	65.8M	173.0K
88														
89	<b>SEWER CAPITAL REPLACEMENT</b>													
90	Collection	Driver	Description	2023 to 2032	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
91	Trenchless Main and Collector Rehab	Maintenance	In pipe Cure-in-Place repair of sanitary system	4,200,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000
92	Highland Hills 47th Ave Sewer Capacity	Master Plan	Increase capacity in the existing 8" sewer line in 47th Avenue.	2,550,000			2,550,000							
93	WWC Internal Sewer System Rehabilitation	Maintenance	Repairs of sanitary sewer manholes and main lines by City's Collections department	1,665,000	180,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
94	Sewer Collection System Rehabilitation	Maintenance	Lines smaller than 6" identified for replacement and system rehab	800,000	160,000	160,000	160,000	160,000	160,000					
95	Wastewater Flow Monitoring Program	Maintenance	Install flow meters on trunk lines for flow monitoring	425,000	85,000	85,000	85,000	85,000	85,000					
96	8th Ave Sewer Storm MH Conflict	Maintenance	Replacement of two clay pipes over 70 years old that currently flow through a storm manhole.	651,000	66,000	140,000	445,000							
97	Highland Hills Bittersweet Sewer Capacity	Master Plan	Upsize approximately 2,300 feet of sewer main across 16th St through Bittersweet Park.	1,520,000		265,000		1,255,000						
98	Highland Hills 35th Ave Sewer Capacity	Master Plan	Upsize approximately 1,800 feet of sewer main in 35th Ave from 16th St to 19th St.	1,485,000		255,000	1,230,000							
99	Balsam Ave and LS9 Capacity Assessment	Master Plan	The Masterplan identified deficiencies in the Balsam Ave Trunk line and Lift Station 9.	120,000			120,000							
100	Central 16th St Sewer Replacement	Master Plan	Upsizing sewer main across Greeley Central's baseball field.	1,525,000				255,000	1,270,000					
101	North Poudre RR Sewer Phase I	Master Plan	Deficiency driven capital project identified in the 2020 sewer collection master plan.	7,120,000				1,000,000	6,120,000					
102	Lift Station 9	Master Plan	Growth driven capital project identified in the 2020 sewer collection master plan.	12,320,000				1,600,000	4,855,000	5,865,000				
103	•Sanitary Sewer Master Plan Update	Master Plan	Master plan update for city sewer system due for 2027.	725,000					725,000					
104	•Sewer Service Line Grouting and Sealing		Grouting sanitary sewer service connections and laterals that connect to cip linings	275,000	275,000									
105	<b>Treatment</b>													
106	WTRF Generator Replacement	Regulatory	This project will provide a new backup generator for the Nitrification Phase 2 project.	3,780,000	3,780,000									
107	General Rehabilitation Projects	Maintenance	Small or unanticipated maintenance projects	9,180,940	656,000	974,050	1,012,753	917,140	1,057,247	912,750	912,750	912,750	912,750	912,750
108	WTRF Blower Replacement Phase 1B	Master Plan	Replaces one K-Turbo blower with a new Sulzer blower to match other recent upgrades.											
109	•WTRF Blower Replacement Phase 2	Master Plan	Replacing expiring and aged out blowers used for aerating process fluid	6,767,500				610,000	6,157,500					
110	Instrumentation & Controls - Wastewater	Operations	Maintains SCADA systems and control panels	750,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
111	WTRF Stream Temperature Assessment	Regulatory	Study effluent temperature issues for possible new regulations.	570,000	52,000	52,000	52,000	102,000	52,000	52,000	52,000	52,000	52,000	52,000
112	WTRF Primary Treatment-Phase II	Maintenance/MP	Repairs existing three primary clarifiers built in 1960's & 1980's and improves performance	43,651,650	370,000	43,201,650	80,000							
113	•WTRF Additional Cake Hopper	Master Plan	Construction and installation of an additional cake hopper.	2,364,000		2,364,000								
114	•WTRF Cake Pump Replacement	Master Plan	Replacement of the cake pump at WTRF	157,500			157,500							
115	•WTRF Secondary Clarifier Upgrades	Master Plan	Upgrades to secondary clarifier tanks.	4,475,000				365,000	4,110,000					
116	•WTRF Secondary Digersters Rehabilitation	Master Plan	Rehabilitation of secondary digesters.	2,591,000	145,000	351,000	2,095,000							
117	<b>Studies &amp; Others</b>													
118	Utility Billing Replacement - Sewer	Operations	Replacement of existing City CIS software system	1,200,000	1,200,000									
119	Sewer Capital Outlay Replacement	Maintenance	Replacement of rolling stock: trucks, loaders, etc.	3,968,148	388,424	556,141	1,048,147	170,307	58,024	105,075	504,703	379,109	379,109	379,109
120	Wastewater Treatment Master Plan Update	Master Plan	WTRF Master Plan updates	1,465,000				715,000					750,000	
121	SUB-TOTAL SEWER CAPITAL REPLACEMENT			116.3M	7.9M	49.1M	9.7M	7.9M	25.3M	7.6M	2.1M	2.0M	2.8M	2.0M
122														
123	<b>SEWER TOTAL</b>			200.1M	8.3M	56.4M	9.8M	8.0M	25.4M	7.7M	11.6M	2.2M	68.6M	2.2M
124														
125	<b>WATER AND SEWER COMBINED TOTAL</b>			562.0M	40.1M	93.7M	57.1M	64.8M	59.1M	39.5M	50.7M	28.8M	91.9M	36.4M

# Water & Sewer Department

## MEMORANDUM

---

TO: Sean Chambers, Director of Water and Sewer

FROM: Virgil Pierce, Rates and Budget Analyst

DATE: July 14, 2022

RE: Existing and Planned Water and Sewer Debt

---

Debt issuance is a critical component of the department's financial planning strategy, providing the up-front investment necessary to continuously fund the replacement and expansion of Greeley's water and sewer systems. The following tables summarize existing and future bond issuances in the water and sewer funds, detailing remaining principal and associated debt service costs. Note: future bond issuances are subject to change as capital planning evolves. Pages two and three contain a list of major capital projects driving future debt issuances.

<b>Water Fund - Existing</b>	<b>Principal Remaining</b>	<b>Years Remaining</b>	<b>Annual Debt Service</b>
2014 Revenue	\$ 2,135,000	2	\$ 1,124,350
2016 Revenue	\$ 18,795,000	6	\$ 4,247,250
2018 Revenue	\$ 39,125,000	18	\$ 3,577,700
2022 Revenue	\$ 61,580,000	20	\$ 4,956,985
2021 Windy Gap	\$ 60,500,000	29	\$ 3,275,847
<b>Total Existing Water</b>	<b>\$ 156,615,000</b>		<b>\$ 15,457,502</b>

<b>Water Fund – Future</b>	<b>Proposed Issuance</b>	<b>Payment Period</b>	<b>Est. Debt Service</b>
2024 Revenue	\$ 42,500,000	20	\$ 2,856,667
2026 Revenue	\$ 50,000,000	20	\$ 3,679,087
2028 Revenue	\$ 44,500,000	20	\$ 3,274,388
2030 Revenue	\$ 36,500,000	20	\$ 2,685,734
2032 Revenue	\$ 31,000,000	20	\$ 2,281,035
<b>Total Future Water</b>	<b>\$ 204,500,000</b>		<b>\$ 14,776,911</b>

<b>Sewer Fund - Existing</b>	<b>Principal Remaining</b>	<b>Years Remaining</b>	<b>Annual Debt Service</b>
2015 Revenue	\$ 3,265,000	7	\$ 533,244
2018 Revenue	\$ 9,500,000	16	\$ 840,600
2022 Revenue	\$ 21,355,000	20	\$ 1,509,446
<b>Total Existing Sewer</b>	<b>\$ 34,120,000</b>		<b>\$ 2,883,290</b>

<b>Sewer Fund – Future</b>	<b>Proposed Issuance</b>	<b>Payment Period</b>	<b>Est. Debt Service</b>
2024 Revenue	\$ 50,000,000	20	\$ 3,518,054
2026 Revenue	\$ 18,500,000	20	\$ 1,361,262
2028 Revenue	\$ 6,500,000	20	\$ 478,281
2031 Revenue	\$ 62,000,000	20	\$ 4,562,069
<b>Total Future Sewer</b>	<b>\$ 137,000,000</b>		<b>\$ 9,919,666</b>

The following tables list the major capital projects driving future debt issuances for the water and sewer funds. Future project costs are estimated.

<b>Projects Driving Future Debt - Water</b>			
	<b>2 Year Project Budget</b>	<b>Proposed Bond Funding</b>	<b>% of Bond Issuance</b>
<b>2024 Issuance: \$42.5M</b> (expended 24-25)			
Bellvue Pipeline Gold Hill	\$ 12,915,000	\$ 12,000,000	28%
Future Water Acquisition	\$ 11,544,000	\$10,500,000	25%
Milton Seaman Outlet Works	\$ 5,526,000	\$ 5,500,000	13%
Distribution Pipeline Replacement	\$ 4,724,000	\$4,700,000	11%
Lead Service Line Replacement	\$ 4,260,000	\$ 4,200,000	10%
Transmission System Rehab.	\$ 3,101,000	\$ 3,000,000	7%
Water and Sewer Facilities Prog.	\$ 3,000,000	\$ 2,600,000	6%
	<b>\$ 45,070,000</b>	<b>\$ 42,500,000</b>	
	<b>2 Year Project Budget</b>	<b>Proposed Bond Funding</b>	<b>% of Bond Issuance</b>
<b>2026 Issuance: \$50M</b> (expended 26-27)			
Water and Sewer Facilities	\$ 20,983,000	\$ 20,900,000	42%
Future Water Acquisitions	\$ 12,240,000	\$ 11,000,000	22%
Bellvue Pipeline Gold Hill	\$ 7,855,000	\$ 7,500,000	15%
Boyd Process Improvements	\$ 4,625,000	\$ 4,600,000	9%
Transmission System Rehab	\$ 4,527,000	\$ 4,500,000	9%
Lead Service Line Replacement	\$ 4,260,000	\$ 1,500,000	3%
	<b>\$ 54,490,000</b>	<b>\$ 50,000,000</b>	
	<b>2 Year Project Budget</b>	<b>Proposed Bond Funding</b>	<b>% of Bond Issuance</b>
<b>2028 Issuance: \$44.5M</b> (expended 28-29)			
Equalizer 83 <sup>rd</sup> Ave Non-Pot Water	\$ 17,456,000	\$ 17,400,000	39%
Future Water Acquisition	\$ 16,212,000	\$ 16,000,000	36%
Boyd WTP Process Improvements	\$ 7,950,000	\$7,900,000	18%
Bellvue Residuals Gravity Thickener	\$ 8,417,000	\$ 2,100,000	5%
Transmission System Rehab	\$ 5,631,000	\$ 1,100,000	2%
	<b>\$ 55,666,000</b>	<b>\$ 44,500,000</b>	
	<b>2 Year Project Budget</b>	<b>Proposed Bond Funding</b>	<b>% of Bond Issuance</b>
<b>2030 Issuance: \$36.5M</b> (expended 30-31)			
Future Water Acquisitions	\$ 18,387,000	\$ 18,300,000	51%
71 <sup>st</sup> – 83 <sup>rd</sup> Pump Station and Pipe	\$ 16,504,000	\$ 10,000,000	28%
Boyd WTP Process Improvements	\$ 8,164,000	\$ 7,000,000	19%
Overland Trails Ponds	\$ 2,634,000	\$ 700,000	2%
	<b>\$ 45,689,000</b>	<b>\$ 36,500,000</b>	

Continued  
→

	<b>2 Year Project Budget</b>	<b>Proposed Bond Funding</b>	<b>% of Bond Issuance</b>
<b>2032 Issuance: \$31M</b> (expended 32)			
Reservoir Rd Reservoir Replacement	\$ 21,159,000	\$ 21,100,000	68%
Future Water Acquisition	\$ 10,100,000	\$ 9,000,000	29%
Bellvue Treatment Trains Ph. 2	\$ 6,221,000	\$ 900,000	3%
	<b>\$ 37,480,000</b>	<b>\$ 31,000,000</b>	
<b>Grand Total</b>	<b>\$ 238,395,000</b>	<b>\$ 204,500,000</b>	

<b>Projects Driving Future Debt - Sewer</b>			
	<b>2 Year Project Budget</b>	<b>Proposed Bond Funding</b>	<b>% of Bond Issuance</b>
<b>2024 Issuance: \$50M</b> (expended 24-25)			
WTRF Treatment Phase II	\$ 43,282,000	\$ 43,200,00	86%
Highland Hills 47 <sup>th</sup> Ave Sewer Cap	\$ 2,550,000	\$ 2,500,000	5%
WTRF Secondary Digesters Rehab	\$ 2,446,000	\$ 2,400,000	5%
WTRF Additional Cake Hopper	\$ 2,364,000	\$ 1,900,000	4%
	<b>\$ 50,642,000</b>	<b>\$ 50,000,000</b>	
<b>2026 Issuance: \$18.5M</b> (expended 26-27)			
WTRF Blower Replacement Ph. 2	\$ 6,768,000	\$ 6,400,000	36%
Lift Station #9	\$ 6,455,000	\$ 6,400,000	35%
WTRF Secondary Clarifier Upgrd.	\$ 4,475,000	\$ 4,400,000	24%
North Poudre RR Sewer Phase 1	\$ 4,060,000	\$1,000,000	5%
	<b>\$ 21,758,000</b>	<b>\$ 18,500,000</b>	
<b>2028 Issuance: \$6.5M</b> (expended 28-29)			
Lift Station #9	<b>\$ 7,210,000</b>	<b>\$ 6,500,000</b>	100%
<b>2031 Issuance: \$62M</b> (expended 31-32)			
WTRF Treatment Phase III	<b>\$ 91,300,000</b>	<b>\$ 62,000,000</b>	100%
<b>Grand Total</b>	<b>\$ 170,910,000</b>	<b>\$ 137,000,000</b>	



# **Water and Sewer Capital Program 2022 – 2026**





## **Fund 422**

# **Water New Construction**

## Windy Gap Firing

<b>Project Number:</b>	11088	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Construction	<b>Location:</b>	Proposed Chimney Hollow Reservoir near Carter Lake
<b>Project Manager:</b>	Jennifer Petrzelka	<b>Budget Unit #:</b>	4221060880070000011088
<b>Project Status:</b>	Funded		

### Description:

The project will fund the Northern Water's Windy Gap Firing Project (WGFP) which is expected to deliver a firm annual yield of 3,000 acre-feet, important to Greeley's long-term water supply.

### Discussion of Progress:

The final EIS and 404 cert has been received. A federal court case which was holding up construction has been resolved and pre-construction efforts have began as of June 2021 to secure additional approvals and close on the financial agreement required between Northern and all the participants.

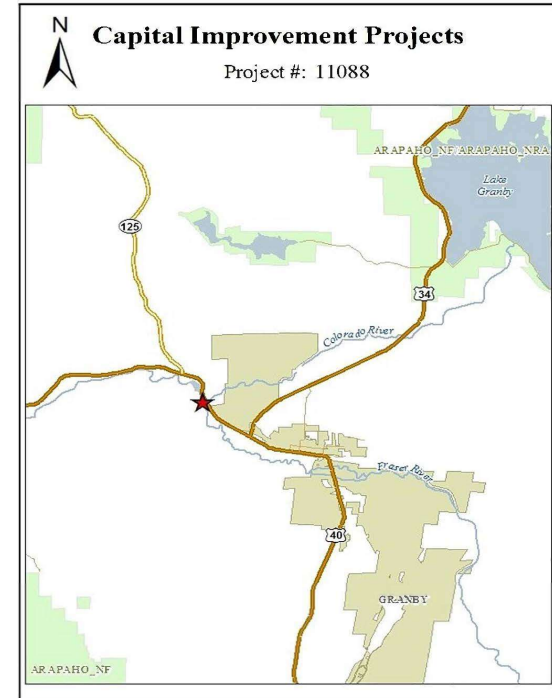
### Justification:

Due to storage limitations within the Colorado Big Thompson (C-BT) and other factors, Windy Gap owners haven't been able to rely on Windy Gap to meet a portion of their current water needs or future requirements. The Windy Gap Firing project is proposed to improve the yield of water deliveries from the existing Windy Gap project to participating Windy Gap owners.

### Impact on Operating Budget:

Water resource assessments will go up an unknown amount once the project is built and Northern Water starts assessing Greeley for its upkeep and operation.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	2,146,550	714,720	-	515,000	-	515,000	-	-	3,891,270
4611	Plant Investment Fees	-	-	515,000	-	-	-	-	-	515,000
	<b>Total Revenue</b>	<b>\$2,146,550</b>	<b>\$714,720</b>	<b>\$515,000</b>	<b>\$515,000</b>	<b>-</b>	<b>\$515,000</b>	<b>-</b>	<b>-</b>	<b>\$4,406,270</b>
Expense										
8229	Professional Services	2,146,550	714,720	515,000	515,000	-	515,000	-	-	4,406,270
	<b>Total Expense</b>	<b>\$2,146,550</b>	<b>\$714,720</b>	<b>\$515,000</b>	<b>\$515,000</b>	<b>-</b>	<b>\$515,000</b>	<b>-</b>	<b>-</b>	<b>\$4,406,270</b>
	<b>Net Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Terry Ranch Water Development

<b>Project Number:</b>	11086	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Construction	<b>Location:</b>	Carr, CO
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4221060880070000011086
<b>Project Status:</b>	Funded		

### Description:

The Terry Ranch Project will provide Greeley 1.2 million acre-feet of underground water supply and storage to meet the needs of the city's growing population. Greeley City Council approved the project purchase in March 2021. Construction of the project will occur over many decades, with the first phase to construct the 30-mile pipeline between the ranch and Greeley. The seller of the water and storage (Wingfoot) will partially fund construction of project infrastructure. Wingfoot will pay to the City \$125 million, with \$25 million at closing and \$100 million no sooner than 4 years after closing. Wingfoot pays 80% of the first \$78.125 million in project expenses, and 50% of the next \$125 million in expenses.

### Discussion of Progress:

First phase is continuing with funds made available in 2021-2022, but future phases are being indefinitely delayed because of budget constraints.

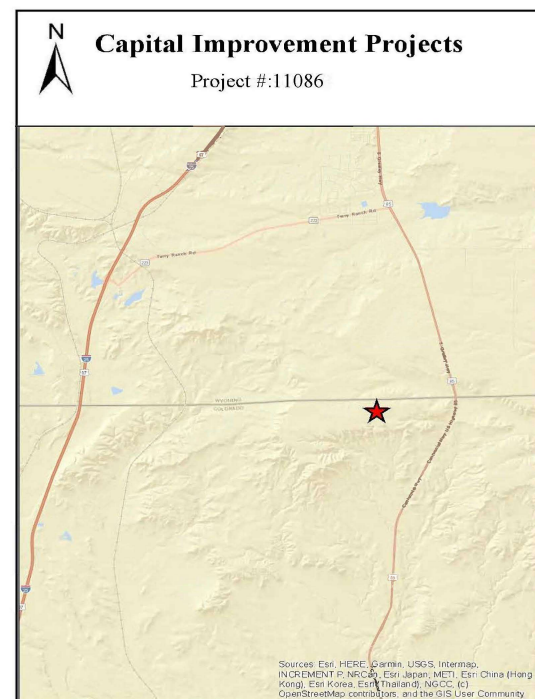
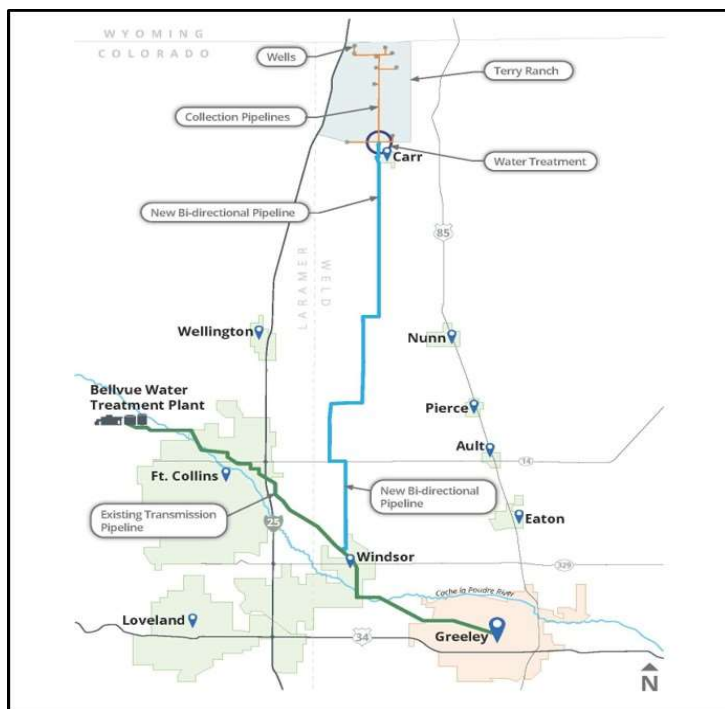
### Justification:

This was one of the alternatives identified to the Milton Seaman Expansion project. It is less expensive and less risky than expanding Milton Seaman. The City finished the due diligence period to ensure the water is safe and that the project will meet Greeley's long term water resource needs. This generational project is the next step to secure Greeley's water future.

### Impact on Operating Budget:

Operating budget expenditures will increase when the Terry Ranch Project is brought online, which is not currently anticipated for many years in the future.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	3,561,967	1,553,215	-	-	-	-	-	-	5,115,182
5788	Other Private Contribution	-	-	19,880,000	-	-	-	-	-	19,880,000
5902	Bond Proceeds	-	-	16,635,000	-	-	-	-	-	16,635,000
<b>Total Revenue</b>		<b>\$3,561,967</b>	<b>\$1,553,215</b>	<b>\$36,515,000</b>	-	-	-	-	-	<b>\$41,630,182</b>
Expense										
8202	Construction	-	-	34,000,000	-	-	-	-	-	34,000,000
8204	Contingency	-	-	1,500,000	-	-	-	-	-	1,500,000
8212	Land/Building Cost/Demolition	17,600	-	-	-	-	-	-	-	17,600
8224	Operating Supplies	-	7,108	-	-	-	-	-	-	7,108
8226	Permits, Fees, Etc	-	54,560	100,000	-	-	-	-	-	154,560
8229	Professional Services	3,540,867	1,486,747	500,000	-	-	-	-	-	5,527,614
8232	Project Management	-	-	75,000	-	-	-	-	-	75,000
8233	Project Management - Benefits	3,500	4,800	-	-	-	-	-	-	8,300
9303	Public Art Fund	-	-	340,000	-	-	-	-	-	340,000
<b>Total Expense</b>		<b>\$3,561,967</b>	<b>\$1,553,215</b>	<b>\$36,515,000</b>	-	-	-	-	-	<b>\$41,630,182</b>
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Non-Potable Expansion Project

<b>Project Number:</b>	11085	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Construction	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4221060860050000011085
<b>Project Status:</b>	Funded		

### Description:

This item funds non-potable system conversions as well as new non-potable investments needed to serve new developments. The budget reflects 1 new conversion each year and 1 new development project. If the base budget is insufficient in a given year to meet development opportunities, a supplemental budget request will be submitted to Finance to make-up the funding gap.

### Discussion of Progress:

2022 projects are on schedule to be completed in 2022 or Q1 of 2023.

### Justification:

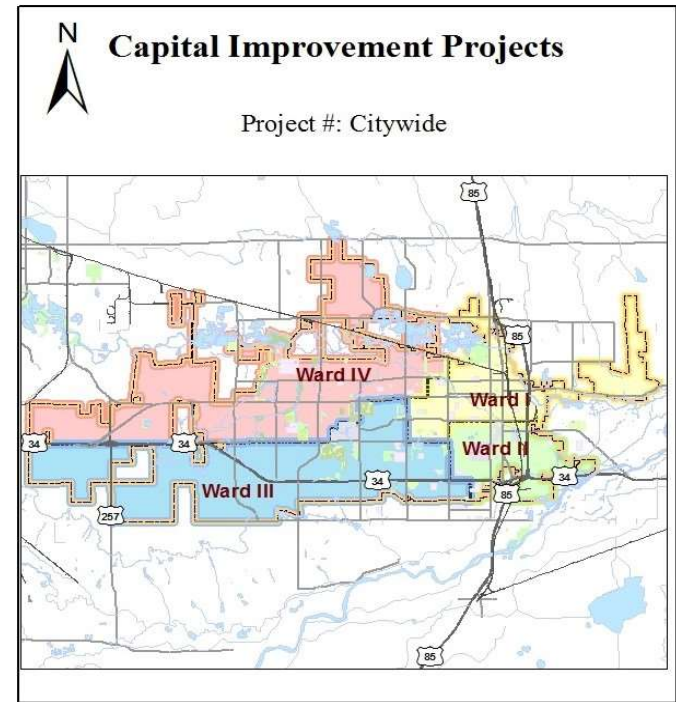
Expanding the City's non-potable system has been identified as a critical to meeting Greeley's future water demands. Funding this item provides funds to implement backbone transmission and storage infrastructure for the non-potable system.

### Impact on Operating Budget:

Additional maintenance costs due to expanded system (offset by rate revenue from new customers).

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	10,000	123,054	-	3,830,000	2,771,000	2,709,000	2,268,000	3,538,000	15,249,054
4611	Plant Investment Fees	-	-	4,854,000	-	-	-	-	-	4,854,000
5902	Bond Proceeds	-	-	197,000	-	-	-	-	-	197,000
<b>Total Revenue</b>		\$10,000	\$123,054	\$5,051,000	\$3,830,000	\$2,771,000	\$2,709,000	\$2,268,000	\$3,538,000	\$20,300,054
Expense										
8202	Construction	-	120,304	4,100,000	2,788,000	2,078,000	1,969,000	1,740,000	2,434,000	15,229,304
8204	Contingency	-	-	410,000	416,000	285,000	296,000	173,000	550,000	2,130,000
8229	Professional Services	-	2,750	500,000	476,000	292,000	340,000	287,000	447,000	2,344,750
8232	Project Management	-	-	-	75,000	51,000	50,000	50,000	83,000	309,000
8235	Real Estate	-	-	-	-	17,000	-	-	-	17,000
8242	Utility Services	-	-	-	46,000	26,000	33,000	-	-	105,000
9303	Public Art Fund	10,000	-	41,000	29,000	22,000	21,000	18,000	24,000	165,000
<b>Total Expense</b>		\$10,000	\$123,054	\$5,051,000	\$3,830,000	\$2,771,000	\$2,709,000	\$2,268,000	\$3,538,000	\$20,300,054
<b>Net Total</b>		-	-	-	-	-	-	-	-	-





## Poudre Ponds Redevelopment Pond C

<b>Project Number:</b>	N739	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Supply	<b>Regions:</b>	4 - 10 St North/23 Ave West
<b>Fund:</b>	Water Construction	<b>Location:</b>	35th Ave. North of F St. Poudre Ponds.
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

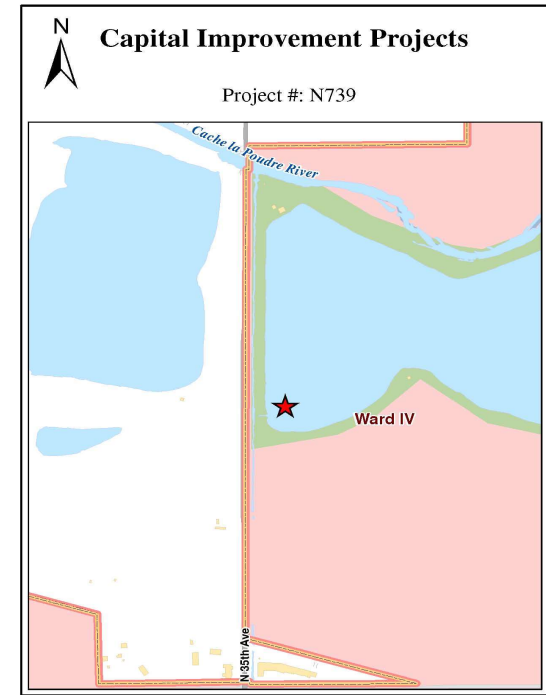
### Description:

Mining is ongoing in Pond C and is expected to be completed in the next 2 years. Once the mining is complete, the site will be filled, graded and reseeded to enhance the natural resource benefits for the site and be released from the Colorado Division of Reclamation, Mining and Safety mining permit.

### Justification:

This project is for filling Pond C and seeding to be released from the DRMS mining permit. Project 11232 Development to Parcel C Poudre Ponds is to establish wetlands/natural area amenity after this project is completed.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
5902	Bond Proceeds	-	-	-	-	-	203,140	4,430,400	-	4,633,540
<b>Total Revenue</b>		-	-	-	-	-	\$203,140	\$4,430,400	-	\$4,633,540
Expense										
8202	Construction	-	-	-	-	-	-	3,924,800	-	3,924,800
8204	Contingency	-	-	-	-	-	-	392,480	-	392,480
8229	Professional Services	-	-	-	-	-	196,240	98,120	-	294,360
8232	Project Management	-	-	-	-	-	6,900	15,000	-	21,900
<b>Total Expense</b>		-	-	-	-	-	\$203,140	\$4,430,400	-	\$4,633,540
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Ogilvy Bypass Structure

<b>Project Number:</b>	422New	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>	Water Construction Supply	<b>Regions:</b>	
<b>Fund:</b>	Water Construction	<b>Location:</b>	40.42275787419099, -104.67016300266398
<b>Project Manager:</b>	Alex Tennant	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

This bypass is a structure that measures flows past the Ogilvy ditch headgate located at their lone tree feeder canal and is required by the State to allow credits that we receive from wholly consumable supplies treated at Greeley's wastewater treatment plant and Leprino's wastewater treatment plant to be used for return flow obligations and augmentation obligations that Greeley has downstream on the South Platte.

### Discussion of Progress:

We are working to hire Ditesco to help with design on the different alternatives so we can pick the best option and start design in 2023.

### Justification:

This need arose a couple of months ago when the Colorado State Engineer's Office informed us that the water we were releasing from these two wastewater treatment plants was not making it downstream when the Ogilvy ditch Lone Tree Creek diversion was in priority. Per state law, if we need this water to flow past a diversion for Greeley obligations it needs to be bypassed and measured.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	200,000	-	-	-	-	200,000
	<b>Total Revenue</b>	-	-	-	\$200,000	-	-	-	-	\$200,000
Expense										
8202	Construction	-	-	-	150,000	-	-	-	-	150,000
8229	Professional Services	-	-	-	50,000	-	-	-	-	50,000
	<b>Total Expense</b>	-	-	-	\$200,000	-	-	-	-	\$200,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Residuals Gravity Thickener - Bellvue

<b>Project Number:</b>	A289	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Construction	<b>Location:</b>	Bellvue Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4221060880050000000000
<b>Project Status:</b>	Funded		

### Description:

Design and construction of a 2nd residuals gravity thickener with cover at the Bellvue Water Treatment Plant.

### Discussion of Progress:

This project is planned for designing in 2027 with construction in 2028.

### Justification:

Phase I of the residuals handling facilities was designed for a plant production rate of 25 million gallons per day (mgd). Current plant rating by the State is 35 mgd. The wild fires of 2011 and 2012 and the flooding in 2013 have significantly altered the raw water quality requiring increased chemical dosing with increased residuals production. The 2nd gravity thickener will provide acceptable solids loading for these increases and increased production.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future
Revenue										
	Fund Balance	-	282,682	-	-	-	-	-	1,260,000	6,847,000
	<b>Total Revenue</b>	-	\$282,682	-	-	-	-	-	\$1,260,000	\$6,847,000
Expense										
8202	Construction	-	223,461	-	-	-	-	-	-	6,200,000
8204	Contingency	-	18,309	-	-	-	-	-	-	500,000
8212	Land/Building Cost/Demolition	-	29,760	-	-	-	-	-	-	-
8216	Miscellaneous	-	-	-	-	-	-	-	-	10,000
8229	Professional Services	-	165	-	-	-	-	-	1,250,000	50,000
8232	Project Management	-	10,987	-	-	-	-	-	10,000	25,000
9303	Public Art Fund	-	-	-	-	-	-	-	-	62,000
	<b>Total Expense</b>	-	\$282,682	-	-	-	-	-	\$1,260,000	\$6,847,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Bellvue Two Million Gallon Clearwell

<b>Project Number:</b>	N39	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Construction	<b>Location:</b>	Bellvue Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

Design and construct a 2 million gallon (mg) clearwell, piping, and chemical injection in tandem with the existing clearwell.

### Discussion of Progress:

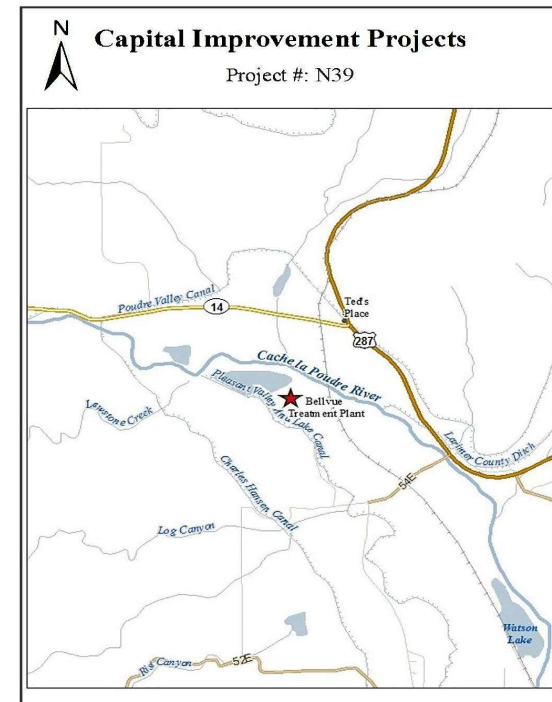
This project is scheduled for design in 2023 with construction in 2024 and 2025.

### Justification:

Colorado Department of Health & Environment (CDPHE) Design Criteria requires sufficient storage volume to backwash several filters in rapid succession without the filters having to follow fluctuations in water use. Design criteria also requires two clearwell compartments. We do not currently meet CDPHE guidelines; plant flows currently have to be raised four to six million gallons per day (mgd) during filter backwashing and there is only one compartment in the existing clearwell.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	750,000	757,500	5,055,000	-	-	6,562,500
	<b>Total Revenue</b>	-	-	-	\$750,000	\$757,500	\$5,055,000	-	-	\$6,562,500
Expense										
8202	Construction	-	-	-	-	750,000	4,500,000	-	-	5,250,000
8204	Contingency	-	-	-	100,000	-	150,000	-	-	250,000
8229	Professional Services	-	-	-	600,000	-	300,000	-	-	900,000
8232	Project Management	-	-	-	50,000	-	60,000	-	-	110,000
9303	Public Art Fund	-	-	-	-	7,500	45,000	-	-	52,500
	<b>Total Expense</b>	-	-	-	\$750,000	\$757,500	\$5,055,000	-	-	\$6,562,500
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-







## O St & 59th Roundabout Waterline

<b>Project Number:</b>	11380	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	4 - 10 St North/23 Ave West
<b>Fund:</b>	Water Construction	<b>Location:</b>	F St & 47th Ave, Greeley CO 80631
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060400540000011380
<b>Project Status:</b>	Funded		

### Description:

Install two new 20" waterlines prior to construction of the new roundabout intersection at 59th Ave. This project also includes a bore under the railroad. Installing this pipeline now will avoid expensive pavement replacement and traffic disruption in the future. This piping was identified in the Water Distribution MP for service in North Greeley. This pipe will replace undersized piping from North Weld water district.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	1,108,374	-	-	-	-	1,108,374
4611	Plant Investment Fees	-	-	629,000	-	-	-	-	-	629,000
<b>Total Revenue</b>		-	-	\$629,000	\$1,108,374	-	-	-	-	\$1,737,374
Expense										
8202	Construction	-	-	450,000	907,219	-	-	-	-	1,357,219
8204	Contingency	-	-	110,000	136,083	-	-	-	-	246,083
8226	Permits, Fees, Etc	-	-	35,000	15,000	-	-	-	-	50,000
8229	Professional Services	-	-	25,000	35,000	-	-	-	-	60,000
8232	Project Management	-	-	4,000	6,000	-	-	-	-	10,000
9303	Public Art Fund	-	-	5,000	9,072	-	-	-	-	14,072
<b>Total Expense</b>		-	-	\$629,000	\$1,108,374	-	-	-	-	\$1,737,374
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

## F St & 47th Ave Waterlines

<b>Project Number:</b>	11377	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	4 - 10 St North/23 Ave West
<b>Fund:</b>	Water Construction	<b>Location:</b>	F St & 47th Ave, Greeley CO 80631
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060400530000011377
<b>Project Status:</b>	Funded		

### Description:

Install 7,000 feet of 12", 16" and 20" Waterline along 47th Ave from C St to F St and then along F St to 35th Ave. Installation of these pipes identified in the Water Distribution MP, will be required to serve the proposed City operations facilities for W&S, CPRD, and PW, and will provide improved system service and reliability. These installations will also take place before paving projects in this area.

### Discussion of Progress:

Design will start in 2023 with construction in 2024.

### Justification:

Connect distribution grid prior to new street construction and provide water and fire protection to new service center.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	590,000	4,160,081	-	-	-	4,750,081
4611	Plant Investment Fees	-	-	590,000	-	-	-	-	-	590,000
	<b>Total Revenue</b>	-	-	\$590,000	\$590,000	\$4,160,081	-	-	-	\$5,340,081
Expense										
8202	Construction	-	-	-	-	3,500,080	-	-	-	3,500,080
8204	Contingency	-	-	-	-	300,000	-	-	-	300,000
8212	Land/Building Cost/Demolition	-	-	150,000	150,000	-	-	-	-	300,000
8226	Permits, Fees, Etc	-	-	50,000	50,000	-	-	-	-	100,000
8229	Professional Services	-	-	370,000	370,000	300,000	-	-	-	1,040,000
8232	Project Management	-	-	15,000	15,000	25,000	-	-	-	55,000
8235	Real Estate	-	-	5,000	5,000	-	-	-	-	10,000
9303	Public Art Fund	-	-	-	-	35,001	-	-	-	35,001
	<b>Total Expense</b>	-	-	\$590,000	\$590,000	\$4,160,081	-	-	-	\$5,340,081
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Distribution Line Extension & Oversizing

<b>Project Number:</b>	11087	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Construction	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060880010000011087
<b>Project Status:</b>	Funded		

### Description:

This program provides for reimbursement to developers for installing oversized pipe at the request of the City. The program can also fund extensions between completed subdivisions to improve the pipe network system. Oversizing reimbursement is anticipated for Lake Bluffs, Northridge, Cache, and Owl Ridge subdivisions.

### Discussion of Progress:

Annual program for development pipeline oversizing reimbursements.

### Justification:

Provides the means for the City to oversize pipes being installed by developers and to extend mains as necessary for the benefit of the entire system. Oversizing and main extensions are dependent upon development and master grid sizing plans. As a result, improved flow, pressure, and system reliability can be built into the future and existing distribution system. Overall cost to the developer is minimal and the City saves mobilization costs.

### Revenue Detail:

This program is in place to oversize water pipes in coordination with new development and extend pipes as needed to connect subdivisions. Expenditures are usually at least partially reimbursable to the developer.

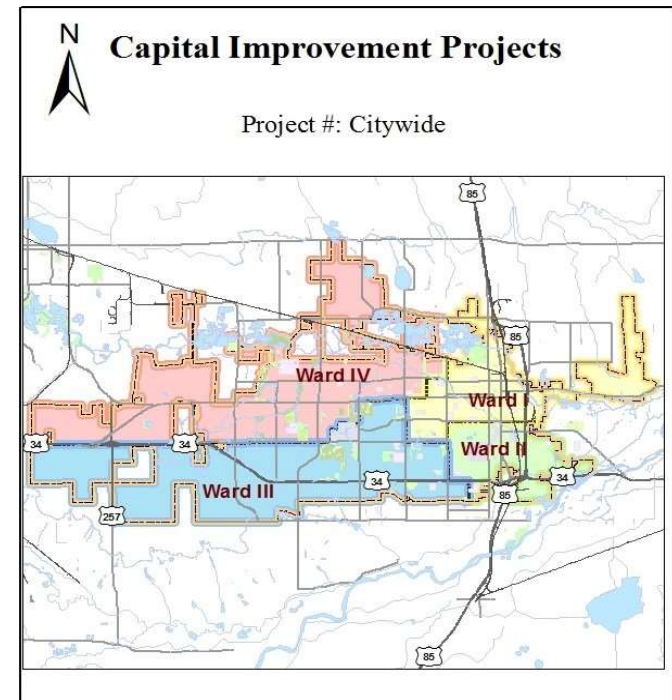
### Impact on Operating Budget:

Additional maintenance costs due to expanded system (offset by rate revenue from new customers).

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	515,117	78,467	-	154,210	161,280	161,280	163,300	165,320	1,398,974
4611	Plant Investment Fees	-	-	147,200	-	-	-	-	-	147,200
<b>Total Revenue</b>		<b>\$515,117</b>	<b>\$78,467</b>	<b>\$147,200</b>	<b>\$154,210</b>	<b>\$161,280</b>	<b>\$161,280</b>	<b>\$163,300</b>	<b>\$165,320</b>	<b>\$1,546,174</b>

Expense

8202	Construction	465,382	-	114,000	121,000	128,000	128,000	130,000	132,000	1,218,382
8208	Furniture, Fixtures & Equipment	647	-	-	-	-	-	-	-	647
8212	Land/Building Cost/Demolition	752	-	-	-	-	-	-	-	752
8224	Operating Supplies	33,709	-	6,000	6,000	6,000	6,000	6,000	6,000	69,709
8229	Professional Services	-	78,467	25,000	25,000	25,000	25,000	25,000	25,000	228,467
8232	Project Management	11,978	-	1,000	1,000	1,000	1,000	1,000	1,000	17,978
8233	Project Management - Benefits	250	-	-	-	-	-	-	-	250
9303	Public Art Fund	2,400	-	1,200	1,210	1,280	1,280	1,300	1,320	9,990
<b>Total Expense</b>		\$515,117	\$78,467	\$147,200	\$154,210	\$161,280	\$161,280	\$163,300	\$165,320	\$1,546,174
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



# Water Taps

<b>Project Number:</b>	11090	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Construction	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060880030000000000
<b>Project Status:</b>	Funded		

## Description:

The transmission/distribution crews construct taps on the water system lines for both its own operations and those required by new customers. Tapping valves and pipe related materials used for tap construction are purchased from the Inventory account. All applicable costs are included in this account to complete the tap (asphalt, flow fill, concrete, etc.)

## Discussion of Progress:

Ongoing annual program

## Justification:

The transmission/distribution crews construct taps on the water system lines for both its own operations and those required by new customers. Tapping valves and pipe related materials used for tap construction are purchased from the Inventory Budget account. All applicable costs are included in this account to complete the tap (asphalt, flow fill, concrete, etc.). Cost recovery is only applicable for taps constructed for customers.

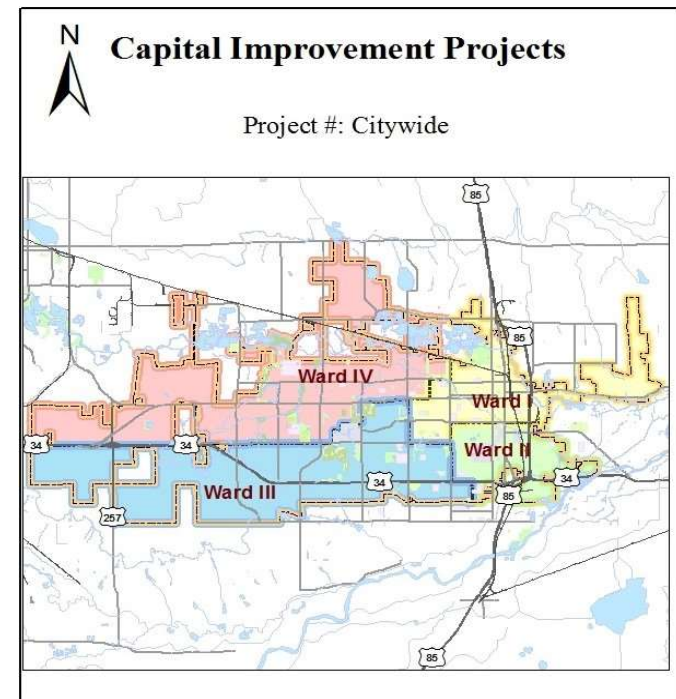
## Revenue Detail:

New customers = new water revenue

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	75,000	75,000	75,000	75,000	75,000	-
4461	New Meter Sales	227,513	129,744	-	-	-	-	-	-	357,257
4462	Large Meter Sales	188,225	71,939	-	-	-	-	-	-	260,164
4464	Labor & Materials	45,643	10,855	-	-	-	-	-	-	56,498
4611	Plant Investment Fees	12,381,073	6,181,890	75,000	-	-	-	-	-	18,637,963
4612	Public Improvement Fee	-	286,545	-	-	-	-	-	-	286,545
4613	Promontory PIF Surcharge	-	1,575	-	-	-	-	-	-	1,575
4786	Cash In Lieu/Warranty Bond	1,575	-	-	-	-	-	-	-	1,575
4789	Expense Reimbursement	405	385	-	-	-	-	-	-	790
5632	Rents From Equipment	464,470	204,634	-	-	-	-	-	-	669,104
<b>Total Revenue</b>		<b>\$13,308,904</b>	<b>\$6,887,566</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$20,271,471</b>

Expense

8202	Construction	-	-	10,000	10,000	10,000	10,000	10,000	10,000	60,000
8216	Miscellaneous	-	-	3,500	3,500	3,500	3,500	3,500	3,500	21,000
8224	Operating Supplies	38,062	473	61,500	61,500	61,500	61,500	61,500	61,500	407,534
8232	Project Management	9,813	-823	-	-	-	-	-	-	8,990
<b>Total Expense</b>		\$47,875	(\$350)	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$497,525
<b>Net Total</b>		\$13,261,030	\$6,887,916	-	-	-	-	-	-	\$19,773,946



## New Construction Meters

<b>Project Number:</b>	11089	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Construction	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060880020000011089
<b>Project Status:</b>	Funded		

### Description:

This program purchases new meters for resale to property owners or developers for new water service connections. To maintain quality and uniformity, the customer is required to purchase all system meters from the City. This is an on-going project.

### Discussion of Progress:

Ongoing annual program.

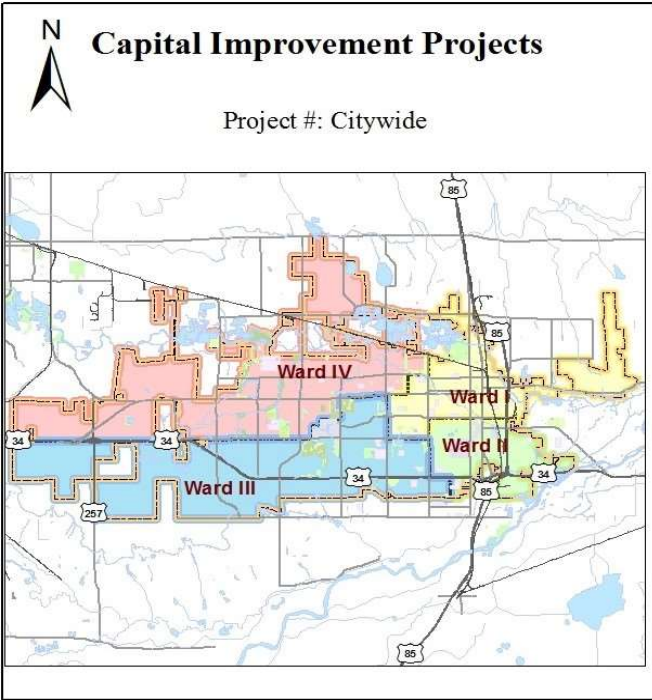
### Justification:

City ordinance requires a meter on every tap. The cost of new meters in this account is offset by the sale of these meters to customers. Providing meters to customers assures the proper meter is installed and compatible with our automated meter reading and billing system. The cost of each meter varies from \$200 to \$11,826, depending on the size of the meter.

### Revenue Detail:

New customers = new revenue sources

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	115,010	16,682	-	45,000	45,000	45,000	45,000	45,000	356,692
4611	Plant Investment Fees	-	-	45,000	-	-	-	-	-	45,000
<b>Total Revenue</b>		<b>\$115,010</b>	<b>\$16,682</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$401,692</b>
Expense										
8208	Furniture, Fixtures & Equipment	73,061	16,682	37,500	37,500	37,500	37,500	37,500	37,500	314,743
8224	Operating Supplies	41,949	-	2,000	2,000	2,000	2,000	2,000	2,000	53,949
8244	Capital Equipment >\$5,000	-	-	5,500	5,500	5,500	5,500	5,500	5,500	33,000
<b>Total Expense</b>		<b>\$115,010</b>	<b>\$16,682</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$401,692</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## Non-Potable Waterline

<b>Project Number:</b>	11379	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission &	<b>Regions:</b>	5- Outside City , 4 - 10 St North/23 Ave West
<b>Fund:</b>	Water Construction	<b>Location:</b>	83rd Ave
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4221060400510000011379
<b>Project Status:</b>	Funded		

### Description:

This overall non-potable project will construct new infrastructure to deliver water from the Poudre River to the Greeley-Loveland Irrigation Company ditch, and will secure options to purchase existing or potential gravel pits on the Lower Poudre near Greeley. This portion of the project is in the 83rd Avenue alignment. 2022 costs reflect initial conceptual design + full design of the portion being constructed in 2024 in-line with Public Works' road improvements in the area. Full construction in 26/27. Costs for 24 coincide with Public Works roadway work.

