

- Local Improvement Districts (LIDs)
- Advanced Metering Infrastructure Project
- Windy Gap Firing Allotment Contract

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



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact Shannon Metcalf at 970-415-1307.

City of Greeley
Water and Sewer Board
Minutes of June 17, 2020
Regular Board Meeting

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:01 p.m. on Wednesday, June 17, 2020. Due to City Closures related to COVID-19, this meeting was held remotely and was aired via live stream for public viewing at <https://www.youtube.com/user/CityofGreeley>.

1. Roll Call

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans, Vice Chairman Mick Todd, Fred Otis, Bob Ruyle, Joe Murphy, Tony Miller, Manny Sisneros, Roy Otto and Robert Miller

Water and Sewer Department Staff:

Director Sean Chambers, Deputy Director Water Resources Adam Jokerst, Deputy Director of Operations Nina Cudahy, Utility Finance Manager Erik Dial, Water Resources Manager Jen Petrzelka, Water Resources Planning Manager Kelen Dowdy, Special Projects Engineer Mary Gearhart, Water Resource Admin. I, Leah Hubbard, Water Resource Admin. II Cole Gustafson, Water Compliance Manager Lauren Worley, Senior Administrative Specialist Ettie Arnold and Office Manager Shannon Metcalf

Legal Counsel:

Counsel to Water & Sewer Board Attorney Carolyn Burr, Environmental and Water Resources Attorney Jerrae Swanson, Environmental and Water Resources Attorney Dan Biwer, Environmental and Water Resources Attorney Aaron Goldman

2. Approval of Minutes

Mr. Otis moved, seconded by Mr. Miller, to approve the May 20, 2020 Water and Sewer Board meeting minutes. The motion carried 7-0.

3. Approval of and/or Additions to Agenda

There were no changes or additions to the Agenda.

4. Executive Session

Vice Chairman Todd moved, seconded by Mr. Otis, to hold an executive session to address the following matters, as provided by C.R.S. § 24-6-402(4)(a), (b) and (e) and Greeley Municipal Code § 2.04.020(a)(1), (2) and (5):

1. To receive advice from their attorney and determine positions relative to matters that may be subject to negotiations, developing strategy for negotiations and instructing negotiators on matters related to the potential acquisition of water storage.
2. To receive advice from their attorney and determine positions relative to matters that may be subject to negotiations, developing strategy for negotiations and instructing negotiators on matters related to the potential acquisition of the Williams Farm Partnership Water Rights.

The motion carried 7-0.

The Board left the public session and moved into executive session. The live feed of the public session on YouTube stopped recording, but was still accessible to the public. While the Board conducted the executive session, the public was provided with a screenshot of the agenda and a message stating the Board was in Executive Session.

Present during the executive session were:

Chairman Harold Evans, Vice Chairman Mick Todd, Manual Sisneros, Joe Murphy, Tony Miller, Fred Otis, Bob Ruyle, Roy Otto, Robert Miller, Director Sean Chambers, Deputy Director Water Resources Adam Jokerst, Deputy Director of Operations Nina Cudahy, Utility Finance Manager Erik Dial, Water Resources Operations Manager Jennifer Petrzelka, Water Resources Planning Manager Kelen Dowdy, Water Administrator II Cole Gustafson, Outside Legal Counsel Carolyn Burr, Environmental and Water Resources Attorney Jerrae Swanson, Environmental and Water Resources Attorney Dan Biver, Environmental and Water Resources Attorney Aaron Goldman, Senior Administrative Specialist Ettie Arnold and Office Manager Shannon Metcalf

The Executive Session ended at 2:26 p.m. The Board then left the executive session and moved back into the open, regular session. At that time, the live feed of the meeting, available to the public, resumed on YouTube.