### Discussion of Progress:

Construction to start in 2026.

### Justification:

This non-potable Project will exchange reusable wastewater effluent into the gravel pits along with junior water storage rights in gravel pit reservoirs that can then be pumped back to the GLIC system for non-potable irrigation, or released to provide support for non-potable irrigation, exchanges, and augmentation.

Page 24 of 34

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	-	-	-	-	-	-	1,727,007	-	13,965,626	15,692,633
4611	Plant Investment Fees	-	-	600,000	-	-	-	-	-	-	600,000
<b>Total Revenue</b>		-	-	\$600,000	-	-	-	\$1,727,007	-	\$13,965,626	\$16,292,633
Expense											
8202	Construction	-	-	-	-	-	-	1,393,700	-	13,302,600	14,696,300
8204	Contingency	-	-	-	-	-	-	139,370	-	-	139,370
8226	Permits, Fees, Etc	-	-	-	-	-	-	-	-	200,000	200,000
8229	Professional Services	-	-	600,000	-	-	-	150,000	-	250,000	1,000,000
8232	Project Management	-	-	-	-	-	-	30,000	-	80,000	110,000
9303	Public Art Fund	-	-	-	-	-	-	13,937	-	133,026	146,963
<b>Total Expense</b>		-	-	\$600,000	-	-	-	\$1,727,007	-	\$13,965,626	\$16,292,633
<b>Net Total</b>		-	-	-	-	-	-	-	-	-	-

## 35th Ave Non-Potable Waterline

<b>Project Number:</b>	11091	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	4 - 10 St North/23 Ave West
<b>Fund:</b>	Water Construction	<b>Location:</b>	35th Ave
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	4221060890120000011091
<b>Project Status:</b>	Funded		

### Description:

This is phase two to install a 24" non-potable pipe as part of the 35th Avenue Street Widening project by Public Works. This will avoid street cuts and a higher cost in the future. The pipeline is in accordance with the non-potable master plan.

### Discussion of Progress:

Phase 1, from the GIC Ditch #3 north to the railroad tracks, will be completed in 2021. Phase 2, from the railroad tracks north to the Poudre Ponds pump station, will be constructed with 35th Avenue improvements.

### Justification:

The pipeline is in accordance with the non-potable master plan to pump water from the Poudre Ponds to the GIC #3 and enhance future augmentation. The line will also be able to gravity flow water from the GIC #3 to the Poudre Ponds.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	864,893	708,898	-	2,007,501	-	-	-	3,581,292
	<b>Total Revenue</b>	-	\$864,893	\$708,898	-	\$2,007,501	-	-	-	\$3,581,292
Expense										
8202	Construction	-	845,789	708,898	-	1,771,288	-	-	-	3,325,975
8204	Contingency	-	-	-	-	172,500	-	-	-	172,500
8229	Professional Services	-	19,104	-	-	-	-	-	-	19,104
8232	Project Management	-	-	-	-	46,000	-	-	-	46,000
9303	Public Art Fund	-	-	-	-	17,713	-	-	-	17,713
	<b>Total Expense</b>	-	\$864,893	\$708,898	-	\$2,007,501	-	-	-	\$3,581,292
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## 35th Ave Waterline Extension

<b>Project Number:</b>	11092	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	4 - 10 St North/23 Ave West
<b>Fund:</b>	Water Construction	<b>Location:</b>	35th Ave
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060880050000011092
<b>Project Status:</b>	Funded		

### Description:

This project is for water pipeline to be installed in advance of City and County roadway projects along 35th Avenue. This will be constructed in 2021 and will be approximately 1,500 l.f. of 16" pipeline.

### Discussion of Progress:

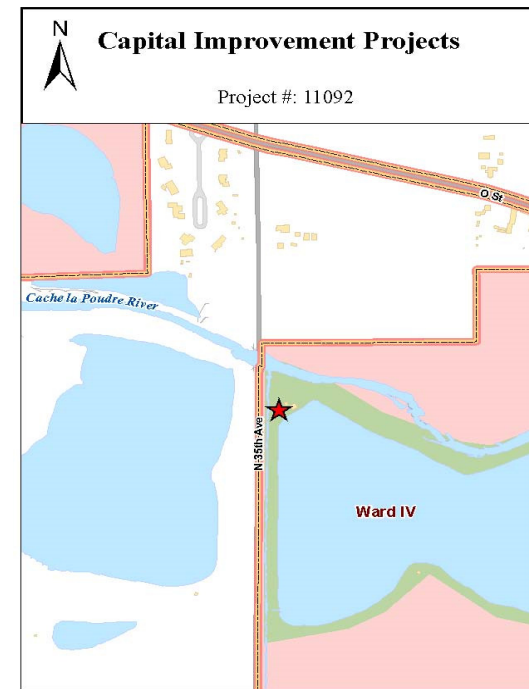
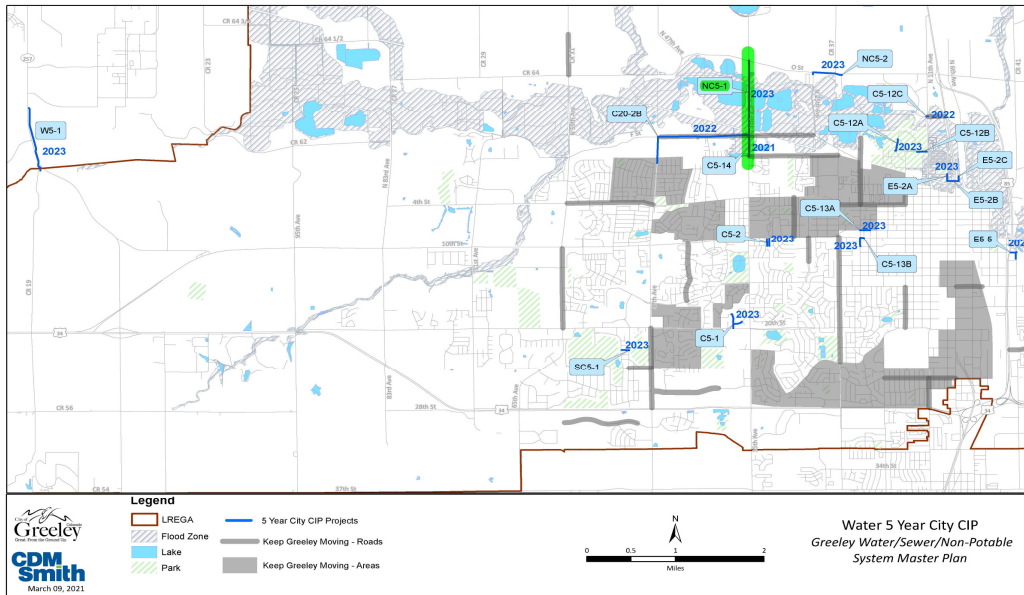
Planning to start in 2024 with construction in 2025.

### Justification:

Installing this pipeline at this time will avoid future conflict with the 35th Avenue Roadway project, save money, and reduce impacts to residents.

Page 27 of 34

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	530,326	30,931	-	115,000	2,817,100	-	-	3,493,357
	<b>Total Revenue</b>	-	\$530,326	\$30,931	-	\$115,000	\$2,817,100	-	-	\$3,493,357
Expense										
8202	Construction	-	523,326	30,931	-	-	2,210,000	-	-	2,764,257
8204	Contingency	-	-	-	-	-	360,000	-	-	360,000
8229	Professional Services	-	7,000	-	-	100,000	200,000	-	-	307,000
8232	Project Management	-	-	-	-	15,000	25,000	-	-	40,000
9303	Public Art Fund	-	-	-	-	-	22,100	-	-	22,100
	<b>Total Expense</b>	-	\$530,326	\$30,931	-	\$115,000	\$2,817,100	-	-	\$3,493,357
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## O St Waterline Extension 23rd-25th

<b>Project Number:</b>	N730	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Construction	<b>Location:</b>	O St 23rd-25th Ave, Greeley CO 80631
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

### Description:

Install 16" Waterline along "O" Street between 23rd and 25th Avenues. This project is driven by Public Works street improvements along O St. Risks associated with the project: Public Works cancelling the street improvements along O St and the waterline not needed, risk of pipe damage by road construction equipment after pipe installed.

### Discussion of Progress:

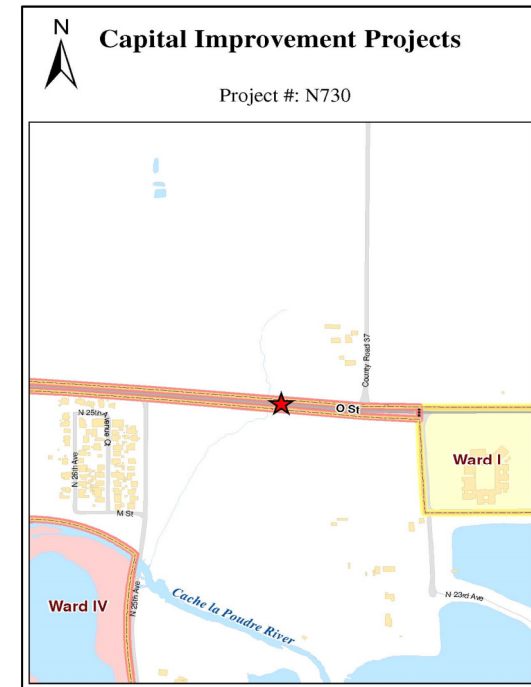
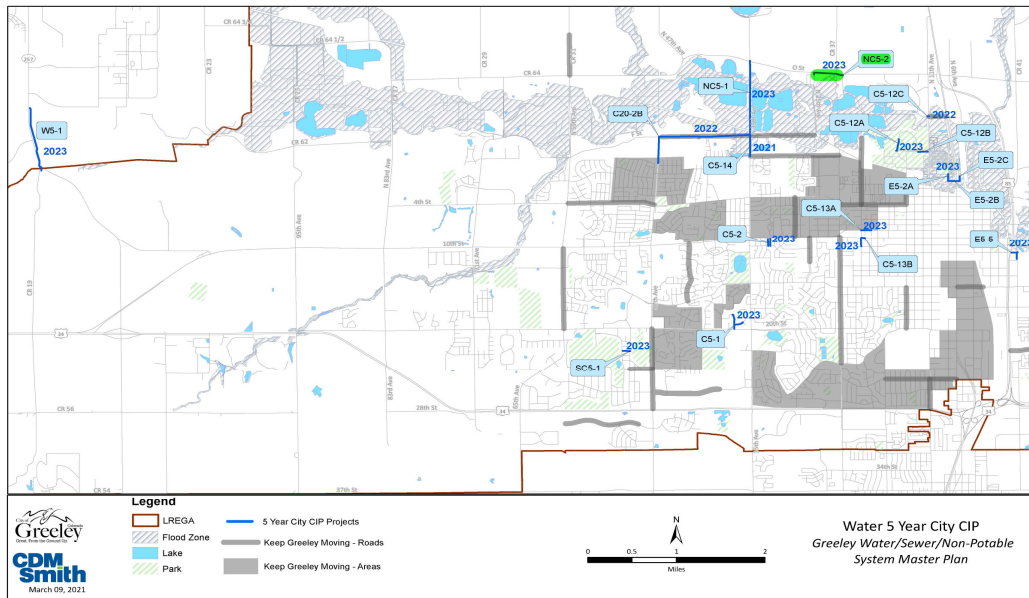
Design in 2024 with construction in 2025.

### Justification:

Connect distribution grid prior to new street construction.

Page 29 of 34

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	125,000	687,820	-	-	812,820
	<b>Total Revenue</b>	-	-	-	-	\$125,000	\$687,820	-	-	\$812,820
Expense										
8202	Construction	-	-	-	-	-	582,000	-	-	582,000
8204	Contingency	-	-	-	-	-	85,000	-	-	85,000
8212	Land/Building Cost/Demolition	-	-	-	-	50,000	-	-	-	50,000
8229	Professional Services	-	-	-	-	60,000	-	-	-	60,000
8232	Project Management	-	-	-	-	10,000	15,000	-	-	25,000
8235	Real Estate	-	-	-	-	5,000	-	-	-	5,000
9303	Public Art Fund	-	-	-	-	-	5,820	-	-	5,820
	<b>Total Expense</b>	-	-	-	-	\$125,000	\$687,820	-	-	\$812,820
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Bellvue Pipeline-Gold Hill Segment

<b>Project Number:</b>	11219	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Construction	<b>Location:</b>	South of Windsor
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4221060880050000011219
<b>Project Status:</b>	Funded		

### Description:

This project is the Design and Construction of the Gold Hill Segment of the 60" Bellvue Transmission Main. It is approximately 3 miles long and will extend along HWY 257 from the Poudre River in Windsor south to Gold Hill. Final route selection, permit and easement acquisition, design and construction will be part of this multi-year project. The first Phase of construction is currently planned in 2024 and 2025 would be to complete the Windsor Phase of approximately 4000 feet of pipe installation and a HWY 257 crossing to install pipe in advance of expected development in that area.

### Discussion of Progress:

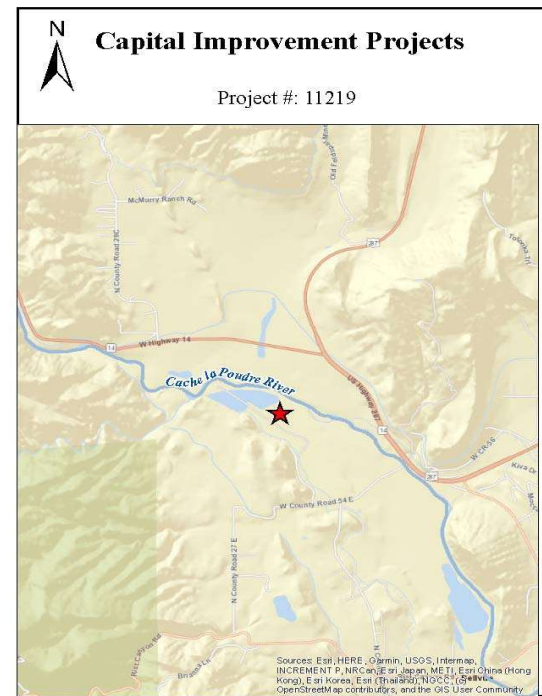
Route selection is complete for final 3 miles. Easement acquisition is complete for the Windsor Phase and underway for the final 2 miles. Providence Infrastructure was selected in August 2019 for Engineering Design of the first phase of the Gold Hill Segment to be called Windsor Phase. Construction is currently on hold until 2024.

### Justification:

To secure Greeley's water future, the 2003 Water Master Plan instituted a policy to expand the transmission system when demand reaches 90% of system capacity. The 60" transmission pipeline is being constructed in multiple segments over several years to connect the Bellvue Water Treatment Plant to customers in Greeley. As of September 2017, 25 of the total 28 miles are complete. The 3-mile Gold Hill Segment will be the final Phase of the project.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	551,516	502	-	85,000	5,166,000	7,749,000	7,815,000	40,000	21,407,018
	<b>Total Revenue</b>	\$551,516	\$502	-	\$85,000	\$5,166,000	\$7,749,000	\$7,815,000	\$40,000	\$21,407,018
Expense										
8202	Construction	-	-	-	-	4,600,000	6,900,000	7,000,000	-	18,500,000
8204	Contingency	-	-	-	-	400,000	700,000	700,000	-	1,800,000
8212	Land/Building Cost/Demolition	164,389	-	-	25,000	-	-	-	-	189,389
8226	Permits, Fees, Etc	-	-	-	20,000	-	10,000	10,000	-	40,000
8229	Professional Services	300,807	502	-	25,000	75,000	25,000	25,000	15,000	466,309
8232	Project Management	51,520	-	-	10,000	40,000	45,000	10,000	25,000	181,520
8233	Project Management - Benefits	14,800	-	-	-	-	-	-	-	14,800
8235	Real Estate	-	-	-	5,000	5,000	-	-	-	10,000
9303	Public Art Fund	20,000	-	-	-	46,000	69,000	70,000	-	205,000
	<b>Total Expense</b>	\$551,516	\$502	-	\$85,000	\$5,166,000	\$7,749,000	\$7,815,000	\$40,000	\$21,407,018
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-





## EFI Pump Station Installation

<b>Project Number:</b>	A616	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Construction Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Construction	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	4221060000000000000000
<b>Project Status:</b>	Funded		

### Description:

Site location and Design for the Installation of an existing self-contained pre-fabricated water pump station. Design and construction will include site work for suction and discharge piping, foundation plan, and electrical/SCADA systems. Further hydraulic analysis will be needed for use as a backup water supply for the Bellvue plant or at 83rd Ave 28th St; Additional construction costs include the assumption of upgrading the pumps and fittings for NSF compliance.

### Justification:

This Pump Station will provide additional flow and pressure to a specific region within the transmission and distribution system deemed by the Water & Sewer Department

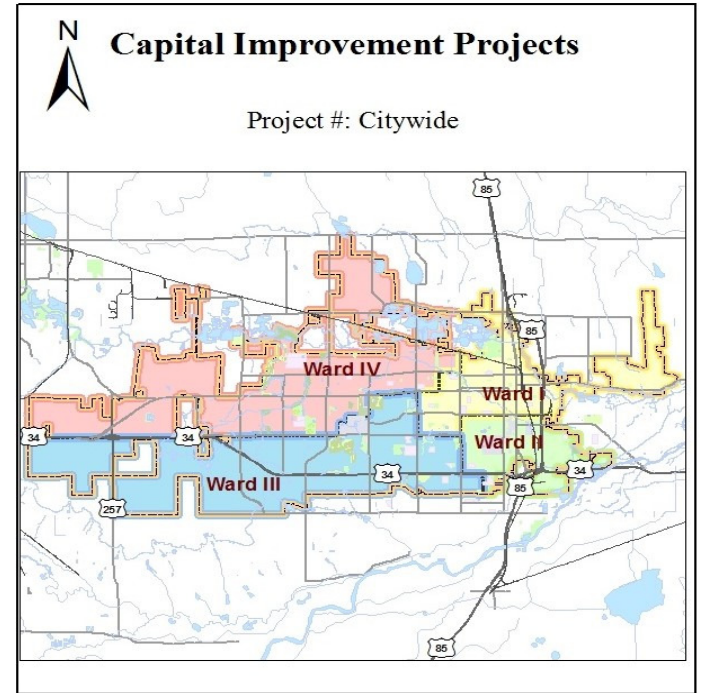
Page 33 of 34

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	65,000	-	-	-	-	65,000
	<b>Total Revenue</b>	-	-	-	\$65,000	-	-	-	-	\$65,000
Expense										
8229	Professional Services	-	-	-	55,000	-	-	-	-	55,000
8232	Project Management	-	-	-	5,000	-	-	-	-	5,000
8242	Utility Services	-	-	-	5,000	-	-	-	-	5,000
	<b>Total Expense</b>	-	-	-	\$65,000	-	-	-	-	\$65,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



- NOTES:
1. PROPERTY LINE LOCATIONS ARE APPROXIMATE.
  2. OWNER INFORMATION IS APPROXIMATED BASED ON BEST AVAILABLE INFORMATION FROM WELD/LARIMER COUNTIES

olsson	
GREELEY PUMP STATION LOCATION EVALUATION	
28TH STREET & 83RD AVENUE	
GREELEY, CO	
Project No.	0284
Revision No.	0001
Date	06/04/2021
Drawn By	0001
Check By	0001
FIGURE	8 OF 8





## **Fund 423**

# **Water Capital Replacement**

## Milton Seaman Outlet Works

<b>Project Number:</b>	11225	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Milton Seaman Reservoir
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890160000011225
<b>Project Status:</b>	Funded		

### Description:

Complete design and construction of replacement outlet gates and engineering evaluation to determine if a multi-outlet tower can be intergrated at a later time to the proposed design of the outlet gates replacement project.

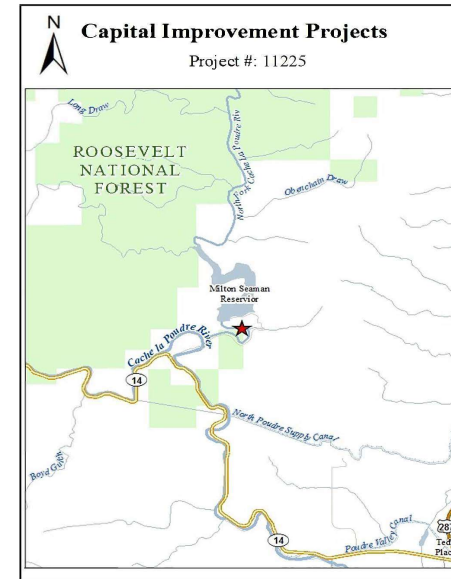
### Discussion of Progress:

An engineering evaluation of alternatives and preliminary design to replace the original reservoir outlet gates was completed in 2017. Met with AECOM in February 2022 to discuss scope for additional study for integrating a multi-tower inlet.

### Justification:

The original gates have withstood over 60 years of submergence in an anaerobic condition. The cast iron gate leaf seal channels have corroded and eroded to the point of compromising the brass seals allowing about 9 acre-feet/day to leak past the gates. This water is lost and can not be credited to our account.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	286,853	-	-	-	225,000	5,300,600	-	-	5,812,453
	<b>Total Revenue</b>	\$286,853	-	-	-	\$225,000	\$5,300,600	-	-	\$5,812,453
Expense										
8202	Construction	93,684	-	-	-	-	4,746,000	-	-	4,839,684
8204	Contingency	-	-	-	-	-	474,600	-	-	474,600
8216	Miscellaneous	26	-	-	-	-	-	-	-	26
8226	Permits, Fees, Etc	-	-	-	-	10,000	-	-	-	10,000
8229	Professional Services	184,602	-	-	-	200,000	40,000	-	-	424,602
8232	Project Management	8,541	-	-	-	15,000	40,000	-	-	63,541
	<b>Total Expense</b>	\$286,853	-	-	-	\$225,000	\$5,300,600	-	-	\$5,812,453
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Non-Potable Replacement Rehabilitation

<b>Project Number:</b>	11107	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890120000011107
<b>Project Status:</b>	Funded		

### Description:

This item funds replacement or rehabilitation of non-potable pumps, piping, ponds, and related equipment, as well as expanding sites we currently have to add new customers. This is an on-going project.

### Discussion of Progress:

Ongoing effort.

### Justification:

Efficient economic operation of this program requires ongoing rehabilitation and replacement of features such as pumps, motors, controls, Supervisory Control and Data Acquisition (SCADA) equipment, pressure reducing valves, buildings and piping. Adding new HOAs, schools, parks and other customers to our existing sites to meet City Council's priority to develop more non-potable usage. Our goal is to add 3-4 new customers a year with this.

### Impact on Operating Budget:

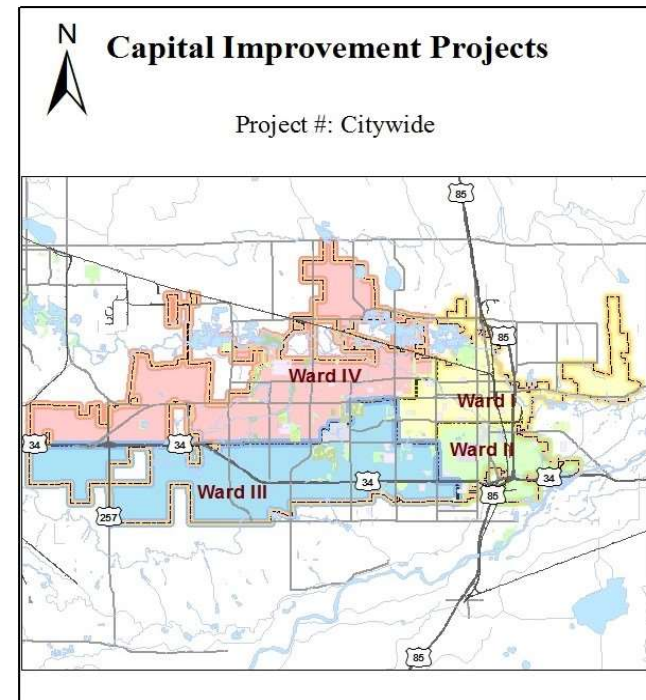
The non-potable division has taken on assets that were being maintained by Parks. The electric budget in operating has increased to account for the increased pumping capacity.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	531,708	34,243	-	1,160,000	536,000	2,188,000	270,000	285,000	295,000	5,299,951
4787	Other	-	-	1,275,000	-	-	-	-	-	-	1,275,000
<b>Total Revenue</b>		<b>\$531,708</b>	<b>\$34,243</b>	<b>\$1,275,000</b>	<b>\$1,160,000</b>	<b>\$536,000</b>	<b>\$2,188,000</b>	<b>\$270,000</b>	<b>\$285,000</b>	<b>\$295,000</b>	<b>\$6,574,951</b>



Expense

8202	Construction	261,350	12,923	835,000	829,000	381,000	1,601,000	190,000	200,000	205,000	4,515,273
8204	Contingency	-	-	45,000	110,500	59,000	234,000	31,000	33,000	35,000	547,500
8212	Land/Building	-	-	100,000	-	-	-	-	-	-	100,000
8216	Miscellaneous	121,891	-	15,000	20,000	-	-	-	-	-	156,891
8224	Operating Supplies	184,492	-	100,000	-	-	-	-	-	-	284,492
8229	Professional Services	-45,075	9,120	150,000	106,500	38,000	261,000	25,000	25,000	25,000	594,545
8232	Project Management	634	12,200	30,000	28,000	8,000	41,000	-	-	-	119,834
8242	Utility Services	-	-	-	31,000	32,000	30,000	-	-	-	93,000
8244	Capital Equipment >\$5,000	8,416	-	-	35,000	18,000	21,000	24,000	27,000	30,000	163,416
<b>Total Expense</b>		<b>\$531,708</b>	<b>\$34,243</b>	<b>\$1,275,000</b>	<b>\$1,160,000</b>	<b>\$536,000</b>	<b>\$2,188,000</b>	<b>\$270,000</b>	<b>\$285,000</b>	<b>\$295,000</b>	<b>\$6,574,951</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## Risk and Resiliency Projects

<b>Project Number:</b>	11108	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City , 1- 16 St North/35 Ave East
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Multiple Water System Sites
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	4231060890150000011108
<b>Project Status:</b>	Funded		

### Description:

A Risk & Resiliency Assessment (RRA) was completed in March of 2020 by the City of Greeley and Merrick & Company to considers man-made hazards, natural hazards, and dependency hazards (interruptions of supply chains or proximity to dangerous sites). Threat characterization was also performed to identify general and specific threat scenarios to serve as reference threats to Greeley's water system. The projects identified in this budget had some of the higher systems threads and consequences to the water system that will be mitigated with this project.

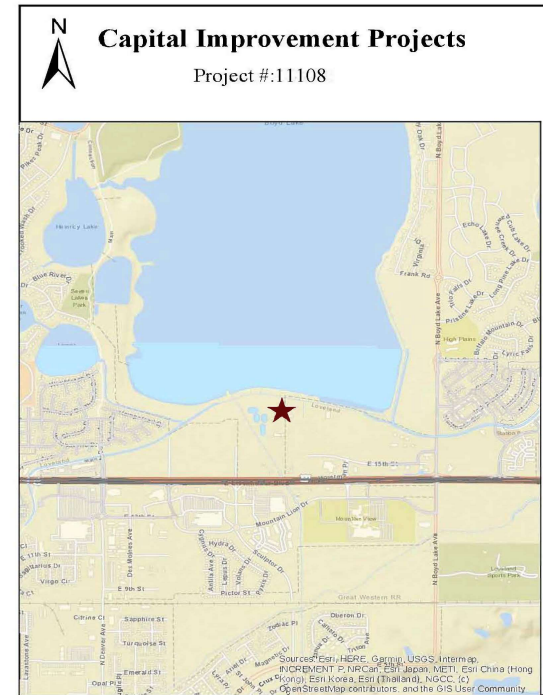
### Discussion of Progress:

Completing projects identified in 2021 study.

### Justification:

A Risk & Resiliency Assessment (RRA) was completed in March of 2020 by the City of Greeley and Merrick & Company to considers man-made hazards, natural hazards, and dependency hazards (interruptions of supply chains or proximity to dangerous sites). Threat characterization was also performed to identify general and specific threat scenarios to serve as reference threats to Greeley's water system. The projects identified in this budget had some of the higher systems threads and consequences to the water system that will be mitigated with this project. Projects include site security, access control to the facilities, fencing, and other projects identified by the RRA.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	134,200	315,200	164,500	335,000	175,500	-	1,124,400
4787	Other	-	-	349,940	-	-	-	-	-	349,940
	<b>Total Revenue</b>	-	-	<b>\$484,140</b>	<b>\$315,200</b>	<b>\$164,500</b>	<b>\$335,000</b>	<b>\$175,500</b>	-	<b>\$1,474,340</b>
Expense										
8202	Construction	-	-	329,800	282,000	145,000	300,000	155,000	-	1,211,800
8204	Contingency	-	-	29,340	28,200	14,500	30,000	15,500	-	117,540
8232	Project Management	-	-	5,000	5,000	5,000	5,000	5,000	-	25,000
8244	Capital Equipment >\$5,000	-	-	120,000	-	-	-	-	-	120,000
	<b>Total Expense</b>	-	-	<b>\$484,140</b>	<b>\$315,200</b>	<b>\$164,500</b>	<b>\$335,000</b>	<b>\$175,500</b>	-	<b>\$1,474,340</b>
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Ancillary System Improvements

<b>Project Number:</b>	11102	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890070000011102
<b>Project Status:</b>	Funded		

### Description:

This program provides contributions for capital repairs of irrigation ditches and pumping systems of which the City is part owner.

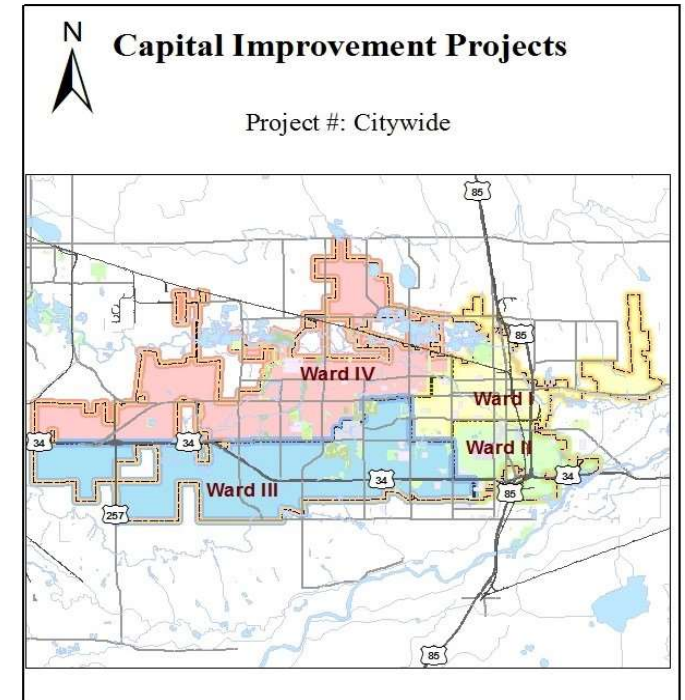
### Discussion of Progress:

Ongoing annual program

### Justification:

As a part owner of various irrigation ditches, the department has the responsibility to participate in the cost and maintenance of aging ditch and lateral infrastructure.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	603,102	2,030	-	50,000	50,000	50,000	50,000	50,000	855,132
4787	Other	-	-	50,000	-	-	-	-	-	50,000
5801	Sales Of Fixed Assets	-14,306	-	-	-	-	-	-	-	-14,306
<b>Total Revenue</b>		<b>\$588,796</b>	<b>\$2,030</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$890,826</b>
Expense										
8202	Construction	581,582	2,030	50,000	50,000	50,000	50,000	50,000	50,000	883,612
8216	Miscellaneous	276	-	-	-	-	-	-	-	276
8224	Operating Supplies	490	-	-	-	-	-	-	-	490
8229	Professional Services	1,055	-	-	-	-	-	-	-	1,055
8232	Project Management	5,393	-	-	-	-	-	-	-	5,393
<b>Total Expense</b>		<b>\$588,796</b>	<b>\$2,030</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$890,826</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Bellvue Intake Maintenance Phase 2

<b>Project Number:</b>	A307	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Bellvue Water Treatment Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890080000000000
<b>Project Status:</b>	Funded		

### Description:

This project will repair damages to the Bellvue raw water intake (including patching exposed rebar in the weir, resurfacing the weir, and replacing a failing retaining wall) that were identified during construction of the 2017 maintenance project.

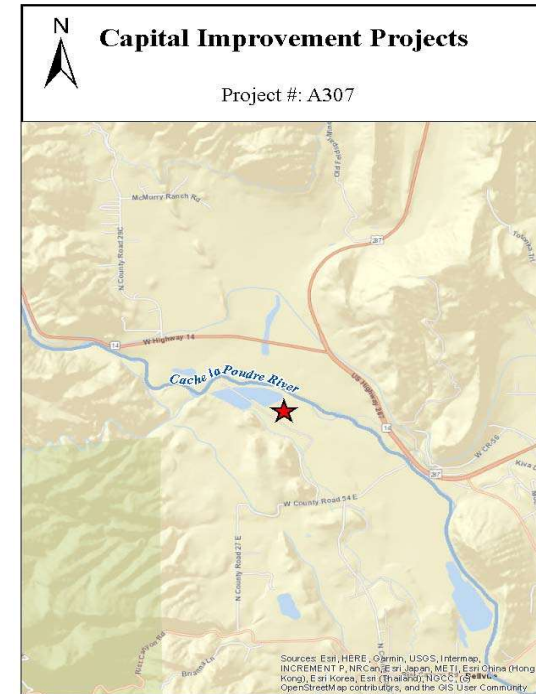
### Discussion of Progress:

Design was completed for Phase 2 in 2019. Construction has been pushed back to 2027 due to higher priority needs in the capital program.

### Justification:

Without this project, the damage to the weir and downstream retaining wall will continue to grow; the repair will be more extensive; and the repair costs will be more expensive.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	13,907	-	-	-	-	-	-	8,255,000	120,000	8,388,907
	<b>Total Revenue</b>	\$13,907	-	-	-	-	-	-	\$8,255,000	\$120,000	\$8,388,907
Expense											
8202	Construction	-	-	-	-	-	-	-	3,000,000	-	3,000,000
8204	Contingency	-	-	-	-	-	-	-	5,000,000	-	5,000,000
8216	Miscellaneous	-	-	-	-	-	-	-	100,000	-	100,000
8226	Permits, Fees, Etc	-	-	-	-	-	-	-	10,000	-	10,000
8229	Professional Services	12,379	-	-	-	-	-	-	100,000	75,000	187,379
8232	Project Management	1,528	-	-	-	-	-	-	45,000	45,000	91,528
	<b>Total Expense</b>	\$13,907	-	-	-	-	-	-	\$8,255,000	\$120,000	\$8,388,907
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-	-





## Suburban Ditch Non-Potable Replacement

<b>Project Number:</b>	11110	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	2- 16 St South/23 Ave East
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Suburban Ditch Reservoir Road
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060890120000011110
<b>Project Status:</b>	Funded		

### Description:

Replace a 1961 irrigation line due to it deteriorating to a point it is becoming unusable. In some sections the tree roots are so large that the sections have to be dug up and replaced. Many of the sections could not be videoed due to tree roots and obstructions. Currently serves UNC, Cottonwood and Glenmere Park. Future service is estimated at 90 acres if the capacity is available.

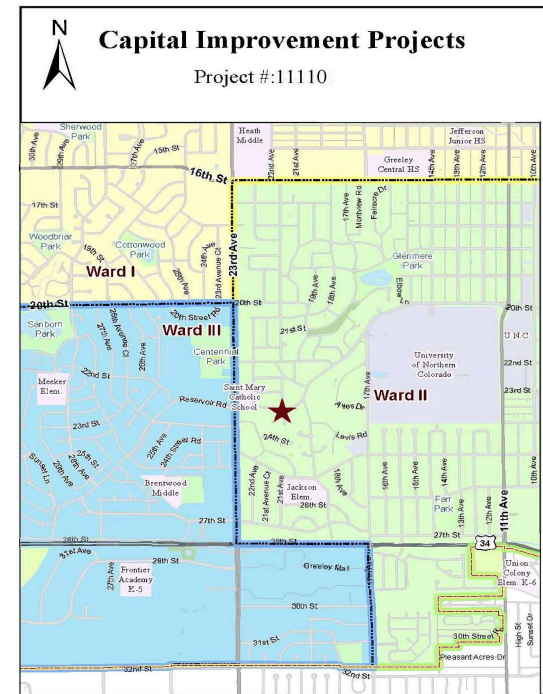
### Discussion of Progress:

Construction starts in 2023.

### Justification:

This line is essential for the City of Greeley, UNC and Alles Acres. The line loses approximately 300 AF per year. The annual maintenance and repair costs increase each year.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	25,000	1,295,420	1,373,005	1,455,186	-	-	4,148,611
4787	Other	-	-	150,000	-	-	-	-	-	150,000
<b>Total Revenue</b>		-	-	\$175,000	\$1,295,420	\$1,373,005	\$1,455,186	-	-	\$4,298,611
Expense										
8202	Construction	-	-	-	1,170,000	1,240,200	1,314,612	-	-	3,724,812
8204	Contingency	-	-	-	106,420	112,805	119,574	-	-	338,799
8229	Professional Services	-	-	175,000	-	-	-	-	-	175,000
8232	Project Management	-	-	-	19,000	20,000	21,000	-	-	60,000
<b>Total Expense</b>		-	-	\$175,000	\$1,295,420	\$1,373,005	\$1,455,186	-	-	\$4,298,611
<b>Net Total</b>		-	-	-	-	-	-	-	-	-





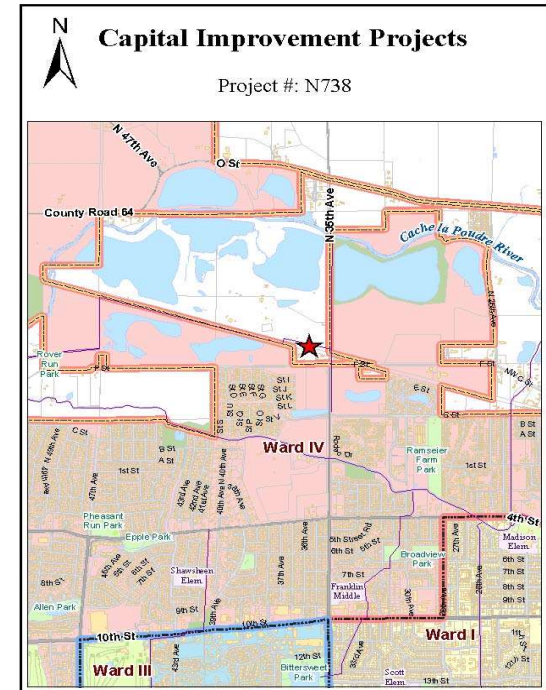
## Boyd Freeman Ditch Improvements

<b>Project Number:</b>	N738	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Freeman Ditch - west of 35th Avenue
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

The Boyd Freeman Ditch is the primary source of water to fill the Poudre Ponds. The ponds are used for augmentation and downstream return flow obligations. The ponds are important components and assets of the Greeley's raw water system. The 2016 Repairs to Boyd Freeman involved the installation of an inverted syphon, the syphon since has failed twice. There are capacity restrictions in the ditch limiting the capacity to approximately 10 CFS. Eventually, 50 CFS is needed. Approximately 2,000 feet of open ditch needs to be enlarged and 1,100 feet of 18" culvert needs to be replaced with 36" pipe. Phase 1 is to widen the existing open ditch, Phase 2 is to replace the 18" culvert and Phase 3 is to replace the syphon.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	918,000	482,000	544,000	-	1,944,000
	<b>Total Revenue</b>	-	-	-	-	\$918,000	\$482,000	\$544,000	-	\$1,944,000
Expense										
8202	Construction	-	-	-	-	813,000	407,000	457,500	-	1,677,500
8204	Contingency	-	-	-	-	60,000	30,000	41,500	-	131,500
8229	Professional Services	-	-	-	-	30,000	30,000	30,000	-	90,000
8232	Project Management	-	-	-	-	15,000	15,000	15,000	-	45,000
	<b>Total Expense</b>	-	-	-	-	\$918,000	\$482,000	\$544,000	-	\$1,944,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Lake Loveland Tower Cover

<b>Project Number:</b>	N669	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Lake Loveland
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

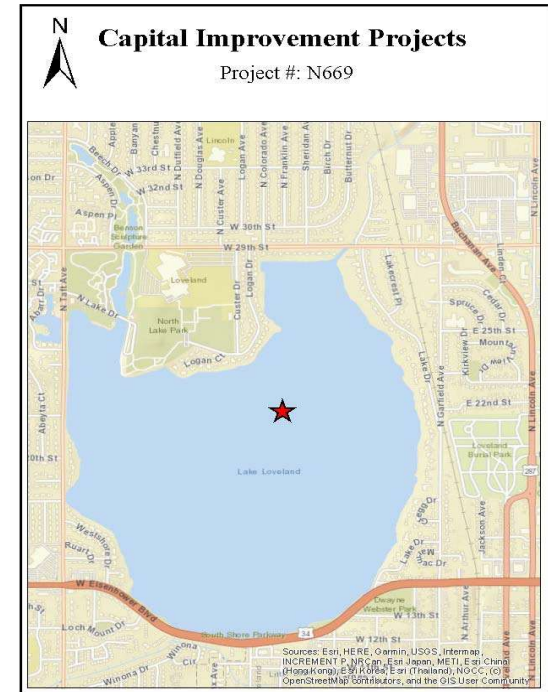
### Description:

Remove and replace 1 fiberglass cover over the Lake Loveland intake tower.

### Justification:

The existing cover is part of the original equipment installed in 1967. The current cover is failing from age. The failure of this cover will expose electrical equipment that was recently replaced inside.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	270,000	-	270,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$270,000	-	\$270,000
Expense										
8202	Construction	-	-	-	-	-	-	150,000	-	150,000
8204	Contingency	-	-	-	-	-	-	100,000	-	100,000
8232	Project Management	-	-	-	-	-	-	20,000	-	20,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$270,000	-	\$270,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## SCADA Upgrades High Mountain Reservoirs

<b>Project Number:</b>	N621	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	High Mountain Reservoirs
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

### Description:

Anticipate upgrading SCADA for the high mountain reservoirs to meet upgraded regulations required by state engineer's office.

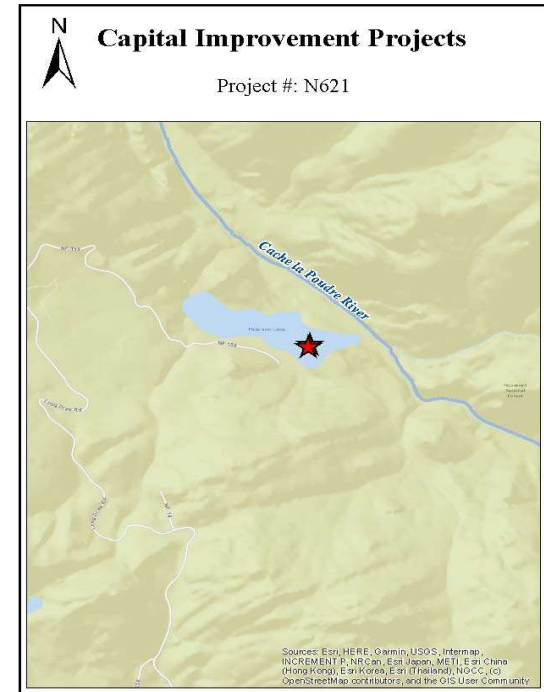
### Discussion of Progress:

Project planned to start in 2023.

### Justification:

Given how remote Greeley's high mountain reservoirs are, SCADA upgrades are critical to ensure that these high-hazard dams continue to operate safely

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	124,000	131,200	138,000	-	-	393,200
	<b>Total Revenue</b>	-	-	-	\$124,000	\$131,200	\$138,000	-	-	\$393,200
Expense										
8202	Construction	-	-	-	100,000	106,000	112,000	-	-	318,000
8204	Contingency	-	-	-	10,000	10,600	11,000	-	-	31,600
8229	Professional Services	-	-	-	10,000	10,600	11,000	-	-	31,600
8232	Project Management	-	-	-	4,000	4,000	4,000	-	-	12,000
	<b>Total Expense</b>	-	-	-	\$124,000	\$131,200	\$138,000	-	-	\$393,200
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Peterson Reservoir Spillway Abutment Repair

<b>Project Number:</b>	A642	<b>Budget Year:</b>	2023
<b>Division:</b>	Depreciation	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Peterson Reservoir
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4231060000000000000000
<b>Project Status:</b>	Funded		

### Description:

Repair deteriorating abutements

### Discussion of Progress:

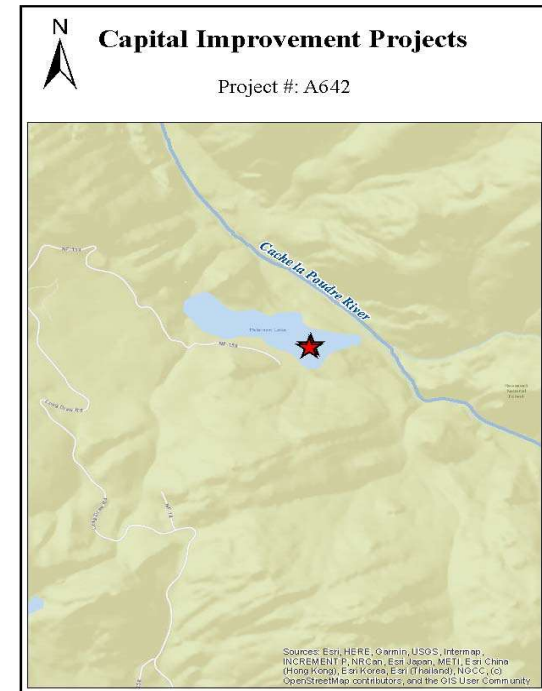
Project in planning for 2024

### Justification:

Required by State Engineers Office

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	200,500	-	-	-	200,500
	<b>Total Revenue</b>	-	-	-	-	\$200,500	-	-	-	\$200,500
Expense										
8202	Construction	-	-	-	-	145,000	-	-	-	145,000
8204	Contingency	-	-	-	-	14,500	-	-	-	14,500
8229	Professional Services	-	-	-	-	29,000	-	-	-	29,000
8232	Project Management	-	-	-	-	12,000	-	-	-	12,000
	<b>Total Expense</b>	-	-	-	-	\$200,500	-	-	-	\$200,500
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-





# Non-Potable Water Master Plan Update

<b>Project Number:</b>	423New	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

Master plan for planning project needs in the future for the City's two water plants.

## Discussion of Progress:

Planned for 2025.

## Justification:

Maintain an up to date Master Plan for prioritizing capital improvements for the existing and expanding system. The non-potable system reduces demand for treated water.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	325,000	-	-	325,000
	<b>Total Revenue</b>	-	-	-	-	-	\$325,000	-	-	\$325,000
Expense										
8204	Contingency	-	-	-	-	-	50,000	-	-	50,000
8229	Professional Services	-	-	-	-	-	250,000	-	-	250,000
8232	Project Management	-	-	-	-	-	25,000	-	-	25,000
	<b>Total Expense</b>	-	-	-	-	-	\$325,000	-	-	\$325,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Boyd WTP Process Improvements

<b>Project Number:</b>	11226	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890110000011226
<b>Project Status:</b>	Funded		

### Description:

Design & construct improvements to enable the plant to operate during winter, improve water quality with additional contact time with powder activated carbon, better interaction of treatment chemicals, and replacement of significantly aging electrical infrastructure.

### Discussion of Progress:

Carollo has completed the and provided the stamped issued for construction drawings. Hydro Construction started construction in the winter of 2020 of the new chemical building and replacement of the incoming power switch gear. The construction is expected to be completed in the spring of 2022.