6. Purchase and Sale Agreement for Williams Farm Partnership Water Rights

Mr. Gustafson presented this agreement for Greeley's purchase of thirteen shares of the Greeley Irrigation Company, and one-half share of stock in the Lakeside Lateral Company. Assignments of dry-up are included in the purchases and sale agreement. The total purchase price is \$1,092,000.00.

Mayor Gates joined the meeting at 2:30 p.m.

Vice-Chairman Todd moved, seconded by Mr. Miller to approve the proposed acquisition of water rights from Williams Farm Partnership, approve the Purchase and Sale Agreement and exhibits thereto, and 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 action to close on the purchase. The motion carried 7-0.

7. Executive Session

Vice Chairman Todd moved, seconded by Mr. Miller, to hold an executive session to address the following matters, as provided by C.R.S. § 24-6-402(4)(a), (b) and (e) and Greeley Municipal Code § 2.04.020(a)(1), (2) and (5):

1. To receive advice from their attorney and determine positions relative to matters that may be subject to negotiations, developing strategy for negotiations and instructing negotiators on matters related to the potential acquisition of the Terry Ranch water and storage rights.

The motion carried 7-0.

The Board left the public session and moved into executive session. The live feed of the public session on YouTube stopped recording, but was still accessible to the public. While the Board conducted the executive session, the public was provided with a screenshot of the agenda and a message stating the Board was in Executive Session.

Present during the executive session were:

Chairman Harold Evans, Vice Chairman Mick Todd, Manual Sisneros, Joe Murphy, Tony Miller, Fred Otis, Bob Ruyle, Mayor Gates, Roy Otto, Robert Miller, Director Sean Chambers, Deputy Director Water Resources Adam Jokerst, Deputy Director of Operations Nina Cudahy, Utility Finance Manager Erik Dial, Water Resources Operations Manager Jennifer Petrzelka, Water Resources Planning Manager Kelen Dowdy, Water Administrator II Cole Gustafson, Outside Legal Counsel

Carolyn Burr, City Attorney Doug Marek, Environmental and Water Resources Attorney Jerrae Swanson, Environmental and Water Resources Attorney Dan Biwer, Environmental and Water Resources Attorney Aaron Goldman, Senior Administrative Specialist Ettie Arnold and Office Manager Shannon Metcalf, Outside Consultants Samantha Kepley, Cortney Brand and Kutak Rock

The Executive Session ended at 3:17 p.m. The Board then left the executive session and moved back into the regular session. At that time, the live feed of the meeting resumed on YouTube.

12. Master Purchase, Sale and Raw Water Credit Administration Agreement for Terry Ranch Water Rights and Storage

Mr. Jokerst explained that this is a Master Purchase, Sale and Raw Water Credit Administration Agreement for water rights and storage with Wingfoot Water Resources, LLC. The Master Agreement, along with ancillary agreements, contemplate Greeley's purchase of a large, non-tributary groundwater right located under 10,000 acres of land in northeast Weld County. The subject water right provides over 1,200,000 acre-feet of non-tributary groundwater. Greeley will also be able to recharge and store water in the aquifer underlying the land. This project will serve to provide Greeley with much needed water storage capacity. Included in the purchase of the water rights are an access easement for the overlying property, five previously constructed production wells and a lease from the State Land Board for groundwater underlying the state lands adjacent to the Terry Ranch parcels. The water rights and the Assets will be held by Greeley and Wingfoot as tenants in common for a period of ten years. Greeley will be the sole administrator of the tenancy in common.

Greeley will acquire title to the water rights and the Assets over time. The Master Agreement creates raw water dedication credits redeemable to meet Greeley's raw water dedication requirements. Upon request, Greeley will issue the Credits to Wingfoot and Wingfoot will convey a proportional interest in the water rights and Assets to Greeley. Credits issued to Wingfoot may be sold to developers and home-builders, who will deliver the Credits to Greeley to meet Greeley's cash-in-lieu requirements for new water service. In exchange for gaining the water and storage assets, seller financing of infrastructure and immediate access to the water and storage, Greeley will accept raw water credits from the project and thereby forego a portion of future cash-in-lieu payments. Through the Master Agreement, Wingfoot is required to fund up to \$125,000,000 for construction of the infrastructure necessary to develop and deliver the groundwater.