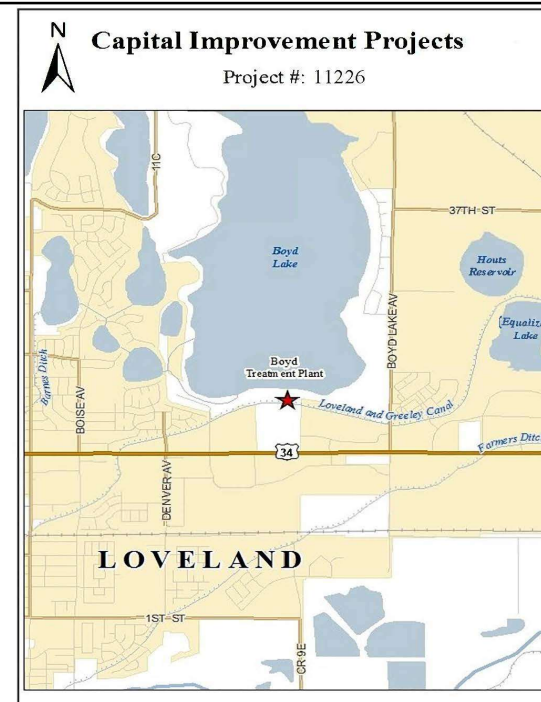
### Justification:

The plant is inoperable during the winter. If the 2013 flood would have compromised both transmission lines instead of one, shutting Bellvue down for 6 months, Boyd would not have been able to sustain operations once freezing weather set in. Emergency interconnects for short durations are reliant on unused capacity at the time of other purveyors. The proposed improvements will improve water quality, operations costs, and winterization of the plant for essential infrastructure. The improvements would include a new chemical building and piping, and future treatment process upgrades.

### Impact on Operating

Will result in increased operations and maintenance at plant when goal of year-round operation is reached.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	7,622,891	4,033,981	2,359,368	-	-	-	-	4,625,000	12,450,000	31,091,239
4789	Expense	11,600	-	-	-	-	-	-	-	-	11,600
5761	Rebates	11,600	-	-	-	-	-	-	-	-	11,600
5902	Bond Proceeds	-	-	2,776,000	-	-	-	-	-	-	2,776,000
<b>Total Revenue</b>		<b>\$7,646,091</b>	<b>\$4,033,981</b>	<b>\$5,135,368</b>	-	-	-	-	<b>\$4,625,000</b>	<b>\$12,450,000</b>	<b>\$33,890,439</b>
Expense											
8202	Construction	5,671,074	3,791,702	4,509,368	-	-	-	-	4,000,000	12,000,000	29,972,145
8204	Contingency	100,062	61,353	250,000	-	-	-	-	250,000	-	661,415
8216	Miscellaneous	104	-	1,000	-	-	-	-	-	-	1,104
8224	Operating Supplies	72	-	-	-	-	-	-	-	-	72
8229	Professional Services	1,813,410	180,925	325,000	-	-	-	-	325,000	350,000	2,994,335
8232	Project Management	61,369	-	50,000	-	-	-	-	50,000	100,000	261,369
<b>Total Expense</b>		<b>\$7,646,091</b>	<b>\$4,033,981</b>	<b>\$5,135,368</b>	-	-	-	-	<b>\$4,625,000</b>	<b>\$12,450,000</b>	<b>\$33,890,439</b>
<b>Net Total</b>		-	-	-	-	-	-	-	-	-	-



## Boyd Sedimentation Basin Repair

<b>Project Number:</b>	11386	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Lake Water Treatment Plant, 3119 E Eisenhower Blvd, Loveland, CO 80537
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060400070000011386
<b>Project Status:</b>	Funded		

### Description:

Repair of the concrete sedimentation basin at the Boyd Lake water treatment plant. This includes resurfacing of the concrete walls and re sloping the concrete floor for proper drainage.

### Discussion of Progress:

Started in 2022 with further work postponed till 2026.

### Justification:

The concrete sedimentation basin at the Boyd Lake water treatment plant needs repair. The concrete is spalling and the aggregate is exposed. The walls need to be resurfaced to prevent any further damage. The floor of the basin is not sloped correctly and needs to be addressed.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	900,000	-	85,000
4787	Other	-	-	815,000	-	-	-	-	-	815,000
<b>Total Revenue</b>		-	-	\$815,000	-	-	-	\$900,000	-	\$900,000
Expense										
8202	Construction	-	-	-65,000	-	-	-	750,000	-	685,000
8204	Contingency	-	-	25,000	-	-	-	100,000	-	125,000
8229	Professional Services	-	-	30,000	-	-	-	30,000	-	60,000
8232	Project Management	-	-	10,000	-	-	-	20,000	-	30,000
<b>Total Expense</b>		-	-	-	-	-	-	\$900,000	-	\$900,000
<b>Net Total</b>		-	-	\$815,000	-	-	-	-	-	-

## Bellvue Water Treatment Plant General Rehabilitation

<b>Project Number:</b>	11103	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Bellvue Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890080000011103
<b>Project Status:</b>	Funded		

### Description:

This is an annual project for the rehabilitation of buildings, heating/ventilating/air conditioning (HVAC) systems, pumps and motors, electrical replacements, chemical storage & metering, valves, and compressors. For 2022 this includes the replacement of a sludge pump, new or rehab of the chlorine gas scrubber, and a 24" finished water mag meter.

### Discussion of Progress:

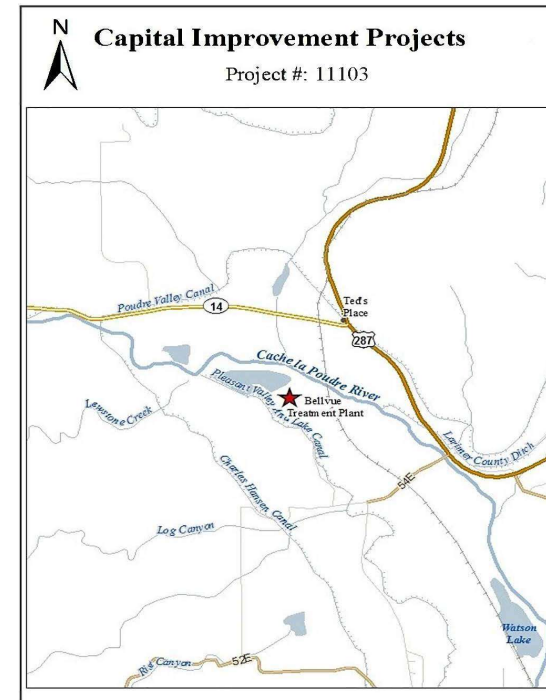
Ongoing planning, design, procurement, and construction.

### Justification:

These items will help to maintain operational reliability, effectiveness, and improve efficiency for continued compliance with Federal and State regulations and fulfill the Water & Sewer department mandates.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	1,367,038	114,317	516,965	500,000	460,000	475,000	555,000	490,000	4,478,320
4787	Other	-	-	505,000	-	-	-	-	-	505,000
<b>Total Revenue</b>		<b>\$1,367,038</b>	<b>\$114,317</b>	<b>\$1,021,965</b>	<b>\$500,000</b>	<b>\$460,000</b>	<b>\$475,000</b>	<b>\$555,000</b>	<b>\$490,000</b>	<b>\$4,983,320</b>
Expense										
8202	Construction	936,845	77,061	597,059	375,000	325,000	285,000	475,000	400,000	3,470,965
8204	Contingency	-	-	159,906	10,000	20,000	20,000	15,000	20,000	244,906
8208	Furniture, Fixtures & Equipment	24,669	-	20,000	20,000	20,000	20,000	15,000	15,000	134,669
8212	Land/Building Cost/Demolition	6,500	-	-	-	-	-	-	-	6,500
8216	Miscellaneous	19	-	-	-	-	-	-	-	19
8224	Operating Supplies	1,407	7,085	-	-	-	-	-	-	8,492
8229	Professional Services	74,609	13,721	10,000	50,000	10,000	50,000	10,000	10,000	228,331
8232	Project Management	35,451	-	20,000	25,000	25,000	25,000	25,000	25,000	180,451
8244	Capital Equipment >\$5,000	287,538	16,450	215,000	20,000	60,000	75,000	15,000	20,000	708,988
<b>Total Expense</b>		<b>\$1,367,038</b>	<b>\$114,317</b>	<b>\$1,021,965</b>	<b>\$500,000</b>	<b>\$460,000</b>	<b>\$475,000</b>	<b>\$555,000</b>	<b>\$490,000</b>	<b>\$4,983,320</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>







## Boyd Water Treatment Plant - General Rehabilitation

<b>Project Number:</b>	11106	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Filter Plant
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	4231060890110000011106
<b>Project Status:</b>	Funded		

### Description:

This project consists of replacing the combined filter effluent finished water hatch on the east side of the filter building. The existing hatch is set at grade of the sidewalk and is in need of replacement. The new hatch will be raised to add more protection against water infiltration into the finished water. The planned work also includes rehab of the existing sludge cross collector system located in the sedimentation basin. There are some various heaters at the plant that are in need of replacement that is planned to occur as well. Project also includes the purchase of a mass spectrometer that will be used for lab testing.

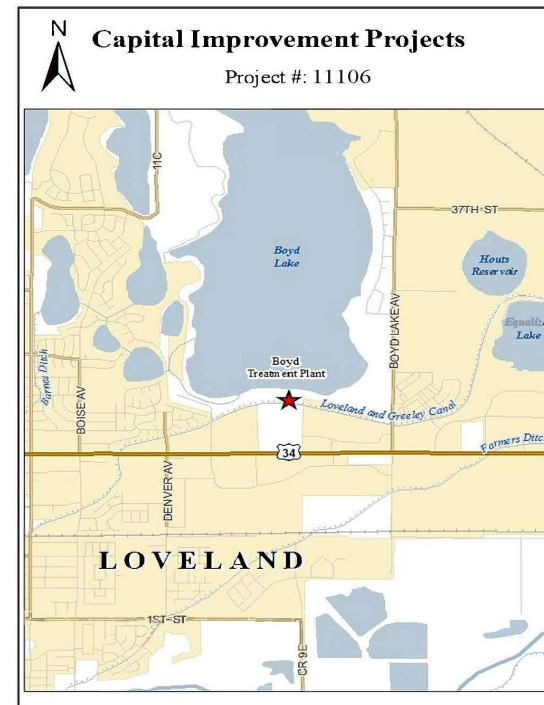
### Discussion of Progress:

Ongoing planning, design, procurement, and construction. The plan for 2023 is to procure and install a new fluoride skit to be located by the influent of the clearwell. The new fluoride system will allow the use of super sacks to improve operator maintenance. This new system being located outside of the Microstrainer building will lead the way for the future planned remodel of the building. Remodel of the back office into the new water quality lab.

### Justification:

These items will help maintain operational reliability, effectiveness, and improve efficiency for continued compliance with Federal and State regulations. They will also help to fulfill Water and Sewer department mandates.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	1,190,449	134,512	-	490,000	525,000	495,000	580,000	450,000	475,000	4,339,961
4787	Other	-	-	450,000	-	-	-	-	-	-	450,000
5761	Rebates	12,148	-	-	-	-	-	-	-	-	12,148
<b>Total Revenue</b>		<b>\$1,202,597</b>	<b>\$134,512</b>	<b>\$450,000</b>	<b>\$490,000</b>	<b>\$525,000</b>	<b>\$495,000</b>	<b>\$580,000</b>	<b>\$450,000</b>	<b>\$475,000</b>	<b>\$4,802,109</b>
Expense											
8202	Construction	889,984	41,060	250,000	400,000	450,000	400,000	500,000	300,000	350,000	3,581,044
8204	Contingency	-	-	-	25,000	20,000	25,000	25,000	50,000	25,000	170,000
8208	Furniture, Fixtures &	19,220	-	25,000	20,000	15,000	25,000	15,000	25,000	25,000	169,220
8216	Miscellaneous	5,160	-	-	-	-	-	-	25,000	25,000	55,160
8224	Operating Supplies	76,352	875	-	-	-	-	-	-	-	77,227
8229	Professional Services	80,307	8,472	-	-	-	-	-	-	-	88,779
8232	Project Management	48,189	-	25,000	25,000	25,000	25,000	25,000	25,000	25,000	223,189
8244	Capital Equipment	83,385	84,105	150,000	20,000	15,000	20,000	15,000	25,000	25,000	437,490
<b>Total Expense</b>		<b>\$1,202,597</b>	<b>\$134,512</b>	<b>\$450,000</b>	<b>\$490,000</b>	<b>\$525,000</b>	<b>\$495,000</b>	<b>\$580,000</b>	<b>\$450,000</b>	<b>\$475,000</b>	<b>\$4,802,109</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Water Treatment Plants Master Plan

<b>Project Number:</b>	N735	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Bellvue and Boyd Water Treatment Plants
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

Master plan for planning project needs in the future for the City's two water plants.

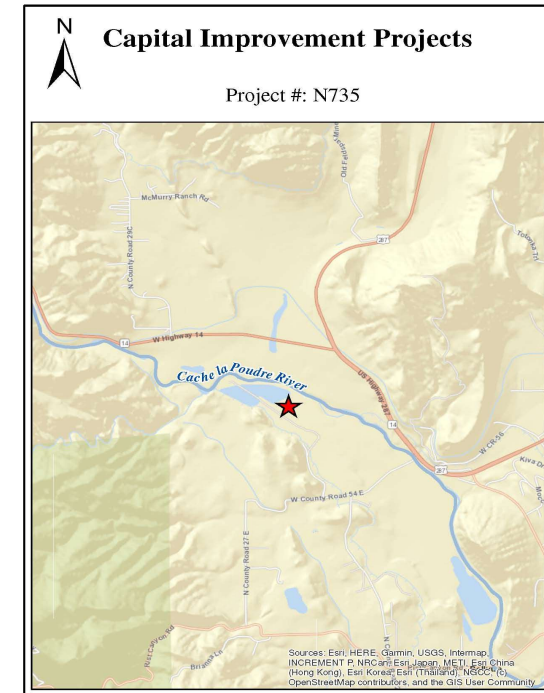
### Discussion of Progress:

Planned for 2024

### Justification:

The master plan is used to set priority to CIP projects and allows optimization of available funds to maximize efficiency and results.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	790,000	-	-	-	790,000
	<b>Total Revenue</b>	-	-	-	-	\$790,000	-	-	-	\$790,000
Expense										
8204	Contingency	-	-	-	-	100,000	-	-	-	100,000
8229	Professional Services	-	-	-	-	650,000	-	-	-	650,000
8232	Project Management	-	-	-	-	40,000	-	-	-	40,000
	<b>Total Expense</b>	-	-	-	-	\$790,000	-	-	-	\$790,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Boyd Pump Station Intake Valve Replacement

<b>Project Number:</b>	N618	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Treatment	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Boyd Lake Pump Station
<b>Project Manager:</b>	Peter Champion	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

Replacement of the of the non-working intake valve at the Boyd Lake pump station

### Discussion of Progress:

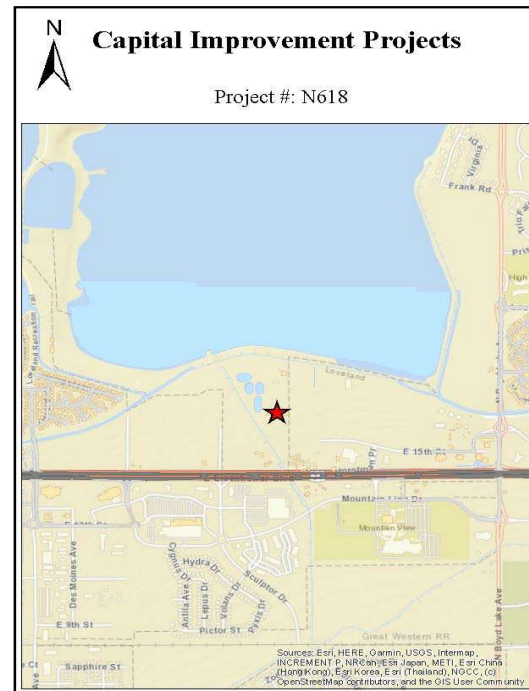
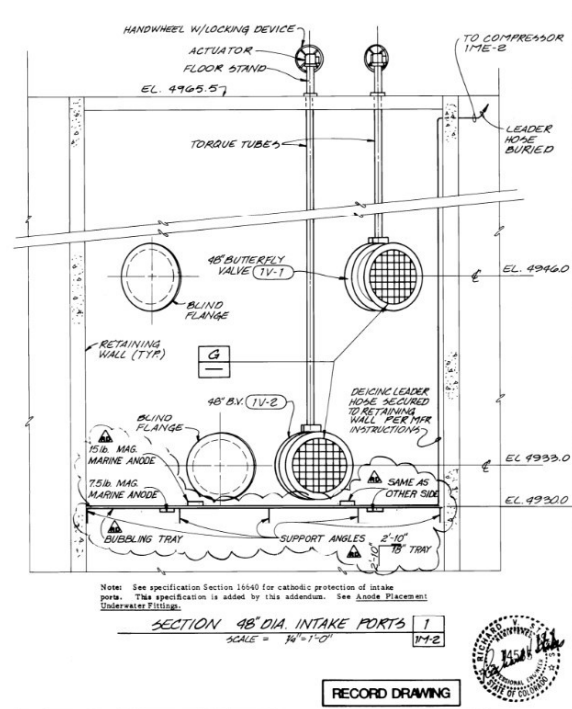
Planned for replacement in 2026.

### Justification:

The valve dose not currently operate and is needed for proper operation of the intake structure. With the valve not working we are at risk of not being able to operate the intake structure in low water situations resulting in not having source water for the Boyd WTP.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	520,000	-	520,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$520,000	-	\$520,000
Expense										
8202	Construction	-	-	-	-	-	-	400,000	-	400,000
8204	Contingency	-	-	-	-	-	-	100,000	-	100,000
8232	Project Management	-	-	-	-	-	-	20,000	-	20,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$520,000	-	\$520,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-





## Transmission System Rehabilitation

<b>Project Number:</b>	11101	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission &	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide and Along the Major Transmission Line from Bellvue and Boyd Filter Plants
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4231060890060000011101
<b>Project Status:</b>	Funded		

### Description:

This project will fund all types of required rehabilitation or replacement of the treated water transmission system. Projects may include the protection of pipe joints, pipe replacement, cathodic protection, lining of pipe, minor upgrades, and repairs to piping for protection prior to impending development. This is an on-going project in part utilizing in-house design and construction.

### Discussion of Progress:

In 2020, 800 linear feet of 20" pipe was rehabilitated with a slip liner at 35th Ave and 22nd St. The original amount of rehab work was significantly reduced after further investigation of leak history. As a result, a lot of cost was avoided by only rehabilitating the 800 feet of pipe. This work also coincided with modifications at Lift Station 13 to reduce impacts to traffic.

### Justification:

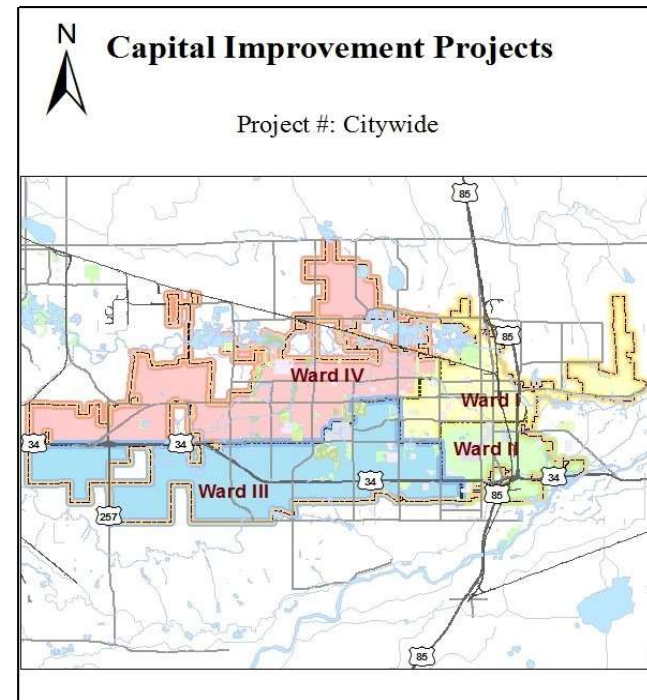
Council priority to maintain critical infrastructure. This program is intended to maintain and protect assets worth over \$105,000,000 (replacement value) and restore and prolong the useful life of the 138 miles of older pipeline. Bellvue's pipelines were constructed between 1923- 1969 and 31 miles have been rehabilitated by cement mortar or poly lining. The Boyd lines were constructed in 1967 and 1973. The rehabilitation schedule will be adjusted to meet the most pressing priority.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	5,704,345	990,033	-	1,000,000	1,000,000	2,101,000	2,276,000	2,251,000	11,255,000	25,477,378
4322	State Pass Through	86,252	-	-	-	-	-	-	-	-	86,252
4789	Expense Reimbursement	298,273	-	-	-	-	-	-	-	-	298,273
5902	Bond Proceeds	-	-	2,101,000	-	-	-	-	-	-	2,101,000
<b>Total Revenue</b>		<b>\$6,088,871</b>	<b>\$990,033</b>	<b>\$2,101,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$2,101,000</b>	<b>\$2,276,000</b>	<b>\$2,251,000</b>	<b>\$11,255,000</b>	<b>\$27,962,903</b>



Expense

8202	Construction	5,262,813	946,393	700,000	800,000	800,000	1,800,000	1,800,000	1,800,000	9,000,000	22,909,206
8204	Contingency	40,000	1,500	180,000	140,000	140,000	180,000	180,000	180,000	900,000	1,941,500
8208	Furniture, Fixtures &	4,746	-	-	-	-	-	-	-	-	4,746
8212	Land/Building	-	-	10,000	4,000	4,000	10,000	10,000	10,000	50,000	98,000
8216	Miscellaneous	124	-	1,000	1,000	1,000	1,000	1,000	1,000	5,000	11,124
8224	Operating Supplies	89,723	-	50,000	25,000	25,000	50,000	50,000	50,000	250,000	589,723
8226	Permits, Fees, Etc	1,000	-	25,000	10,000	10,000	25,000	25,000	25,000	125,000	246,000
8229	Professional Services	559,941	42,139	25,000	15,000	15,000	25,000	200,000	175,000	875,000	1,932,080
8232	Project Management	129,524	-	10,000	5,000	5,000	10,000	10,000	10,000	50,000	229,524
8233	Project Management -	1,000	-	-	-	-	-	-	-	-	1,000
<b>Total Expense</b>		<b>\$6,088,871</b>	<b>\$990,033</b>	<b>\$1,001,000</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>	<b>\$2,101,000</b>	<b>\$2,276,000</b>	<b>\$2,251,000</b>	<b>\$11,255,000</b>	<b>\$27,962,903</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>\$1,100,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Distribution Pipeline Replacement

<b>Project Number:</b>	11098	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission &	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4231060890040000011098
<b>Project Status:</b>	Funded		

### Description:

This will provide replacement and/or rehabilitation of pipes that exhibit corrosion or have a leak history. Pipes that are too small are replaced and enlarged to increase flow capacity. Various rehabilitation methods such as cement mortar lining, swage lining, and pipe bursting may be used. Every two years projects are prioritized based on paving project coordination and other factors. Projects are split between COG crews and CMAR contract crews.

### Discussion of Progress:

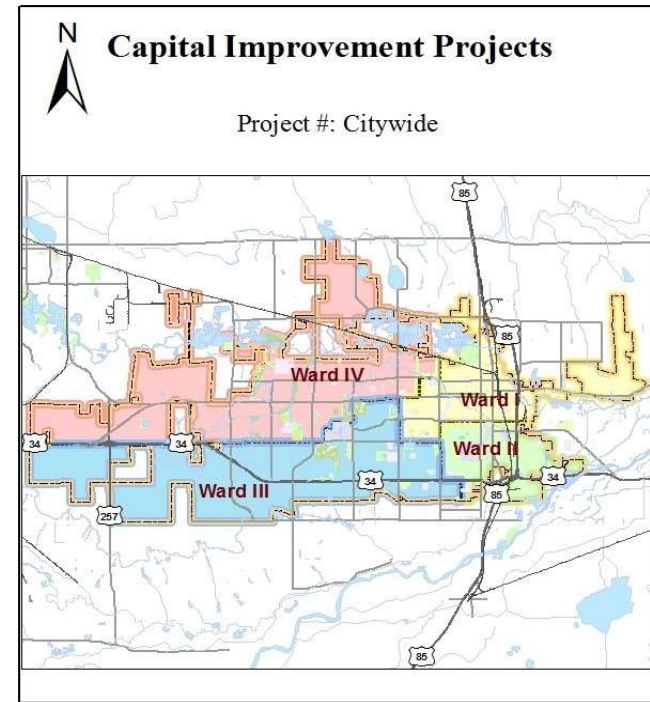
Completed projects include the abandonment of 1,000 feet of 4" cast iron pipe along 4th St from 26th Ave Ct to 35th Ave and replacement by cross-connects to adjacent 27" steel pipe, mitigation of 17 sanitary sewer manholes conflicting with water lines, and the replacement of 1,900 feet of 8" PVC pipe along 4th Ave from 22nd Street to 25th Street.

### Justification:

Council priority to maintain critical infrastructure. This program reduces the number of emergency repairs and customer complaints by improving the flow quantity and service for customers and fire protection. Water quality is also improved and chlorination is more effective.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	3,605,218	974,731	-	1,895,000	2,400,000	2,324,000	2,134,000	1,719,000	8,595,000	23,646,949
5902	Bond Proceeds	-	-	1,895,000	-	-	-	-	-	-	1,895,000
<b>Total Revenue</b>		\$3,605,218	\$974,731	\$1,895,000	\$1,895,000	\$2,400,000	\$2,324,000	\$2,134,000	\$1,719,000	\$8,595,000	\$25,541,949
Expense											
8202	Construction	2,844,808	974,731	1,580,000	1,580,000	1,910,000	1,864,000	1,864,000	1,449,000	7,245,000	21,311,539
8204	Contingency	99,451	-	150,000	150,000	200,000	175,000	100,000	100,000	500,000	1,474,451
8212	Land/Building	500	-	50,000	50,000	50,000	-	-	-	-	150,500
8216	Miscellaneous	55	-	-	-	-	-	-	-	-	55
8224	Operating Supplies	571,543	-	50,000	50,000	50,000	100,000	100,000	100,000	500,000	1,521,543
8226	Permits, Fees, Etc	50,164	-	25,000	25,000	25,000	25,000	10,000	10,000	50,000	220,164
8229	Professional Services	-	-	25,000	25,000	150,000	150,000	50,000	50,000	250,000	700,000
8232	Project Management	38,698	-	15,000	15,000	15,000	10,000	10,000	10,000	50,000	163,698
<b>Total Expense</b>		\$3,605,218	\$974,731	\$1,895,000	\$1,895,000	\$2,400,000	\$2,324,000	\$2,134,000	\$1,719,000	\$8,595,000	\$25,541,949
<b>Net Total</b>		-	-	-	-	-	-	-	-	-	-





## Advanced Metering Infrastructure

<b>Project Number:</b>	11093	<b>Budget Year:</b>	2023
<b>Division:</b>	Depreciation	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4231060890040000011093
<b>Project Status:</b>	Funded		

### Description:

This project is the replacement of existing failing water meters with more accurate meters and improved communications. Advanced metering infrastructure (AMI) is a communication tool that enables nearly constant communication between the water meter and the utility. Meter readings will occur every 15 minutes, making leak detection much more effective. Water savings could be significant and it will increase customer service capabilities.

### Discussion of Progress:

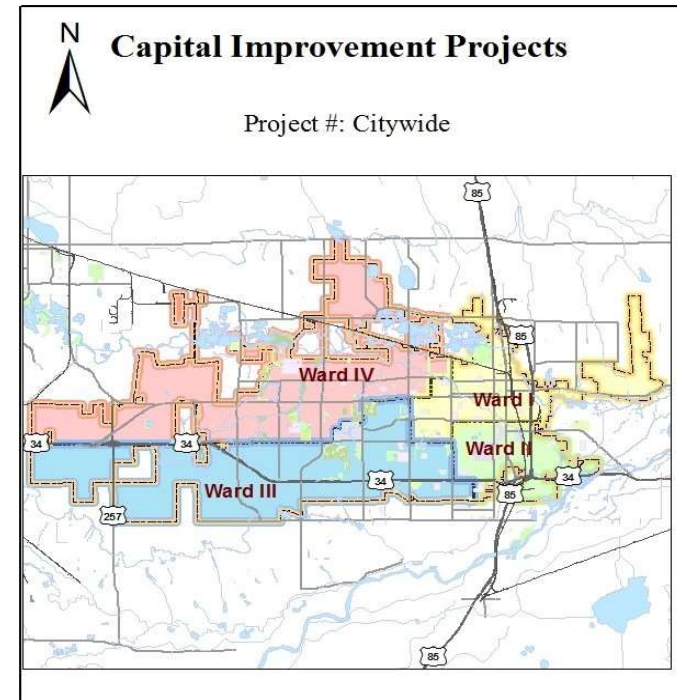
The City purchased 5,000 new Badger Beacon AMI meters in 2020 with City staff installing about 2,000 meters in the last half of 2020. The City developed a request for proposals for an installation contractor to install 12,500 meters in 2021 and 2022. The City received seven proposal and is currently selecting a contractor for the project. It is anticipated that meters will start being replaced in March/April of 2021.

In 2022 the city received a 2 million dollar WaterSmart grant to purchase the meters used in this project.

### Justification:

Some of the existing meters batteries have been failing and some meters are beyond the expected life span of the meters. The W&S Department received a \$1.48 million USBR WaterSmart grant in the spring of 2020. This grant will support the City in the replacement of 14,500 meters or about have the meters within the system. It is also estimated that water savings could be significant with the ability to see leaks quickly on the customer services.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	86,237	160,236	6,252,975	700,000	725,000	925,000	-	-	8,849,448
4311	Federal Grants	1,478,450	-	-	-	-	-	-	-	1,478,450
5902	Bond Proceeds	-	-	3,993,900	-	-	-	-	-	3,993,900
<b>Total Revenue</b>		\$1,564,687	\$160,236	\$10,246,875	\$700,000	\$725,000	\$925,000	-	-	\$14,321,798
Expense										
8202	Construction	10,579	-	1,008,900	550,000	-	-	-	-	1,569,479
8204	Contingency	-	-	355,000	100,000	100,000	100,000	-	-	655,000
8208	Furniture, Fixtures & Equipment	1,554,107	160,236	8,817,975	-	600,000	800,000	-	-	11,932,318
8232	Project Management	-	-	65,000	50,000	25,000	25,000	-	-	165,000
<b>Total Expense</b>		\$1,564,687	\$160,236	\$10,246,875	\$700,000	\$725,000	\$925,000	-	-	\$14,321,798
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Treated Water Reservoir Rehabilitation

<b>Project Number:</b>	11105	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Dan Moore	<b>Budget Unit #:</b>	4231060890100000011105
<b>Project Status:</b>	Funded		

### Description:

This project will fund the required rehabilitation of the four treated water tanks and reservoirs. The projects may include pumps, motors, structural repairs, floating covers, asphalt driveways, and other miscellaneous reservoir related rehabilitation requirements. This is an on-going project. (2023-2025 will address potential pump and motor replacements at Zone 4 pump and Tower and Mosier.)

### Discussion of Progress:

Planning in progress for replacements in Tower and Mosier.

### Justification:

Council priority to maintain critical infrastructure. Concrete and steel reservoir and tanks require major structural repairs and maintenance approximately every 20 years. These 4 major facilities also contain numerous large pumps and control valves that also need repairs and maintenance in addition to the maintenance of the respective reservoir sites.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	122,167	-	-	2,390,410	175,000	140,000	50,000	45,000	1,515,577
4787	Other	-	-	1,739,410	-	-	-	-	-	1,739,410
<b>Total Revenue</b>		\$122,167	-	\$1,739,410	\$2,390,410	\$175,000	\$140,000	\$50,000	\$45,000	\$3,254,987
Expense										
8202	Construction	7,100	-	-700,000	1,308,000	9,000	9,000	9,000	9,000	651,100
8204	Contingency	-	-	50,000	50,000	1,000	1,000	1,000	1,000	104,000
8208	Furniture, Fixtures & Equipment	-	-	25,000	25,000	25,000	20,000	-	-	95,000
8212	Land/Building Cost/Demolition	-	-	684,410	684,410	10,000	10,000	-	-	1,388,820
8224	Operating Supplies	88,454	-	58,000	58,000	30,000	30,000	30,000	30,000	324,454
8229	Professional Services	26,613	-	175,000	225,000	25,000	-	-	-	451,613
8232	Project Management	-	-	40,000	40,000	15,000	10,000	10,000	5,000	120,000
8244	Capital Equipment >\$5,000	-	-	-	-	60,000	60,000	-	-	120,000
<b>Total Expense</b>		\$122,167	-	\$332,410	\$2,390,410	\$175,000	\$140,000	\$50,000	\$45,000	\$3,254,987
<b>Net Total</b>		-	-	\$1,407,000	-	-	-	-	-	-





## Capital Outlay Replacement - Water

<b>Project Number:</b>	11099	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Supply	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Erik Dial	<b>Budget Unit #:</b>	4231060105000000011099
<b>Project Status:</b>	Funded		

### Description:

This program replaces major rolling stock: pickups, tractor backhoes, loaders, compressors, dump trucks, and other identified replacement capital items.

### Discussion of Progress:

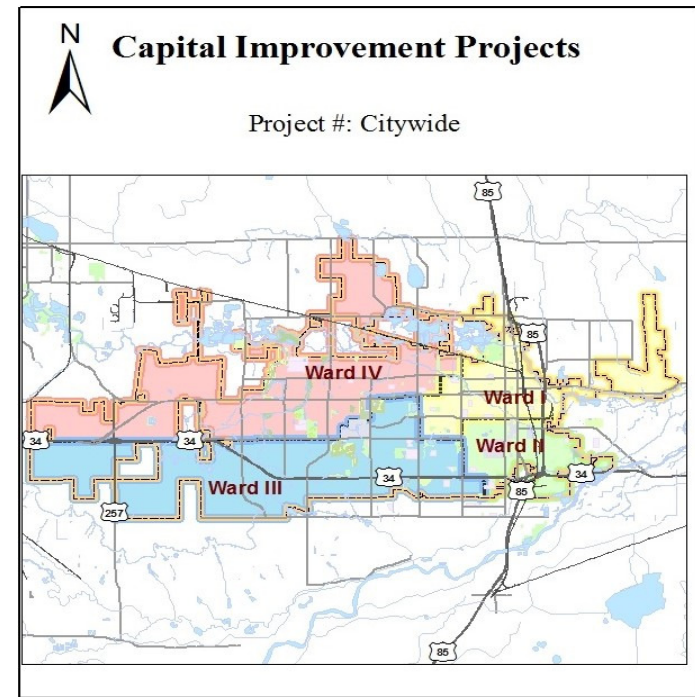
Ongoing equipment replacement

### Justification:

This will replace rolling stock that has reached the end of its economic life. This will help maintain the equipment's ability to perform daily tasks and handle emergency calls.

Page 42 of 56

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	1,204,124	12,000	200,000	70,900	-	-	-	-	1,487,024
4787	Other	-	-	1,635,232	965,077	537,418	1,419,324	1,821,475	944,109	7,322,635
5801	Sales Of Fixed Assets	135,476	-	-	-	-	-	-	-	135,476
<b>Total Revenue</b>		\$1,339,601	\$12,000	\$1,835,232	\$1,035,977	\$537,418	\$1,419,324	\$1,821,475	\$944,109	\$8,945,136
Expense										
8142	Construction and Maintenance	613,990	-	678,981	563,901	-	973,616	1,342,673	894,109	5,067,270
8144	Transportation/Vehicles	580,801	-	642,424	279,625	438,585	354,308	361,091	-	2,656,834
8148	Computer	11,678	-	-	-	-	-	-	-	11,678
8149	Other	77,254	12,000	513,827	192,451	98,833	91,400	117,711	50,000	1,153,476
8232	Project Management	55,878	-	-	-	-	-	-	-	55,878
<b>Total Expense</b>		\$1,339,601	\$12,000	\$1,835,232	\$1,035,977	\$537,418	\$1,419,324	\$1,821,475	\$944,109	\$8,945,136
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Utility Billing Replacement-Water

<b>Project Number:</b>	11094	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Erik Dial	<b>Budget Unit #:</b>	4231060870010000011094
<b>Project Status:</b>	Funded		

### Description:

The current Utility Billing software is at its end of life. It will be replaced with a new system that will enhance customer service and reporting capabilities.

### Discussion of Progress:

Greeley had shortlisted 3 vendor solutions in early 2020. The vendors provided their pricing with their solutions and the budget numbers are based off of their proposals. Because the project was postponed, some inflation is assumed.

### Justification:

A new utility billing system is needed. This will be funded by the Water, Sewer, and Stormwater funds.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	72,462	-	-	3,000,000	-	-	-	-	1,572,462
5902	Bond Proceeds	-	-	1,500,000	-	-	-	-	-	1,500,000
<b>Total Revenue</b>		\$72,462	-	\$1,500,000	\$3,000,000	-	-	-	-	\$3,072,462
Expense										
8208	Furniture, Fixtures & Equipment	652	-	-	-	-	-	-	-	652
8229	Professional Services	71,810	-	-	3,000,000	-	-	-	-	3,071,810
<b>Total Expense</b>		\$72,462	-	-	\$3,000,000	-	-	-	-	\$3,072,462
<b>Net Total</b>		-	-	\$1,500,000	-	-	-	-	-	-



City of Greeley  
Director of Finance  
P.O. Box 1928  
Greeley, CO 80632-1928

### Statement of Account for Utility Service(s)

THIS BILL SHOWS A PREVIOUS AMOUNT DUE.  
PLEASE REMIT AT EARLIEST CONVENIENCE.  
IF PYMT HAS BEEN MADE, THANK YOU.

#### ACCOUNT INFORMATION

Account Number: **222-222222-22**

Service: **2000 GREELEY AVENUE CT**  
Location:

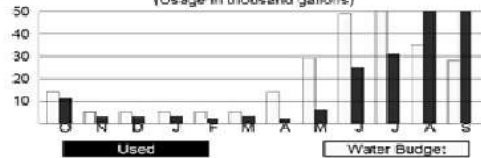
Persons in Household: **4** Irrigable Area: **7799**

#### METER INFORMATION

Meter ID	Date	Curr Read	Date	Prev Read	Usage
97403425U	09/28	750	08/28	700	50

#### CONSUMPTION HISTORY

(Usage in thousand gallons)



#### WATER CHARGES

BUDGET: Indoor **7** Outdoor **21** Total **28**

RESIDENTIAL WATER	Used	Rate	Amount
Water Budget (0% to 100%)	28	3.97	\$108.84
Inefficient Use (>100% to 130%)	9	4.85	\$42.66
Excessive Use (>130% to 150%)	5	6.62	\$30.20
Unsustainable Use (>150%)	8	8.82	\$68.96
Base Charge			\$11.83

#### BILLING SUMMARY

Payments	\$165.74
Bal Fwd	\$10.74
RESIDENTIAL WATER	\$262.29
RESIDENTIAL SEWER	\$15.72
STORMWATER	\$11.09

CURRENT CHARGES **\$289.10**

**TOTAL DUE ON 10/18/17 \$299.84**

## Instrumentation & Controls - Water

<b>Project Number:</b>	11100	<b>Budget Year:</b>	2023
<b>Division:</b>	Treatment and Supply	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Mathew Finch	<b>Budget Unit #:</b>	4231060890050000011100
<b>Project Status:</b>	Funded		

### Description:

This program replaces and refurbishes instruments and control systems known as SCADA (Supervisory Control and Data Acquisition). These devices are used to operate water and sewer systems, including recording data required by regulation and measurement and control of various chemicals. This is an on-going project.

### Discussion of Progress:

Ongoing annual program.

### Justification:

Instrumentation and controls wear out or become obsolete over time, requiring replacement or major refurbishment. Refurbishment typically occurs at the facilities of the local supplier or manufacturer. City instrumentation technicians perform the replacement projects. This account includes instruments at all water facilities and pipelines.

Page 46 of 56

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	504,195	-	-	195,800	175,102	180,355	185,765	185,765	1,426,982
4787	Other	-	-	165,050	-	-	-	-	-	165,050
5761	Rebates	4,900	-	-	-	-	-	-	-	4,900
<b>Total Revenue</b>		\$509,095	-	\$165,050	\$195,800	\$175,102	\$180,355	\$185,765	\$185,765	\$1,596,932
Expense										
8202	Construction	28,030	-	15,500	50,000	16,444	16,937	17,445	17,445	161,801
8204	Contingency	-	-	-	17,800	-	-	-	-	17,800
8208	Furniture, Fixtures & Equipment	191,860	-	31,000	50,000	32,888	33,875	34,891	34,891	409,405
8216	Miscellaneous	7,618	-	5,250	5,000	5,570	5,737	5,909	5,909	40,993
8224	Operating Supplies	232,414	-	82,400	5,000	87,418	90,041	92,742	92,742	682,757
8226	Permits, Fees, Etc	1,980	-	-	-	-	-	-	-	1,980
8229	Professional Services	21,493	-	10,300	63,000	10,927	11,255	11,593	11,593	140,161
8244	Capital Equipment >\$5,000	25,699	-	20,600	5,000	21,855	22,510	23,185	23,185	142,034
<b>Total Expense</b>		\$509,095	-	\$165,050	\$195,800	\$175,102	\$180,355	\$185,765	\$185,765	\$1,596,932
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

# Meter Replacement

<b>Project Number:</b>	11104	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Paul Tucker/Brian Dunlap	<b>Budget Unit #:</b>	4231060890090000011104
<b>Project Status:</b>	Funded		

## Description:

This program funds the replacement of both large and small water meters and their related components as they wear out or fail; this is an on-going project.

## Discussion of Progress:

This project is the replacement of existing failing water meters with more accurate meters and improved communications. Advanced metering infrastructure (AMI) is a communication tool that enables nearly constant communication between the water meter and the utility. Meter readings can occur every 15 minutes, making leak detection much more effective.

## Justification:

Meter accuracy is paramount for revenue collection, therefore all meters and end-points are replaced when they fail, which is approximately every ten to fifteen years. In 2014, a new federal law requires any new meter to the system be constructed with "no-lead". These meters cost approximately 50% more than the current system meters and requires any meter removed for maintenance be replaced with a no-lead meters.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	784,191	5,125	-	100,000	100,000	100,000	100,000	100,000	1,289,316
4787	Other	-	-	100,000	-	-	-	-	-	100,000
<b>Total Revenue</b>		<b>\$784,191</b>	<b>\$5,125</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$1,389,316</b>
Expense										
8208	Furniture, Fixtures & Equipment	81,671	-	80,000	80,000	80,000	80,000	80,000	80,000	561,671
8216	Miscellaneous	26,736	-	-	10,000	10,000	10,000	10,000	10,000	76,736
8224	Operating Supplies	658,178	-	20,000	10,000	10,000	10,000	10,000	10,000	728,178
8229	Professional Services	17,606	-	-	-	-	-	-	-	17,606
8232	Project Management	-	5,125	-	-	-	-	-	-	5,125
<b>Total Expense</b>		<b>\$784,191</b>	<b>\$5,125</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$1,389,316</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





# Valve Replacement

<b>Project Number:</b>	11096	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Paul Tucker	<b>Budget Unit #:</b>	4231060890020000011096
<b>Project Status:</b>	Funded		

## Description:

This project replaces inoperable valves. The life expectancy varies from twenty-five to fifty years depending on valve size and maintenance/operation. This is an on-going project.

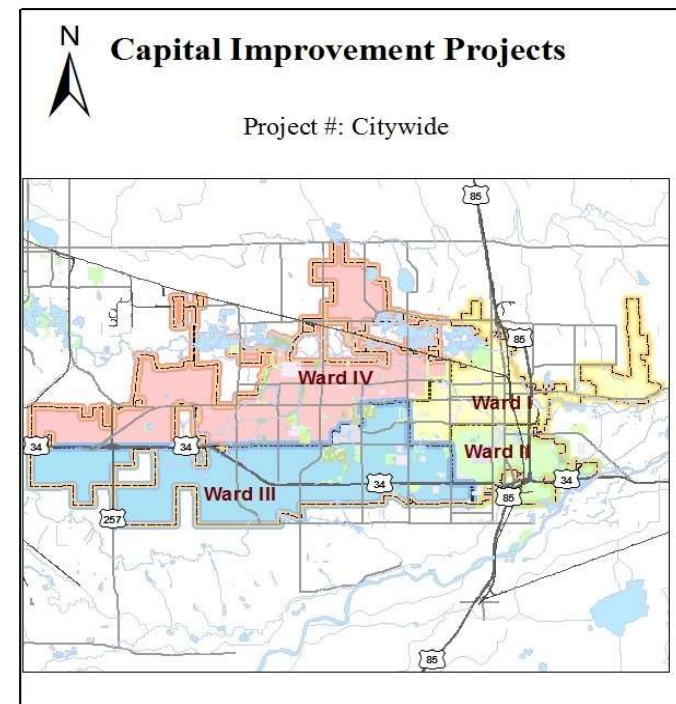
## Discussion of Progress:

Ongoing annual program.

## Justification:

The replacement program ensures that system valves are able to be located, in operating condition and are in the correct operating position (open or closed). Replacement valves are obtained through the Transmission/Distribution division's inventory budget. The system has approximately 11,143 valves.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	271,487	1,616	-	100,000	100,000	100,000	100,000	100,000	773,103
4787	Other	-	-	100,000	-	-	-	-	-	100,000
<b>Total Revenue</b>		\$271,487	\$1,616	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$873,103
Expense										
8202	Construction	9,142	1,616	10,000	10,000	10,000	10,000	10,000	10,000	70,757
8216	Miscellaneous	-	-	2,000	2,000	2,000	2,000	2,000	2,000	12,000
8224	Operating Supplies	257,584	-	84,000	84,000	84,000	86,000	86,000	86,000	767,584
8226	Permits, Fees, Etc	4,762	-	2,000	2,000	2,000	2,000	2,000	2,000	16,762
8229	Professional Services	-	-	2,000	2,000	2,000	-	-	-	6,000
<b>Total Expense</b>		\$271,487	\$1,616	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$873,103
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



# Fire Hydrant Replacement

<b>Project Number:</b>	11097	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Paul Tucker	<b>Budget Unit #:</b>	4231060890030000011097
<b>Project Status:</b>	Funded		

## Description:

This program will replace substandard fire hydrants and applicable branch piping, gate valves, and asphalt. Repair of asphalt and street damage caused by water truck loading at hydrants is also included. This is an on-going project.

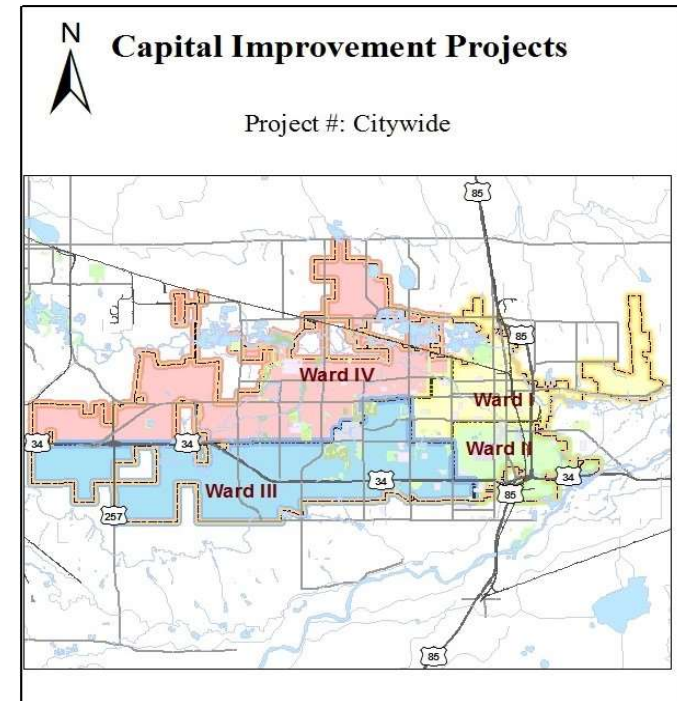
## Discussion of Progress:

Ongoing annual program.

## Justification:

The Water staff and Fire department personnel identify approximately ten units for replacement each year. Labor for replacing and performing hydrant maintenance is charged to the operating account. The system has 3800 hydrants with an expected service life of 50 years. Fire hydrants are also used to distribute water to fracking and construction customers resulting in pavement damage caused by the heavy truck traffic. Each year the damaged pavement is corrected

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	97,070	-	-	77,000	77,000	77,000	77,000	77,000	482,070
4464	Labor & Materials	2,520	-	-	-	-	-	-	-	2,520
4787	Other	-	-	77,000	-	-	-	-	-	77,000
4789	Expense Reimbursement	994	-	-	-	-	-	-	-	994
5812	Damages Recovered	41,664	-	-	-	-	-	-	-	41,664
<b>Total Revenue</b>		\$142,248	-	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$604,248
Expense										
8202	Construction	10,000	-	-	38,000	38,000	38,000	38,000	38,000	200,000
8216	Miscellaneous	-	-	-	4,000	4,000	4,000	4,000	4,000	20,000
8224	Operating Supplies	126,277	-	76,000	35,000	35,000	35,000	35,000	35,000	377,277
8226	Permits, Fees, Etc	194	-	1,000	-	-	-	-	-	1,194
8232	Project Management	5,777	-	-	-	-	-	-	-	5,777
<b>Total Expense</b>		\$142,248	-	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$604,248
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Water and Sewer Facilities Program

<b>Project Number:</b>	11112	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Operational Excellence , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	TBD
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	4231060870010000011112
<b>Project Status:</b>	Funded		

### Description:

A site will be developed to house water and sewer, public works, and CPRD crews.

### Discussion of Progress:

Multiple site locations were evaluated by City Staff in the first part of 2020 for consideration. A site was selected off of F-Street for further evaluation through a feasibility study, which began in the spring of 2021. The feasibility study includes evaluation for occupancy by Water and Sewer, Public Works, and Culture Parks and Recreation. The completion of the feasibility study is anticipated in Fall of 2021 with design beginning after that.

### Justification:

Water and Sewer field operations staff need to move out of the City's A Street facility to free up additional space for Public Works staff. In addition, the building that the water crews are currently housed in is in poor condition and is not centrally located resulting in significant travel times for staff to get to the west side of the City. Public Works and CPRD also need additional space and it was determined that economically and for functionality a shared facility was in the best interest of the City.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	12,911	50,120	-	-	3,000,000	-	20,918,162	65,000	24,046,193
4787	Other	-	-	325,000	-	-	-	-	-	325,000
<b>Total Revenue</b>		\$12,911	\$50,120	\$325,000	-	\$3,000,000	-	\$20,918,162	\$65,000	\$24,371,193
Expense										
8202	Construction	-	-	-	-	3,000,000	-	20,103,162	-	23,103,162
8229	Professional Services	5,541	50,120	300,000	-	-	-	750,000	-	1,105,661
8232	Project Management	7,370	-	25,000	-	-	-	65,000	65,000	162,370
<b>Total Expense</b>		\$12,911	\$50,120	\$325,000	-	\$3,000,000	-	\$20,918,162	\$65,000	\$24,371,193
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Transmission Line Customers Re-Route

<b>Project Number:</b>	11383	<b>Budget Year:</b>	2023
<b>Division:</b>	Transmission/Distribution	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Replacement Transmission & Distribution	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Along the Bellvue Transmission Line
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	4231060400660000011383
<b>Project Status:</b>	Funded		

### Description:

The city has a number of water customers who are connected along the Bellvue Transmission Line. This project would remove them from Greeley's water system and connect them to other water providers in their area. A planning program is proposed in 2015 followed by customer removal in the following years.

### Justification:

During development of the Bellvue Transmission system many years ago, it appears the easement cost was exchanged for connection to the transmission lines. This plan made sense when developed but as the system grew and demands increased in Greeley the operation of the system is greatly influenced by these customer connections. In winter months the system has limitations on how staff can operate without eliminating service to these transmission line customers. To remove customers it is likely that Greeley will need to buy connections to other water providers in the area and build needed infrastructure to eliminate the connection to the Greeley Bellvue Transmission system. A planning program is proposed in 2015 with customer removal in the following years.

### Revenue Detail:

There would be a very small decrease in revenue, but the benefit of not having to serve customers outside Greeley's water service area would outweigh the minimal lost revenue.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	480,000	-	-	400,000	400,000	400,000	1,680,000
4787	Other	-	-	400,000	-	-	-	-	-	400,000
<b>Total Revenue</b>		-	-	\$880,000	-	-	\$400,000	\$400,000	\$400,000	\$2,080,000
Expense										
8202	Construction	-	-	550,000	-	-	400,000	400,000	400,000	1,750,000
8204	Contingency	-	-	25,000	-	-	-	-	-	25,000
8212	Land/Building Cost/Demolition	-	-	5,000	-	-	-	-	-	5,000
8224	Operating Supplies	-	-	250,000	-	-	-	-	-	250,000
8226	Permits, Fees, Etc	-	-	5,000	-	-	-	-	-	5,000
8229	Professional Services	-	-	35,000	-	-	-	-	-	35,000
8234	Project Management - Burdened Labor	-	-	10,000	-	-	-	-	-	10,000
<b>Total Expense</b>		-	-	\$880,000	-	-	\$400,000	\$400,000	\$400,000	\$2,080,000
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Lead Service Line Inventory and Replacement

<b>Project Number:</b>	423New2	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>		<b>Regions:</b>	
<b>Fund:</b>	Water Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Adam Prior	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

The Lead and Copper Rule Revisions (LCRR) are anticipated to go into effect on October 16, 2024. Currently, the City of Greeley (CO0162321) is deemed to have optimized corrosion control without treatment. The LCRR will require any large public water system deemed without treatment to complete corrosion control steps and/or removal lead or galvanized pipe downstream of lead services. This project will complete the lead service inventory, potholing to confirm data, and finally removal of any lead services found.

### Discussion of Progress:

Currently started lead inventory with 20-30 potholes planned for 2022.

### Justification:

In 2021, the water system provided the department with lead data which resulted in a 90th percentile greater than 5 ppb. These results are from sample locations that have been verified via the department's Lead Outreach and Verification Effort. Once the LCRR becomes effective, a 90th percentile greater than 5 ppb would require that your water system complete the corrosion control steps and perform a corrosion control study (CCS). The new LCRR changed the definition of lead services that had historically been from main to meter and is not main to house. This change has resulted in potentially having lead services that must be minitigated and removed from the system.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	2,137,727	2,129,807	2,129,807	2,129,807	2,129,807	10,656,955
	<b>Total Revenue</b>	-	-	-	\$2,137,727	\$2,129,807	\$2,129,807	\$2,129,807	\$2,129,807	\$10,656,955
Expense										
8202	Construction	-	-	-	1,971,245	1,971,245	1,971,245	1,971,245	1,971,245	9,856,225
8229	Professional Services	-	-	-	106,482	98,562	98,562	98,562	98,562	500,730
8232	Project Management	-	-	-	60,000	60,000	60,000	60,000	60,000	300,000
	<b>Total Expense</b>	-	-	-	\$2,137,727	\$2,129,807	\$2,129,807	\$2,129,807	\$2,129,807	\$10,656,955
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## **Fund 424**

# **Water Acquisition**

## Future Water Acquisition - Phase II

<b>Project Number:</b>	11119	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Rights Acquisition	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Rights Acquisition	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Adam Jokerst	<b>Budget Unit #:</b>	4248500850000000011119
<b>Project Status:</b>	Funded		

### Description:

Greeley needs additional water supplies for growth. Water Acquisition Phase II seeks acquisition of 10,000 acre-feet of agricultural water supplies. Surface water supplies, secured via purchase of agricultural water rights, are needed to serve a growing population and for future underground storage in the Terry Ranch Project.

### Justification:

Greeley's water demands are expected to more than double over the next 50-years. Additional water supplies are needed to meet this future demand. The Water Master Plan intended for the City to develop a Future Water Account (FWA) and to generally identify the water supplies needed for increasing potable firm yield. Supplies identified as being the best fit for the Greeley water system are seeing rapid price escalation (over 20% annually in some cases). Therefore, if the City is going to secure water for its future growth, an active acquisition program should be implemented.

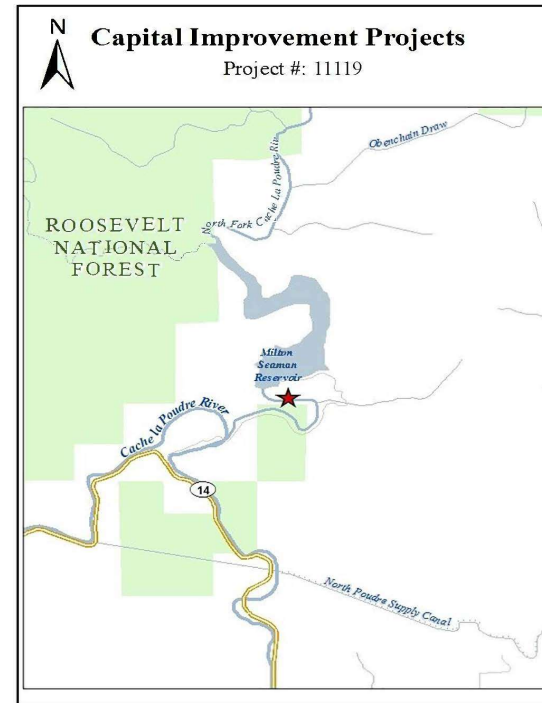
### Revenue Detail:

The water fund receives varying amounts of revenue by renting the water supplies back to agriculture. The revenue amount varies year to year depending on water availability.

### Impact on Operating

Water assessment fees increase when the city buys additional shares of ditch company water. The cost varies by the water right acquired.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	6,057,414	-	-	5,521,109	5,686,742	5,857,344	6,033,065	6,207,304	33,838,642	67,801,620
4789	Expense	184	-	-	-	-	-	-	-	-	184
5788	Other Private	6,639,250	-	-	-	-	-	-	-	-	6,639,250
5801	Sales Of Fixed Assets	-322,280	-	-	-	-	-	-	-	-	-322,280
5902	Bond Proceeds	-	-	7,750,000	-	-	-	-	-	-	7,750,000
6421	Operating Transfer	1,500,000	-	-	-	-	-	-	-	-	1,500,000
<b>Total Revenue</b>		\$13,874,568	-	\$7,750,000	\$5,521,109	\$5,686,742	\$5,857,344	\$6,033,065	\$6,207,304	\$33,838,642	\$83,368,774
Expense											
8212	Land/Building	13,741,160	-	6,150,000	5,315,109	5,474,562	5,638,799	5,807,963	5,982,202	32,713,132	80,822,927
8229	Professional Services	133,308	-	200,000	206,000	212,180	218,545	225,102	225,102	1,125,510	2,545,747
8233	Project Management -	100	-	-	-	-	-	-	-	-	100
<b>Total Expense</b>		\$13,874,568	-	\$6,350,000	\$5,521,109	\$5,686,742	\$5,857,344	\$6,033,065	\$6,207,304	\$33,838,642	\$83,368,774
<b>Net Total</b>		-	-	\$1,400,000	-	-	-	-	-	-	-



# Life After Lawn

<b>Project Number:</b>	11344	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation
<b>Project Type:</b>	Water Rights Acquisition	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Rights Acquisition	<b>Location:</b>	City-wide
<b>Project Manager:</b>	Dena Egenhoff	<b>Budget Unit #:</b>	4241060402330000011344
<b>Project Status:</b>	Funded		

## Description:

This water conservation project is an annual program that will pay eligible water customers to replace bluegrass turf with a more sustainable Water Smart Landscape. Residential and Commercial properties (HOAs, businesses, churches, non-profits, etc.) are the target audiences. Irrigation retrofits are required.

## Discussion of Progress:

Will begin in 2022.

## Justification:

The Life After Lawn project promotes water conservation through an exchange inefficient bluegrass turf for water efficient landscaping. This will result in water acquisition gains through water savings at the customer-level.

Page 4 of 11

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	153,000	156,060	159,181	162,365	162,365	792,971
5902	Bond Proceeds	-	-	150,000	-	-	-	-	-	150,000
<b>Total Revenue</b>		-	-	\$150,000	\$153,000	\$156,060	\$159,181	\$162,365	\$162,365	\$942,971
Expense										
8216	Miscellaneous	-	-	150,000	153,000	156,060	159,181	162,365	162,365	942,971
<b>Total Expense</b>		-	-	\$150,000	\$153,000	\$156,060	\$159,181	\$162,365	\$162,365	\$942,971
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

## Non-tributary Groundwater SLB Change Case

<b>Project Number:</b>	11115	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Rights Acquisition	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Rights Acquisition	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Jennifer Petrzelka	<b>Budget Unit #:</b>	4241060850000000011115
<b>Project Status:</b>	Funded		

### Description:

File water court application, complete engineering and obtain decree for the change of use of non-tributary groundwater rights in the Laramie Fox aquifer associated with State Land Board lands near Terry Ranch.

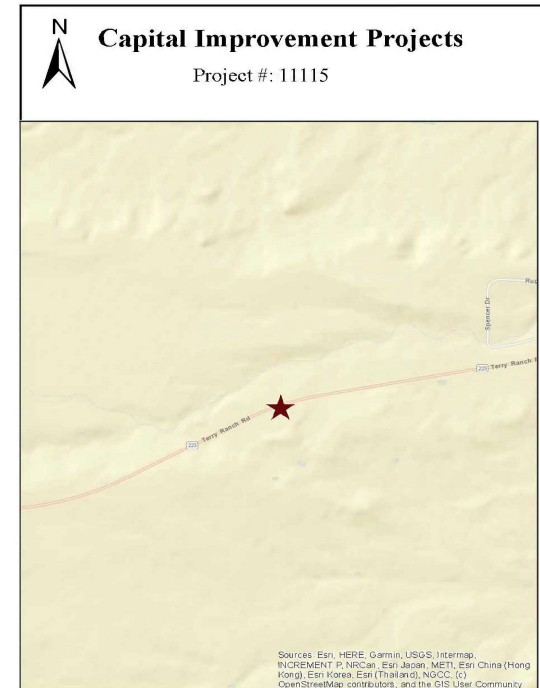
### Discussion of Progress:

The engineering needed to file an application has begun. Application has been filed, and case will go to court. Test well drilling scheduled to start in late 2022.

### Justification:

These groundwater rights can only be used for municipal uses including augmentation and replacing return flows if they have been changed in court.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	1,475,000	1,000,000	200,000	100,000	-	-	2,775,000
5902	Bond Proceeds	-	-	100,000	-	-	-	-	-	100,000
	<b>Total Revenue</b>	-	-	<b>\$1,575,000</b>	<b>\$1,000,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>-</b>	<b>-</b>	<b>\$2,875,000</b>
Expense										
8202	Construction	-	-	1,100,000	900,000	-	-	-	-	2,000,000
8229	Professional Services	-	-	475,000	100,000	200,000	100,000	-	-	875,000
	<b>Total Expense</b>	-	-	<b>\$1,575,000</b>	<b>\$1,000,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>-</b>	<b>-</b>	<b>\$2,875,000</b>
	<b>Net Total</b>	-	-	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## Development of Parcel B, Poudre Ponds

<b>Project Number:</b>	11232	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Rights Acquisition	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Rights Acquisition	<b>Location:</b>	35th Ave. North of F St.
<b>Project Manager:</b>	Ryan Duve	<b>Budget Unit #:</b>	4248500850000000011232
<b>Project Status:</b>	Funded		

### Description:

The Poudre Ponds site is an important non-potable water storage facility that enables Greeley to meet return flow obligations to the Poudre River and supplies non-potable water for irrigation needs. A long-term solution is needed to construct a permanent riverbank armoring system to protect the City's assets and maintain operation of the Trail. The extent of the armoring needed for the long-term solution is approximately 1,000 feet.

### Discussion of Progress:

Design is on going and construction is scheduled for 2023.

### Justification:

In the vicinity of the Poudre Ponds Recreational Fishery, approximately 1,300 feet downstream of the N35th Ave bridge over the Poudre River, the right bank of the river is actively eroding (and experienced substantial erosion during spring runoff in 2021), threatening the stability and safety of the Poudre River Trail and Poudre Pond's Pond A slurry/containment wall. The actively eroded section of bank measured approximately 65 feet in length, with an additional 45 feet of bank upstream that is showing signs of instability. Downstream of the critical failure, bank protection measures have been installed using various methods from a riprap blanket (260 feet of bank just downstream of the critical bank area) and concrete rubble. During the summer of 2021, emergency bank protection was completed at the site with the use of stacked sandbags to minimize further bank sloughing. While the sandbags provided temporary protection to the riverbank, they were undermined by river flow and destabilized over the course of several weeks.

### Revenue Detail:

The water fund receives approximately \$70,000 in royalty revenue each year that mining occurs on the site.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	2,542,257	-	728,700	1,010,000	-	-	-	-	4,280,957
5636	Royalties	139,744	-	-	-	-	-	-	-	139,744
<b>Total Revenue</b>		\$2,682,001	-	\$728,700	\$1,010,000	-	-	-	-	\$4,420,701
Expense										
8202	Construction	2,081,782	-	568,700	800,000	-	-	-	-	3,450,482
8204	Contingency	-	-	-	120,000	-	-	-	-	120,000
8216	Miscellaneous	180	-	-	25,000	-	-	-	-	25,180
8229	Professional Services	507,294	-	160,000	45,000	-	-	-	-	712,294
8232	Project Management	92,746	-	-	20,000	-	-	-	-	112,746
<b>Total Expense</b>		\$2,682,001	-	\$728,700	\$1,010,000	-	-	-	-	\$4,420,701
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

## Water Supply & Storage Change Case Ph 2

<b>Project Number:</b>	11118	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Rights Acquisition	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Water Rights Acquisition	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Jennifer Petrzelka	<b>Budget Unit #:</b>	4248500850000000011118
<b>Project Status:</b>	Funded		

### Description:

File water court application, complete engineering and obtain decree for the change of use of unchanged Water Supply and Storage Company (WSSC) shares.

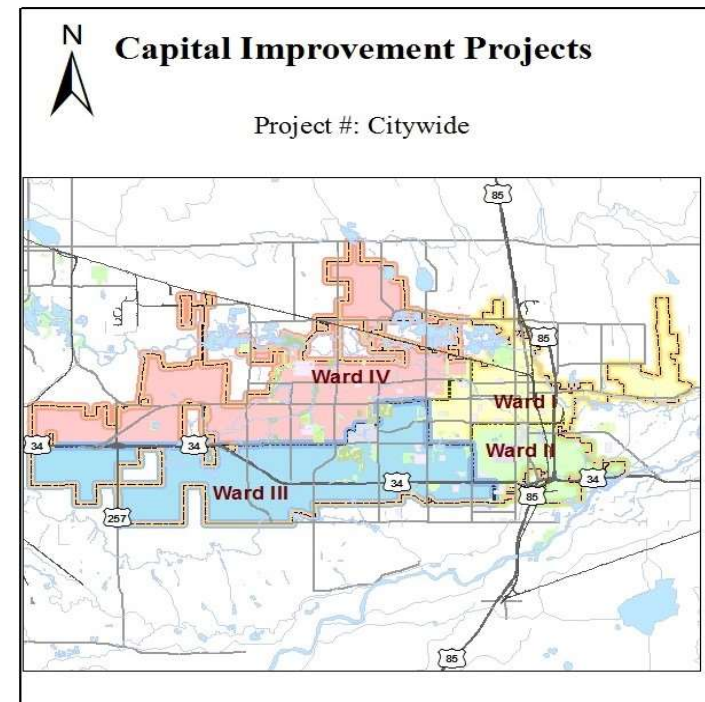
### Discussion of Progress:

Preliminary engineering is almost complete. We are waiting to finalize an acquisition to add to the report and application.

### Justification:

Ditch company shares can only be used for municipal uses such as treatment, augmentation and return flow obligations if they have been changed in water court.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	60,507	-	-	100,000	100,000	-	-	-	260,507
5902	Bond Proceeds	-	-	100,000	-	-	-	-	-	100,000
	<b>Total Revenue</b>	\$60,507	-	\$100,000	\$100,000	\$100,000	-	-	-	\$360,507
Expense										
8229	Professional Services	60,507	-	100,000	100,000	100,000	-	-	-	360,507
	<b>Total Expense</b>	\$60,507	-	\$100,000	\$100,000	\$100,000	-	-	-	\$360,507
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



# Overland Trail

<b>Project Number:</b>	11243	<b>Budget Year:</b>	2023
<b>Division:</b>	Water Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Water Rights Acquisition	<b>Regions:</b>	5- Outside City
<b>Fund:</b>	Water Rights Acquisition	<b>Location:</b>	Northwest of Fort Collins
<b>Project Manager:</b>	Jennifer Petrzelka	<b>Budget Unit #:</b>	4241060855050000011243
<b>Project Status:</b>	Funded		

## Description:

The Overland Trail Gravel Pits are located NW of Fort Collins. Greeley and the Tri-Districts purchased half of the gravel pits from Lafarge in 2004. The other half were owned by individual land owners; Greeley and Tri-Districts has completed the acquisition of these pits. Ultimately, Greeley's storage will be approximately 2,500 acre-feet. The pits will be used to store potable supplies for the Bellvue filter plant and to meet return flows required by ditch company acquisition. The costs shown are Greeley's portion to be paid to the Tri-Districts which are creating the storage.

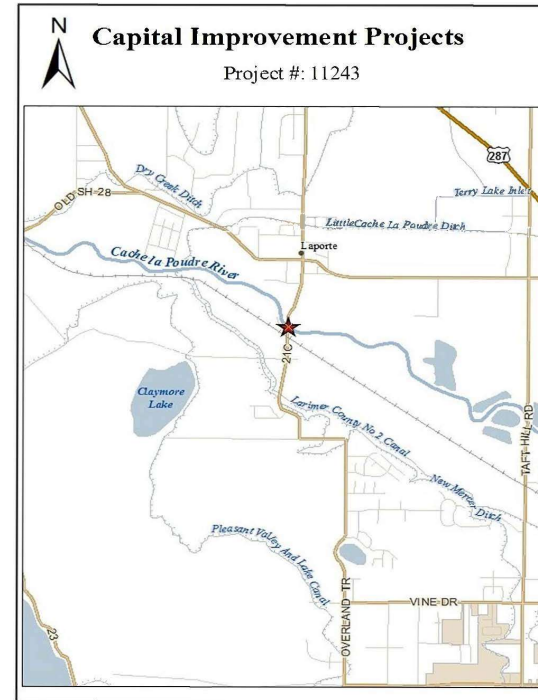
## Discussion of Progress:

A gravity outlet from Treiber B has been completed allowing releases to be made to the river. A feasibility study for a connection from Overland Ponds to the Pleasant Valley Pipeline has been completed and is the process of being evaluated. Projects for 2022 are being determined.

## Justification:

The Water Master Plan intends for the City to develop high quality supplies in the Poudre basin to meet water supply needs prior to the expansion of the Milton Seaman reservoir. The desirable options include building small projects such as the Overland Trail to maximize the value of existing water supplies and of purchased supplies in the future.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future	Grand Total
Revenue											
	Fund Balance	341,606	-	-	35,000	35,000	35,000	35,000	35,000	3,035,000	3,551,606
4341	Local Government Grants	9,619	-	-	-	-	-	-	-	-	9,619
5902	Bond Proceeds	-	-	35,000	-	-	-	-	-	-	35,000
<b>Total Revenue</b>		\$351,225	-	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$3,035,000	\$3,596,225
Expense											
8202	Construction	-	-	-	-	-	-	-	-	3,000,000	3,000,000
8212	Land/Building	339,928	-	-	-	-	-	-	-	-	339,928
8216	Miscellaneous	8	-	-	-	-	-	-	-	-	8
8229	Professional Services	10,858	-	20,000	20,000	20,000	20,000	20,000	20,000	20,000	150,858
8232	Project Management	432	-	15,000	15,000	15,000	15,000	15,000	15,000	15,000	105,432
<b>Total Expense</b>		\$351,225	-	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$3,035,000	\$3,596,225
<b>Net Total</b>		-	-	-	-	-	-	-	-	-	-







## **Fund 412**

# **Sewer New Construction**

## Additional Sanitary Sewer Manholes & Sewer Taps

<b>Project Number:</b>	11070	<b>Budget Year:</b>	2023
<b>Division:</b>	Sewer Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Construction Collection	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Construction	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4121060820030000011070
<b>Project Status:</b>	Funded		

### Description:

This program constructs new manholes that are found to be necessary for safe and efficient access to the sanitary sewer system. As existing sewer lines are inspected, the need for new manholes is often discovered in sewer lines that have limited access, such as cul-de-sacs or line intersections without manholes. The installation of additional manholes allows staff to clean and flush sewer lines efficiently.

### Discussion of Progress:

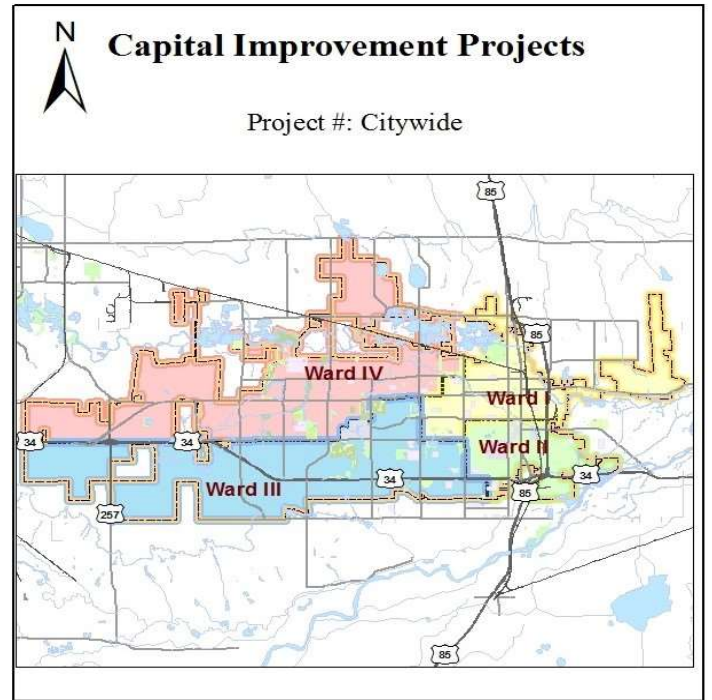
Annual program

### Justification:

As existing sewer lines are inspected, the need for constructing new manholes is discovered, e.g. cul de sac with no manholes, lines intersecting with no manholes, and any other sites where access is required. Without the installation of new manholes the system cannot be properly flushed and cleaned which could lead to backups.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	46,204	6,474	-	69,000	69,000	69,000	69,000	69,000	397,678
4611	Plant Investment Fees	-	-	69,000	-	-	-	-	-	69,000
<b>Total Revenue</b>		<b>\$46,204</b>	<b>\$6,474</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$466,678</b>
Expense										
8202	Construction	6,055	-	10,000	10,000	10,000	10,000	10,000	10,000	66,055
8224	Operating Supplies	40,149	6,474	50,000	50,000	50,000	50,000	50,000	50,000	346,623
8226	Permits, Fees, Etc	-	-	500	500	500	500	500	500	3,000
8229	Professional Services	-	-	3,500	3,500	3,500	3,500	3,500	3,500	21,000
8244	Capital Equipment >\$5,000	-	-	5,000	5,000	5,000	5,000	5,000	5,000	30,000
<b>Total Expense</b>		<b>\$46,204</b>	<b>\$6,474</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$69,000</b>	<b>\$466,678</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## North Greeley Sewer Phase 2A

<b>Project Number:</b>	11241	<b>Budget Year:</b>	2023
<b>Division:</b>	Sewer Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Construction Collection	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Construction	<b>Location:</b>	US 85 from H St. to Treatment Plant
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4121060820000000011241
<b>Project Status:</b>	Funded		

### Description:

Construction of 7400 LF of 36" sewer main from 11th Avenue and H Street along the Poudre River to the East Greeley Interceptor. Project consists of 2 river crossings and bored crossings of 8th Avenue, Union Pacific Railroad, and 6th Avenue. Approximately 1300lf of Phase IIA will be constructed in 2018. The remainder is planned to be constructed in 2024 depending on development need.

### Discussion of Progress:

The next phase of this project is scheduled for construction in 2024.

### Justification:

At the present time the existing sewer line has roughly the capacity for approximately 850 persons or 350 homes. Significant development north of O Street would signal a need for the building of the phase 2 portion of the pipeline.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	2,171,508	-	-	198,000	6,331,000	15,000	12,000	-	8,727,508
4611	Plant Investment Fees	-	-	12,000	-	-	-	-	-	12,000
<b>Total Revenue</b>		\$2,171,508	-	\$12,000	\$198,000	\$6,331,000	\$15,000	\$12,000	-	\$8,739,508
Expense										
8202	Construction	1,886,316	-	-	-	5,600,000	-	-	-	7,486,316
8204	Contingency	-	-	-	18,000	560,000	-	-	-	578,000
8212	Land/Building Cost/Demolition	111,801	-	-	15,000	-	-	-	-	126,801
8216	Miscellaneous	23	-	-	-	-	-	-	-	23
8224	Operating Supplies	22	-	-	-	-	-	-	-	22
8229	Professional Services	103,355	-	10,000	145,000	75,000	10,000	10,000	-	353,355
8232	Project Management	61,641	-	2,000	15,000	40,000	5,000	2,000	-	125,641
8233	Project Management - Benefits	3,350	-	-	-	-	-	-	-	3,350
8235	Real Estate	-	-	-	5,000	-	-	-	-	5,000
9303	Public Art Fund	5,000	-	-	-	56,000	-	-	-	61,000
<b>Total Expense</b>		\$2,171,508	-	\$12,000	\$198,000	\$6,331,000	\$15,000	\$12,000	-	\$8,739,508
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## Highland Hills Sewer 25th Street Diversion

<b>Project Number:</b>	N743	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Construction Collection	<b>Regions:</b>	3- 10 St South/23 Ave West
<b>Fund:</b>	Sewer Construction	<b>Location:</b>	25th Street/Centerplace Drive and 38th Avenue
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

### Description:

The Sanitary Sewer Masterplan has identified a need to divert flows from the existing 8" sewer main in 25th Street/Centerplace Drive and 38th Avenue. The area has seen significant growth of over the last 20-years and the downstream system was not sized sufficiently to convey the projected growth of the upstream development. The proposed project will divert flows from 25th Street to 38th Avenue to alleviate the capacity concerns in the downstream system. Requires new sewer main infrastructure to be installed in Centerplace Drive, which is a major access for the Centerplace Development and residences in the area. Coordination with the landowner will be required for alignments through the proposed property. This will likely require crossing large diameter storm infrastructure in the area, that may control line and grade of the proposed sewer main.

### Discussion of Progress:

Scheduled to begin 2023.

### Justification:

Identified in recent sanitary sewer collection master plan.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	195,000	932,000	-	-	-	1,127,000
	<b>Total Revenue</b>	-	-	-	\$195,000	\$932,000	-	-	-	\$1,127,000
Expense										
8202	Construction	-	-	-	-	700,000	-	-	-	700,000
8204	Contingency	-	-	-	15,000	150,000	-	-	-	165,000
8212	Land/Building Cost/Demolition	-	-	-	50,000	-	-	-	-	50,000
8229	Professional Services	-	-	-	100,000	50,000	-	-	-	150,000
8232	Project Management	-	-	-	25,000	25,000	-	-	-	50,000
8234	Project Management - Burdened Labor	-	-	-	5,000	-	-	-	-	5,000
9303	Public Art Fund	-	-	-	-	7,000	-	-	-	7,000
	<b>Total Expense</b>	-	-	-	\$195,000	\$932,000	-	-	-	\$1,127,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-





# **Fund 413**

## **Sewer Capital Replacement**

## Trenchless Main and Collector Rehabilitation

<b>Project Number:</b>	11078	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Collection	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4131060830040000011078
<b>Project Status:</b>	Funded		

### Description:

This annual program renews about 1% of the sewer system using cured-in-place pipe (CIPP). The program focuses on the sewers in the worst condition as identified by the City's TV inspection and by maintenance records. The criteria which the priority for lining projects has been modified to evaluate the likelihood and consequences of a sewer main failing creating a risk rating. Risk is dependent on which pipes are determined to be lined annually. Typical risks include traffic impacts during the lining , bypass flow management , and minimizing service outages to customers while lining the pipe.

### Justification:

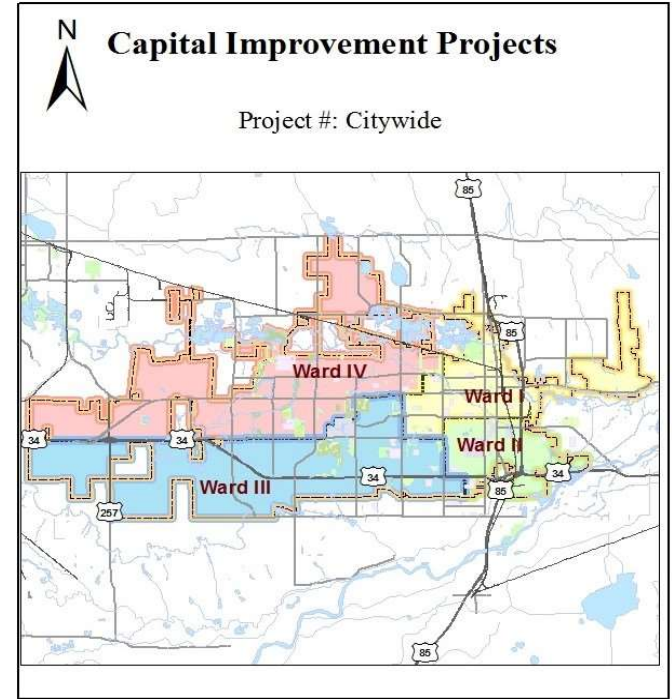
Each year Sewer Collection identifies existing piping that are in poor condition, subject to high infiltration, could have severe corrosion or have a consequence of failure and rehabilitates that pipe using a cure in place process. Lining the identified pipes, improves system capacity, significantly reduces groundwater infiltration to the collection system, and eliminates the risk and consequences of pipe failure to insure public health is maintained by safely conveying wastewater to the wastewater plant. This process allows staff to rehabilitate older sewer lines without excavating the street and minimizing disruption to its customers.

### Impact on Operating Budget:

Lining sewer pipe has reduced expensive emergency pipe repairs and reduces the amount of groundwater entering the collection system being unnecessarily treated at the wastewater plant.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	1,252,810	33,544	550,000	420,000	420,000	420,000	420,000	420,000	3,936,354
4787	Other	-	-	420,000	-	-	-	-	-	420,000
<b>Total Revenue</b>		<b>\$1,252,810</b>	<b>\$33,544</b>	<b>\$970,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$4,356,354</b>
Expense										
8202	Construction	1,154,939	24,652	920,000	400,000	400,000	400,000	400,000	400,000	4,099,591
8216	Miscellaneous	34	36	-	-	-	-	-	-	71
8226	Permits, Fees, Etc	755	-	-	-	-	-	-	-	755
8229	Professional Services	37,920	6,720	10,000	-	-	-	-	-	54,640
8232	Project Management	59,162	2,136	40,000	20,000	20,000	20,000	20,000	20,000	201,297
<b>Total Expense</b>		<b>\$1,252,810</b>	<b>\$33,544</b>	<b>\$970,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$420,000</b>	<b>\$4,356,354</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## Highland Hills Sewer 47th Ave Capacity

<b>Project Number:</b>	11372	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Collection	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	3- 10 St South/23 Ave West
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	16th St and 47th Ave
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4131060402290000011372
<b>Project Status:</b>	Funded		

### Description:

The Sanitary Sewer Masterplan has identified the need to increase capacity in the existing 8" sewer line in 47th Avenue. Highland Hill 47th Ave Capacity Improvements will increase capacity for approximately 1 mile of existing sanitary sewer main to address existing and future flows from the T-bone Lift Station and Highland Hills Area. The existing infrastructure was not sized to convey full build out flows associated with the upstream basin including the T Bone Lift Station. Growth that has occurred in T-bone Subdivision has increased the total flow going to the lift station, requiring the pumps to be upsized, necessitating the downstream improvements. The proposed pipe alignment will cross; 20th Street west of 47th Ave, Monfort Park, and the Main Grape Vine Ditch. The Crossing of Monfort Park will require coordination with CPRD to coordinate sporting events currently held at the park. The project will also be in close proximity to Monfort Elementary and Aims Community College and will need to coordinate traffic impacts during construction, especially with the crossing of 20th Street.

### Discussion of Progress:

Scheduled to begin construction in 2025.

### Justification:

Flows from the T Bone lift station were routed to this sewer main line which wasn't designed to carry these additional flows. The sanitary sewer master plan identified an existing capacity issue and the City has been monitoring the capacity. Growth that has occurred in T Bone Subdivision has increased the total flow going to the lift station, requiring the pumps to be upsized. This project will address downstream capacity concerns during dry and wet weather conditions.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	2,550,000	-	-	2,550,000
4787	Other	-	-	340,000	-	-	-	-	-	340,000
<b>Total Revenue</b>		-	-	\$340,000	-	-	\$2,550,000	-	-	\$2,890,000
Expense										
8202	Construction	-	-	-	-	-	1,700,000	-	-	1,700,000
8204	Contingency	-	-	30,000	-	-	500,000	-	-	530,000
8226	Permits, Fees, Etc	-	-	10,000	-	-	100,000	-	-	110,000
8229	Professional Services	-	-	265,000	-	-	200,000	-	-	465,000
8232	Project Management	-	-	35,000	-	-	50,000	-	-	85,000
<b>Total Expense</b>		-	-	\$340,000	-	-	\$2,550,000	-	-	\$2,890,000
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

# WWC Sewer System Rehabilitation

<b>Project Number:</b>	11081	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Collection	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4131060830000000011081
<b>Project Status:</b>	Funded		

## Description:

This program covers repairs of sanitary sewer manholes and main lines done by Wastewater Collection crews. Examples of these repairs include replacement of existing manholes, point repairs to main lines, purchase of frames and covers, miscellaneous repair parts, drop repairs and installations, channel repairs and other needed repairs to existing infrastructure. The replacement of manhole frames and covers during the City's Asphalt Overlay program are also included. This budget has been consolidated with Lift Station Rehabilitation which historically addressed upgrades to existing lift stations as identified by the lift station master plan. Needs from this study have been addressed, however there is an on going need for maintenance of these lift stations to insure they are operating efficiently.

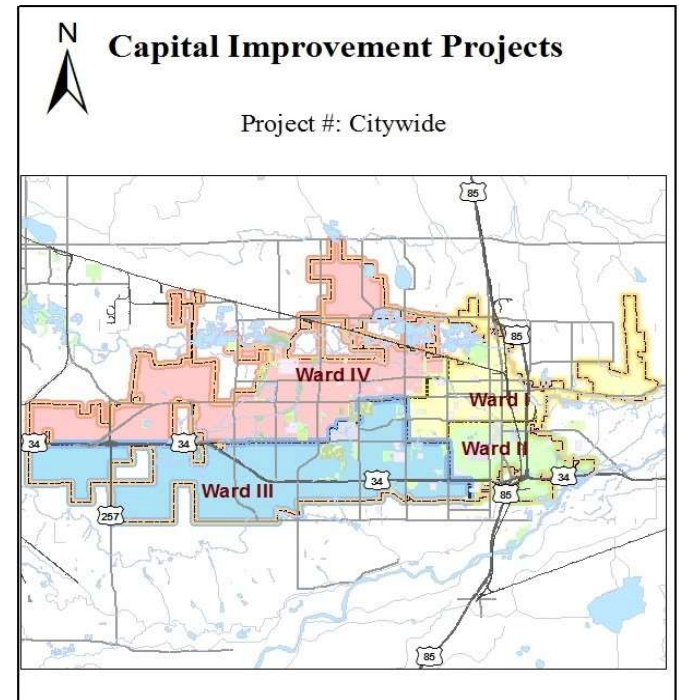
## Discussion of Progress:

Ongoing annual program.

## Justification:

The existing manholes covers, frames and barrels are damaged over time by traffic. Collections staff investigate existing sanitary systems prior to work being completed by the City's Asphalt Overlay program. The program provides funding for any repairs needed to the sewer collection system and existing lift stations.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	421,098	13,195	-	180,000	165,000	165,000	165,000	165,000	1,274,293
4787	Other	-	-	250,000	-	-	-	-	-	250,000
4789	Expense Reimbursement	8,278	-	-	-	-	-	-	-	8,278
<b>Total Revenue</b>		<b>\$429,376</b>	<b>\$13,195</b>	<b>\$250,000</b>	<b>\$180,000</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$1,532,571</b>
Expense										
8202	Construction	57,019	-	80,000	20,000	20,000	20,000	20,000	20,000	237,019
8208	Furniture, Fixtures & Equipment	3,128	-	-	-	-	-	-	-	3,128
8224	Operating Supplies	229,151	13,195	95,000	95,000	95,000	95,000	95,000	95,000	812,346
8226	Permits, Fees, Etc	1,295	-	-	-	-	-	-	-	1,295
8229	Professional Services	-	-	10,000	-	-	-	-	-	10,000
8232	Project Management	14,482	-	-	-	-	-	-	-	14,482
8244	Capital Equipment >\$5,000	124,300	-	65,000	65,000	50,000	50,000	50,000	50,000	454,300
<b>Total Expense</b>		<b>\$429,376</b>	<b>\$13,195</b>	<b>\$250,000</b>	<b>\$180,000</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$165,000</b>	<b>\$1,532,571</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## Sewer Collection System Rehabilitation

<b>Project Number:</b>	11075	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Collection	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4131060830010000011075
<b>Project Status:</b>	Funded		

### Description:

This is an ongoing program to physically replace undersized lines in the sewer collection system. The City typically replaces two to three blocks of line each year, focusing on the worst problem areas. The budget has been consolidated with Manhole Rehabilitation which includes rehabilitation of various manholes with severe corrosion issues using cementitious materials . A new 4" main was identified in 18th Street west of 13th Avenue. There are 3 properties that appear to have compound sewer services that will be addressed with sewer stubs for future connection. The work is planned in advance of KGM overlay within the project limits in 2022.

### Discussion of Progress:

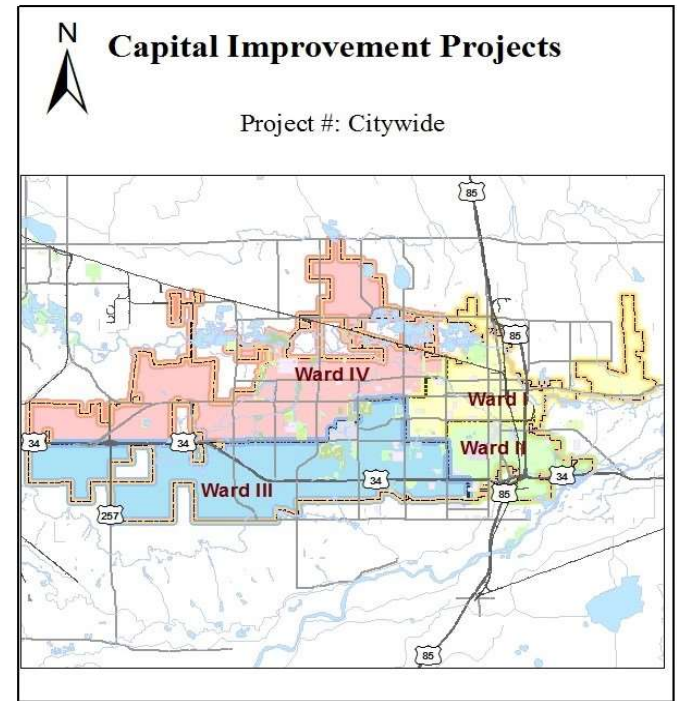
This is an annual program.

### Justification:

This program was identified as a high priority in the 2008 Sanitary Sewer Master Plan. The master plan identified lines six inches or smaller that could not be properly maintained and identified compound taps for elimination. Completion of these projects will improve services to under-served customers and clarify ownership and maintenance responsibilities of customer service lines.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	546,288	-	250,000	160,000	160,000	160,000	160,000	160,000	1,596,288
4787	Other	-	-	145,000	-	-	-	-	-	145,000
<b>Total Revenue</b>		\$546,288	-	\$395,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$1,741,288
Expense										
8202	Construction	402,091	-	250,000	125,000	125,000	125,000	125,000	125,000	1,277,091
8216	Miscellaneous	26	-	-	-	-	-	-	-	26
8224	Operating Supplies	107,386	-	100,000	15,000	15,000	15,000	15,000	15,000	282,386
8226	Permits, Fees, Etc	2,287	-	-	-	-	-	-	-	2,287
8229	Professional Services	18,956	-	30,000	10,000	10,000	10,000	10,000	10,000	98,956
8232	Project Management	15,542	-	15,000	10,000	10,000	10,000	10,000	10,000	80,542
<b>Total Expense</b>		\$546,288	-	\$395,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$1,741,288
<b>Net Total</b>		-	-	-	-	-	-	-	-	-





# Wastewater Flow Monitoring Program

<b>Project Number:</b>	11080	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Collection	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	4131060830100000011080
<b>Project Status:</b>	Funded		

## Description:

Staff will install an additional flow meter and rain gauge in 2022 upstream of LS9 to monitor flows as recommended by the Sanitary Sewer Masterplan. The monitoring of these flow will help determine the locations of concentrated maintenance efforts. Professional services have been included to update the sanitary sewer masterplan model if required and to analyze various development scenarios.

## Discussion of Progress:

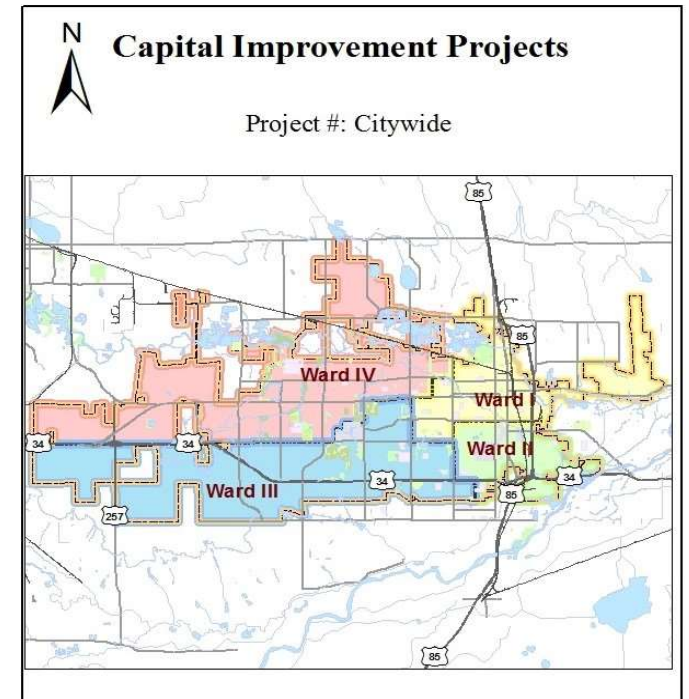
This is an ongoing annual program.

## Justification:

If additional flow monitoring is not obtained it could be difficult to provide more detailed analysis of the downstream capacity concerns within the downstream system identified in the Sanitary Sewer Masterplan.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	52,990	-	-	85,000	85,000	85,000	85,000	85,000	477,990
4787	Other	-	-	115,000	-	-	-	-	-	115,000
4789	Expense Reimbursement	1,485	-	-	-	-	-	-	-	1,485
<b>Total Revenue</b>		\$54,475	-	\$115,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$594,475
Expense										
8202	Construction	5,228	-	-	5,000	5,000	5,000	5,000	5,000	30,228
8224	Operating Supplies	110	-	5,000	5,000	5,000	5,000	5,000	5,000	30,110
8226	Permits, Fees, Etc	130	-	-	-	-	-	-	-	130
8229	Professional Services	45,626	-	75,000	5,000	5,000	5,000	5,000	5,000	145,626
8232	Project Management	3,380	-	5,000	5,000	5,000	5,000	5,000	5,000	33,380
8242	Utility Services	-	-	5,000	15,000	15,000	15,000	15,000	15,000	80,000
8244	Capital Equipment >\$5,000	-	-	25,000	50,000	50,000	50,000	50,000	50,000	275,000
<b>Total Expense</b>		\$54,475	-	\$115,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$594,475
<b>Net Total</b>		-	-	-	-	-	-	-	-	-





## 8th Ave Sanitary/Storm MH Conflict

<b>Project Number:</b>	N740	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Alley, 100 Block 8th Avenue
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	2023*
<b>Project Status:</b>	Funded		

### Description:

Replacement of two 6" VCP clay pipes that are over 70 years old that flow through an existing storm manhole in 8th Avenue. The project assumes a conceptual design to collect basic design information and existing utility information. Followed by a final design assuming flows would be diverted through private property to the north, requiring easement acquisition and new pipe required to divert flows to either 11th Street and 9th Ave or 11th Street and 8th Avenue. It is anticipated that an additional permanent flow monitor is going to be placed in this basin (work completed under flow monitoring budget) and that an additional 2 years of data will be collected for this basin.

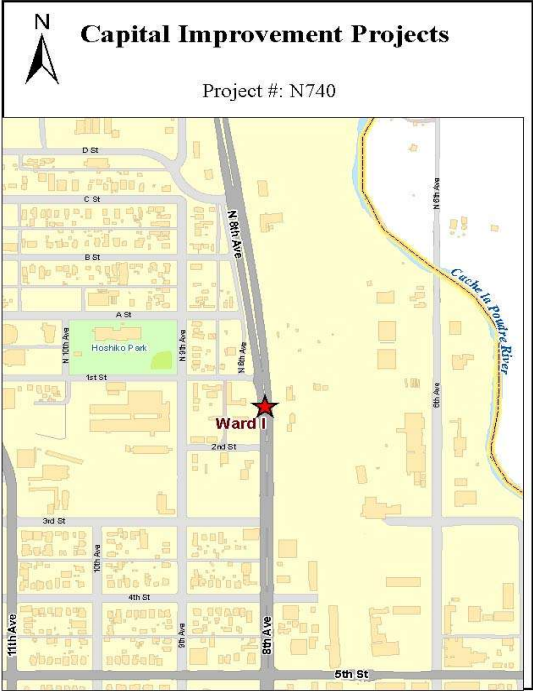
### Discussion of Progress:

Scheduled to begin monitoring and design in 2023 with construction in 2025.