Key to the Master Agreement are provisions to ensure Greeley does not devalue the water dedication Credits through certain changes to its Raw Water Dedication Policy. Under the agreement, Wingfoot is entitled to certain remedies if the City changes its Raw Water Dedication Policy in such a way that disallows, limits, or specifically disadvantages Credit redemption, or that allows acceptance of new sources of water for dedication within

10-years of executing the Master Agreement. Greeley will continue to be able to change its policies to adjust dedication requirements in response to changing water consumption habits, so long as policy changes are based on usage data, economics, and best practices.

The Master Agreement creates two Credit purchase options: a put option and call option. The put option gives Wingfoot the right to sell up to 167 Credits to Greeley annually, while the call option given Greeley the right to purchase up to 167 Credits from Wingfoot annually. The put option creates an ongoing payment obligation of \$5,000,000 per year, escalated 3% annually, for 25 years. Under the agreement, Wingfoot and Greeley will share revenue from the sale of untreated groundwater to third-parties and of revenue from the sale of hydropower generated from the project. Wingfoot will also receive \$0.50 per 1,000 gallons of treated water served to customers outside of the Greeley water service area, if Greeley elects to sell treated water to other municipal water providers.

The Master Agreement creates a seven-month inspection period prior to closing. During this time, Greeley will further investigate the project with particular focus given to water quality. Preliminary testing of the groundwater indicates the presence of uranium in one of the five existing wells above regulatory limits. Uranium is a widespread, naturally occurring element, and can be safely and cost-effectively removed from water with treatment. Greeley will conduct additional diligence to evaluate the presence and concentration of uranium as well as possible treatment options. Following the inspection period, Greeley will have two months to approve the transaction. As a condition of closing, the Greeley City Council must revise Municipal Code Chapter 14.06 to allow acceptance of Credits. City Council will consider public comment at that time.

Vice-Chairman Todd made motion, seconded by Mr. Miller to approve the Master Purchase, Sale and Raw Water Credit Administration Agreement and to authorize the Director, or his designee, to enter into minor amendments, including but not limited to contract extensions, and to finalize the exhibits for Board and City Council Approval. The motion carried 7-0.

Chairman Evans noted that the approval of the Terry Ranch Master Plan is a continuation of the 150 years of foresight, and willingness to invest in our community made by Greeley. He also stated that he is very proud to be part of such a momentous day in the history of Greeley Water and thanked the board, staff and consultants for their time and dedication.

13. Legal Report

Carolyn Burr of Welborn, Sullivan, Meck & Tooley provided this month's legal report to the Board.

1. **Statements of Opposition:** Based on review of the April, 2020 Water Court Resume, Mrs. Burr reported that staff and water counsel recommend that the Board authorize filing a statement of opposition in the following water court case:
 - a. Case Number: **20CW3050** Application of Weld County to make absolute, in part, and for a finding of reasonable diligence, for a tributary ground water right associated with East Davis Dust Control Well #3. Weld County leases water perpetually from Greeley to augment out of priority depletions associated with this well. The lease agreement specifically states that Greeley may file a statement of opposition to ensure that Greeley’s water rights are not adversely affected. Legal counsel recommended Greeley file a statement of opposition to ensure the County complies with the terms of its lease with Greeley and that Greeley’s water rights are not adversely affected.

Mr. Miller made motion, seconded by Mr. Murphy to authorize the filing of a statement of opposition in Case No. 20CW3050, and for staff and legal counsel to seek resolution of issues raised by these cases consistent with Water and Sewer Board Resolution No. 3 (2015).