### Justification:

The two sanitary mains through the existing storm manhole could introduce additional storm flows into the sewer collection system. In the event of encasement or pipe failure wastewater could discharge to the river. The existing sewer mains reduce the hydraulic capacity of the storm sewer that would increase the chances of storm flows surcharging out of the MH. There is limited space to replace the existing sanitary sewer infrastructure in the alley, with overhead electric and existing storm sewer. Additionally the building has zero setback from the alley ROW at 8th Ave. The project could require improvements in 8th Avenue, which is CDOT ROW and additional easements to address the conflicts and potentially divert flows to 11th Street.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	66,000	140,000	445,000	-	-	651,000
	<b>Total Revenue</b>	-	-	-	\$66,000	\$140,000	\$445,000	-	-	\$651,000
Expense										
8202	Construction	-	-	-	-	-	375,000	-	-	375,000
8204	Contingency	-	-	-	6,000	15,000	40,000	-	-	61,000
8212	Land/Building Cost/Demolition	-	-	-	-	35,000	-	-	-	35,000
8229	Professional Services	-	-	-	50,000	75,000	20,000	-	-	145,000
8232	Project Management	-	-	-	10,000	10,000	10,000	-	-	30,000
8235	Real Estate	-	-	-	-	5,000	-	-	-	5,000
	<b>Total Expense</b>	-	-	-	\$66,000	\$140,000	\$445,000	-	-	\$651,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



# Highland Hills Sewer Bittersweet Park

<b>Project Number:</b>	N745	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	3- 10 St South/23 Ave West
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	35th Avenue and 16th Street through Bittersweet Park
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

The Sanitary Sewer Masterplan has identified a need to upsize approximately 2,300 feet of sanitary sewer main across 16th Street through Bittersweet Park . The portion of pipe to be upsized through Bittersweet Park is approximately 55 years old and is undersized (10") compared to the upstream and downstream systems, which are sufficiently sized to convey full build out flows in the basin. The existing sanitary sewer main crosses 16th Street west of 35th Avenue and 35th Avenue at the intersection of 13th Street. The replacement of this sewer line will have major impacts on traffic in 35th Avenue and 16th Street adjacent to the park. Trenchless alternatives will need to be considered to minimize traffic and park impacts. The existing sewer crosses Bittersweet Park where the turf was recently replaced. The existing sewer line is in close proximity to heavily used walking trails, playground and restrooms, Weld County Fallen Officers Memorial and is close to several large trees within the park. There are several celebrations held at the park that will need to be considered with construction. The project will require extensive coordination with CPRD. The design phase of this project will likely be combined with the Highland Hills 35th Ave Capacity Improvements project however construction will likely be phased.

## Discussion of Progress:

Scheduled to begin design in 2024 and construction in 2026.

## Justification:

During wet weather flows the existing 10" pipe surcharges, so upsizing it to 15" is required to convey flows introduced from upstream collector mains that are sufficiently sized for full build out conditions.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	265,000	-	1,255,000	-	1,520,000
	<b>Total Revenue</b>	-	-	-	-	\$265,000	-	\$1,255,000	-	\$1,520,000
Expense										
8202	Construction	-	-	-	-	-	-	900,000	-	900,000
8204	Contingency	-	-	-	-	20,000	-	275,000	-	295,000
8226	Permits, Fees, Etc	-	-	-	-	30,000	-	-	-	30,000
8229	Professional Services	-	-	-	-	200,000	-	60,000	-	260,000
8232	Project Management	-	-	-	-	15,000	-	20,000	-	35,000
	<b>Total Expense</b>	-	-	-	-	\$265,000	-	\$1,255,000	-	\$1,520,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Highland Hills Sewer 35th Ave Capacity

<b>Project Number:</b>	N744	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	3- 10 St South/23 Ave West , 1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	35th Avenue 16th Street to 19th Street
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

The Sanitary Sewer Masterplan has identified a need to upsize approximately 1,800 feet of sanitary sewer main in 35th Avenue from 16th Street to 19th Street. While Lift Station 13 (22nd St and 35th Avenue) was upsized in 2011 due to growth in the upstream basin, the downstream system was undersized to handle the rated capacity of the lift station. The proposed improvements will convey the rated capacity of the lift station. The design phase of this project will likely be combined with the Highland Hills Bittersweet project however construction will likely be phased. The existing sanitary sewer main crosses 35th Ave just south of 18th Street and crosses 16th Street in the middle of the northbound lanes of 35th Avenue. The replacement of this sewer line will have major impacts on traffic in 35th Avenue and 16th Street. Trenchless alternatives will need to be considered to minimize traffic impacts. It would be anticipated that there are significant dry utilities along 35th Avenue and at the intersection of 16th Street as well. The project is in close proximity to Bittersweet Park and will require coordination with CPRD.

### Discussion of Progress:

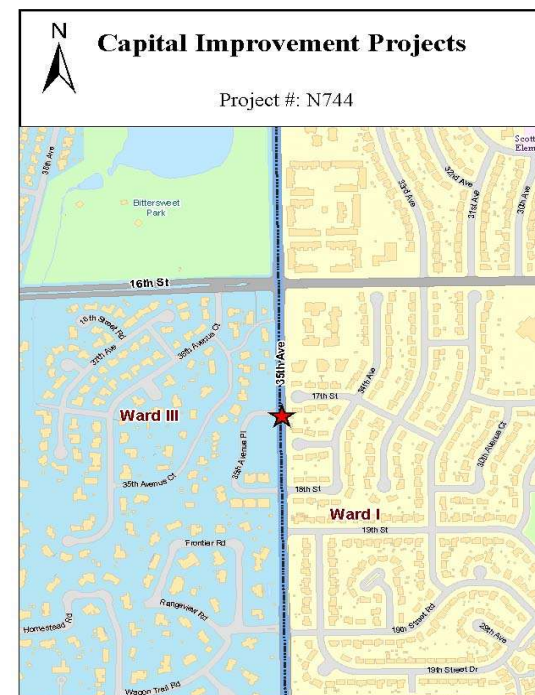
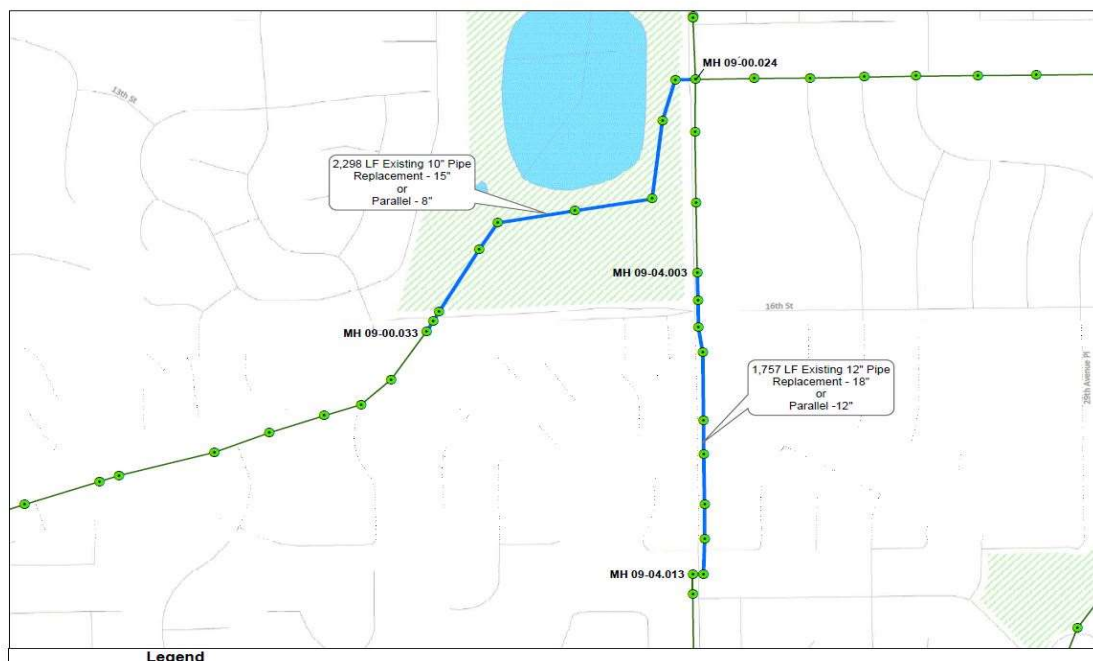
Scheduled to begin design in 2024 and construction in 2025.

### Justification:

Lift Station 13 was upsized for buildout conditions but downstream collector mains were not, so in order to convey wet weather flows from LS 13, 35th Avenue sewer mains require corresponding upsizing.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	255,000	1,230,000	-	-	1,485,000
	<b>Total Revenue</b>	-	-	-	-	\$255,000	\$1,230,000	-	-	\$1,485,000
Expense										
8202	Construction	-	-	-	-	-	900,000	-	-	900,000
8204	Contingency	-	-	-	-	20,000	250,000	-	-	270,000
8226	Permits, Fees, Etc	-	-	-	-	20,000	-	-	-	20,000
8229	Professional Services	-	-	-	-	200,000	60,000	-	-	260,000
8232	Project Management	-	-	-	-	15,000	20,000	-	-	35,000
	<b>Total Expense</b>	-	-	-	-	\$255,000	\$1,230,000	-	-	\$1,485,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-







## Balsam Ave & LS9 Capacity Assessment

<b>Project Number:</b>	N741	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	2- 16 St South/23 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Balsam Ave & LS9
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

The Sanitary Sewer Masterplan identified deficiencies in the Balsam Avenue Trunkline and LS9 during the existing conditions wet weather flow. The masterplan identified abandonment of this lift station, with future construction of the East Greeley Lift Station, however it is not anticipated that this lift station could be constructed for some time. This project will provide a more in depth focus on existing flows within the Balsam Avenue Trunkline and assessment of dry and wet weather flows based on additional flow monitoring that is anticipated to be collected in this basin. It is anticipated that an additional permanent flow monitor is going to be placed in this basin (work completed under flow monitoring budget) and that an additional 2 years of data will be collected for this basin.

### Justification:

The Sanitary Sewer Masterplan identified deficiencies in the Balsam Avenue Trunkline and LS9 capacities. Since construction associated with these Master Plan recommendations is years away, a focused study of the basin can provide better guidance for scheduling and scoping of these upgrades.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	120,000	-	-	120,000
	<b>Total Revenue</b>	-	-	-	-	-	\$120,000	-	-	\$120,000
Expense										
8204	Contingency	-	-	-	-	-	10,000	-	-	10,000
8229	Professional Services	-	-	-	-	-	100,000	-	-	100,000
8232	Project Management	-	-	-	-	-	10,000	-	-	10,000
	<b>Total Expense</b>	-	-	-	-	-	\$120,000	-	-	\$120,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Central 16th Sewer Replacement

<b>Project Number:</b>	N742	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	16th Street and 16th Ave to 13th Street and 16th Ave
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

The Sanitary Sewer Masterplan has identified that with minor growth in this basin that additional capacity will be required to convey wastewater flows in an existing pipe near capacity. The project will provide additional capacity by upsizing approximately 1,800 feet of 8" sewer main from 13th Street to 16th Street in 16th Ave. Requires Upsizing of sewer main across Greeley Central baseball field. Construction sequencing will have to consider impacts to the field and impacts to the school during construction. Project will require coordination with Northern Colorado Medical Center as the project would cross 16th Street which is a major access to the hospital. Sewer upsizing will also cross 13th Street.

### Discussion of Progress:

Scheduled to begin design in 2026 and construction in 2027

### Justification:

Identified in sewer collection master plan.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	255,000	1,270,000	1,525,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$255,000	\$1,270,000	\$1,525,000
Expense										
8202	Construction	-	-	-	-	-	-	-	1,000,000	1,000,000
8204	Contingency	-	-	-	-	-	-	20,000	200,000	220,000
8212	Land/Building Cost/Demolition	-	-	-	-	-	-	10,000	-	10,000
8229	Professional Services	-	-	-	-	-	-	200,000	50,000	250,000
8232	Project Management	-	-	-	-	-	-	20,000	20,000	40,000
8235	Real Estate	-	-	-	-	-	-	5,000	-	5,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$255,000	\$1,270,000	\$1,525,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



# North Poudre RR Sewer Ph 1

<b>Project Number:</b>	N770	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation
<b>Project Type:</b>	Sewer Construction Collection	<b>Regions:</b>	4 - 10 St North/23 Ave West
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Poudre River
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

Deficiency and development-driven project identified in the 2021 Sanitary Sewer Master Plan. Replace or parallel approximately 3,600 LF of existing 36" Poudre trunk line east of 35th Ave.

## Discussion of Progress:

Scheduled to begin design in 2026 with construction in 2027.

## Justification:

The 36" Poudre Trunk Line, east of 35th Avenue, between F and C Streets, has existing capacity limitations. It is undersized to accommodate projected growth upstream in both Poudre and Sheep Draw Basins. The Sanitary Sewer Master Plan provided two options to increase capacity (1) replace and upsize to a 54" or (2) install a 42" pipe parallel to the existing trunk line.

Page 21 of 44

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	1,000,000	6,120,000	7,120,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$1,000,000	\$6,120,000	\$7,120,000
Expense										
8202	Construction	-	-	-	-	-	-	-	4,300,000	4,300,000
8204	Contingency	-	-	-	-	-	-	50,000	1,300,000	1,350,000
8212	Land/Building Cost/Demolition	-	-	-	-	-	-	100,000	-	100,000
8226	Permits, Fees, Etc	-	-	-	-	-	-	30,000	-	30,000
8229	Professional Services	-	-	-	-	-	-	800,000	500,000	1,300,000
8232	Project Management	-	-	-	-	-	-	20,000	20,000	40,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$1,000,000	\$6,120,000	\$7,120,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Lift Station 9

<b>Project Number:</b>	N768	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Construction Collection	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	TBD
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

Construction of a new Sanitary Sewer Lift Station to replace the undersized Lift Station #9 in East Greeley. Future growth-driven project identified in the 2021 Sanitary Sewer Master Plan as deficient.

### Discussion of Progress:

Scheduled to begin design in 2026 with construction in 2027 and 2028.

### Justification:

Lift Station #9's current capacity is insufficient for current flows, especially during wet weather events, due to the collection system within its service area being highly susceptible to infiltration. Modeling shows that peak inflows exceed the capacity of the lift station, which cause the level in the wet well to rise such that wastewater begins to surcharge upstream. In addition, the City anticipates additional growth in East Greeley. To service this area, Lift Station #9 will need to be relocated from its current location further east.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Future
Revenue										
	Fund Balance	-	-	-	-	-	-	1,600,000	4,855,000	5,865,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$1,600,000	\$4,855,000	\$5,865,000
Expense										
8202	Construction	-	-	-	-	-	-	-	3,500,000	4,500,000
8204	Contingency	-	-	-	-	-	-	-	1,000,000	1,000,000
8212	Land/Building Cost/Demolition	-	-	-	-	-	-	200,000	-	-
8226	Permits, Fees, Etc	-	-	-	-	-	-	30,000	-	-
8229	Professional Services	-	-	-	-	-	-	1,250,000	250,000	250,000
8232	Project Management	-	-	-	-	-	-	20,000	20,000	20,000
8235	Real Estate	-	-	-	-	-	-	100,000	-	-
8242	Utility Services	-	-	-	-	-	-	-	50,000	50,000
9303	Public Art Fund	-	-	-	-	-	-	-	35,000	45,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$1,600,000	\$4,855,000	\$5,865,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

# Sanitary Sewer Master Plan Update

<b>Project Number:</b>	413New2	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

The City recently completed three master plans in 2021 for: (1) non-potable water system, (2) potable water distribution system, and (3) wastewater collection system. To keep the master plans current, the W&S Department plans on having each of them updated every 5 years. Each master plan will be updated on separate years (i.e.) 2025, 2026, and 2027 with the sanitary sewer master being updated in 2027.

## Discussion of Progress:

Planned for 2027.

## Justification:

Maintain an up to date Master Plan for prioritizing capital improvements for the existing and expanding system.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	-	725,000	725,000
	<b>Total Revenue</b>	-	-	-	-	-	-	-	\$725,000	\$725,000
Expense										
8204	Contingency	-	-	-	-	-	-	-	50,000	50,000
8229	Professional Services	-	-	-	-	-	-	-	650,000	650,000
8232	Project Management	-	-	-	-	-	-	-	25,000	25,000
	<b>Total Expense</b>	-	-	-	-	-	-	-	\$725,000	\$725,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



# Sewer Service Line Grouting

<b>Project Number:</b>	413New	<b>Budget Year:</b>	2023
<b>Division:</b>	CAPITAL IMPROVEMENTS	<b>Council Priority:</b>	
<b>Project Type:</b>	Sewer Replacement Collection	<b>Regions:</b>	
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide.
<b>Project Manager:</b>	John Goin	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

## Description:

Project consists of grouting sanitary service connections and laterals that connect to Cured-in-Place linings to alleviate Inflow and Infiltration in areas with high groundwater. Project will prevent groundwater infiltration around cut out sections of the lining required when reconnecting existing sanitary services.

## Discussion of Progress:

Planned for 2023.

## Justification:

Many CIPP-lined sewer mains have been rehabilitated, but through the process, I/I points are created where existing service lines are connected to the lining. These points contribute to I/I in areas of high groundwater, so grouting and sealing them will reduce I/I and decrease flows to WTRP and increase overall capacity.

Page 24 of 44

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	275,000	-	-	-	-	275,000
	<b>Total Revenue</b>	-	-	-	\$275,000	-	-	-	-	\$275,000
Expense										
8202	Construction	-	-	-	180,000	-	-	-	-	180,000
8204	Contingency	-	-	-	45,000	-	-	-	-	45,000
8226	Permits, Fees, Etc	-	-	-	10,000	-	-	-	-	10,000
8232	Project Management	-	-	-	20,000	-	-	-	-	20,000
8242	Utility Services	-	-	-	20,000	-	-	-	-	20,000
	<b>Total Expense</b>	-	-	-	\$275,000	-	-	-	-	\$275,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## WTRF Generator Replacement

<b>Project Number:</b>	11374	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Treatment	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Wastewater Treatment and Reclamation Facility
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	4131060402240000011374
<b>Project Status:</b>	Funded		

### Description:

This project will provide a new backup generator for the Nitrification Phase 2 project. One of the existing generators will be moved to South Plant and the South Plant generator will be taken out of service. Having backup power supply is required by the State.

### Discussion of Progress:

Project costs escalated steeply in 2022 and project will be ongoing in 2023.

### Justification:

Backup power generation is a requirement of the State to keep the WTRF in operation during any power outages. The WTRF must be able to run during any situation. A new, larger backup generator will be installed on North Plant. One of the existing generators will be moved to South Plant to replace the generator there. Currently, it is not recommended to operate the South Plant generator due to its location in an electrically classified room.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	3,780,000	-	-	-	-	3,780,000
4787	Other	-	-	3,140,000	-	-	-	-	-	3,140,000
<b>Total Revenue</b>		-	-	\$3,140,000	\$3,780,000	-	-	-	-	\$6,920,000
Expense										
8202	Construction	-	-	3,000,000	3,500,000	-	-	-	-	6,500,000
8229	Professional Services	-	-	125,000	250,000	-	-	-	-	375,000
8232	Project Management	-	-	15,000	30,000	-	-	-	-	45,000
<b>Total Expense</b>		-	-	\$3,140,000	\$3,780,000	-	-	-	-	\$6,920,000
<b>Net Total</b>		-	-	-	-	-	-	-	-	-

## General Rehabilitation Projects

<b>Project Number:</b>	11079	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Treatment	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Operational Excellence , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Wastewater Treatment and Reclamation Facility - 300 E 8th St
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	4131060830070000011079
<b>Project Status:</b>	Funded		

### Description:

Includes a variety of projects that includes such work as the replacement, rehabilitation, or overhaul of large pumps, valves, actuators, motors, centrifuge units, gear boxes, air handling units, heat exchangers, bar screens, variable frequency drive units, turbo blowers, plant road repairs, landscaping rehab for storm water program, roll-up doors, uninterrupted power supply units (UPS), equipment sensors, UV disinfection lamps & ballasts, building roofs, chemical tanks, etc.

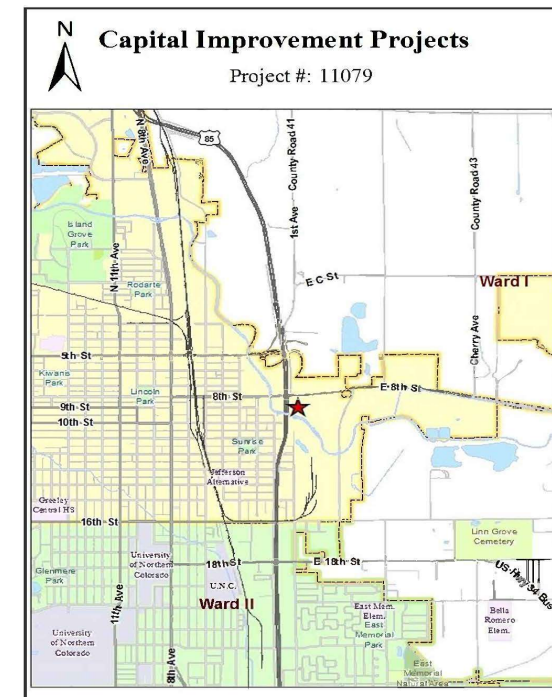
### Discussion of Progress:

This comprises of general rehabilitations projects, including repair and replacement, required at the WTRF. Projects that have been completed this year include both planned projects and emergency rehabilitation projects. Projects that have been completed in 2021 include UV gate gear boxes and Rotork actuator replacement, influent pump re-build, and some routine on-going rehabilitation work. Projects in progress include LSG Vault rehab, various UV maintenance and upgrades, influent wet well cleanout, high-voltage breaker repair, WAS total solids analyzer installation, digester transfer macerator, centrifuge feed pumps, and routine on-going rehabilitation work.

### Justification:

Manufacturer's recommendations, equipment performance, downtime, and repair history; equipment life expectancies; inability to find replacement parts, etc. all enter into the decision as to whether or not a particular item needs to be replaced, repaired, or refurbished. Rehab funds are budgeted annually so that the plant maintenance staff can stay abreast of the need to address aging equipment and infrastructure at the WTRF. Not replacing aging or energy-consuming equipment in a timely manner may result in higher O&M costs, excessive downtime for repairs, and treatment process disruptions. These could result in potential permit non-compliances.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	1,904,494	403,077	200	656,000	974,050	1,012,753	917,140	1,057,247	6,924,961
4787	Other	-	-	912,000	-	-	-	-	-	912,000
<b>Total Revenue</b>		<b>\$1,904,494</b>	<b>\$403,077</b>	<b>\$912,200</b>	<b>\$656,000</b>	<b>\$974,050</b>	<b>\$1,012,753</b>	<b>\$917,140</b>	<b>\$1,057,247</b>	<b>\$7,836,961</b>
Expense										
8202	Construction	655,540	59,349	400,000	50,000	50,000	275,000	350,000	250,000	2,089,890
8208	Furniture, Fixtures & Equipment	212,595	43,385	66,000	48,000	70,400	72,920	75,566	78,344	667,210
8216	Miscellaneous	40,193	375	200	-	-	-	-	-	40,767
8224	Operating Supplies	188,904	33,240	-	-	-	-	-	-	222,144
8229	Professional Services	246,045	74,606	163,000	188,000	334,150	350,608	362,388	594,507	2,313,303
8232	Project Management	59,888	6,167	25,000	25,000	25,000	25,000	25,000	25,000	216,056
8244	Capital Equipment >\$5,000	501,330	185,954	258,000	345,000	494,500	289,225	104,186	109,396	2,287,591
<b>Total Expense</b>		<b>\$1,904,494</b>	<b>\$403,077</b>	<b>\$912,200</b>	<b>\$656,000</b>	<b>\$974,050</b>	<b>\$1,012,753</b>	<b>\$917,140</b>	<b>\$1,057,247</b>	<b>\$7,836,961</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



## WTRF Blower Replacement Phase 2

<b>Project Number:</b>	N599	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Treatment	<b>Council Priority:</b>	
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Wastewater Treatment and Reclamation Facility - 300 E 8th St
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

In 2017, a blower evaluation study was performed and it was decided that the project would be divided into two phases. In 2019, Water and Sewer replaced three of the existing six turbo blowers out at the WTRF as a part of Phase 1. Approximately a year and a half after Phase 1 was completed, it was determined that the existing K-Turbo blowers are failing faster than anticipated and another new blower is needed prior to Phase 2. Phase 1B will include an addition Sulzer blower to match the three new blowers added during Phase 1, adding reliability to the system prior to the implementation of Phase 2. Phase 2 will replace the remaining K-Turbo Blowers and MSCB Blowers to provide reliable operation and with sufficient capacity to meet permit requirements. The proposed Phase 2 improvements also include an expansion of the existing Blower Building.

### Justification:

The blower manufacturer (K-Turbo, Inc.) went out of business two years after the existing blowers were purchased. In the past few years, it has become very difficult to obtain replacement parts and timely service. The blowers are critical plant equipment which provide air (oxygen) to the mainstream biological treatment process (aeration basins). Troubleshooting and technical service is wholly dependent on one technician who resides in the Chicago area. It is uncertain as to how long he will continue to service the remaining K-Turbo blowers in the U.S.

Page 28 of 44

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	610,000	6,157,500	6,767,500
	<b>Total Revenue</b>	-	-	-	-	-	-	\$610,000	\$6,157,500	\$6,767,500
Expense										
8202	Construction	-	-	-	-	-	-	-	6,000,000	6,000,000
8226	Permits, Fees, Etc	-	-	-	-	-	-	40,000	-	40,000
8229	Professional Services	-	-	-	-	-	-	550,000	137,500	687,500
8232	Project Management	-	-	-	-	-	-	20,000	20,000	40,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$610,000	\$6,157,500	\$6,767,500
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Instrumentation and Controls - Wastewater

<b>Project Number:</b>	11072	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Treatment	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Water Pollution and Control and Across the Sewer Collection System
<b>Project Manager:</b>	Mathew Finch	<b>Budget Unit #:</b>	4131060830060000011072
<b>Project Status:</b>	Funded		

### Description:

This program replaces and refurbishes instruments and control systems known as SCADA (Supervisory Control and Data Acquisition). These devices are used to operate collections and the WPCF, including recording data required by regulation and measurement and control of various treatment equipment. This is an on-going project.

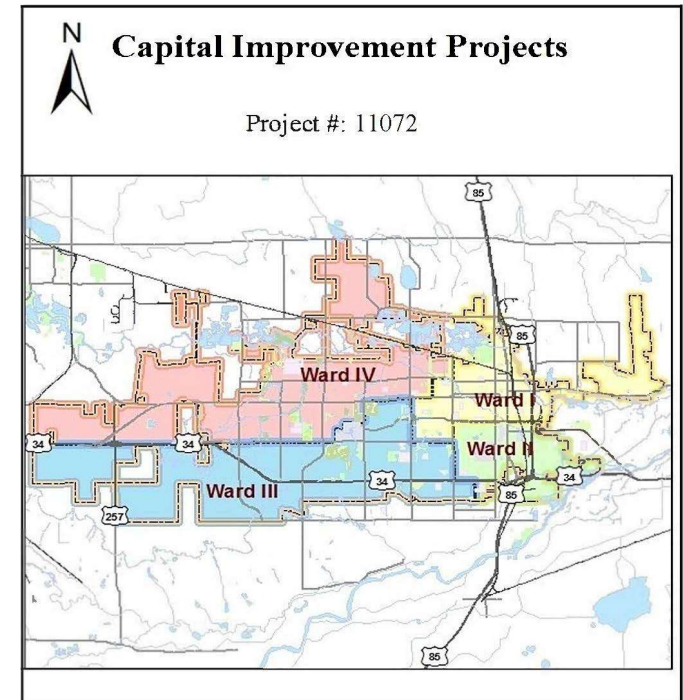
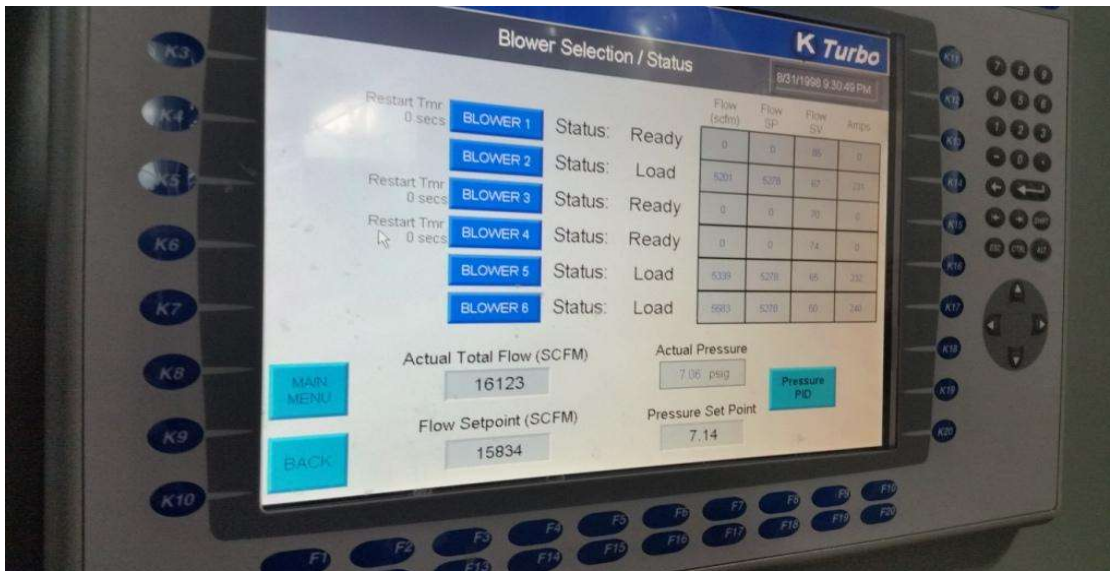
### Discussion of Progress:

Annual program

### Justification:

Instrumentation and controls wear out or become obsolete over time, requiring replacement or major refurbishment. Refurbishment typically occurs at the facilities of the local supplier or manufacturer. City instrumentation technicians perform the replacement projects. This account includes instruments at all wastewater collection and treatment facilities.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	112,788	3,227	-	75,000	75,000	75,000	75,000	75,000	491,015
4787	Other	-	-	75,000	-	-	-	-	-	75,000
<b>Total Revenue</b>		<b>\$112,788</b>	<b>\$3,227</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$566,015</b>
Expense										
8208	Furniture, Fixtures & Equipment	5,264	-	5,000	5,000	5,000	5,000	5,000	5,000	35,264
8224	Operating Supplies	67,206	-	30,000	30,000	30,000	30,000	30,000	30,000	247,206
8229	Professional Services	35,896	3,228	20,000	20,000	20,000	20,000	20,000	20,000	159,124
8244	Capital Equipment >\$5,000	4,421	-1	20,000	20,000	20,000	20,000	20,000	20,000	124,420
<b>Total Expense</b>		<b>\$112,788</b>	<b>\$3,227</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$75,000</b>	<b>\$566,015</b>
<b>Net Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





## WTRF Stream Temperature Assessment

<b>Project Number:</b>	11082	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Treatment	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	300 E 8th St
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	4131060830100000011082
<b>Project Status:</b>	Funded		

### Description:

This project is a continuation of work that was begun in 2015 in which a pre-hearing statement was prepared and submitted to the Colorado Department of Public Health & Environment (CDPHE). The statement was based in part on a lack of evidence relating in-stream temperature to aquatic life health. It outlines the next steps to eliminate 'uncertainty' in the local stream temperature standards. The ongoing assessment study further investigates the 'uncertainty' regarding the water quality stream standards necessary to protect current and future uses. Proposed work includes additional temperature data assessment, aquatic life data collection and analysis, feasibility studies that analyzes possible alternative temperature management strategies, and regulatory support. Additional fish and benthic data may need to be collected over the next few years per CDPHE's recommendations. Subcontractors may need to be hired to assist with sampling and data analysis.

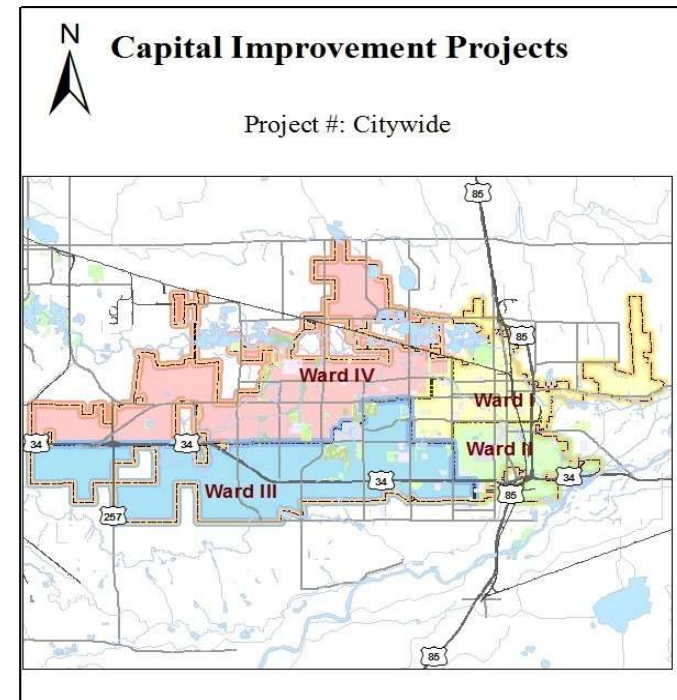
### Discussion of Progress:

Work in 2021 has been focused on CDPS Permit Renewal, involvement in Water Quality regulatory workgroups, participating in Water Quality hearings at the State level, and continuing ambient water quality monitoring.

### Justification:

Failure to meet the current water quality stream standards for temperature may result in the WTRF having to spend several million dollars to design and construct evaporative cooling towers or some other technology to effectively cool the final treated effluent from the wastewater treatment plant prior to its discharge into Segment 12 of the Cache la Poudre River. This technology would be required to meet the current stream standards for temperature. Plant data collected over the past several years indicate that the plant's treated effluent exceeds the current stream standards for this segment of the River often throughout the year. A temporary modification request was granted in 2015 by the CDPHE. The ultimate goal of this study is to receive site specific standards for stream temperature, a variance, or possibly do water quality trading with an industry after December 2020.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	174,595	15,781	-	52,000	52,000	52,000	102,000	52,000	500,376
4787	Other	-	-	60,000	-	-	-	-	-	60,000
<b>Total Revenue</b>		\$174,595	\$15,781	\$60,000	\$52,000	\$52,000	\$52,000	\$102,000	\$52,000	\$560,376
Expense										
8229	Professional Services	174,595	15,781	50,000	50,000	50,000	50,000	50,000	50,000	490,376
8232	Project Management	-	-	10,000	2,000	2,000	2,000	2,000	2,000	20,000
8244	Capital Equipment >\$5,000	-	-	-	-	-	-	50,000	-	50,000
<b>Total Expense</b>		\$174,595	\$15,781	\$60,000	\$52,000	\$52,000	\$52,000	\$102,000	\$52,000	\$560,376
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## WTRF Primary Treatment Phase 2

<b>Project Number:</b>	11071	<b>Budget Year:</b>	2023
<b>Division:</b>	Wastewater Treatment	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Wastewater Treatment and Reclamation Facility - 300 E 8th St
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	4131060830000000011071
<b>Project Status:</b>	Funded		

### Description:

The existing three primary clarifiers were build in the 1960's and 1980's. The next phase of plant improvements as identified in the 2018 Master Plan will address the most critical up front aspects of the treatment process. The project will include replacement of the existing; influent pumps and motors (with new pumps sized for future flow ranges), bar screens, grit chambers, headworks gates, primary clarifier mechanisms, and primary sludge and scum piping, valving, and pumps. This will include upgrades to the primary treatment electrical identified in the condition assessment.

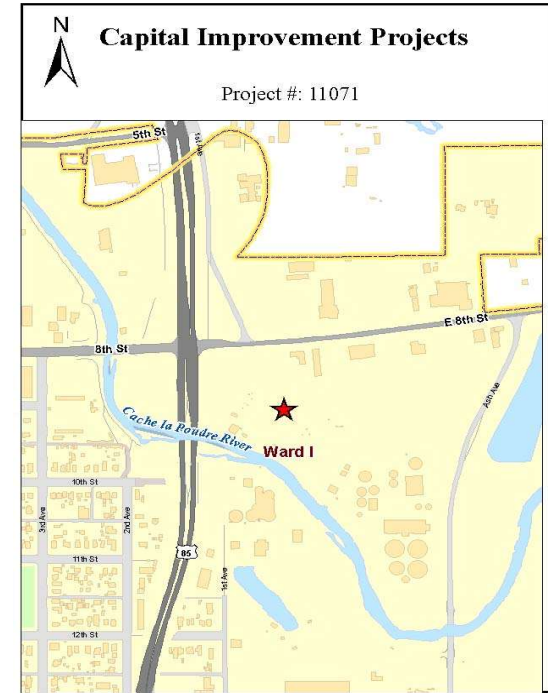
### Discussion of Progress:

Due to financial constraints the timing of the project has been adjusted for construction in 2024.

### Justification:

Phase II Primary Treatment improvements were identified in the 2018 WPCF Masterplan. Much of the improvements with Phase II were identified in the condition assessment. Many of the items including influent pumps and primary clarifier improvements have already been identified in CIP but were consolidated into one project.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	74,385	156,931	370,000	43,201,650	80,000	-	-	43,882,966
	<b>Total Revenue</b>	-	\$74,385	\$156,931	\$370,000	\$43,201,650	\$80,000	-	-	\$43,882,966
Expense										
8202	Construction	-	-	-	-	40,600,650	-	-	-	40,600,650
8216	Miscellaneous	-	-	-	-	1,000	-	-	-	1,000
8229	Professional Services	-	74,385	156,931	350,000	2,500,000	-	-	-	3,081,316
8232	Project Management	-	-	-	20,000	100,000	80,000	-	-	200,000
	<b>Total Expense</b>	-	\$74,385	\$156,931	\$370,000	\$43,201,650	\$80,000	-	-	\$43,882,966
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## WTRF Additional Cake Hopper

<b>Project Number:</b>	413New3	<b>Budget Year:</b>	2023
<b>Division:</b>	WASTEWATER TREATMENT	<b>Council Priority:</b>	
<b>Project Type:</b>		<b>Regions:</b>	
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	WTRF 300 E 8TH STREET
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

This project will install an additional cake hopper to store dewatered biosolids. It will include any upgrades (e.g. structural, piping, electrical, etc.) required to accommodate the new cake hopper.

### Discussion of Progress:

A preliminary structural analysis has been completed in 2022 revealing that structural upgrades will be required. Construction is planned for 2024.

### Justification:

When the original dewatering building was constructed, it was designed and allowed for the placement of a second hopper next to the existing. At the time, it was not installed due to the lower volumes of biosolids produced and the ability of one hopper to store them. Since then, biosolids production has increased alongside population growth, making the second hopper a

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	2,364,000	-	-	-	2,364,000
	<b>Total Revenue</b>	-	-	-	-	\$2,364,000	-	-	-	\$2,364,000
Expense										
8202	Construction	-	-	-	-	2,332,000	-	-	-	2,332,000
8229	Professional Services	-	-	-	-	20,000	-	-	-	20,000
8232	Project Management	-	-	-	-	12,000	-	-	-	12,000
	<b>Total Expense</b>	-	-	-	-	\$2,364,000	-	-	-	\$2,364,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## WTRF Cake Pump Replacement

<b>Project Number:</b>	413New4	<b>Budget Year:</b>	2023
<b>Division:</b>	WASTEWATER TREATMENT	<b>Council Priority:</b>	
<b>Project Type:</b>		<b>Regions:</b>	
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

This project will replace one of the two existing cake pumps at the WTRF.

### Discussion of Progress:

Project has been identified due to age and condition of existing cake pump.

### Justification:

The pump is past its expected lifespan and is in need of replacement. A replacement pump is recommended to ensure proper transfer of dewatered solids to the cake hopper.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	157,500	-	-	157,500
	<b>Total Revenue</b>	-	-	-	-	-	\$157,500	-	-	\$157,500
Expense										
8229	Professional Services	-	-	-	-	-	50,000	-	-	50,000
8232	Project Management	-	-	-	-	-	7,500	-	-	7,500
8244	Capital Equipment >\$5,000	-	-	-	-	-	100,000	-	-	100,000
	<b>Total Expense</b>	-	-	-	-	-	\$157,500	-	-	\$157,500
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Secondary Clarifier Upgrades

<b>Project Number:</b>	413New6	<b>Budget Year:</b>	2023
<b>Division:</b>	WASTEWATER TREATMENT	<b>Council Priority:</b>	
<b>Project Type:</b>	Sewer Replacement Treatment	<b>Regions:</b>	
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	WTRF 300 E. 8th Street
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

As part of the 2018 Master plan, it was identified that the secondary clarifier mechanisms need replaced due to their age and condition. In addition to replacement of the mechanisms, improvements to address issues with scum removal and solids short-circuiting in the clarifiers will be completed. Modeling of the secondary clarifier performance and inlet design alternatives will also be completed to help enhance performance of the clarifiers. This project will include the design and construction for the upgrades.

### Discussion of Progress:

Planning scheduled to start in 2026.

### Justification:

This was identified in the 2018 Master Plan Phase 3 due to age and condition of equipment. Phase 3 is now being divided into projects needed for capacity expansion and due to age/condition. This will be completed in the timeline laid out in the Master Plan due to the age/condition of the equipment.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	365,000	4,110,000	4,475,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$365,000	\$4,110,000	\$4,475,000
Expense										
8202	Construction	-	-	-	-	-	-	-	4,000,000	4,000,000
8226	Permits, Fees, Etc	-	-	-	-	-	-	40,000	-	40,000
8229	Professional Services	-	-	-	-	-	-	300,000	85,000	385,000
8232	Project Management	-	-	-	-	-	-	25,000	25,000	50,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$365,000	\$4,110,000	\$4,475,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-



## Secondary Digesters Rehabilitation

<b>Project Number:</b>	413New5	<b>Budget Year:</b>	2023
<b>Division:</b>	WASTEWATER TREATMENT	<b>Council Priority:</b>	
<b>Project Type:</b>		<b>Regions:</b>	
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

This project will include the design of and construction for rehabilitating the existing Secondary Digesters at the WTRF.

### Discussion of Progress:

The project has been identified with a feasibility study planned in 2023.

### Justification:

The existing digesters are past their anticipated lifespan and have some significant structural deficiencies. The tanks are necessary for storing digestate prior to dewatering. The tanks are also available as a holding tank that can serve as a buffer during emergencies or maintenance shutdowns. In addition, the tanks are a key component of the Phosphorus Side Stream Treatment

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	145,000	351,000	2,095,000	-	-	2,591,000
	<b>Total Revenue</b>	-	-	-	\$145,000	\$351,000	\$2,095,000	-	-	\$2,591,000
Expense										
8202	Construction	-	-	-	-	-	2,000,000	-	-	2,000,000
8226	Permits, Fees, Etc	-	-	-	-	31,000	-	-	-	31,000
8229	Professional Services	-	-	-	125,000	300,000	75,000	-	-	500,000
8232	Project Management	-	-	-	20,000	20,000	20,000	-	-	60,000
	<b>Total Expense</b>	-	-	-	\$145,000	\$351,000	\$2,095,000	-	-	\$2,591,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-

## Utility Billing Replacement-Sewer

<b>Project Number:</b>	11073	<b>Budget Year:</b>	2023
<b>Division:</b>	Sewer General Management	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Studies	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Erik Dial	<b>Budget Unit #:</b>	4131060800000000011073
<b>Project Status:</b>	Funded		

### Description:

The current Utility Billing software is at its end of life. It will be replaced with a new system that will enhance customer service and reporting capabilities. Greeley had shortlisted 3 vendor solutions in early 2020. The vendors provided their pricing with their solutions and the budget numbers are based off of their proposals. Because the project was postponed, some inflation is assumed.


### Discussion of Progress:

Greeley had shortlisted 3 vendor solutions in early 2020. The vendors provided their pricing with their solutions and the budget numbers are based off of their proposals. Because the project was postponed, some inflation is assumed.

### Justification:

The current Utility Billing software will only be supported for 2-3 more years. A new system is needed. This will be funded by the Water, Sewer, and Stormwater funds.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	29,678	-	-	1,200,000	-	-	-	-	604,678
4787	Other	-	-	625,000	-	-	-	-	-	625,000
<b>Total Revenue</b>		\$29,678	-	\$625,000	\$1,200,000	-	-	-	-	\$1,229,678
Expense										
8229	Professional Services	29,678	-	-	1,200,000	-	-	-	-	1,229,678
<b>Total Expense</b>		\$29,678	-	-	\$1,200,000	-	-	-	-	\$1,229,678
<b>Net Total</b>		-	-	\$625,000	-	-	-	-	-	-



City of Greeley  
Director of Finance  
P.O. Box 1928  
Greeley, CO 80632-1928

### Statement of Account for Utility Service(s)

THIS BILL SHOWS A PREVIOUS AMOUNT DUE. PLEASE REMIT AT EARLIEST CONVENIENCE. IF PYMT HAS BEEN MADE, THANK YOU.

#### ACCOUNT INFORMATION

Account Number: **222-222222-22**

Service: **2000 GREELEY AVENUE CT**

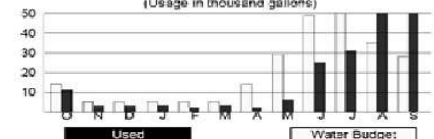
Location: **Persons in Household: 4 Irrigable Area: 7799**

#### METER INFORMATION

Meter ID	Date	Curr Read	Date	Prev Read	Usage
97403425U	09/28	750	08/28	700	50

#### CONSUMPTION HISTORY

(Usage in thousand gallons)



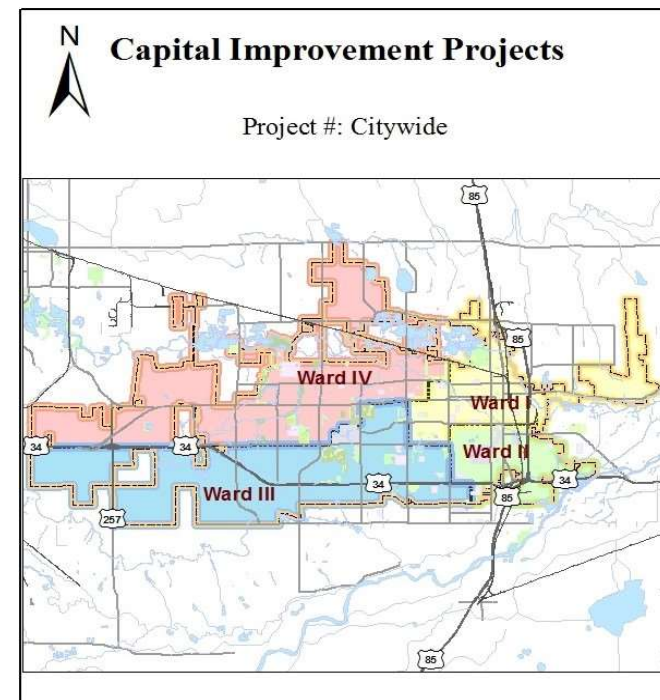
#### WATER CHARGES

BUDGET:	Indoor	7	Outdoor	2%	Total	28
<b>RESIDENTIAL WATER</b>						
Water Budget (0% to 100%)	28		3.97			\$108.64
Inefficient Use (>100% to 130%)	9		4.85			\$42.66
Excessive Use (>130% to 150%)	5		6.62			\$30.20
Unsustainable Use (>150%)	8		8.82			\$68.96
Base Charge						\$11.63

#### BILLING SUMMARY

Payments	\$165.74
Est Fwd	\$10.74
RESIDENTIAL WATER	\$262.29
RESIDENTIAL SEWER	\$15.72
STORMWATER	\$11.09

CURRENT CHARGES	\$289.10
<b>TOTAL DUE ON 10/18/17</b>	<b>\$299.84</b>



## Capital Outlay Replacement - Sewer

<b>Project Number:</b>	11076	<b>Budget Year:</b>	2023
<b>Division:</b>	Sewer General Management	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Studies	<b>Regions:</b>	0 - All Wards
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	Citywide
<b>Project Manager:</b>	Erik Dial	<b>Budget Unit #:</b>	4131060105000000011076
<b>Project Status:</b>	Funded		

### Description:

Replacement of rolling stock, e.g., pickups, tractor backhoes, loaders, compressors, sewer jet units, dump trucks, utility vehicles, and other identified sewer replacement capital items.

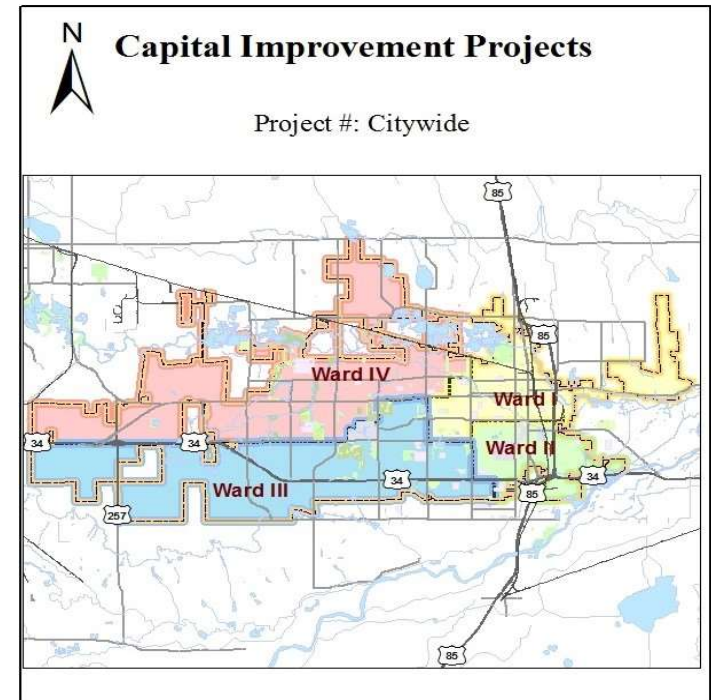
### Discussion of Progress:

This budget includes capital outlay replacement items for both the WWT and WWC Divisions

### Justification:

Replacement of rolling stock that has reached the end of its useful life. Maintains the ability to perform daily tasks and handle emergency situations.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	39,275	-	-	388,424	556,141	1,048,147	170,307	58,024	2,260,318
4787	Other	-	-	214,648	-	-	-	-	-	214,648
5801	Sales Of Fixed Assets	-14,875	-	-	-	-	-	-	-	-14,875
<b>Total Revenue</b>		\$24,400	-	\$214,648	\$388,424	\$556,141	\$1,048,147	\$170,307	\$58,024	\$2,460,091
Expense										
8142	Construction and Maintenance	-	-	-	-	457,320	868,850	-	-	1,326,170
8144	Transportation/Vehicles	-	-	147,048	338,424	48,821	129,297	120,307	58,024	841,921
8149	Other	4,167	-	67,600	50,000	50,000	50,000	50,000	-	271,767
8232	Project Management	20,233	-	-	-	-	-	-	-	20,233
<b>Total Expense</b>		\$24,400	-	\$214,648	\$388,424	\$556,141	\$1,048,147	\$170,307	\$58,024	\$2,460,091
<b>Net Total</b>		-	-	-	-	-	-	-	-	-



## WTRF Master Plan Updates

<b>Project Number:</b>	N670	<b>Budget Year:</b>	2023
<b>Division:</b>	Sewer Capital Improvement	<b>Council Priority:</b>	Greeley Water: History, Heritage, Innovation , Your Home is Here
<b>Project Type:</b>	Sewer Replacement Studies	<b>Regions:</b>	1- 16 St North/35 Ave East
<b>Fund:</b>	Sewer Capital Replacement	<b>Location:</b>	WTRF
<b>Project Manager:</b>	Cadee Oakleaf	<b>Budget Unit #:</b>	Unassigned
<b>Project Status:</b>	Funded		

### Description:

Future master planning updates will provide decision points with respect to uncertainties and issues that are currently not fully defined. The proposed CIP recommends regular Master Plan updates with two coordinated planning efforts of liquids and solids treatment needs over the coming 10 years. The first Master Plan update, scheduled in 2026, needs to focus on a detailed update of growth, floodplain requirements, and long-term siting of improvements. This update will address uncertainties and position the City well in advance of the Phase 3 improvements.

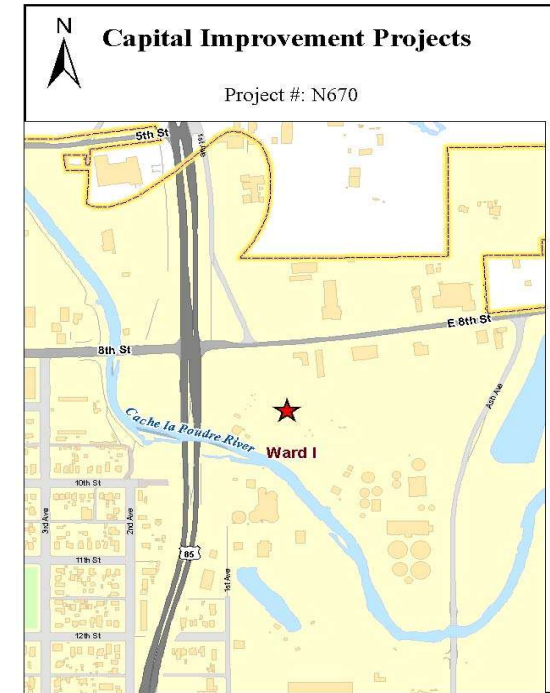
### Discussion of Progress:

Planned for a phase in 2023 to assess flows, loading, stream temperature, and regulatory compliance; and then in 2026 to address future growth and plant needs.

### Justification:

This master plan is needed to address uncertainty as it relates to flow and load projections as the City is growing, future regulatory permit requirements, future floodplain regulations within the area that are currently not well defined, and to develop how the plant will expand in the future. As the City is growing that plant will need to expand as well. This master plan will address how the plant will expand in the future with limited available property around the site.

GL Account	Description	Previous 3 Years	2021 Actual	2022 Revised Budget	2023	2024	2025	2026	2027	Grand Total
Revenue										
	Fund Balance	-	-	-	-	-	-	715,000	-	715,000
	<b>Total Revenue</b>	-	-	-	-	-	-	\$715,000	-	\$715,000
Expense										
8229	Professional Services	-	-	-	-	-	-	675,000	-	675,000
8232	Project Management	-	-	-	-	-	-	40,000	-	40,000
	<b>Total Expense</b>	-	-	-	-	-	-	\$715,000	-	\$715,000
	<b>Net Total</b>	-	-	-	-	-	-	-	-	-







# **Fund 421**

## **Water Operating and Maintenance**

**Water Administration****421-8500-10000**

GL Account *	Notes	2023
7111- Regular Employees		925,756
7112- Salaries & Wages - Seasonal		15,991
7121- Overtime-Regular		5,584
7211- Disability		5,368
7212- Health		155,386
7213- Dental		4,645
7214- Vision		208
7215- Life		2,742
7216- Workers Compensation		1,593
7221- General Employees		37,031
7227- 401K		17,776
7231- FICA		57,393
7234- Medicare		13,424
7314- Office Supplies & Materials	General supplies that fall outside the "office" designation.	15,000
7316- Computer Hardware/Software < \$5000	Computer equipment	4,500
7317- Meals/Food - Non-Travel Related	Food purchases for meetings	5,000
7325- Clothing And Uniforms		1,500
7328- Fleet Fuel	Fleet Fuel - Original Budget	2,591
7344- Building and Grounds Maintenance Supplies	Cleaning supplies for W&S admin offices.	500
7411- Postage	6100 pieces @ \$0.50	3,041
7418- Advertising		1,000
7424- In-House Copying		8,000
7426- Outside Printing		4,000
7432- Publications, Subscriptions, and Dues		16,500
7435- Other Purchased Services	Professional services related to rate model development, cross connection control software maintenance, annual financial audit.	102,600
7442- Water/Sewer/Stormwater	Based on incrs & 12mo rolling avg	22,344
7445- Telephone		8,500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	2,426
7472- Hotel and Motel		2,000
7473- Meals		750
7475- Mileage		1,200
7478- Registration	Ten employees @ \$1000/employee.	10,000
7631- Rent	Rent Paid to General Fund 0015050050000000 - Maintenance 5366, Tied to repayment schedule. 2021/2022 ties to schedule.	129,740

**Water Administration****421-8500-10000**

GL Account *	Notes	2023
7650- Computer/Phone User Charges		616,420
7655- Bank/Investment Charges	Charges for utility billing customer online payments.	185,000
7811- Grants-Outside Agencies	regional water workshops	2,300
		<b>2,387,809</b>

**Water Engineering****421-8500-80001**

GL Account *	Notes	2023
7111- Regular Employees		584,654
7112- Salaries & Wages - Seasonal		13,048
7211- Disability		3,390
7212- Health		69,060
7213- Dental		2,065
7214- Vision		92
7215- Life		1,705
7216- Workers Compensation		2,683
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	515
7221- General Employees		23,387
7227- 401K		11,222
7231- FICA		36,252
7232- FICA Seasonal	Seasonal FICA	809
7234- Medicare		8,477
7235- Medicare Seasonal	Seasonal Medicare	188
7314- Office Supplies & Materials		1,750
7315- Small Items of Equipment \$100 - \$5,000		11,200
7316- Computer Hardware/Software < \$5000		4,000
7325- Clothing And Uniforms		1,000
7328- Fleet Fuel		2,507
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	250
7411- Postage		50
7418- Advertising		100
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues	Membership in AWWA, WEF, ASCE, and other professional organizations. Software for project development and modeling. \$10,000 for professional engineering publications, trade journals, and department memberships.	10,000
7435- Other Purchased Services		35,000
7445- Telephone	Balancing telephone and other personnel based expenses between water and sewer engineering to reflect ongoing personnel changes.	6,000
7462- Equipment Maintenance Charges		4,990

**Water Engineering****421-8500-80001**

GL Account *	Notes	2023
7472- Hotel and Motel	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	4,000
7473- Meals	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	2,000
7474- Air Travel	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	2,500
7475- Mileage	2000 miles @ \$0.50	1,000
7477- Other Travel	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	500
7478- Registration	5 employees attending North American Society for Trenchless Technology @ approximately \$850/person	5,000
7650- Computer/Phone User Charges		250
		<b>849,744</b>

**Services and Meters**
**421-8600-86001**

GL Account *	Notes	2023
7111- Regular Employees		354,165
7112- Salaries & Wages - Seasonal		47,610
7121- Overtime-Regular	On call after hour /supervisor weekend rotation.Supervisor weekend on-call/additional FTE possible 22. 21-22 AMI project more overtime.	11,052
7211- Disability		2,053
7212- Health		89,778
7213- Dental		2,686
7214- Vision		118
7215- Life		1,075
7216- Workers Compensation		3,573
7221- General Employees		14,166
7227- 401K		6,803
7231- FICA		21,959
7234- Medicare		5,131
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (A, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives.	1,000
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools".	3,500
7316- Computer Hardware/Software < \$5000	Computer, hardware/software with a per unit cost less than \$5,000 with a useful life of 1 year or more. This does not include repair parts. Upgrades to outdated office and field equipment. Budget will be adjusted 2023 to maintain equipment.	3,500
7317- Meals/Food - Non-Travel Related	Meals/Food - non-travel related food items for in-house meetings and training and concessions.operations will hold external safety/meetings and share expense with multiple departments.	500
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7323- Safety And Personal Protection		3,000
7325- Clothing And Uniforms	Purchase of clothing and uniforms. Includes riot gear and fire helmets. 600/employee x5	3,000
7328- Fleet Fuel	Budgeted by Fleet	19,732

**Services and Meters****421-8600-86001**

GL Account *	Notes	2023
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field manitenace vehicles. vehicle tool boxes, seat covers etc.	1,500
7338- Water, Sewer, Irrigation Line Repair Parts	Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. 15 meters pits @ \$120 each, 15 domes @ \$130 each, 15 setters @ \$110 each, 5 composite 24" lids @ \$240 each, misc. brass fittings 2014 same parts with a 4.5% mark up (\$1400)	10,000
7344- Building and Grounds Maintenance Supplies	Painting supplies; includes supplies such as brushes, rollers, roller trays, spray paint, wallpaper and glue, Plumbing supplies (above ground). Electrical supplies; includes wiring, fuses, electrical components, light fixtures, bulbs. Building supplies including lumber, nails, screws, glue. HVAC supplies; parts and supplies related to the maintenance and repair of heating, ventilation, and air conditioning equipment. Cleaning and routine maintenance supplies such as nitrile gloves, cleansers, trash bags, toilet paper, tissues, paper towels, lens and sanitized wipes. Historical costs for small tools, meter pit keys, stop box keys, meter vault lid lifting hooks, shovels and janitorial supplies	6,855
7349- Tools < \$5000		10,000
7426- Outside Printing	updating informational door hangers/AMI instruction hanger (\$1.50/hanger) budget will trend the same 2021 to 2024 to accomadate the new meter change out program	1,000
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc. Memberships to organizations relevant to employee discipline. Information received through these organizations keep employees informed and educated on the lastest water treatment/storage/distribution techniques. Provide approved training units to maintain certifacations.	500



**Services and Meters**
**421-8600-86001**

GL Account *	Notes	2023
	Charge for professional outside architects, engineers, surveyors, and material testers. Professional services or testimony from doctors, appraisers, ambulance charges, clinic charges, and hospital charges. Expense for the performance and associated cost of entertainers & cultural artists. Charges for Armored Car Services. Charges for temporary personnel provided by temporary service agencies, including work-study program participants. Expense for professional data processing advice, web site development, instruction, or services. Ergo Med, Court interpreters, DJ's, Security Service, written agreements for hardware and software maintenance. Monthly fees for radios, pagers, & related radio equipment. Vehicle towing services, Internet access. Cost for county jail services (boarding of prisoners). Filing fees for legal documents recorded by the county or state. Professional dry cleaning and cleaning of uniforms, tablecloths, blankets, drapes, towels, etc. Also includes misc. items such as port-a-potties, landfill charges, sludge analysis & hauling, film development, lab analysis, background checks, certification, CPR cards, piano tuning, recycling documents, pest control. Permits, Airfare & hotel for recruiting, entertainers, and trainers. Meals for senior trips, tree trimming, weed mowing, and trash removal for other property owners (not property that the City owns) K-9 boarding. Replaces 7458 and 7496 in Finance Plus.large meter testing	
7435- Other Purchased Services		4,800
7441- Electric	Budgeted by Finance (based on incrs & 12mo rolling avg)	3,186
7444- Natural Gas	Budgeted by Finance (based on incrs & 12mo rolling avg)	2,990
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges.	4,200
7461- Machine, Vehicle, Equipment	Charges from outside contractors for vehicle repair and maintenance services. including car washes. Outside services for the repair and maintenance of elevators, machine, power tools, pumps, and other equipment. Also, includes welding and similar technical services. Annual fire extinguishers charging. Flat tire repair.	1,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	8,947

## Services and Meters

421-8600-86001

GL Account *	Notes	2023
7466- Facilities Maintenance	Building and grounds maintenance - outside services for window washing, glass repair, overhead door repair, carpet cleaning, general cleaning, and similar building maintenance. Outside plumbing, heating and electrical services such as inspections, repairs, locks and keying, & related general maintenance. For properties that the City does own. Outside services related to sprinkler systems, sidewalk/concrete repair and replacement, grass seeding and sodding, landscaping and landscape maintenance, tree trimming, and fence installation or repair.	2,500
7472- Hotel and Motel	Expense for overnight lodging on city business if not included in registration. The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifications to operate and deliver water per the EPA/CDPHE safe water drinking act.	2,500
7473- Meals	Expense for meals while on city business and seminars.	500
7474- Air Travel		2,000
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official citybusiness at a designated rate per mile.	500
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifications in Storage and distribution of safe, quality drinking water.	1,000
7633- Equipment Rentals	Small equipment rental.	3,300
		<b>662,679</b>

**Transmission - Reservoirs 421-8600-86002**

GL Account *	Notes	2023
7111- Regular Employees		270,774
7112- Salaries & Wages - Seasonal	support Transmission/Reservoir crews with system maintenance and in-house CIP projects, assist the maintenance mechanic with routine preventative maintenance, perform landscape maintenance and assist with confined space entries.	23,805
7121- Overtime-Regular	on-call/weekend duty: average hourly rate for (6) fte's average rate \$41: on-duty is 10 hrs. @ \$41/hr. x 52 weeks. \$21,320 Holiday coverage: 5 hrs. @ \$41/hr. x 10. \$ 2,056 Emergency response: 56 calls @ \$41/hr. \$2,296 Utility locate tech after hour projects/call outs 100 hrs. @ \$41/hr.	23,155
7211- Disability		1,571
7212- Health		69,060
7213- Dental		2,065
7214- Vision		90
7215- Life		823
7216- Workers Compensation		2,924
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	598
7221- General Employees		10,830
7227- 401K		5,200
7231- FICA		16,788
7232- FICA Seasonal	Seasonal FICA	1,276
7234- Medicare		3,924
7235- Medicare Seasonal	Seasonal Medicare	314
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (A, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives. Includes everything that was in 7314 and 7329 in Finance Plus.	3,300
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools".	4,000

**Transmission - Reservoirs 421-8600-86002**

GL Account *	Notes	2023
7316- Computer Hardware/Software < \$5000	Computer, hardware/software with a per unit cost less than \$5,000 with a useful life of 1 year or more. This does not include repair parts. Upgrades to outdated office and field equipment. Budget will be adjusted 2023 to maintain equipment. Additional FTE needs/update existing. Reservoirs is in need of mobile equipment, i.e., laptops, smart phones, etc. Budget will be readjusted 2023 to maintain equipment.	3,875
7317- Meals/Food - Non-Travel Related	Meals/Food - non-travel related food items for in-house meetings and training and concessions.operations will hold external safety/meetings and share expense with multiple departments.	500
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7321- Medical/Chemical	Lab supplies, hazmat supplies, mace, and less-lethal rounds. Chemicals required for operations such as chlorine, de-icing salt, fertilizers, weed spray, fire extinguishers (not charging – see 7461) bug spray, pest strips, CO2 detectors, etc.At our 3 reservoir complexes we use sodium hypochlorite solution to provide secondary disinfection treatment per State/Federal safe drinking water regulations. Gallons used is proportional with gallons of water usage, time of year, temperature, etc. Under new management 2021. Need to baseline and adjust budget accordingly. 2020 actual is the base (3%) calculation for 2022 budget.	35,000
7323- Safety And Personal Protection	Safety glasses, boots, ear protection, gloves, safety vests, hard hats, ear plugs, and masks (PPE). \$600/employee - added FTE 2021.	4,900
7325- Clothing And Uniforms	Purchase of clothing and uniforms. Includes riot gear and fire helmets. \$600/employee - added FTE 2021	2,400
7328- Fleet Fuel	Budgeted by Fleet	35,436
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field manitenace vehicles. vehicle tool boxes, seat covers etc.	4,120

## Transmission - Reservoirs 421-8600-86002

GL Account *	Notes	2023
7338- Water, Sewer, Irrigation Line Repair Parts	Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. Parts used for transmission and distribution system appurtenances. major areas are: combination air vacuum valves and hardware located in vaults throughout the entire transmission system; 24 pressure regulating stations located throughout the distribution system; parts for repairing plumbing, pumps, the sodium hyperchlorite dispensing systems at 3 reservoir complexes. Added 2 PRVs 20, 21,23 and 24	4,200
7344- Building and Grounds Maintenance Supplies	Painting supplies; includes supplies such as brushes, rollers, roller trays, spray paint, wallpaper and glue, Plumbing supplies (above ground). Electrical supplies; includes wiring, fuses, electrical components, light fixtures, bulbs. Building supplies including lumber, nails, screws, glue. HVAC supplies; parts and supplies related to the maintenance and repair of heating, ventilation, and air conditioning equipment. Cleaning and routine maintenance supplies such as nitrile gloves, cleansers, trash bags, toilet paper, tissues, paper towels, lens and sanitized wipes.painting supplies and janitorial supplies for the (3) reservoir complexes and the zone 4 pump station are purchased through this account	20,000
7346- Street & Traffic Repair and Maintenance Supplies	Sign parts and supplies, traffic signal supplies. Pavement marking supplies; including pavement paint, thermoplastic markings, etc. Asphalt, tack oil, sand, gravel, and other street repair supplies. Parts for the repair and maintenance of motor vehicles, small engines, batteries (A, AA, AAA, etc. under 7314), chain saws, generators, welders, weed eaters, testing and lab equipment. Also, grader blades & snow blades less than \$5000, tires (includes labor for balancing and mounting), tubes, wheel weights, patching supplies. Vehicle oil, lubricants and windshield wiper fluid. Also includes rope, brooms, shovels, rakes, small tools under \$100.00, glue, sand for golf courses and park sand.	1,200
7348- Plant Materials	Sod, grass for the (3) reservoir complexes	500

**Transmission - Reservoirs 421-8600-86002**

GL Account *	Notes	2023
7349- Tools < \$5000	The purchase of small tools, lumber, ladders, rakes, shovels, weed eaters and mower blades. also includes all cutting blades for chop saws, angle grinders, reciprocating saws and all welding supplies. Hand tools addition/replacement	10,000
7424- In-House Copying		1,000
7426- Outside Printing	Typesetting, printing, binding, graphics, and related professional printing services for reports, brochures, flyers, business cards, forms, etc. Also includes outside copy charges, laminating, small signs and decals made by outside service.	150
7432- Publications, Subscriptions, and Dues	The purchase of work-related books, reports, manuals, and other publications. Subscriptions to newspapers, magazines, newsletters, similar publications, including updates to law journals and professional practices. Cd's, dvd's. \$750 for Cert training material and AWWA Opflow.	1,000
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc. Memberships to organizations relevant to employee discipline. Information received through these organizations keep employees informed and educated on the latest water treatment/storage/distribution techniques. Provide approved training units to maintain certifications.	1,000

**Transmission - Reservoirs 421-8600-86002**

GL Account *	Notes	2023
7435- Other Purchased Services	<p>Charge for professional outside architects, engineers, surveyors, and material testers. Professional services or testimony from doctors, appraisers, ambulance charges, clinic charges, and hospital charges. Expense for the performance and associated cost of entertainers &amp; cultural artists. Charges for Armored Car Services. Charges for temporary personnel provided by temporary service agencies, including work-study program participants. Expense for professional data processing advice, web site development, instruction, or services. Ergo Med, Court interpreters, DJ's, Security Service, written agreements for hardware and software maintenance. Monthly fees for radios, pagers, &amp; related radio equipment. Vehicle towing services, Internet access. Cost for county jail services (boarding of prisoners). Filing fees for legal documents recorded by the county or state. Professional dry cleaning and cleaning of uniforms, tablecloths, blankets, drapes, towels, etc. Also includes misc. items such as port-a-potties, landfill charges, sludge analysis &amp; hauling, film development, lab analysis, background checks, certification, CPR cards, piano tuning, recycling documents, pest control. Permits, Airfare &amp; hotel for recruiting, entertainers, and trainers. Meals for senior trips, tree trimming, weed mowing, and trash removal for other property owners (not property that the City owns) K-9 boarding. Replaces 7458 and 7496 in Finance Plus. Instructional advice received about the maintenance of our cathodic protection system. This is our corrosion control</p>	24,300
7441- Electric	<p>Electrical services are provided to operate and protect our distribution and transmission systems. City of Greeley water/sewer receives electrical services from both xcel energy and poudre valley rural electrical association as part of our cathodic protection system, which impresses an electrical current onto the larger steel transmission main, we have 6 rectifiers. To move water through the reservoir complexes and provide water to zone 4 (promontory) we have 2 major pump stations. 1) of our 22 pressure regulating valve stations received power. This provides remote operation and supervisory control and data acquisition capabilities. Budgeted by Finance.</p>	230,258
7442- Water/Sewer/Stormwater	Budgeted by Finance (based on incrs & 12mo rolling avg)	1,870



**Transmission - Reservoirs 421-8600-86002**

GL Account *	Notes	2023
7444- Natural Gas	Budgeted by Finance (based on incrs & 12mo rolling avg)	4,601
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges. Telephone/cell phone services and phone alarm systems at the (3) reservoir complexes. Alarm system alarm system @ Gold Hill upgraded will decrease	8,000
7446- Other Utility		1,000
7461- Machine, Vehicle, Equipment	Charges from outside contractors for vehicle repair and maintenance services. including car washes. Outside services for the repair and maintenance of elevators, machine, power tools, pumps, and other equipment. Also, includes welding and similar technical services. Annual fire extinguishers charging. Flat tire repair. Contracted outside services for the repair and maintenance of streets and roads, including snow removal, asphalt patching, sweeping, repair, street lights, etc. Outside equipment repair. Annual cost for the asphalt paving, curb, gutter and sidewalk replacement damaged or removed during PRV, vault repair replacement. Traffic control when working on PRV vaults. maintenance service on 3 generators.	1,600
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	28,217
7466- Facilities Maintenance	Building and grounds maintenance - outside services for window washing, glass repair, overhead door repair, carpet cleaning, general cleaning, and similar building maintenance. Outside plumbing, heating and electrical services such as inspections, repairs, locks and keying, & related general maintenance. For properties that the City does own. Outside services related to sprinkler systems, sidewalk/concrete repair and replacement, grass seeding and sodding, landscaping and landscape maintenance, tree trimming, and fence installation or repair.	1,000
7473- Meals	Expense for meals while on city business and seminars.	500
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official city business at a designated rate per mile.	500

**Transmission - Reservoirs      421-8600-86002**

GL Account *	Notes	2023
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifacations in Storage and distribution of safe, quaility drinking water.	5,000
7633- Equipment Rentals	heavy contruction equip, compactors, mini x, etc	2,500
		<b>876,124</b>

**Distribution****421-8600-86003**

GL Account *	Notes	2023
7111- Regular Employees		1,091,366
7121- Overtime-Regular	Projected work programs/leak history: 35 leak repairs/special project x 6hrs @ \$404/event (crew rate) = \$84,800. 25 emergency repairs x 2hrs @ \$404/event = \$20,200. 200	127,353
7211- Disability		6,331
7212- Health		241,710
7213- Dental		7,225
7214- Vision		315
7215- Life		3,281
7216- Workers Compensation		11,540
7221- General Employees		43,659
7227- 401K		20,952
7231- FICA		67,668
7234- Medicare		15,826
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (D/C, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners, trophies, plaques, prizes, awards, calculators, and flash drives.	5,500
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools".	21,000
7316- Computer Hardware/Software < \$5000	Computer, hardware/software with a per unit cost less than \$5,000 with a useful life of 1 year or more. This does not include repair parts. Upgrades to outdated office and field equipment. additional laptops are needed to monitor transmission/distribution and reservoirs, make adjustments to flows and chemical feeds remotley. Budget will be adjusted	11,000
7317- Meals/Food - Non-Travel Related	Meals/Food - non-travel related food items for in-house meetings and training and concessions.operations will hold external safety/meetings and share expense with multiple	1,000
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7321- Medical/Chemical	Lab supplies, hazmat supplies, mace, and less-lethal rounds. Chemicals required for operations such as chlorine, de-icing salt, fertilizers, weed spray, fire extinguishers (not charging – see 7461) bug spray, pest strips, CO2 detectors, etc.	1,000
7325- Clothing And Uniforms	Purchase of clothing and uniforms. \$600/14 employee	10,800
7328- Fleet Fuel	Budgeted by Fleet	84,798
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field manitenace vehicles. vehicle tool boxes, seat	5,665

7338- Water, Sewer, Irrigation Line Repair Parts	Parts and components required to repair water, sewer (below ground), and sprinkler lines; plastic and concrete pipe. Average 70 leaks per year. Cost varies due to repair parts required. Cost per leak repair varies from \$2,500 to \$35,000. Stainless steel leak repair clamps; range 3" to 36". Repair clamps range in	12,400
--	---	--------

**Distribution****421-8600-86003**

GL Account *	Notes	2023
7344- Building and Grounds Maintenance Supplies	Painting supplies; includes supplies such as brushes, rollers, roller trays, spray paint, wallpaper and glue, Plumbing supplies (above ground). Electrical supplies; includes wiring, fuses, electrical components, light fixtures, bulbs. Building supplies including lumber, nails, screws, glue. HVAC supplies; parts and supplies related to the maintenance and repair of heating, ventilation, and air conditioning equipment. Cleaning and	10,000
7346- Street & Traffic Repair and Maintenance Supplies	Historical costs for repairing the public right of way after emergency corrective repairs that have been made to the distribution and transmission water systems. flow fill @ \$90/cyd, cold mix @ \$150/ton, fill sand @ \$12/ton, 3/4 washed \$28/ton & 1 1/2" washed rock \$28/ton, hot asphalt \$60/sqyd	37,198
7348- Plant Materials	misc- replacement of shrubbery/planters due to	1,500
7349- Tools < \$5000	Tools with a per unit cost between \$100 and \$5,000 with useful life of 1 year or more. The purchase of small tools, lumber, ladders, rakes, shovels, weed eaters and mower blades. also includes all cutting blades for chop saws, angle grinders,	20,000
7411- Postage		100
7424- In-House Copying		1,500
7426- Outside Printing	Typesetting, printing, binding, graphics, and related professional printing services for reports, brochures, flyers, business cards, forms, etc. Also includes outside copy charges,	500
7432- Publications, Subscriptions, and Dues	The purchase of work-related books, reports, manuals, and other publications. Subscriptions to newspapers, magazines, newsletters, similar publications, including updates to law journals and professional practices. Cd's, dvd's readjusting budget and re-evaluating Subscriptions	500
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc. Memberships to organizations relevant to employee discipline. Information received through these organizations keep employees informed and educated on the latest water	1,000

7435- Other Purchased Services	Charge for professional outside architects, engineers, surveyors, and material testers. Professional services or testimony from doctors, appraisers, ambulance charges, clinic charges, and hospital charges. Expense for the performance and associated cost of entertainers & cultural artists. Written agreements for hardware and software maintenance. Monthly fees for radios, pagers, & related radio equipment. Vehicle towing services. Filing fees for legal documents recorded by the county or state. Professional dry cleaning and cleaning of uniforms, tablecloths, blankets, drapes, towels, etc. Also includes misc. items such as port-a-potties, landfill charges, sludge analysis & hauling, film development, lab analysis,	36,000
--------------------------------	--	--------

**Distribution****421-8600-86003**

GL Account *	Notes	2023
7441- Electric	Based on incrs & 12mo rolling avg	9,343
7444- Natural Gas	Based on incrs & 12mo rolling avg	2,006
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges.	7,500
7446- Other Utility		60
7461- Machine, Vehicle, Equipment	Charges from outside contractors for vehicle repair and maintenance services. including car washes. Outside services for the repair and maintenance of elevators, machine, power tools, pumps, and other equipment. Also, includes welding and similar technical services. Annual fire extinguishers charging. Flat tire repair. Contracted outside services for the repair and maintenance of streets and roads, including snow removal, asphalt patching, sweeping, repair, street lights, etc. Outside equipment repair. Annual cost for the asphalt paving, curb,	42,900
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	107,281
7466- Facilities Maintenance	Building and grounds maintenance - outside services for window washing, glass repair, overhead door repair, carpet cleaning, general cleaning, and similar building maintenance. Outside plumbing, heating and electrical services such as inspections, repairs, locks and keying, & related general maintenance. For properties that the City does own. Outside services related to sprinkler systems, sidewalk/concrete repair and replacement, grass seeding and sodding, landscaping and	5,000
7472- Hotel and Motel	Expense for overnight lodging on city business if not included in registration. The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifications to operate	2,400
7473- Meals	Expense for meals while on city business and seminars.	1,000
7474- Air Travel	Budget will cover air fare for out of state travel to limited conferences	2,500
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official city business at a designated rate per mile.	500
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifications in Storage and	10,500
7633- Equipment Rentals	Heavy construction equipment, compactors, skidsters, etc.	6,100
7650- Computer/Phone User	Utility Locator connection expenses.	2,000
		<b>2,098,777</b>



## Non-Potable Operations 421-8600-86005

GL Account *	Notes	2023
7111- Regular Employees		280,404
7112- Salaries & Wages - Seasonal		20,660
7121- Overtime-Regular		9,738
7211- Disability		1,626
7212- Health		69,060
7213- Dental		2,065
7214- Vision		90
7215- Life		848
7216- Workers Compensation		3,026
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	605
7221- General Employees		11,217
7227- 401K		5,387
7231- FICA		17,385
7232- FICA Seasonal	Seasonal FICA	1,289
7234- Medicare		4,063
7235- Medicare Seasonal	Seasonal Medicare	317
7314- Office Supplies & Materials	Batteries, keys, calendars,Kerosene,propane,HH radios,other misc items under \$100.00.	1,500
7315- Small Items of Equipment \$100 - \$5,000	office chair. portable welder trailer, lawn mower, portable generator, portable air compressor,	7,300
7316- Computer Hardware/Software < \$5000		1,000
7317- Meals/Food - Non-Travel Related	This is a new account for 2022. When our crew works through lunch or overtime and we need to furnish a meal occasionally.	500
7318- Medical Supplies	Vehicle first aid kits, office first aid kits	500
7321- Medical/Chemical	Cost for algae control chemicals, copper sulphate used at 39 pumping stations and poudre ponds and the 5 ditch's we maintain. also covers cost incurred for landscaping and pest	1,800
7323- Safety And Personal		3,500
7325- Clothing And Uniforms	light coveralls, safety gloves, first aid kits, safety vests, rubber boots, ear protection, rain gear, sun screen, Winter coveralls.	5,600
7328- Fleet Fuel	Fleet Fuel - Original Budget	25,172
7333- Machinery, Vehicle & Equipment Parts	Maintenance supplies for six vehicles, two tractors and two chain saws, 1 chop saw, 2 generators and pumps. 1 hotsty includes: spark plugs, air filters, drive belts, diaphragms, weed eater string, mower blades, hydraulic hoses and lubricants and all vehicle maintenance equipment needs to perform	4,500
7338- Water, Sewer, Irrigation Line Repair Parts	Repairs to pump stations not covered by service contracts such as pumps that we replace or rebuild in house, filters, pressure regulating valves, hoses and chemical feeders. Repairs to sprinkler systems. All necessary materials needed to make	9,000

## Non-Potable Operations 421-8600-86005

GL Account *	Notes	2023
7344- Building and Grounds Maintenance Supplies	Spraying the exterior of pump stations with a protective concrete sealer and graffiti protectant. also small hand tools, shovels, rakes, pitch forks and janitorial supplies. Non-potable is now responsible for Parks non-potable assets which doubled	8,000
7346- Street & Traffic Repair and Maintenance Supplies	asphalt repair, concrete repair, signs and sign posts. Sand Gravel, Dirt, Small tools under \$100.	1,500
7348- Plant Materials	grass seed, replacement shrubs and trees	500
7349- Tools < \$5000	hand tools for employees	1,300
7411- Postage	Miscellaneous mailings	100
7424- In-House Copying		1,500
7426- Outside Printing		100
7433- Memberships & Dues		500
7435- Other Purchased Services	Proportional cost for utility locating request. The utility notification center of Colorado currently charges \$1.61 per request. Engineering and survey work needed for projects.	13,000
7441- Electric	Based on incrs & 12mo rolling avg	299,900
7442- Water/Sewer/Stormwater	Based on incrs & 12mo rolling avg	1,210
7444- Natural Gas	Based on incrs & 12mo rolling avg	1,782
7445- Telephone		8,200
7446- Other Utility	Based on incrs & 12mo rolling avg	1,500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance:	21,166
7463- Maintenance Agreements	Contract to repair pumps and programmable logic controllers at all 38 pump stations, also to cover asphalt repair costs.	5,253
7466- Facilities Maintenance		2,500
7473- Meals	sending 4 people to syncroflo and Amiad training	500
7478- Registration	Three FTE's to pump and filter training classes.	5,000
7631- Rent	Annual lease on shop and gas detectors used for confined	83,946
		<b>945,609</b>

## Water Instrumentation and Controls

421-8600-86006

GL Account *		2023
7111- Regular Employees		685,794
7121- Overtime-Regular	I&C Techs for standby and emergencies. Budgeted at \$3,000 per employee (7) + 10,116 for on-call time (6,744 X 1.50/hour = \$10,116.00)	21,279
7211- Disability		3,978
7212- Health		110,496
7213- Dental		3,304
7214- Vision		144
7215- Life		2,025
7216- Workers Compensation		6,192
7221- General Employees		27,430
7227- 401K		13,167
7231- FICA		42,520
7234- Medicare		9,947
7314- Office Supplies & Materials	Funds used for batteries, technology accessories, copy paper and other office supplies.	2,500
7315- Small Items of Equipment \$100 - \$5,000	Desks, office chairs, etc.	2,000
7316- Computer Hardware/Software < \$5000	Increase is needed for additional staff. Since the new staff person is a result of a reclassification rather than the addition of an employee, basic items were not accounted for as they normally would have been.	500
7325- Clothing And Uniforms	Safety boots cog logo hats, hard hats 1, safety shirts , light coveralls, safety gloves, safety vest , first aid kit refill, rubber boots , safety glasses, safety sweatshirts, ear protection plugs, ear protection, ear protection muffs, face shield, eye protection goggles, eye protection over the glasses, rain gear, bug spray, sun screen In the past this money was taken from the treatment plants and reservoirs accounts.	2,600
7328- Fleet Fuel		14,616
7333- Machinery, Vehicle & Equipment Parts		1,500
7344- Building and Grounds Maintenance Supplies		12,450
7432- Publications, Subscriptions, and Dues	Certification updates	200
7435- Other Purchased Services		1,000
7461- Machine, Vehicle, Equipment	Fees for repairs outside the city of Greeley i.e.. Test equipment, instruments. Etc. In the past this money was taken from the treatment plants and reservoirs accounts.	2,900

**Water Instrumentation and Controls**

**421-8600-86006**

GL Account *		2023
7463- Maintenance Agreements	Satellite charges for VIASAT and GIT, annual SCADA support contracts: GE Digital by Graymatter (Timber Line). Instructional advice received about the maintenance of new equipment installed at the treatment plants.	14,800
7466- Facilities Maintenance		500
7478- Registration	Registration fees for AWWA. Also for advanced electrical & instrumentation training. Required to attend class on new equipment installed at the treatment plants.	2,850
		<b>984,692</b>

## Water Resources

421-8700-87001

GL Account *	Notes	2023
7111- Regular Employees		990,441
7112- Salaries & Wages - Seasonal		63,963
7121- Overtime-Regular		1,626
7211- Disability		5,744
7212- Health		129,833
7213- Dental		3,882
7214- Vision		169
7215- Life		2,896
7216- Workers Compensation		6,566
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	515
7221- General Employees		39,619
7227- 401K		19,015
7231- FICA		61,406
7232- FICA Seasonal	Seasonal FICA	3,966
7234- Medicare		14,365
7235- Medicare Seasonal	Seasonal Medicare	927
7314- Office Supplies & Materials	Water quality bottles, batteries, tags, labels, etc..	4,000
7315- Small Items of Equipment \$100 - \$5,000		7,000
7325- Clothing And Uniforms		2,000
7415- Legal	2022 budget increased to reflect higher actuals in 2020 and the anticipated increased costs associated with more involved water court cases and legislation efforts (ex. Turnback provision) and other issues.	301,000
7418- Advertising		1,000
7432- Publications, Subscriptions, and Dues	Publications associated with water resources	9,000
7435- Other Purchased Services	Projects related to protecting existing water supplies and evaluating new water supplies, flow studies, environmental impact statement analysis, and water quality ditch sampling. 2022 budget increased due to an expected increase in professional services needs related to more involved water court cases and assistance for our IWRP.	292,500
7445- Telephone	Cellular costs	6,000
7472- Hotel and Motel		4,000
7473- Meals		1,000
7474- Air Travel		2,000
7475- Mileage		5,000
7477- Other Travel		4,500

**Water Resources****421-8700-87001**

GL Account *	Notes	2023
7478- Registration	Training includes irrigationist symposium, CLE water administration, CSU conference irrigation water requirement, AWRA symposium, Water Congress annual meeting, South Platte Forum, water issues forum, use 2015 budget for 2017 and 2018	20,000
7697- Assessment Fees	Annual assessments for water rights such as Greeley Loveland Irrigation Company, Colorado Big Thompson Project, Windy Gap, Water Supply and Storage Company and others must be paid or water will not reach the water treatment plants. This includes the GIC Headgates and telemetry project (est. \$45,800/year). Windy Gap Assessment of \$2,419,500.	5,339,500
7811- Grants-Outside Agencies	Regional collaboration, sponsorships	9,026
		<b>7,352,459</b>

**Bellvue Filter Plant****421-8700-87002**

GL Account *	Notes	2023
7111- Regular Employees		1,081,795
7112- Salaries & Wages - Seasonal		12,980
7114- Salaries & Wages - Part-Time		27,144
7121- Overtime-Regular		11,166
7211- Disability		5,879
7212- Health		185,081
7213- Dental		5,534
7214- Vision		241
7215- Life		3,014
7216- Workers Compensation		10,964
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	1,613
7221- General Employees		40,587
7227- 401K		19,478
7231- FICA		62,908
7232- FICA Seasonal	Seasonal FICA	3,437
7234- Medicare		14,711
7235- Medicare Seasonal	Seasonal Medicare	844
7314- Office Supplies & Materials	Copier paper, legal pads, pens/pencils/markers, dry erase supplies, batteries, flash drives, gift certificates, etc.	5,500
7315- Small Items of Equipment \$100 - \$5,000	TB1 lockers, Chem building maintenance office replacment of counter and cabinets. New fixtures in baths in chem building.	34,400
7316- Computer Hardware/Software < \$5000		11,500
7317- Meals/Food - Non-Travel Related	Staff team building/safety/training meals.	1,000
7318- Medical Supplies	First aid supplies and other medical supplies.	1,500
7321- Medical/Chemical	Chemicals used in water treatment such as alum, polymer feeds, fluoride, CL2 NAOH.	900,000
7323- Safety And Personal Protection	Budgeting for 8 team members, \$500 per employee.	4,000
7325- Clothing And Uniforms		6,400
7327- Gas And Diesel Fuel		15,000
7328- Fleet Fuel	Budgeted by Fleet	6,398
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment.	40,000
7338- Water, Sewer, Irrigation Line Repair Parts	Septic supplies, hoses and backflow parts.	3,000
7344- Building and Grounds Maintenance Supplies	Rebuild cop kits in pulsafeders and Vogelsang rebuilds, TB1 air filters for HVAC.	45,000



**Bellvue Filter Plant****421-8700-87002**

GL Account *	Notes	2023
7346- Street & Traffic Repair and Maintenance Supplies	Need to chip seal and/or crack-seal the road into the plant (1/2 mile). Work to be scheduled for 2021 and 2022.	6,600
7348- Plant Materials	Fertilizer, grass seed, top soil	500
7349- Tools < \$5000	Miscellaneous tool purchases	1,000
7411- Postage		500
7418- Advertising	2 ads in AWWA (\$500/each)	1,000
7424- In-House Copying		400
7432- Publications, Subscriptions, and Dues	Technical manuals and publications for plant operators	1,000
7433- Memberships & Dues	50% of AWWA PFSW	500
7435- Other Purchased Services	Sludge hauling/testing. Outside Lab services.	180,000
7436- Certifications	\$500/employee training and certifications for 8 employees; \$1500 for five new employees	5,500
7441- Electric		164,162
7444- Natural Gas		26,727
7445- Telephone	1 phones for all staff. Two new aircards for Lucity/Cityworks software and Instrumentation tablet.	15,900
7446- Other Utility	Trash and recycling services	2,500
7461- Machine, Vehicle, Equipment	Sulair compressor maintenance, Cummins rocky moutain genset service, Timberline electric HMI program SCADA updates. Occasional HVAC service needed.	20,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	10,630
7463- Maintenance Agreements	Increased security equipment costs and upgrade to Chlorine storage room needed. Need to replace 2 analog security cameras and alarm system for all campus and new TB1. We did not add hatch alarms to remote hatches in 2020. Need carryover into 2022. Fire inspection services annual inspection.	15,000
7466- Facilities Maintenance	Road base for continued facility access (raw ponds), 46-53 building needs 2 windows replaced. The 58-64 building needs 1 window replaced. We have been billing weed spray to 7321, is roughly \$1000 a year. Power vents on 60 BV control valve vault, Finished water meter vault, Pond Inlet structure	3,500
7472- Hotel and Motel		2,000
7473- Meals		500
7475- Mileage		1,000

**Bellvue Filter Plant****421-8700-87002**

GL Account *	Notes	2023
7477- Other Travel		100
7478- Registration	\$1000/employee training for 8 employees	5,500
7631- Rent	Tent, chair and table rentals for summer tours	3,000
7633- Equipment Rentals		500
7650- Computer/Phone User Charges		2,000
		<b>3,031,093</b>

## High Mountain Reservoirs 421-8700-87003

GL Account *	Notes	2023
7111- Regular Employees		271,138
7112- Salaries & Wages - Seasonal		18,387
7121- Overtime-Regular		7,368
7211- Disability		1,573
7212- Health		49,723
7213- Dental		1,487
7214- Vision		66
7215- Life		807
7216- Workers Compensation		3,444
7221- General Employees		10,846
7227- 401K		5,206
7231- FICA		16,809
7232- FICA Seasonal	Seasonal FICA	1,116
7234- Medicare		3,930
7235- Medicare Seasonal	Seasonal Medicare	261
7314- Office Supplies & Materials	Miscellaneous office supplies like printer ink, paper, pens, pencils etc.	5,000
7315- Small Items of Equipment \$100 - \$5,000	Miscellaneous small items of equipment/furniture like desk chairs, technology replacements, etc.	10,000
7317- Meals/Food - Non-Travel Related	Food purchased for business meetings with ag representatives.	900
7318- Medical Supplies	First-aid related expenses.	500
7321- Medical/Chemical	Miscellaneous chemical purchases, for example: herbicide.	300
7323- Safety And Personal Protection	Chainsaw safety gear, snowmobile helmets, life jackets all are required in the environment the HMR personnel work in.	2,900
7325- Clothing And Uniforms	Boots, pants, etc.	1,250
7327- Gas And Diesel Fuel	Fuel for dozers, loader, chainsaws, snowmobiles, 4x4s	7,000
7328- Fleet Fuel		22,023
7333- Machinery, Vehicle & Equipment Parts	Supplies for repair and maintenance of 4 pickups and 1 tandem dump truck.	10,000
7344- Building and Grounds Maintenance Supplies	Miscellaneous building supplies such as brooms, painting supplies, plumping, electrical, etc.	5,000
7346- Street & Traffic Repair and Maintenance Supplies	Supplies for repair and maintenance of non-fleet equipment including rubber tired loader, track dozer, snowmobiles, trailers, 4 wheelers, chainsaws, and other equipment and supplies.	20,000
7349- Tools < \$5000	Tool replacements	1,000
7411- Postage	Postage for miscellaneous mailings	100
7426- Outside Printing	Budget for miscellaneous outside printing services such as signs, posters, etc.	300

## High Moutain Reservoirs 421-8700-87003

GL Account *	Notes	2023
7433- Memberships & Dues	Membership dues for CO lakes and reservoir organization	300
7435- Other Purchased Services	Miscellaneous technical services including fire mitigation work on high mountain reservoirs.	35,000
7441- Electric	Electrical costs for city owned cabins, houses, and farms. Budgeted by finance "based on incrs & 12mo rolling avg" NOTE: The water resources 2021 electric budget set by Finance of \$28,509 has been transferred to this budget since it is a farm expense	29,079
7442- Water/Sewer/Stormwater	Based on incrs & 12mo rolling avg	714
7445- Telephone	For commercial charges, cell phone charges and satellite phone charges.	9,200
7446- Other Utility	Miscellaneous septic services, trash hauling, etc.	2,000
7461- Machine, Vehicle, Equipment		7,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance: vehicles and equipment	14,264
7466- Facilities Maintenance	HMR division maintains 6 high mountain reservoirs, 3 cabins and utilizes all supplies related to the care and maintenance of said structures. *Budgeted conservatively due to location/inaccessibility of high mountain reservoirs buildings and associated high cost of repairs when needed.	13,300
7473- Meals		200
7478- Registration	Staff training	1,000
7633- Equipment Rentals	Equipment rental of backhoes, trenches, and other equipment to open and maintain Greeley's water rights.	11,000
		<b>601,491</b>

## Water Conservation

421-8700-87004

GL Account *	Notes	2023
7111- Regular Employees		303,818
7112- Salaries & Wages - Seasonal		36,743
7114- Salaries & Wages - Part-Time		21,000
7121- Overtime-Regular	Overtime for Conservation hourly staff for events, meetings etc. after hours	3,158
7211- Disability		1,761
7212- Health		55,248
7213- Dental		1,652
7214- Vision		72
7215- Life		905
7216- Workers Compensation		1,798
7221- General Employees		12,151
7227- 401K		5,833
7231- FICA		18,835
7234- Medicare		4,405
7314- Office Supplies & Materials	Office supplies (batteries, paper, envelopes, tap, printer cartridges flash drives, power strips), design supplies (\$5K). Giveaways/merch (prizes, water bottles, pens, bags, gloves, magnets, cups, etc.- \$15K)	20,000
7315- Small Items of Equipment \$100 - \$5,000	Office furniture for new employee	1,000
7316- Computer Hardware/Software < \$5000		1,500
7317- Meals/Food - Non-Travel Related	In-house water conservation committee meetings	500
7318- Medical Supplies	First aid kits for vehicles and garden	289
7321- Medical/Chemical	Garden treatments, weed spray, fertilizer, bug spray, pest strips, etc.	1,000
7323- Safety And Personal Protection	PPE for 2 seasonal, 1 part time and 4 full time	1,000
7325- Clothing And Uniforms	Water conservation shirts to ID employees	1,100
7327- Gas And Diesel Fuel	Tours	300
7328- Fleet Fuel	Fleet Fuel - Original Budget	2,558
7333- Machinery, Vehicle & Equipment Parts	Snowbrushes, windshield wiper fluid, wipers, etc.	100
7338- Water, Sewer, Irrigation Line Repair Parts	Annual controllers, nozzles, dips systems, etc. (\$20k). Controllers for those who retrofit their irrigation.	10,000
7344- Building and Grounds Maintenance Supplies	Supplies for the three sheds like paint, brushes, rollers, trash bags, rags, paper towel, gutters, cleaning supplies, repairs, etc.	250
7346- Street & Traffic Repair and Maintenance Supplies	Small tool maintenance (oil changes, blade sharpening, etc.) and tools repairs	500