14. Director’s Report

Mr. Chambers reported on the following items:

- System Demands and Financial Metrics

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

There were no additional items brought before the Board and added to the agenda.

Chairman Evans adjourned the meeting at 3:57 p.m.

Harold Evans, Chairman

Shannon Metcalf, Office Manager

WATER & SEWER BOARD AGENDA JULY 15, 2020

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 5

TITLE: SECOND QUARTER 2020 WATER COURT
UPDATE

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

Staff will provide presentation.



Water & Sewer Department

MEMORANDUM

TO: Greeley Water & Sewer Board
FROM: Jen Petrzelka, Water Resources Operations Manager
DATE: July 2, 2020
RE: 2nd Quarter Water Court Cases Update

This memorandum is a review of the Water and Sewer Department's legal activities from April of 2020 through June of 2020. The review includes an update on Greeley's current Water Court cases and a summary of the Water Resources Division's legal expenses.

STATEMENTS OF OPPOSITION

Since the last update in April, Greeley has filed two statements of opposition and stipulated in three cases. Therefore, the current number of pending Water Court cases in which Greeley is an opposer is 29.

Statements of Opposition filed:

- 20CW3041 (Tri-Districts)
- 20CW3050 (Weld County)

GREELEY AS APPLICANT

A summary of pending Water Court cases in which Greeley is the applicant is as follows:

19CW3164 (Linn Grove Diligence, Case No. 11CW60)

On August 28, 2019, Greeley filed an application for a finding of reasonable diligence for the conditional groundwater rights, conditional storage rights, and conditional exchanges decreed to operate in conjunction with the plan for augmentation in Case Number 11CW60. These water rights are decreed for irrigation and other related uses at Linn Grove Cemetery. In this application, Greeley is also seeking a determination that certain of the water rights should be made partially absolute, in the amount of 36.9 gpm for the groundwater right decreed to Well B, 0.05 acre-feet of storage in Linn Grove Pond No. 1, and 5.6 acre-feet of storage in Linn Grove Pond No. 2. The rights decreed in 11CW60 not made absolute will remain conditional. A statement of opposition was filed by the Cache la Poudre Water Users Association ("CLPWUA") and Greeley circulated a draft decree on January 10th. CLPWUA has agreed to

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stipulate to that form of the decree and we are awaiting their execution of the stipulation. Once that stipulation is entered, this case should be resolved.

19CW3191 (Equalizer diligence, Case No. 05CW326)

On September 30, 2019 Greeley filed its application for a finding of reasonable diligence for conditional surface rights and right of exchange, including storage, of its Lower Equalizer rights decreed in Case No. 05CW326. No absolute claims are being made in this application and all rights remain conditional. No statements of opposition were filed, however, the Greeley Irrigation Company filed a motion to intervene which was granted by the court. Greeley has until August 7th to provide a response to their initial comments.

19CW3239 (Overland Ponds Diligence, Case No. 00CW251)

On December 20th, 2019 Greeley and the Tri-Districts jointly filed this application for a finding of reasonable diligence to make a conditional water right partially absolute. This application concerns the conditional water storage right and conditional appropriative rights of exchanges decreed in Case No. 00CW251. In this application, Greeley and the Tri-Districts are claiming 18.6 cfs diversion rate and 283.58 acre-feet of storage absolute. Seven statements of opposition were filed. Responses to opposers' initial comments are due August 28th.

20CW3009 (Rockwell Diligence, Case No. W-8695-77)

On January 31st, 2020, Greeley filed this application for a finding of reasonable diligence for the conditional water storage right originally decreed for Rockwell Reservoir in Case No. W-8695-77, as well as certain conditional appropriative rights of exchange originally decreed to Rockwell Reservoir in W-9385-78. Greeley changed the Rockwell Reservoir Storage Right and certain of the Rockwell Reservoir Exchanges in Case No. 15CW3162 to facilitate the storage and subsequent operation of water attributable to the rights in and from