## Water Conservation

421-8700-87004

GL Account *	Notes	2023
7348- Plant Materials	Ongoing expenses for annual beds, plant replacements (\$7,500). One time project- Centennial Park Improvements (buffalo grass, natives-\$8,500). Two new gardens will be created including a crevice and rain garden (\$4,000)	15,000
7349- Tools < \$5000	Garden tools-trimmers, clippers, small hand machine tools	500
7411- Postage	Welcome packets for new customers with Water conservation information. Letters to customers.	2,500
7412- Mailing/Delivery Services - External	Postcard and letter stamps, mailing packages,	1,500
7418- Advertising	Events (Home & Garden Show, Green Pro, Forms, Symposium, conferences - \$12k), Radio (\$24K), Print (Newspaper, magazine, newsletters, etc.-\$10K), social (\$500)	46,500
7426- Outside Printing	Signs (lawn signs like life after lawn, garden plant ID, etc.- \$2.5k), bill inserts (drought, water restrictions, etc. \$5K), brochures, postcards, flyers (WC menu, water buget, lecture series,etc.\$2.5K), business cards, etc.	10,500
7432- Publications, Subscriptions, and Dues	CoCoRaHS (\$2k), Western Water, Colorado Water Wise (\$2K)	4,000
7433- Memberships & Dues	AWWA, WeCO (\$3k), ColoradoWater Wise (\$2k), Irrigation Association, associated landscape Colorado, Colorado Nursery and Greenhouse Association (\$1K) etc.	3,000
7435- Other Purchased Services	Resource Central Garden in the Box program costs (annually \$12K); Irrigation garden expansion (\$10K one-time), Water Conservation Plan update (\$5K one-time).	37,000
7445- Telephone	Two ipads, 4 phones	5,000
7446- Other Utility	Trash removal	500
7461- Machine, Vehicle, Equipment	Tool and small equipment repairs for blowers, snow blower, lawn mower, etc. Car washes, flat tire repairs	500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	4,552
7463- Maintenance Agreements	Drop Box (\$150 ), Abobe Pro ( \$250 per person X 3= \$750); Irrigation App (\$1,000). WaterSmart customer portal is paid from IT beginning in 2022.	2,000
7466- Facilities Maintenance	Annual garden clean-up by 3rd party contractors (\$2,000); Irrigation Repairs (\$1K)	500
7472- Hotel and Motel	Eight hotel nights for each employee (\$100*8*4)	3,200
7473- Meals	Over night travel (\$70/day x 4 people x 9 days) + Day trips (\$35/day x 4 people x 10 days)	4,000
7474- Air Travel	1 flight for 4 people (\$500 x 4)	2,000
7475- Mileage	Personal vehicle	4,000

**Water Conservation****421-8700-87004**

GL Account *	Notes	2023
7477- Other Travel	Parking, Taxi, bus etc (\$1k) and Bus rental for tour (teachers-\$2K)	3,000
7478- Registration	Poudre River Form, Webinars, AWWA, RMSAWWA, Colorado WaterWise, CNGA, ProGreen Expo,	8,500
7631- Rent	Three storage units only.	2,400
7633- Equipment Rentals	Seasonal handwashing station and porta potty for the garden (\$250/month for 7 months)	1,750
7693- Rebates	Commerical fixtures (\$20K), toilets (\$10K), irrigation (controllers, pressure reducing valves, nozzles \$20k) Water conservation specialist II position will focus on commercial, industrial and institutional audits. Increase outreach and rebates needs.	57,500
7811- Grants-Outside Agencies	Incentives for more xeric demo gardens in public places; public water conservation retrofits (10K); host a front yard xeriscape makeover contest (\$8K); align water conservation techniques with City projects.	17,218
		<b>744,596</b>



**Boyd Lake Filter Plant****421-8700-87005**

GL Account *	Notes	2023
7111- Regular Employees		792,524
7112- Salaries & Wages - Seasonal		66,767
7121- Overtime-Regular	Single coverage on shifts when operating 24/7, need staff to cover for vacations and sickness. 6 operators 2 weeks vacation average \$45 per hour = \$21600	22,734
7211- Disability		4,592
7212- Health		138,120
7213- Dental		4,130
7214- Vision		180
7215- Life		2,348
7216- Workers Compensation		8,474
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	1,706
7221- General Employees		31,705
7227- 401K		15,214
7231- FICA		49,140
7232- FICA Seasonal	Seasonal FICA	3,635
7234- Medicare		11,492
7235- Medicare Seasonal	Seasonal Medicare	892
7314- Office Supplies & Materials	Purchasing coffee and supplies at plant, increase of maintenance items and grease, cleaning supplies and other related items.	8,750
7315- Small Items of Equipment \$100 - \$5,000	Replacement of ground maintenance equipment, sump pumps, power tools, shop equipment and tools. Power equipment for yard maintenance and a boat motor 25hp.	8,500
7316- Computer Hardware/Software < \$5000	CPU hardware. Equipment for City works implementation(2 tablets and 2 laptops)	5,000
7317- Meals/Food - Non-Travel Related	Working meetings , In-house training	1,000
7321- Medical/Chemical	Water Treatment chemicals	990,349
7323- Safety And Personal Protection	Safety training and equipment, Steel toe boots, chemical suits and other. New fall protection and Air quality monitoring equipment parts and calibrations (Safety Training classes)	10,550
7325- Clothing And Uniforms	\$500/employee/year/ = pants, shirts, boots , gloves, hat, light jacket. Winter coat as needed. ) For 11 staff members	6,000
7327- Gas And Diesel Fuel	\$2500 for Fuel for loader/tractor and dewatering system	2,500
7328- Fleet Fuel	Budgeted by Fleet	11,126

**Boyd Lake Filter Plant****421-8700-87005**

GL Account *	Notes	2023
7333- Machinery, Vehicle & Equipment Parts	Machinery, vehicles and equipment parts (includes bearings and other repair parts for chemical feeders and instruments. small repair parts for city vehicle maintenance not performed in Greeley.) Adjusted to reflect actual expenses and needs.	8,500
7338- Water, Sewer, Irrigation Line Repair Parts	Need to replace part of the irrigation system.	1,000
7344- Building and Grounds Maintenance Supplies	General maintenance supplies includes pipe fittings, electrical parts, cleaners, paints, and other supplies used in maintaining the buildings and grounds. Small increase to catch up from backlog of needed supplies. Adjusted to reflect actual expenses and needs.	15,000
7348- Plant Materials		500
7349- Tools < \$5000	\$2500 for needed tools / power and pneumatic tools	2,500
7362- Trackable Equipment For Replacement < \$5000	\$5000 for replacement pumps / field equipment	5,000
7411- Postage		500
7412- Mailing/Delivery Services - External		1,000
7418- Advertising	Job advertisements	500
7424- In-House Copying	Includes Boyd copier rental	500
7432- Publications, Subscriptions, and Dues	Water treatment books and study/training material	500
7433- Memberships & Dues	\$1500 for AWWA Partnership and AWWA Memberships for staff	1,500
7435- Other Purchased Services	Water Treatment Residuals removal cost and testing of the residuals due to new regulations by the CDPHE. Also testing for water quality needs T&O.	128,500
7441- Electric	Budgeted by Finance "based on incrs & 12mo rolling avg"	236,401
7442- Water/Sewer/Stormwater	Sewer service to the City of Loveland 3% increase (Added \$10000.00 to purchase water if needed)...Budgeted by Finance "based on incrs & 12mo rolling avg"	4,088
7445- Telephone	Added more units staff working from home and new work order system that can be utilized from an app. 3 tablet cards, 7 cell phones	7,000
7446- Other Utility	trash service increase in price	2,000
7461- Machine, Vehicle, Equipment	This account is used for pump, motor and valve rebuilding and other major repairs to plant machinery performed by outside vendors.	3,500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	11,641

**Boyd Lake Filter Plant****421-8700-87005**

GL Account *	Notes	2023
	\$7500 for cleaning supplies / yard / plant maintenance	
7466- Facilities Maintenance	\$1000 for replacing window blinds at the facility.	8,500
7473- Meals	Approximately 14 days of per diem. More meetings planned for plant and attendees. Moved \$600 from 7478 for conference.	676
7475- Mileage	Staff to attend trainings . Moved \$500 from 7478 for RMSAWWA conference.	800
7478- Registration	3 persons to the 5 day "Boulder" operator's training @ \$500.00 each; 8 people @ \$700.00 each to attend short courses and seminars for updating skills and attaining CEU's needed for renewal of their operator certificates. send one person to the RMSAWWA annual conference. \$2000. Moved \$1700 to other accounts for conference(\$600 to 7472 lodging)(\$ 600 to 7473 food)& (\$500 to 7475 travel).	4,000
7631- Rent	Increase to reflect rental of tents, chairs, tables for summer tours.	3,000
7650- Computer/Phone User Charges		600
		<b>2,645,134</b>

# Water Quality Program

421-8700-87006

GL Account *	Notes	2023
7111- Regular Employees		148,595
7112- Salaries & Wages - Seasonal		19,375
7211- Disability		862
7212- Health		27,624
7213- Dental		826
7214- Vision		36
7215- Life		442
7216- Workers Compensation		1,045
7221- General Employees		5,944
7227- 401K		2,853
7231- FICA		9,213
7232- FICA Seasonal	Seasonal FICA	1,189
7234- Medicare		2,154
7235- Medicare Seasonal	Seasonal Medicare	278
7314- Office Supplies & Materials	Miscellaneous supplies such as sampling bottles, garbage bags for spills, ice bags, bac-T bottles.	5,000
7315- Small Items of Equipment \$100 - \$5,000	As needed equipment	1,000
7317- Meals/Food - Non-Travel Related	Food purchases for meetings, lunches with colleagues, trainings	500
7318- Medical Supplies	Refilling first Aid Kit	100
7321- Medical/Chemical	Purchasing of reagents/kits for colorimeter, calibration standards for field probe.	1,000
7323- Safety And Personal Protection	Replacement of steel toe boots, reflective vest, hard hat, safety glasses, gloves (leather and nitrile)	900
7325- Clothing And Uniforms	Replacement of WQRC sampling gear (Muck Boots, Waders, Raincoat, backpack, warm jackets, warm pants, sampling gloves,) (\$800 per FTE plus \$400 per seasonal).	2,000
7349- Tools < \$5000	miscellaneous tool as needed by staff	1,000
7411- Postage	For certified letters to state, EPA, customers	20
7412- Mailing/Delivery Services - External	Fed Ex samples to lab in coolers, mailing Annual Reports to CDPHE	1,000
7415- Legal	Provide outside assistance on regulatory matters when in-house counsel is needed and unavailable	40,000
7418- Advertising	Advertising for new employees. Legal ads & notices.	200
7426- Outside Printing	Chain of custody forms, sample bottle labels. Tier I, II, III printing. Budgeting for 2 bill stuffers for violations at 2,700 each. Possible printing of the Annual CCR.	12,800
7432- Publications, Subscriptions, and Dues	Purchase of technical manuals	1,000
7433- Memberships & Dues	ABCEP, Envirocert, Cert Arborist, WWTP Level D, C & D level 1. misc.	3,000

**Water Quality Program****421-8700-87006**

GL Account *	Notes	2023
7435- Other Purchased Services	Professional services costs for WQ related to sampling and laboratory services, NISP and Upper Poudre activities, etc. See separate 7435 tracking spreadsheet for full details.	507,000
7436- Certifications	\$1400 for certification TUs for 2.0 FTE	1,400
7472- Hotel and Motel	Water Quality Forum Annual Conference, RMSAWWA Annual Conference and other regulatory conference such as RCA or clean water act education. Approx. \$1,400 per full FTE)	2,800
7473- Meals	per diem meal based on 10 days - use \$65/day in 2021 and \$70/day in 2022	700
7474- Air Travel	Roundtrip airfare to conferences (2 out of state trips - 500 per trip)	1,000
7475- Mileage	Mileage (personal vehicle) to attend various conferences and forums on river health, water quality, adaptive practices, OSHA, and field sampling quality control and techniques. 56 cents per mile.	500
7477- Other Travel	Parking fees and shuttle fees associated with conferences, uber, car rental	1,000
7478- Registration	Registration for conferences, training events, classes for CEU's and operator certifications.	2,400
7633- Equipment Rentals	PID, 4-gas meter.	100
7811- Grants-Outside Agencies	Funds to support relevant research efforts that are of benefit to regulatory compliance and watershed protection programs.	1,000
8208- Furniture, Fixtures & Equipment	Budgeting for 2 isco automatic samplers in 2022-2023 at \$5,600 each plus accessories.	13,000
		<b>820,856</b>



# **Fund 411**

## **Sewer Operating and Maintenance**

**Sewer Administration****411-8010-10000**

GL Account *	Notes	2023
7111- Regular Employees		175,675
7211- Disability		1,019
7212- Health		20,717
7213- Dental		621
7214- Vision		29
7215- Life		512
7216- Workers Compensation		227
7221- General Employees		7,027
7227- 401K		3,372
7231- FICA		10,893
7234- Medicare		2,547
7314- Office Supplies & Materials		100
7411- Postage		100
7432- Publications, Subscriptions, and Dues	Professional services related to rate model development & Financial External Audit (annual, currently Anton Collins Mitchell LLP)	500
7435- Other Purchased Services		17,005
7445- Telephone		3,000
7478- Registration	AWWA compliance refresher courses	1,000
7655- Bank/Investment Charges	Charges from utility billing customer online payments	100,000
		<b>344,344</b>



**Sewer Engineering****411-8010-80001**

GL Account *	Notes	2023
7111- Regular Employees		305,867
7211- Disability		1,773
7212- Health		35,911
7213- Dental		1,074
7214- Vision		47
7215- Life		892
7216- Workers Compensation		1,349
7221- General Employees		12,236
7227- 401K		5,871
7231- FICA		18,965
7234- Medicare		4,435
7314- Office Supplies & Materials		100
7315- Small Items of Equipment \$100 - \$5,000		500
7317- Meals/Food - Non-Travel Related		500
7325- Clothing And Uniforms		500
7418- Advertising		100
7432- Publications, Subscriptions, and Dues	Memberships for NFRWQPA, WEF, UPP and American Society of Civil Engineers	4,534
7433- Memberships & Dues	Memberships in AWWA, WEF, ASCE, and others for three engineers.	600
7435- Other Purchased Services	Licensing costs for AutoCAD and InfoSWMM	12,500
7445- Telephone		1,500
7472- Hotel and Motel	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	1,970
7473- Meals	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	1,000
7474- Air Travel	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	1,500
7475- Mileage	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	500
7478- Registration	Training and professional development for professional engineers. The annual plan is developed in consultation with the engineers and chief engineer.	2,000
		<b>416,224</b>

**WTRF Administration****411-8100-10000**

GL Account *	Notes	2023
7111- Regular Employees		264,989
7112- Salaries & Wages - Seasonal		15,836
7121- Overtime-Regular		5,263
7211- Disability		1,538
7212- Health		41,436
7213- Dental		1,239
7214- Vision		54
7215- Life		781
7216- Workers Compensation		2,086
7217- Worker Compensation/Seasonal	Seasonal Workers Comp	387
7221- General Employees		10,600
7227- 401K		5,087
7231- FICA		16,430
7232- FICA Seasonal	Seasonal FICA	825
7234- Medicare		3,843
7235- Medicare Seasonal	Seasonal Medicare	203
7314- Office Supplies & Materials	Small batteries, brushes, name tags, rubber stamps, calculators, annual planners and calendars, flash drives, food items for necessary meetings, employee recognition awards. Increased costs also due to an anticipated increase in employee retirement celebrations.	7,329
7315- Small Items of Equipment \$100 - \$5,000	2 office monitors; Two new office chair. Each year, one replacement computer, \$900.	2,500
7316- Computer Hardware/Software < \$5000	2 office monitors; Two new office chair. Each year, one replacement computer, \$900. Boom mic and new speakers for conference space. New accounts for HACH (\$1,900 annually) and BIOWIN (\$2,500 annually) software maintenance agreements for plant usage and data tracking.	7,000
7317- Meals/Food - Non-Travel Related	Retirement lunches, Appreciation lunches, and Training meals	3,000
7318- Medical Supplies	first aid kits	1,000
7321- Medical/Chemical	UV germicide replacement bulbs for offices and meeting rooms; first aid kits.	1,000
7323- Safety And Personal Protection	Boots, PPE, Safety glasses	1,000
7325- Clothing And Uniforms	20 uniformed employees @ \$800 allotment for jeans, shirts, jackets, sweatshirts, coveralls, etc. Increased budget due to under budgeting and higher clothing costs. Amount per employee increased to align with other departments in Water and Sewer.	16,000

**WTRF Administration****411-8100-10000**

GL Account *	Notes	2023
7328- Fleet Fuel	Budgeted by Fleet	691
7344- Building and Grounds Maintenance Supplies	Miscellaneous supplies for admin. staff.	1,000
7349- Tools < \$5000	Tool kits for admin building	500
7411- Postage	For certified letters to state, EPA, customers.	100
7412- Mailing/Delivery Services - External	For certified letters to state, EPA, customers.	300
7418- Advertising	Advertising for new employees. Legal ads & notices.	400
7424- In-House Copying	Canon ID #404-a copy machine annual costs.	3,300
7426- Outside Printing	Award nomination packages' printing costs/materials; misc. admin. printing costs. New replacement pamphlets, DVD's, brochures, display boards, etc. for public education & outreach program for each year.	500
7432- Publications, Subscriptions, and Dues	Scientific journals, other training materials as needed	1,000
7433- Memberships & Dues	AWWA and other professional memberships related to wastewater treatment and clean water.	20,000
7435- Other Purchased Services	Outside services to assist with employee refresher training requirements for Stormwater/spill prevention, and for troubleshooting emergency situations when in-house City staff is unable to resolve a problem. TMMI annual software maintenance agreement for plant-wide SCADA computer system, Specter Instruments 911 alarm paging system software maintenance; Allen-Bradley (Rexel) software maintenance agreement, HACH WIMS annual software maintenance agreement with one additional license each year. Increase is due to need for Hach software maintenance agreement and additional clients (licenses) for the WIMS database. Tennative Cityworks fees.  2021- 2022: Colorado Discharge Permit System (CDPS) anticipated new annual permit fee \$28,000; Colorado Stormwater discharge annual permit fee \$200; state certified truck scale annual fee \$300; Colorado Dept. of Public Health & Environment (CDPHE) air permit annual fee \$750; CDPHE air pollution emission notification update fees for WPCF \$500; UPS mail service charges \$100.	53,363
7445- Telephone	Monthly phone service for plant and cell phone monthly charges for the plant superintendent. Budget include cell phone upgrades when eligible and phone accessories	4,500

**WTRF Administration****411-8100-10000**

GL Account *	Notes	2023
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	887
7466- Facilities Maintenance	Costs for general maintenance of Admin bldg. such as carpet cleaning. Facilities cost estimate provided in 2019.	3,000
7472- Hotel and Motel	Water Environment Federation Technical Conference (WEFTEC) in Chicago (2021), New Orleans (2022) for Plant Supt. & Process Analyst for 4 days. RMSAWWA/RMWEA Annual Conference (2021) at Loveland, CO. Equipment site visits. National Association of Clean Water Agencies (NACWA) annual conference. Process Innovations Conference. IAAP Confereneces	5,000
7473- Meals	GSA per diem x 3 days @ RMWEA/RMSAWWA 2021 Annual Conference at Keystone, CO; WEFTEC 2021 Chicago, IL and WEFTEC 2022 New Orleans, LA respectively. NACWA annual conference	2,000
7474- Air Travel	Roundtrip airfare to WEFTEC 2021 Chicago, IL, and WEFTEC 2022 New Orleans, LA. Misc. air travel for equipment/process site visits per Master Plan recommendations. NACWA annual conference.	2,000
7475- Mileage	Mileage to attend RMWEA/RMSAWWA Annual Conferences and bio solids conferences. Travel to and from Denver (for airport parking) for WEFTEC Conferences. Annual Denver seminars.	500
7477- Other Travel	WEFTEC New Orleans in 2022. Parking fee (2 vehicles) at DIA when attending both WEFTEC Conferences. Taxi fees at conferences. Parking fees for science fair judges at annual Colorado Science & Engineering Fair (CSEF) at CSU.	500
7478- Registration	For Supt. and Process Analyst-Professional Wastewater Operator's (PWO) classes; RMWEA Annual Conference , Loveland, CO; WEFTEC Conference, Chicago, IL; RMWEA Denver, CO Bio solids Conference; Three classes for Admin.Specialist. Professional Wastewater Operator's (PWO) classes; RMWEA Annual Conference, Denver, CO; RMWEA Denver, CO Bio solids Conference; WEFTEC Conference, New Orleans, LA. NACWA annual conference	5,000
7811- Grants-Outside Agencies		4,000
		<b>517,967</b>

**WTRF Operations****411-8100-10010**

GL Account *	Notes	2023
7111- Regular Employees		610,368
7121- Overtime-Regular	Occasional overtime pay to help offset comp time accruals. Requesting additional funds due to wage increases and several pending employee retirements.	6,699
7211- Disability		3,536
7212- Health		110,496
7213- Dental		3,304
7214- Vision		144
7215- Life		1,812
7216- Workers Compensation		5,804
7221- General Employees		24,418
7227- 401K		11,718
7231- FICA		37,846
7234- Medicare		8,850
7314- Office Supplies & Materials	Pens, pencils, binders, folders, etc. for operations. Batteries, keys, flow chart recorder paper and pens, sludge coretakers,	2,850
7315- Small Items of Equipment \$100 - \$5,000	Flow cell for UVT meter, operations probes/electrolyte for field meter, replace AB1 DO meter, replace bench pH meter probe, probe failures & replacements. Replace bench DO/OUR meter probe. Replace Demon online pH,DO, conductivity probes. Larger monitors for DWB operations office & Annex. Inserting additional dollars for instrumentation per nitrification project inline instrumentation upkeep.	18,650
7316- Computer Hardware/Software < \$5000	one new additional laptop, one replacement computer, software (BlueBeam)	4,500
7317- Meals/Food - Non-Travel Related	Increase due to more in-house lunch trainings (Lunch and learn) and working lunches.	2,000
7318- Medical Supplies	Needed for updating and creating new first aid kits and supplies.	500

**WTRF Operations****411-8100-10001**

GL Account *	Notes	2023
7321- Medical/Chemical	Polymer for dewatering and the new PW Tech volute thickeners. pH buffer, sulfuric acid, reagents, Sampler pump tubing peristaltic, intake tubing, disinfection backup chemicals chlorine, sulfur dioxide, soda ash, caustic soda beads, bio augmentation novozymes bio remove 5805, polymer cleaner, H2S gas measurement tubes, microscope stains, sodium bicarbonate for alkalinity, Ferric chloride. defoamer for dry polymer, lab glassware, pipettes, micronutrients for anammox treatment process. PAX chemical addition for filament control. Hach bench testing process control lab supplies for the DEMON process. Added 5% annually to overall budget to account for polymer increases in cost, shipping, and usage. Adding \$100k, \$150K respectively for increased usage of FeCL3 as recommended from Master Plan Design direction.	638,899
7323- Safety And Personal Protection	safety boots for 8 night operators \$200 ea. Safety glasses 4 per year at \$250 ea. Hearing portection, nitrile gloves, and PPE related to biohazards	4,000
7325- Clothing And Uniforms	Rubber boots, rain gear	2,500
7328- Fleet Fuel	Budgeted by Fleet	1,717
7333- Machinery, Vehicle & Equipment Parts	Parts for operations vehicles and vehicle tires.	1,000
7344- Building and Grounds Maintenance Supplies	Cleaning supplies for dewatering and operations annex buildings. COVID 19 pandemic created higher awareness of the need for regular surface sanitization and required supplies.	2,500
7349- Tools < \$5000	Will fund the purchase/replacement of hand tools for the division.	1,000
7418- Advertising	New employee job advertisements. Expected to increase with retirements pending.	1,000
7424- In-House Copying	In-house copying	175
7426- Outside Printing	Business cards for staff. Signs for plant sponsored RMWEA Greeley seminar.	500
7432- Publications, Subscriptions, and Dues	Reference books for operations,	1,500
7433- Memberships & Dues	Eight memberships for the WEF and Rocky Mt Water EA at \$110 ea.	1,000
7435- Other Purchased Services	Microscopic evaluations by Dr. Michael Richard 4x/year. Increases from higher sludge volumes and resulting hauling costs.	251,621
7441- Electric	Xcel electricity and solar purchase agreement expenses.	538,877
7444- Natural Gas		27,059

**WTRF Operations****411-8100-10001**

GL Account *	Notes	2023
7445- Telephone	Cell phone use for operations staff, 5 phones. Additional funding is being requested for replacement/upgrades/accessories.	5,500
7461- Machine, Vehicle, Equipment	Wastewater sampler service, operations lab balance service, truck scale repair, alarm pager/city radio repair, annual microscope service. 2020 increased radio availability and resulting financial requirements for accessories and batteries.	500
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	1,185
7472- Hotel and Motel	Leadville plant operator school lodging. For Operations Supervisor, WEFTEC Chicago , WEFTEC New Orleans. Regional JAC. Requesting additional funds for anticipated Master Plan recommended equipment site visits in both 2021 and 2022.	4,500
7473- Meals	2021 & 2022: Leadville operator school, Denver area activated sludge troubleshooting 3 days, Denver area biological nutrient removal, RMWEA/RMSAWWA annual conference (Keystone, CO). 2020--RMWEA/RMSAWWA annual conference (Loveland, CO). For Operations, WEFTEC Chicago, IL & New Orleans, LA respectively. Increase is due to sending more staff members to the Joint Annual Conference.	1,500
7474- Air Travel	For Operations Supervisor, roundtrip airfare to WEFTEC 2021 Chicago, IL, and WEFTEC 2022 New Orleans, LA. For 2021 & 2022, 2-3 anticipated equipment site visits per recommendations from Master Plan. Increase is due to expected additional air travel requirements.	2,000
7475- Mileage	Roundtrip mileage @ \$0.55/mile. In 2021 & 2022, Leadville operator school 234 miles, activated sludge troubleshooting Denver area 130 miles; biological nutrient removal Denver area 130 miles-RMWEA/RMSAWWA annual conference Loveland, CO (2021-2022). Additional funding of seminar and site visits is requested. Budget fluctuates depending on conference venues and availability of City vehicles.	998
7477- Other Travel	Airport parking fees. Car rental for equipment site visits. Shuttles and taxis when attending WEFTEC.	300



**WTRF Operations****411-8100-10001**

GL Account *	Notes	2023
	2022: Rocky Mtn. Water Environment Association (RMWEA) operator training-Feb, Denver, March-Golden, May-Denver Metro, June-activated sludge troubleshooting, Denver area, June, PWO seminar, Greeley, July--Leadville conference, RMWEA/RMSAWWA annual conference (Loveland, CO), September, WEFTEC (New Orleans) for Operations Supervisor, October-Estes Park, Nov-annual bio solids conference in (Ft. Collins), 2. Both years, reimbursement for state operator certification exam. Increased budgets for new employees resulting from several expected retirements. Increased training to improve knowledge and operational efficiency.	
7478- Registration		4,545
7633- Equipment Rentals	Gas Detector Rental Agreement.	3,000
		<b>2,350,871</b>

**WTRF Maintenance****411-8100-10020**

GL Account *	Notes	2023
7111- Regular Employees		358,179
7121- Overtime-Regular	Budget is to help offset employee comp time accruals and upcoming maintenance mechanic retirements. Anticipated increase in standby/OT due to increased distribution of responsibilities.	8,420
7211- Disability		2,078
7212- Health		69,060
7213- Dental		2,065
7214- Vision		90
7215- Life		1,071
7216- Workers Compensation		3,406
7221- General Employees		14,326
7227- 401K		6,876
7231- FICA		22,209
7234- Medicare		5,190
7314- Office Supplies & Materials	Office supplies for maintenance staff.	6,300
7315- Small Items of Equipment \$100 - \$5,000	Replace flow/level meters – 6 ea/yr., \$1,400. Pressure Transmitters. Poly Pumps. Chem Pumps. Solenoids for seal water, Chem systems. & TV monitor 2022.	32,000
7317- Meals/Food - Non-Travel Related	Appreciation lunches	2,000
7318- Medical Supplies	First Aid kits	500
7321- Medical/Chemical	Pendulum concentrate ground kill. Roundup weed kill 5 gal. Insecticide. Odor chemical Struvite (ammonium magnesium phosphate) control chemical. Cleaning gas (HCl) for aeration basin diffusers(includes hazardous shipping). Lawn fertilizer. Media for biogas scrubber every year. Glycol for digester heat loop.	65,000
7323- Safety And Personal Protection	Boots, safety glasses, hearing protection, hard hats, fall protection,H2S, Arc flash	10,000
7325- Clothing And Uniforms	Rubber boots/rain gear. Work gloves/25 pairs;	2,470
7328- Fleet Fuel	Budgeted by Fleet	5,444
7333- Machinery, Vehicle & Equipment Parts		5,000
7338- Water, Sewer, Irrigation Line Repair Parts	Sprinkler heads 50 ea. Pipe; miscellaneous pipe. Cleanouts for project lines.	8,000
7344- Building and Grounds Maintenance Supplies		15,000

**WTRF Maintenance****411-8100-10020**

GL Account *	Notes	2023
7346- Street & Traffic Repair and Maintenance Supplies	Digester recirc pumps - 6 units. Return activated sludge pumps 5 units. Effluent flood pumps 3 units,. Trash pumps 2 units. 12" diesel backup trash pump 1 unit. Centrifuge overhaul one unit each year, centrifuge gearbox. Heat loop pumps 4 units, New centrate treatment system which includes lift station 2 pumps (annually), 5 mixers, 2 blowers, 3 transfer pumps, golf cart/UTV parts, 7 units. Grit turbo pumps 2 units, 1 overhaul/yr. Various heating/cooling valves; boards for 9 HVAC units. Waste gas flare ignitor/starter. New polymer feed systems 3 units. Digester biogas equipment parts. Pump packing. Headworks and digester gas monitors - 4 sensors/yr. Yard hydrant caps, seals, brass fittings. Dewatering sludge pump parts. Biogas booster pumps - 2 units. Band saw & table saw blades and bits. Emergency backup power generators - 3 units. Greases, oils for equipment. Replace electrical wire in aging conduit runs. Dewatering boiler parts, gaskets, yearly cleaning. Catch basin screens for stormwater regulations. Barscreen (rotomat) 3 units in deteriorating condition. Hot water pumps Digester. led gases for cutting torches/brazing. Welding rods/supplies. Maint. Tools. Concrete supplies. Metal pipe, fittings, hardware, steel plate. Lumber for plant projects. PVC pipe and fittings. Paint, lumber and supplies. Light bulbs/ballasts and fixtures.	60,000
7348- Plant Materials	Mulch, tree and plant replacements, rock for plant grounds	1,000
7349- Tools < \$5000		10,000
7411- Postage	Postage for mailings.	220
7418- Advertising	Advertising for new maintenance personnel.	200
7424- In-House Copying		200
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues	Safety handbooks and correspondence course materials.	500
7433- Memberships & Dues	Maintenance/operations correspondance courses. WEF membership yearly dues. Two certifications renewals.	1,500

**WTRF Maintenance****411-8100-10020**

GL Account *	Notes	2023
7435- Other Purchased Services	Programmable logic controller (PLC) programming. Testing and certification of plant breakers, medium voltage switches, power metering modules, six areas. 3 programming efforts related to volute thickeners, CHAP, and TWAS pumps. Underground storage tank testing, annual truck scale certification, oil testing 20 tests, backflow preventer testing 11 units, upgrades to backflow prevention devices to meet new regulatory requirements (2019); US mailing service, wastewater certification testing, boiler water treatment, annual crane and hoist inspections. Various instrumentation service/repair/calibration. Increase due to State mandated water main vaults needing upgrades.	60,000
7445- Telephone	One cell phone for maintenance mechanic plus one for supervisor, including upgrades and accessories. Underbudgeted in 2018.	2,000
7446- Other Utility	Plant trash disposal, nine dumpsters picked up five times/week, two specialized dumpsters for oily waste, picked up as needed. Increase due to changing amount of trash pickups to 5 times/week. Project activities likely increase utility's across board, increased. WM trash hauling (average of \$581 per month)	7,000
7461- Machine, Vehicle, Equipment	Turf mower repairs. Machine shop repairs. Motor rewinds, crane and hoist repairs. Flow and level meter calibration. Variable speed drives repairs. Generator PM 3 units. Fire extinguisher PM. Plant road maintenance. Crack sealing, seal coating, chip seal. Outside service for outdoor light pole repairs.	50,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	5,628
7466- Facilities Maintenance	Roto-rooter service for plant drains these are about \$1000 ea. Replacement of vegetation requiring removal during Nitrification phase 2. Boiler inspections. CDS-1 annual inspection of 2 boilers. HVAC tech services systems are getting very old and in need of repair/replace. Outside contracted cleaning services for buildings annually. Increase is due to the last item which has been budgeted in operations and now moved to maintenance. Numerous HVAC units identified as non corrosion resistant and require replacement.	28,611

**WTRF Maintenance****411-8100-10020**

GL Account *	Notes	2023
7472- Hotel and Motel	Vogelsang pump service school or related maintenance training for one employee, and hotel for two employees to attend the RMWEA/2019 RMSAWWA Annual Conference in Keystone, CO. Both years, WEFTEC. Equipment site visits. Increase is due to not budgeting for WEFTEC in the past, equipment site visits, and sending more than one employee to the RMWEA/RMSAWWA Annual Conference.	3,200
7473- Meals	2022 RMWEA Annual Conference (Loveland, CO). Service school. 2022. WEFTEC (New Orleans).	1,500
7474- Air Travel	Airfare to maintenance pump service school, 1 employee. WEFTEC airfare. Misc. airfare for equipment site visits per Master Plan recommendations.	1,700
7475- Mileage	Reimbursement for driving to and from conferences and training. Misc. expenses for mileage reimbursement.	250
7477- Other Travel	Shuttle, taxis when attending WEFTEC.	200
7478- Registration		5,500
7633- Equipment Rentals	Rental of pumps, scaffolding, lifts, centrate reactor warming equipment; other emergency equipment. Gasoline storage tank lease for plant use. 2020 failure of CHAP resulted in \$7k monthly expense for rental of ground thaw heater. 22 increase = contingencies for similar failures requiring emergency equipment.	7,000
		<b>890,993</b>

**WTRF Laboratory****411-8100-81001**

GL Account *	Notes	2023
7111- Regular Employees		240,249
7121- Overtime-Regular	Increase due to Construction processes causing disruptions to regular work hours leading to team members working overtime	1,053
7211- Disability		1,394
7212- Health		41,436
7213- Dental		1,239
7214- Vision		54
7215- Life		711
7216- Workers Compensation		2,283
7221- General Employees		9,611
7227- 401K		4,612
7231- FICA		14,895
7234- Medicare		3,485
7314- Office Supplies & Materials	Pens, pencils, folders, binders, labels, clipboards, etc. for lab. Batteries, calendars & refills, items under \$100.	500
7315- Small Items of Equipment \$100 - \$5,000	Laboratory and field instruments, LBOD probe, lab chair, river monitoring equipment, digital buret, research pipettes, E.coli , laboratory probes, sample refrigerator, BOD incubator, analytical balance..	9,500
7316- Computer Hardware/Software < \$5000	Adding new SCADA computers and scheduled replacements of computers in which we are converting desktops to laptops	1,500
7321- Medical/Chemical	Laboratory chemicals, reagents, EPA(QA/QC) standards, analytical glassware, sample bottles and jugs. Other items in the budget include: DO & pH probes, thermometers, filters and filtering equip, poly and nitrile gloves, river sampling supplies, E.coli and fecal coliform supplies, laboratory chemicals, reagents, indicators, ph. buffers, supplies and storage solution, Hach reagents and equipment.	20,000
7323- Safety And Personal Protection	Budgeting for 3 team members for new boots annually, new waders annually, new prescription safety glasses bi-annually, and new safety glasses annually, and other PPE annually.	2,000
7325- Clothing And Uniforms	Waders for river work, work gloves, clean metals sampling suits, Lab coats	1,250
7344- Building and Grounds Maintenance Supplies	Cleaning and routine maintenance supplies for the lab.	547
7349- Tools < \$5000		500
7411- Postage	Postage for lab mailings.	75
7424- In-House Copying	Increase due to under-budgeting in the past with all EPA, CDPHE, and other mailings	1,000

**WTRF Laboratory****411-8100-81001**

GL Account *	Notes	2023
7426- Outside Printing	Increase due to no budgeting in the past and being charged	100
7432- Publications, Subscriptions, and Dues	Standard methods, lab manuals, professional publications & newsletters,	400
7433- Memberships & Dues	Increase due to additional memberships for supervisor, coordinator, and analyst.	500
7435- Other Purchased Services	Expense for professional data processing instructions and services via an IGA with the State of Colorado Division of Water Resources satellite-linked river gauge monitoring system. Biomonitoring (extra funds must always be available if sample failures occur; must then perform required TIE & TRE studies). Funding for any plant unscheduled emergency sampling and project analyses. River monitoring: nutrients, metals, benthic study, fish study and Reg #85 analyses. Higher costs for field QA/QC by the Lower Poudre River Monitoring Alliance. Clean metals mercury analysis quarterly. Effluent metals analyses. Hazardous air pollutants (HAP's), digester gas analyses. QA/QC splits w/contract labs. Bio solids metals and nutrient analyses plus Bio solids dioxins scan & radioactivity tests. Deionized water testing.	56,400
7461- Machine, Vehicle, Equipment	Analytical balance calibrations, repair and maintenance of laboratory equipment, sample refrigerator, incubators, ovens, autoclaves, centrifuges.	700
7472- Hotel and Motel	Lab personnel to acquire needed certification training units via the Rocky Mtn. Water Quality Analysts Association (RMWQAA) conference and Rocky Mtn. Water Environment Association (RMWEA) conference.	750
7473- Meals	Lab personnel to acquire needed certification training units via the Rocky Mtn. Water Quality Analysts Association (RMWQAA) conference and Rocky Mtn. Water Environment Association (RMWEA) conference.	500
7475- Mileage	Mileage for training, classes and meetings. For meetings on nutrient modeling for new regulations. RMWQAA conference, workshops and meetings. Colorado Monitoring Framework (CMF) Workshop and meetings in the Denver area. Lab personnel to attend analytical and regulatory classes through the RMWQAA and RMWEA Lab Practices program.	650
7477- Other Travel	Parking fees when judging state science fair at CSU. Taxis, Car rental etc.	30



**WTRF Laboratory****411-8100-81001**

GL Account *	Notes	2023
7478- Registration	Registration to attend the Rocky Mtn. Water Environment Association (RMWEA) conference and RMWEA bio solids conference . Registration for lab personnel to attend the RMWQAA conference. Lab personnel to attend analytical and regulatory classes through the RMWQAA and RMWEA Lab Practices program.	1,700
7633- Equipment Rentals	Deionized water purification system for plant's main laboratory. Rental payments were made in 2019 but were not put in the correct account. .	1,500
		<b>421,124</b>

**Industrial Pretreatment****411-8100-81002**

GL Account *	Notes	2023
7111- Regular Employees		246,901
7121- Overtime-Regular		2,105
7211- Disability		1,433
7212- Health		41,436
7213- Dental		1,239
7214- Vision		54
7215- Life		729
7216- Workers Compensation		2,345
7221- General Employees		9,877
7227- 401K		4,741
7231- FICA		15,307
7234- Medicare		3,582
7314- Office Supplies & Materials	Supplies such as pens, paper file folders, office desk items, paper. Batteries, printer cartridges, field instruments, ISCO (the manufacturer of the automatic composite sampler) supplies, jugs, tubing, glassware, award certificates for commercial and industrial users, miscellaneous pretreatment operating supplies; filter replacements for the cleaning room and acid filters.	1,200
7315- Small Items of Equipment \$100 - \$5,000	Misc. items for the pretreatment program.	1,000
7316- Computer Hardware/Software < \$5000		2,000
7318- Medical Supplies	Needed for updating and creating new first aid kits and supplies.	500
7321- Medical/Chemical	pH buffer solutions, Hach test reagents. Misc. chemical cleaners and acids; supplies for cleaning the pretreatment lab. Chemical disposal	1,325
7323- Safety And Personal Protection	Budgeting for 3 team members for new boots annually, new waders annually, new prescription safety glasses bi-annually, and new safety glasses annually, and other PPE annually	2,000
7325- Clothing And Uniforms	One pair glasses; safety boots & vests for two industrial pretreatment technicians; work gloves; protective coveralls are needed because of working in and around city manholes with pretreatment sampling equipment and for low level mercury sampling. Under budgeted in 2018.	500
7328- Fleet Fuel	Budgeted by Fleet	362
7333- Machinery, Vehicle & Equipment Parts	Various equipment parts for sampling and lab workstation in the industrial pretreatment vehicle.	1,330
7344- Building and Grounds Maintenance Supplies	Small tools, equipment and supplies for field repairs and sampling set-up.	400
7349- Tools < \$5000		300

**Industrial Pretreatment****411-8100-81002**

GL Account *	Notes	2023
7411- Postage	Classification mailings; Best Management Practices program mailings; misc. notices and orders.	100
7412- Mailing/Delivery Services - External	Increase due to severe under budgeting in the past with all EPA, CDPHE, and other mailings.	500
7418- Advertising	Significant noncompliant public notices and industrial user permit public notices. Annual fee for Public Service Announcements (PSA's) on Pharmaceuticals, and Personal Care Products (PPCP's).	3,000
7424- In-House Copying		400
7426- Outside Printing	Duplication of manuals, information pamphlets, printing of Best Management Practices participant window stickers.	400
7432- Publications, Subscriptions, and Dues	Pretreatment reference materials	500
7433- Memberships & Dues		1,000
7435- Other Purchased Services	Service contract for Linko industrial pretreatment program software. Service contract for Portalogic software (waste hauler's dump station controller). Permit required compliance monitoring of Significant Industrial users (SIU's); CDPS permit required monitoring of WPCF influent and effluent, and local limits monitoring. Potential TENORM and PFAS testing	25,000
7445- Telephone	Cell phone charges (including upgrade costs) for the pretreatment staff.	3,100
7462- Equipment Maintenance Charges		678
7463- Maintenance Agreements	Outside repair of industrial pretreatment sampling equipment or instrumentation.	5,500
7472- Hotel and Motel	Budget is for two employees to attend the National Association of Clean Water Agencies (NACWA) Pretreatment & Pollution Prevention Workshop, or EPA Regional Pretreatment Workshop.	3,000
7473- Meals	Per Diem while attending workshop.	600
7474- Air Travel	Annual NACWA national (or EPA Regional) pretreatment workshop for three employees. Roundtrip airfare.	1,400
7475- Mileage	Anticipated costs to attend the Colorado Industrial Pretreatment Coordinator's Association (CIPCA) meetings.	300
7477- Other Travel	Fees for airport parking, shuttles, taxis; rental cars.	400

**Industrial Pretreatment****411-8100-81002**

GL Account *	Notes	2023
7478- Registration	Annual Colorado Industrial Pretreatment Coordinators Association (CIPCA) Fall conference; annual Rocky Mtn. Water Envir. Assoc. (RMWEA) PWO operator's certification training; annual NACWA pretreatment workshop.	3,500
7633- Equipment Rentals	Confined space gas detector lease; deionized water filter system lease for pretreatment clean room lab.	2,500
7811- Grants-Outside Agencies	Funds distributed by the City to the Poudre Learning Center to assist them with the procurement of needed water testing supplies for the students.	500
		<b>393,044</b>

## Sewer Collection

411-8200-10010

GL Account *	Notes	2023
7111- Regular Employees		717,488
7121- Overtime-Regular	Special projects/annual call-out averages 56, of that 26 were after hours (OT) totaling 80hrs of over time or 3hrs of OT/event. 26 (OT call-outs) x 3hr/event x \$404 (crew rate) = \$31,500.	33,154
7211- Disability		4,161
7212- Health		179,556
7213- Dental		5,375
7214- Vision		238
7215- Life		2,187
7216- Workers Compensation		8,780
7221- General Employees		28,694
7227- 401K		13,770
7231- FICA		44,481
7234- Medicare		10,405
7314- Office Supplies & Materials	Office supplies including copier paper, envelopes, pens, pencils, tape, printer cartridges. Recreational supplies, film, batteries (A, AA, AAA's), keys, gift certificates, name tags, rubber stamps, calendars and planners,	4,450
7315- Small Items of Equipment \$100 - \$5,000	Furniture and equipment with a per unit cost of \$100 - \$5,000 with useful life of 1 year or more. This does not include repair parts. Budget adjusted, moved hand tools to 7349 "Tools".	6,250
7316- Computer Hardware/Software < \$5000		5,000
7317- Meals/Food - Non-Travel Related	Meals/Food - non-travel related food items for in-house meetings and training and concessions.operations will hold external safety/meetings and share expense with multiple departments.	1,000
7318- Medical Supplies	First aid kits, bandages, aspirin, and other medical items.	1,000
7321- Medical/Chemical	Lab supplies, hazmat supplies, mace, and less-lethal rounds. Chemicals required for operations such as chlorine, de-icing salt, fertilizers, weed spray, fire extinguishers (not charging – see 7461) bug spray, pest strips, CO2 detectors, etc.Chemicals to treat lift stations and general shop maintenance. Upgrades to the lift station discharge manholes are complete, the purchase of bioxide is no longer needed.	5,000
7323- Safety And Personal Protection	Safety glasses, boots, ear protection, gloves, safety vests, hard hats, ear plugs, and masks (PPE). 11 employee @ \$600	6,600

## Sewer Collection

411-8200-10010

GL Account *	Notes	2023
7325- Clothing And Uniforms	Purchase of clothing and uniforms. Includes riot gear and fire helmets. 11 employees @ \$600	6,600
7328- Fleet Fuel	Fleet Fuel - Original Budget	44,584
7333- Machinery, Vehicle & Equipment Parts	Parts for fleet vehicles and equipment. maintenance supplies for small engines, compressor, welders, etc. Attachments to mobile field manitenance vehicles. vehicle tool boxes, seat covers etc.	25,000
7338- Water, Sewer, Irrigation Line Repair Parts	Painting supplies; includes supplies such as brushes, rollers, roller trays, spray paint, wallpaper and glue, Plumbing supplies (above ground). Electrical supplies; includes wiring, fuses, electrical components, light fixtures, bulbs. Building supplies including lumber, nails, screws, glue. HVAC supplies; parts and supplies related to the maintenance and repair of heating, ventilation, and air conditioning equipment. Cleaning and routine maintenance supplies such as nitrile gloves, cleansers, trash	10,400
7344- Building and Grounds Maintenance Supplies	Supplies used to maintain 10 lift station, shop, and the WWC system. Electrical parts, locating paint, janitorial supplies and hand tools.	25,000
7346- Street & Traffic Repair and Maintenance Supplies	Sign parts and supplies, traffic signal supplies. Pavement marking supplies; including pavement paint, thermoplastic markings, etc. Asphalt, tack oil, sand, gravel, and other street repair supplies. Parts for the repair and maintenance of motor vehicles, small engines, batteries (A, AA, AAA, etc. under 7314), chain saws, generators, welders, weed eaters, testing and lab equipment. Also, grader blades & snow blades less than \$5000, tires (includes labor for balancing and mounting),	4,120
7349- Tools < \$5000	Tools with a per unit cost between \$100 and \$5,000 with useful life of 1 year or more. The purchase of small tools, lumber, ladders, rakes, shovels, weed eaters and mower blades. also includes all cutting blades for chop saws, angle grinders, reciprocating saws and all welding supplies. Hand tools addition/replacement	6,000
7418- Advertising	Job advertising	150
7426- Outside Printing	Typesetting, printing, binding, graphics, and related professional printing services for reports, brochures, flyers, business cards, forms, etc. Also includes outside copy charges, laminating, small signs and decals made by outside service.	150

7432- Publications, Subscriptions, and Dues	The purchase of work-related books, reports, manuals, and other publications. Subscriptions to newspapers, magazines, newsletters, similar publications, including updates to law journals and professional practices. Cd's, dvd's	500
7433- Memberships & Dues	Annual membership fees for professional organizations that are job related. AWWA, CRWA, WEF etc. Memberships to organizations relevant to employee discipline. Information received through these organizations keep employees informed and educated on the latest water treatment/storage/distribution techniques. Provide approved training units to maintain certifications.	1,000
7435- Other Purchased Services	Share of call tickets at 1.45 per request. 21-22 hire janitorial services@ collections, facility maintenance cant service WWC due to overload.	15,000
7441- Electric	Electrical cost for operating 10 lift stations and the shop	54,896
7442- Water/Sewer/Stormwater	Tbone lift station emergency overflow payments to Evans, stormwater charges for ww collections site; Based on incrs & 12mo rolling avg	57,030
7444- Natural Gas	Used for lift station emergency generator backup and heating the maintenance shop; Based on incrs & 12mo rolling avg	3,918
7445- Telephone	Includes commercial telephone charges as well as cellular phone charges and modem charges and laptop data plans.	6,300
7446- Other Utility		500
7461- Machine, Vehicle, Equipment	Charges from outside contractors for vehicle repair and maintenance services including car washes. Outside services for the repair and maintenance of elevators, machine, power tools, pumps, and other equipment. Also, includes welding and similar technical services. Annual fire extinguishers charging. Flat tire repair. Contracted outside services for the repair and maintenance of streets and roads, including snow removal, asphalt patching, sweeping, repair, street lights, etc.Outside contractor repairs on vehicles and pumps; Asphalt patching	10,000
7462- Equipment Maintenance Charges	Budgeted by Equipment Maintenance	49,750
7463- Maintenance Agreements		2,000



**Sewer Collection****411-8200-10010**

GL Account *	Notes	2023
7466- Facilities Maintenance	Building and grounds maintenance - outside services for window washing, glass repair, overhead door repair, carpet cleaning, general cleaning, and similar building maintenance. Outside plumbing, heating and electrical services such as inspections, repairs, locks and keying, & related general maintenance. For properties that the City does own. Outside services related to sprinkler systems, sidewalk/concrete repair and replacement, grass seeding and sodding, landscaping and landscape	10,000
7472- Hotel and Motel	Expense for overnight lodging on city business if not included in registration. The increase in budget will cover hotel expense for employees traveling to conferences and school to achieve/maintain City, State & federal certifications to operate and deliver water per the EPA/CDPHE safe water drinking act.	2,500
7473- Meals	Expense for meals while on city business and seminars.	1,000
7474- Air Travel		2,500
7475- Mileage	Reimbursement to employees for the use of their personal vehicle for official city business at a designated rate per mile.	500
7478- Registration	Sign up fee for seminars, workshops, and conferences. Registration fees for EPA/CDPHE approved courses/schools/conferences and internet training necessary to achieve/maintain, State/Federal certifications in Storage and distribution of safe, quality drinking water.	12,000
7631- Rent	Rental costs for buildings, offices, storage units, cones, message boards, land, movie rentals, tents, and show booths. There is no longer a gas monitor lease, COG will purchase and maintain all equipment. Perpetual sewer crossing fee (near JBS) to UPPR paid from this account. Fee increased 3%/year. 2021 Fee = 2279.31	10,692
7633- Equipment Rentals	Heavy equipment rental.	10,000
7650- Computer/Phone User Charges	Budgeted by Finance	150,440
		<b>1,600,119</b>

**Sewer Collection****411-8200-86006**

GL Account *	Notes	2023
7325- Clothing And Uniforms	Safety boots cog logo hats, hard hats 1, safety shirts , light coveralls, safety gloves, safety vest , first aid kit refill, rubber boots , safety glasses, safety sweatshirts, ear protection plugs, ear protection, ear protection muffs, face shield, eye protection goggles, eye protection over the glasses, rain gear, bug spray, sun screen In the past this money was taken from the treatment plants and reservoirs accounts.	1,600
7463- Maintenance Agreements	Satellite charges for VIASAT and GIT, annual SCADA support contracts: GE Digital by Graymatter (Timber Line). Instructional advice received about the maintenance of new equipment installed at the treatment plants.	16,900
7478- Registration	Registration fees for AWWA. Also for advanced electrical & instrumentation training. Required to attend class on new equipment installed at the treatment plants.	1,800
		<b>20,300</b>

# Water & Sewer Agenda Summary

Date: July 20, 2022

Key Staff Contact: Adam Prior

**Title:** UPDATING W&S DESIGN CRITERIA, DRAWING & SPECIFICATIONS

**Summary:** The City of Greeley Water and Sewer Department is updating the current design criteria from 2008 with new standards to accommodate new technologies, techniques, and materials. As you know, the City of Greeley is growing, and updating the design standards will assist in development and ensure quality utility infrastructure into the future. These updates will also facilitate recent non-potable system requirements adopted by City Council in February of 2022, incorporate the Non-Potable Water, Sanitary Sewer, Transmission & Distributions Master Plans that were completed in 2021, and align with the updated development code completed in 2021. As the City is growing at a rapid pace, these updates will help provide long term infrastructure needs to better prepare and accommodate this growth.

The updated design criteria for the potable water distribution, sanitary sewer collection, non-potable irrigation system, and landscape & irrigation will guide developers and engineers in expanding and connecting to the City's utilities. The larger changes include added lift station criteria, changes to the non-potable system criteria, updated criteria to incorporate the new development code changes, compliance with Subsurface Utility Engineering (SUE) law requirements, and the addition of landscape & irrigation design criteria along with many other smaller changes.

The Water and Sewer Department has worked diligently to coordinate with other departments, engineering development review staff for consistency, a presentation and discussion with the Builders, Realtors, & Developer group in July of 2021, review and input from the Planning Commission in March of 2022, and receive comments and questions from engineers, developers, and designers throughout Greeley on details, design criteria, and specifications from April to June of 2022.

**Recommended Action:** Approve and Recommend to City Council the Adoption of the June, 2022 Water & Sewer Design Criteria, Standard Details, and Construction Specifications.

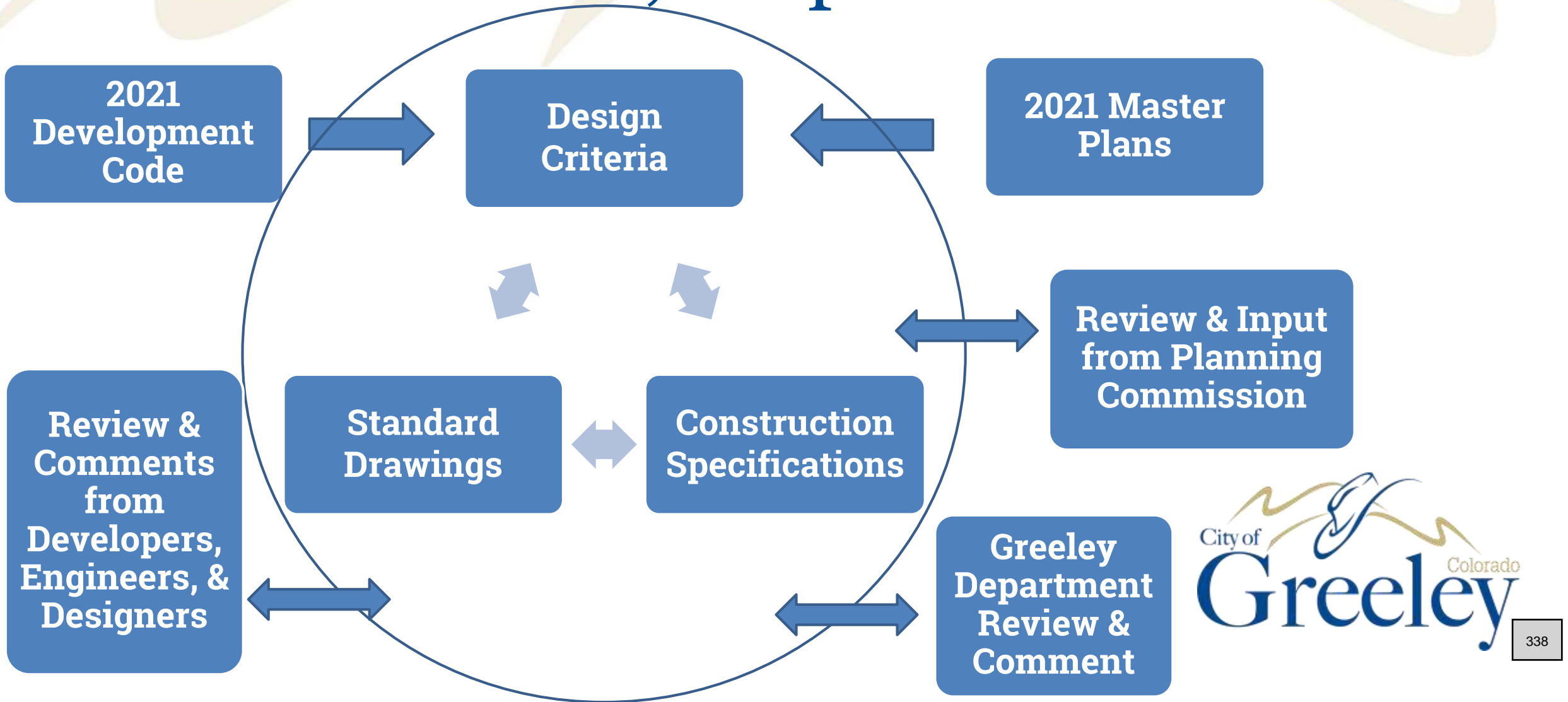
**Attachments:** Ordinance for Adopting new standards, Design Criteria, Standard Details, & Construction Specifications

# Update Water & Sewer Design Criteria, Standards Details, & Construction Specifications

**Presented to  
Water & Sewer Board**

**July 20<sup>th</sup>, 2022**

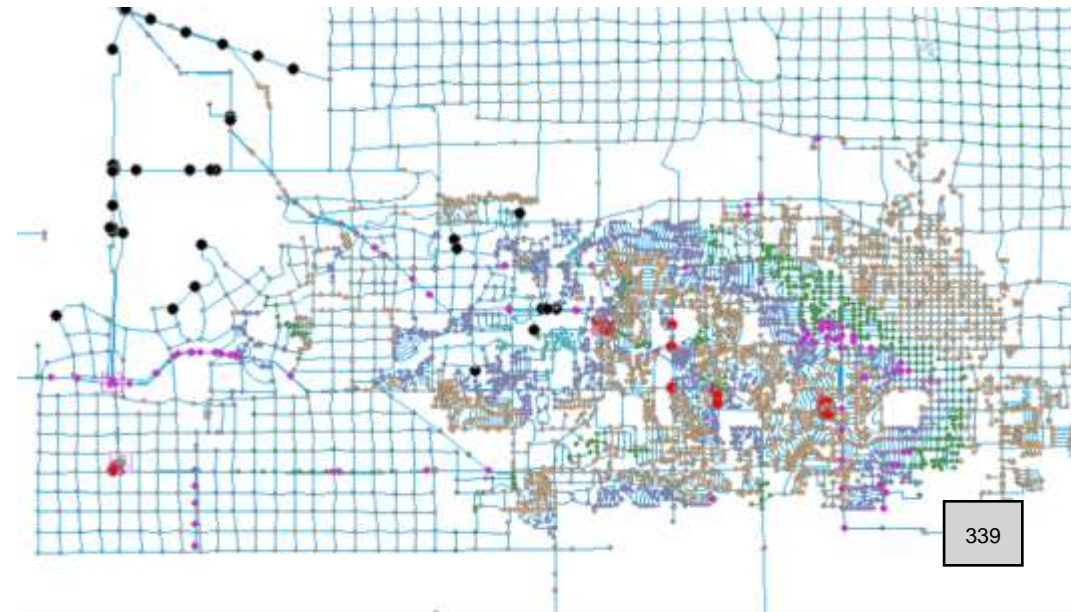
# Process for Updating Design Criteria, Standards Details, & Specifications



# Design Criteria

## Goals

- **Alignment with W&S master plans published 2021.**
- **Align criteria with current W&S standards**  
**(Updated technology and equipment)**
- **Consistency across standards**
- **Coordination with other departments**
- **Potential for cost savings and reduced frequency**  
**of project RFI's**
- **Conformance to the new statewide Subsurface**  
**Utility Engineering (SUE) Laws**



# Design Criteria: Section 1

## General Requirements of Development

- **There were no substantive changes to this section**
- **Alignment with Engineering Development Review**

# Design Criteria: Section 2

## Submittal Requirements

- **Hydraulic models in a format that can be integrated with the City's overall models – InfoWater & InfoSWMM**
- **Implementing stricter measurement tolerances for survey verifications and as-built drawings**
- **Provided more detail for reimbursement of oversized public infrastructure, particularly sanitary sewer lift stations and non-potable ponds and pump stations.**



# Design Criteria: Section 3

## Potable Water

- Provides guidance for development when assumptions are made on future customers
- Updated future flows more accurately using zoning, acreages, and building footprints
- Provides new criteria to model water flows for:
  - Commercial parcels based on zoning and acreage
  - Industrial parcels based on zoning and acreage
  - Commercial buildings based on use and area.
- Aligns with wastewater for consistency

Residential			
Zoning based on <i>City of Greeley Charter and Code, Chapter 24.401, Zoning District Development Standards.</i>			
Use	Units Per Acre*	Occupancy	Peak Hour Demand
R-E	3	3.1 persons	1.9 gpm/unit
R-L	5	3.1 persons	1.9 gpm/unit
R-M	10	2.7 persons	1.7 gpm/unit
R-H	20	1.7 persons	1.1 gpm/unit
R-MH	15	1.7 persons	1.1 gpm/unit
*Use these unit per acre values unless specific unit counts are known			
Commercial			
Where uses are known, use the specific demand values. Commercial demands based on 1000 ft <sup>2</sup> of building area unless noted otherwise. Otherwise use the appropriate zoning demand values.			
Use	Average Day Demand without Irrigation		
C-L	1500 gpd per acre		
C-H	3000 gpd per acre		
I-L & I-M	1500 gpd per acre		
I-H	3000 gpd per acre		
Use	Average Day Demand		
Restaurant	500 gpd		
Retail/Offices	200 gpd		
Grocery Store	430 gpd		
Laundry, Dry Cleaning	1000 gpd		
Auto Dealer, Repair/Service	115 gpd		
Car Wash with Water Reuse	1500 gpd		
Hospital	380 gpd		
Hotel/Motel	350 gpd		
Retirement & Nursing Home	350 gpd		
School	12 gpd/student without showers 36 gpd/student with showers		
Religious Building	300 gpd		
Warehouse (Non-industrial)	25 gpd		
Irrigation	25 gpm per acre		

# Design Criteria: Section 4

## Sanitary Sewer

- **Defines wastewater flows for:**
  - **Commercial & Industrial customers based on zoning**
- **Provides guidance for development when assumptions are made on future customers**
- **Calculates future wastewater flows more accurately using zoning, acreages and building footprints**
- **Removes underdrains below sanitary sewer lines**
- **Detailed Lift station criteria**
- **Aligns with potable water for consistency**

Residential			
Zoning based on City of Greeley Charter and Code, Chapter 24.401, Zoning District Development Standards			
Use	Units Per Acre	Occupancy	Average Day Wastewater Flows*
R-E	3	3.1 persons	0.22 gpm/unit
R-L	5	3.1 persons	0.22 gpm/unit
R-M	10	2.7 persons	0.19 gpm/unit
R-H	20	1.7 persons	0.12 gpm/unit
Commercial			
Use	Average Day Wastewater Flows*		
C-L (not specified)	1,500 gpd/acre (minimum)		
C-H (not specified)	3,000 gpd/acre (minimum)		
Retail/Offices	200 gpd/1,000 SF		
Hotels/Motels	350 gpd/1,000 SF		
Restaurants	500 gpd/1,000 SF		
Bars and Lounges	300 gpd/1,000 SF		
Neighborhood Stores	200 gpd/1,000 SF		
Department Stores	200 gpd/1,000 SF		
Laundry and Dry Cleaning	1,000 gpd/1,000 SF		
Banks	300 gpd/1,000 SF		
Nursing Homes	350 gpd/1,000 SF		
Warehouses	25 gpd/1,000 SF		
Car Washes	1,500 gpd/1,000 SF		
Auto Dealer/Repair/Service	115 gpd/1,000 SF		
Grocery Store	430 gpd/1,000 SF		
Religious Buildings	300 gpd/1,000 SF		
Factories	800 gpd/1,000 SF		
Hospitals	380 gpd/1,000 SF		
Schools (without showers)	12 gpd/student		
Schools (with showers)	36 gpd/student		
Industrial			
Use	Average Day Wastewater Flows*		
I-L (not specified)	1,500 gpd/acre		
I-M (not specified)	1,500 gpd/acre		
I-H (not specified)	3,000 gpd/acre		
			343

\*1cfs = 448.33 gpm

Average day wastewater flow per capita = 60 gpcd

# Non-Potable Water Design Criteria

- **Comprehensive**
  - **Covers every aspect of non-pot system design.**
  - **Updated Standards and References.**
- **Easy to Follow**
  - **Simplified & logical progression.**
- **Aligns with NP Master Plan**
- **Regional Systems/Oversizing**
- **Predesign Meetings w/Stakeholders**



# Design Criteria: Section 6 Landscape and Irrigation

## **New Criteria:**

- **Promotes water conservation**
- **Support attractive and sustainable landscapes**

## **Applicable to:**

- **Common areas**
- **Right-of-ways**
- **Municipal buildings**
- **Non-residential (commercial/industrial)**
- **Multi-family residential**

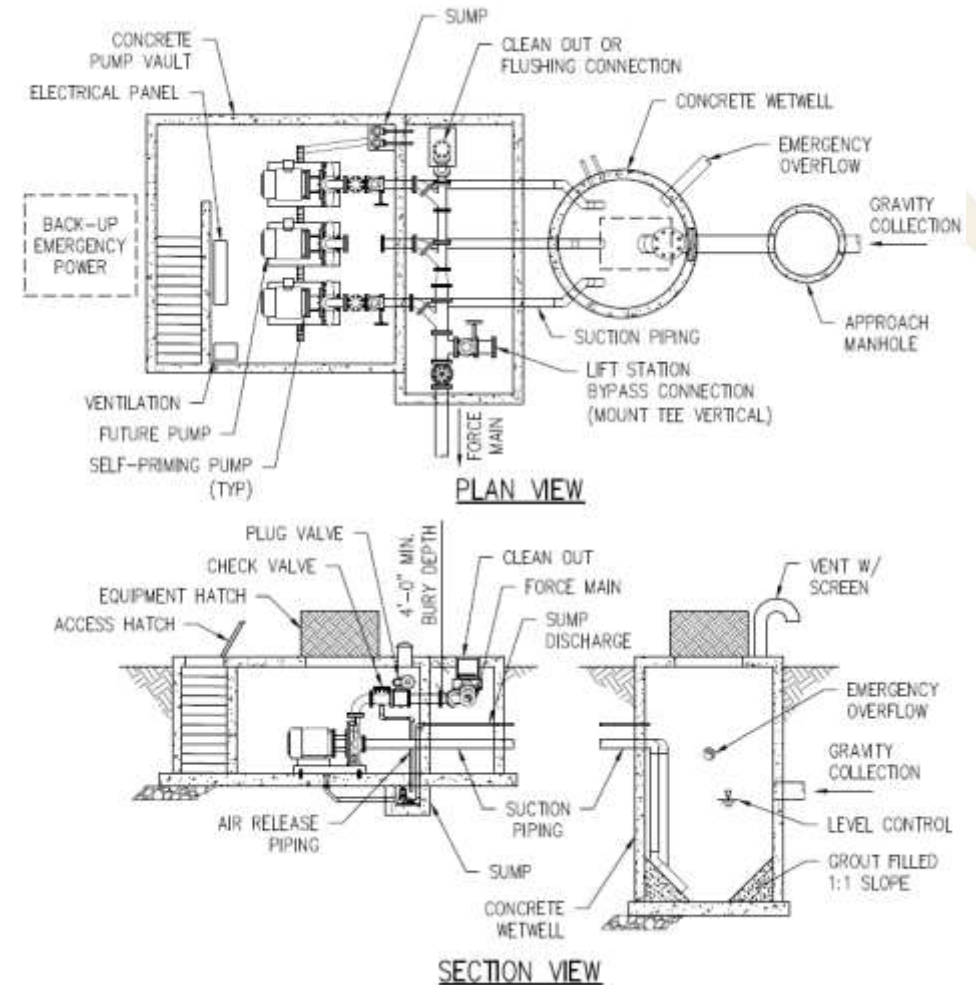




# Standard Drawings

## Key Updates

- Updated City Logo
- Condensed meter vault notes across non-potable and potable water meters & added new non-potable meter size drawing
- Added standard lift station drawings to the sanitary sewer drawings
- Added utility locating details in accordance with the new SUE law in Colorado (SB 18-167)



# Engagement & Review

- **Introduced to Builders, Realtors, Developers - July 19, 2021**
- **Reviewed and Coordinated with other City Departments throughout process**
- **Reviewed by Engineering Development Review & Civil Inspections Staff**
- **Presented to Planning Commission to get Input and Feedback - March 8<sup>th</sup>, 2022**
- **Meetings & Review Comments from Engineers, Developers, Landscape designers, & Community members - March to June, 2022**
  - **120 comments and questions tracked and addressed**

# Staff Recommendation

- **Approve and Recommend to City Council the Adoption of the June 2022 Water & Sewer Design Criteria, Standard Details, and Construction sections.**

# Questions?





**CITY OF GREELEY, COLORADO**

**ORDINANCE NO. \_\_\_, 2022**

**AN ORDINANCE AMENDING SECTION 20-62 (STANDARDS FOR DESIGN AND CONSTRUCTION) AND ADOPTING SECTION 20-64 (ADOPTION OF DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS), TITLE 20 OF THE GREELEY MUNICIPAL CODE FOR THE CITY OF GREELEY**

WHEREAS, the City of Greeley, Colorado ("City") is a home rule municipality empowered pursuant to Sections 1 and 6 of Article XX of the Colorado Constitution to, inter alia, construct, purchase, acquire, lease, add to, maintain, conduct, and operate water works and everything required therefor, within or without its territorial limits, for the use of the City; and

WHEREAS, Section 17-4(c) of the Greeley City Charter and Section 20-30 of the Greeley Municipal Code authorize the Board to acquire, develop, convey, lease and protect the water and sewer assets, supplies and facilities needed to fully use the water supplies decreed, adjudicated or contracted for the City; and

WHEREAS, the City of Greeley Water and Sewer Department has recently developed design criteria and construction specifications for and placed them into a manual entitled "Design Criteria and Construction Specifications, Volume III, Potable Water Distribution, Sanitary Sewer Collection, Non-Potable Irrigation Systems, and Landscape & Irrigation," dated June, 2022; and

WHEREAS, the manual requires all design and construction of water, sanitary sewer, non-potable, and landscape and irrigation facilities within the City to comply with the design criteria and construction specifications set forth therein; and

WHEREAS, Section 20-88 provides a penalty for violating the manual.

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF GREELEY, COLORADO:**

Section 1. That Section 20-62 be amended to read as shown on Appendix A, attached hereto and incorporated herein.

Section 2. That Section 20-64 be adopted to read as shown on Appendix A.

Section 3. That the Director of Water & Sewer has the authority to make corrections to any typographical errors and other non-substantive corrections to the "Design Criteria and Construction Specifications, Volume III, Potable Water Distribution, Sanitary Sewer Collection, Non-Potable Irrigation Systems, and Landscape & Irrigation," dated June, 2022.

Section 4. Except as explicitly modified on Exhibit A, all other provisions of Title 20 of the Greeley Municipal Code shall remain in full force and effect.

Section 5. This Ordinance shall take effect on the fifth day following its final publication, as provided by Section 3-16 of the Greeley City Charter.

PASSED AND ADOPTED, SIGNED AND APPROVED ON THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2022.

ATTEST

CITY OF GREELEY, COLORADO

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
Mayor

APPENDIX A  
ORDINANCE AMENDING TITLE 20  
GREELEY MUNICIPAL CODE

Section 1. Section 20-62 shall be amended to read as follows:

**Sec. 20-62. Standards for design and construction.**

The director of water and sewer shall adopt and publish design and construction standards for water, ~~and sanitary sewer, non-potable, and landscape and irrigation~~ facilities to be connected to the city system or installed within its jurisdiction. The design and construction of water and sanitary sewer mains and appurtenances shall conform to the published standards, unless deviations from those standards are approved in writing by the director of water and sewer, or their designee. The city may refuse to accept facilities inadequately constructed or constructed in variance with city requirements. the city shall be held harmless for the engineer's or installer's failure to conform to city standards and specifications. The design criteria and construction standards for water, sanitary sewer, non-potable, and landscape and irrigation facilities are adopted by reference in section 20-64.

Section 2. Section 20-64 shall be amended to read as follows:

**Sec. 20-64 - Adoption of standards.**

All water, sanitary sewer, non-potable, and landscape and irrigation facilities within the city shall be constructed to the minimum standards established by the Design Criteria and Construction Specifications, Volume III, Potable Water Distribution, Sanitary Sewer Collection, Non-Potable Irrigation Systems, and Landscape & Irrigation, dated June 2022, in order to safeguard the public health, safety and welfare of the citizens of the city. Copies of the design criteria and construction standards shall be kept and maintained by the city clerk and department of water and sewer and shall be available for inspection at those locations during all business hours and can be located online at <https://greeleygov.com/services/pw/design-criteria-and-construction-specifications>. Any person or entity convicted of violating these adopted design criteria and construction specification shall be punishable as provided in chapter 9 of title 1 of this Code as provided under Sec. 20-88.

# Water & Sewer Agenda Summary

Date: July 20, 2022

Key Staff Contact: Leah Hubbard, Water Resources Admin III

**Title:** Outside Water Council Legal Report

**Summary:** The Attached Report has been provided by Mr. Jim Noble, Esq. with Welborn Sullivan Meck & Tooley, P.C.

Based on the review of the May 2022 Water Court Resume, staff and water counsel do not recommend that the Water and Sewer Board file any statements of opposition.

Mr. Noble will provide a brief update on Case No. 22CW3042.

**Recommended Action:**

No action necessary this month.

**Attachments:**

1. Legal Report for July 20, 2022

Legal Report  
Greeley Water and Sewer Board Meeting  
July 20, 2022

- I. Statements of Opposition:** Based on our review of the May, 2022 Water Court Resume, staff and water counsel do not recommend that the Water and Sewer Board file statements of opposition to any water court applications that would be due at the end of July, 2022.
- II. Case Update:** Mr. Noble will provide a brief update on the status of Case No. 22CW3042, Greeley’s pending application for a change of water rights for 23.917 shares in the Water Supply and Storage Company (“WSSC”).

# Water & Sewer Agenda Summary

Date: July 20, 2022

Key Staff Contact: Sean Chambers, Director

**Title:** Water Utilities Director's Report

**Summary:**

**The Director will provide a summary overview of several items of Board interest:**

1. Annual Water Utilities Infrastructure Tours:
  - a. Annual Board & Council Tour of Water and Wastewater Infrastructure
  - b. Annual Greeley Citizen Tour of Water & Wastewater Infrastructure – Aug. 5<sup>th</sup>
2. Deputy Director of Water Resources position recruitment update
3. Biz West Confluence Water Symposium – Thurs. July 21<sup>st</sup>
  - a. <https://events.bizwest.com/event/2022-confluence-colorado-water-summit/>
4. Wildfire Recovery and Watershed Restoration Work Update
5. Water Use Efficiency Plan Update
6. Colorado Water Plan 2023 Update draft released
  - a. Available at: <https://cwcb.colorado.gov/colorado-water-plan>
  - b. Draft version is out for a 90-day public comment period from June 30 – Sept. 30, 2022.
  - c. Comment at: <https://engagecwcb.org/>

**Recommended Action:**

Non-action informational item

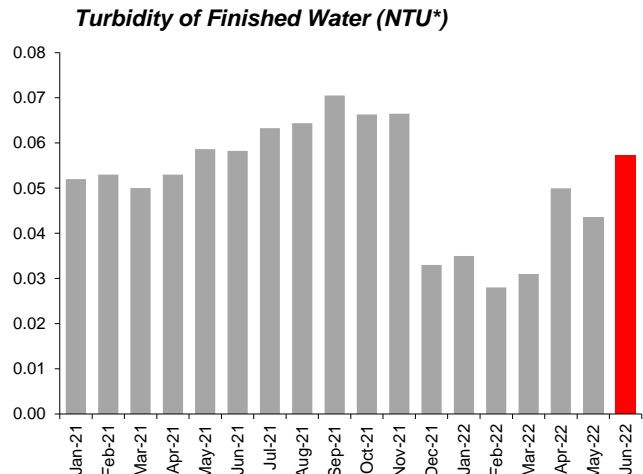
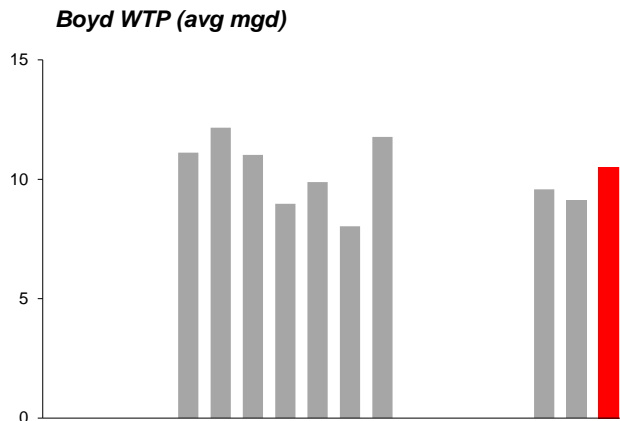
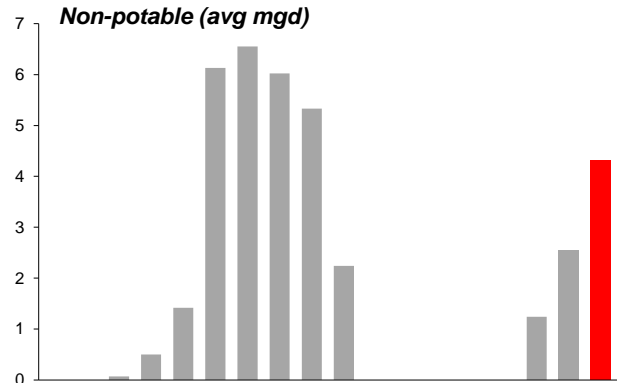
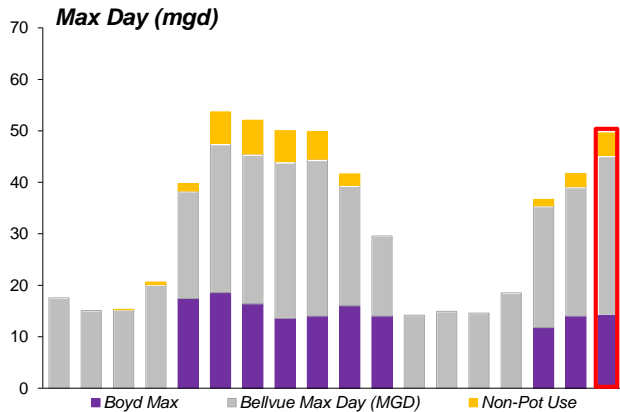
**Attachments:**

## 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.



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).

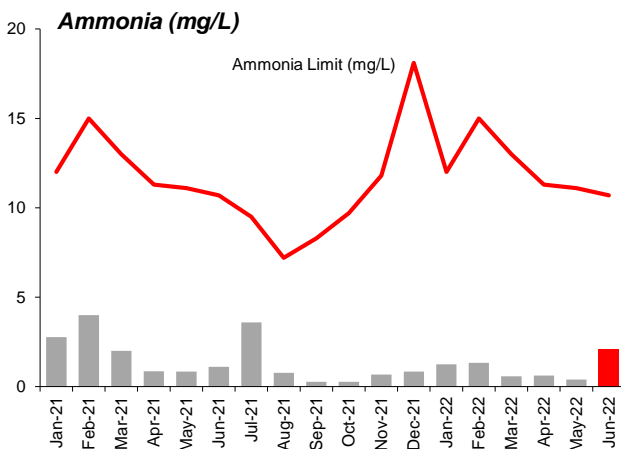
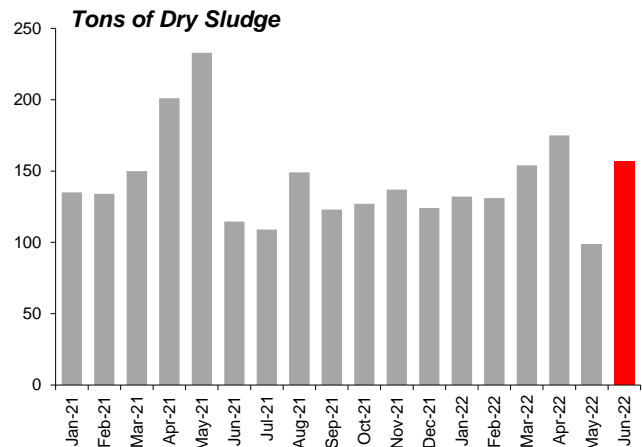
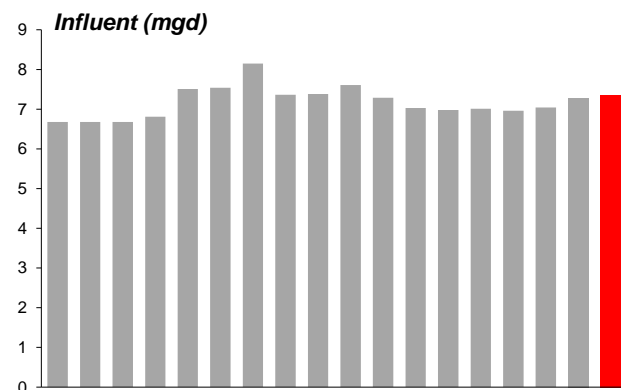
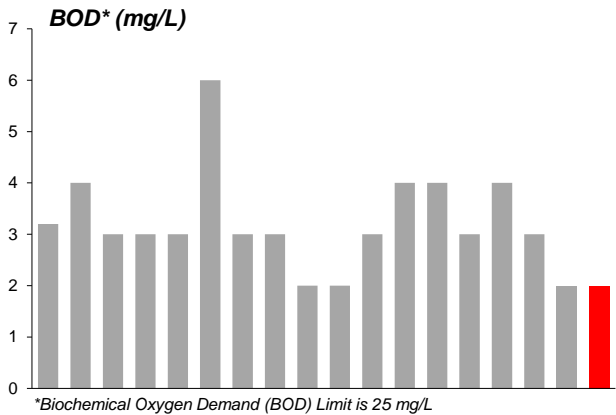
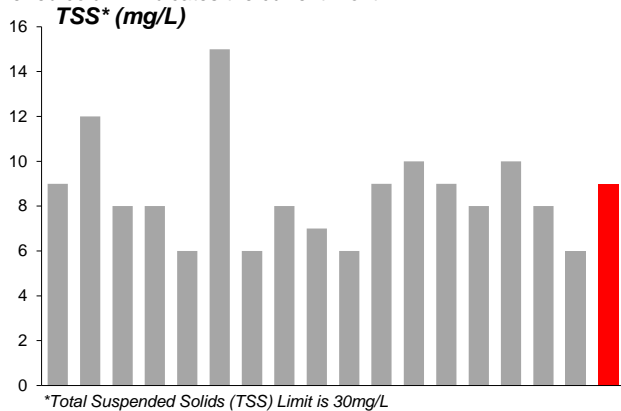


## Wastewater Treatment

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.





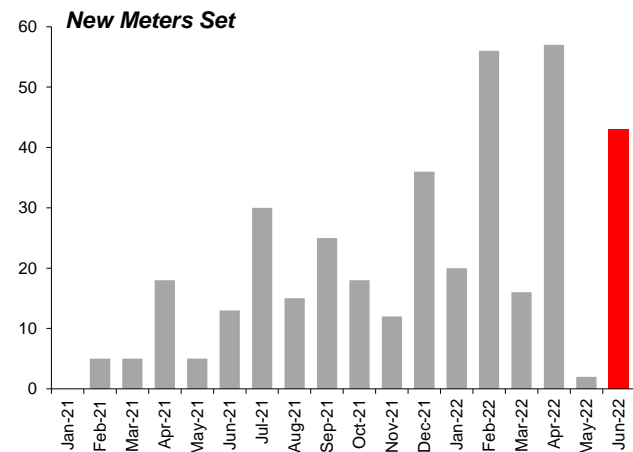
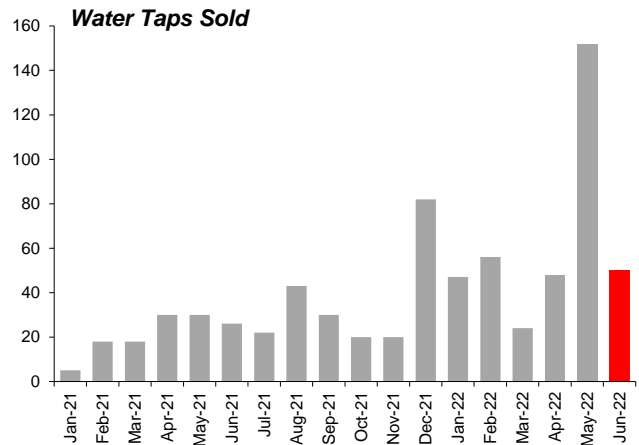
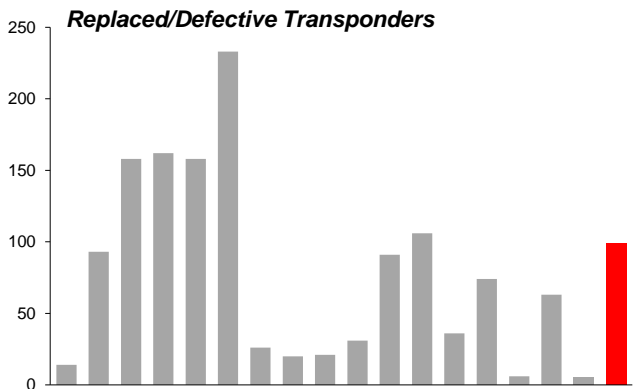
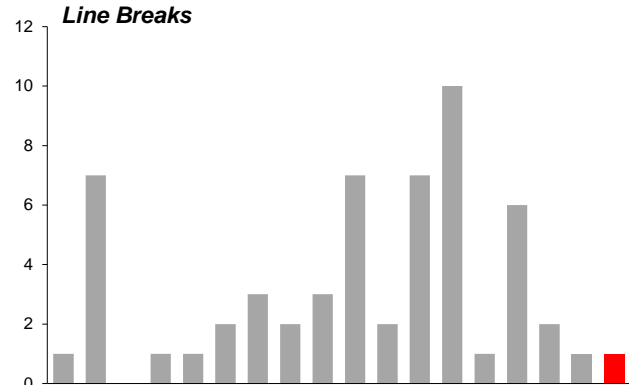
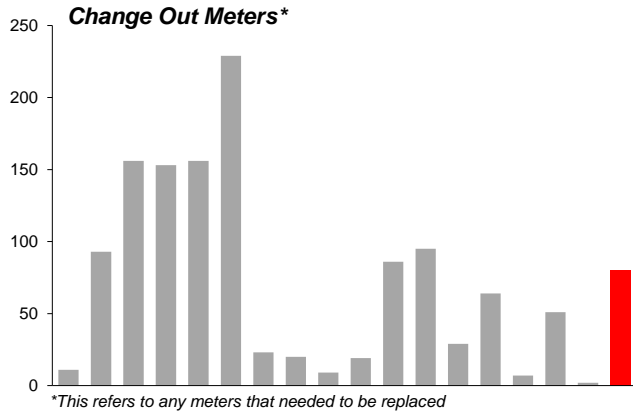
## Water Distribution

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.



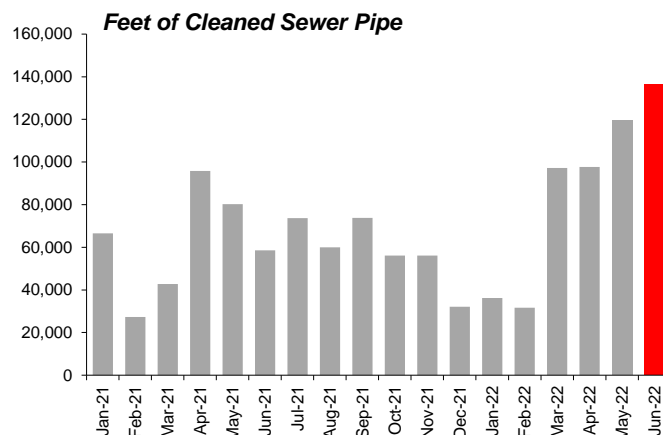
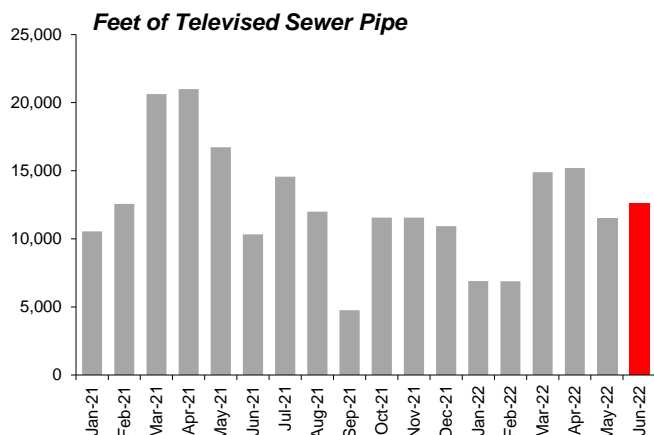
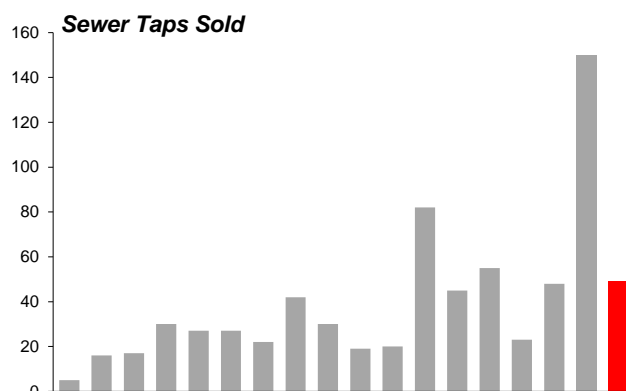
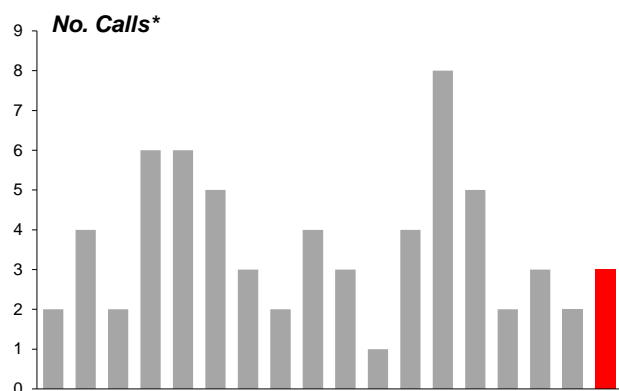
## Wastewater Collection

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.

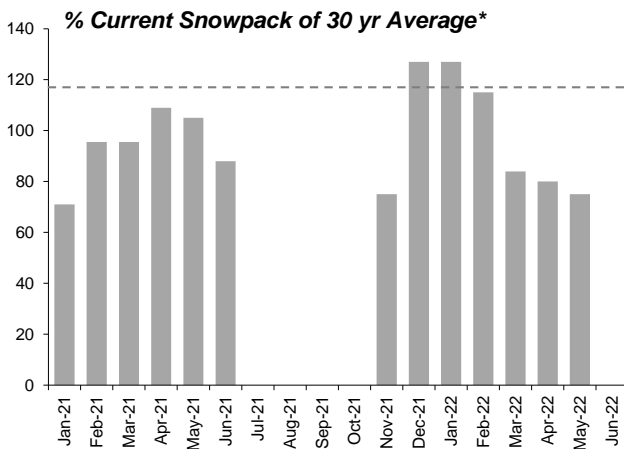
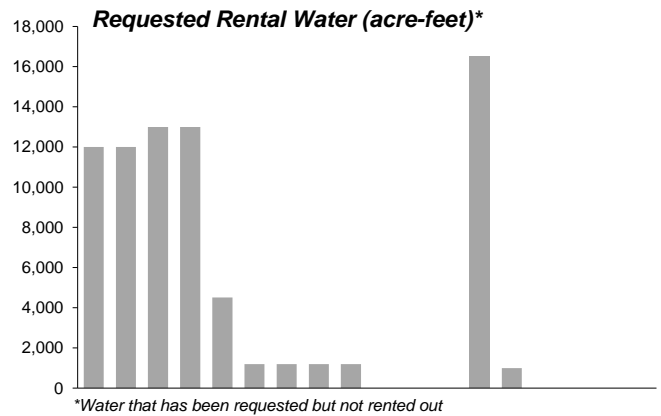
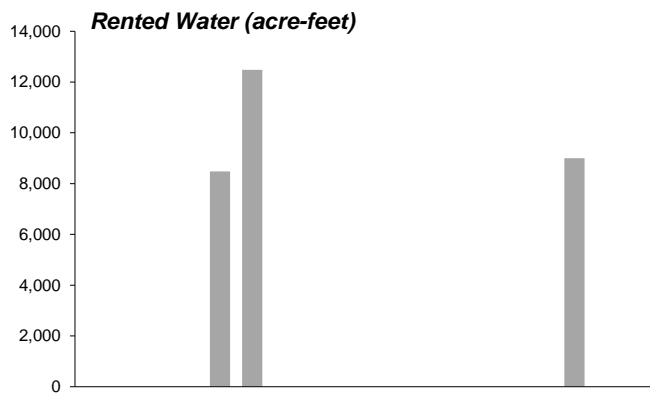
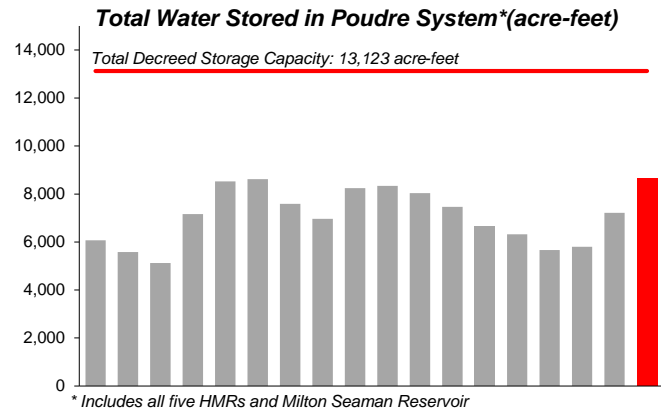
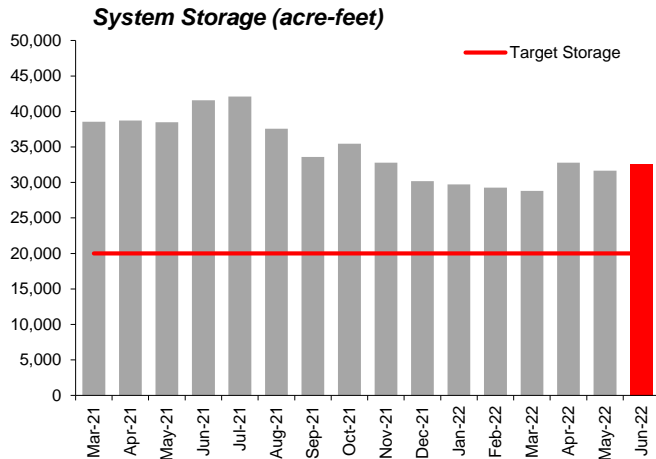


## Water Resources

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.

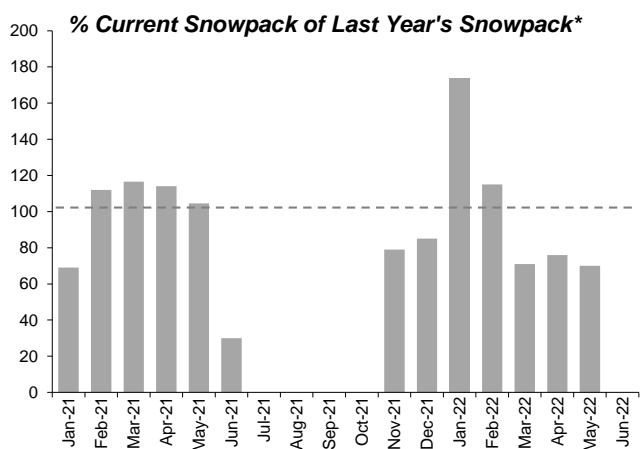
Greeley's goal is to have enough water in carry-over storage to sustain Greeley through a 50-year critical drought. Water in excess of this carry-over drought supply can be leased to agriculture, both for revenue and to support our local agricultural community. Modeling has shown that, given existing 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.



\*Data is from the 1st of the month

\*\*Average of Deadman Hill and Joe Wright



\*Data is from the 1st of the month

\*\*Average of Deadman Hill and Joe Wright

## Treated Water and Weather Data

January 2022 average temperature was 24.38°F, approximately 2.8°F cooler than average. February also brought colder temperatures averaging 25.23°F. In March the average temperature was 38.94°F, slightly cooler than the historical average. Temperatures began to rise in April, bringing the average temperature to 49°F, which is slightly higher than the historical average temperature of 47°F. May brought an average temperature of 56.93°F, almost exact to the historical average. The average temperature for June was 70°F slightly above the historical average.

Greeley precipitation was 0.79 inches in January, which is slightly above average (0.43 inches). February had high precipitation at 0.93 inches. March brought 1.07 in of precipitation, setting Greeley 1.23 inches over the historical cumulative precipitation for March. Greeley has a very dry April with only 0.13 inches of precipitation bringing the cumulative precipitation 0.63 inches below average. May brought 2.44 inches of precipitation. Greeley only received 0.2 in of precip in June, ending the month significantly lower than the historical average.

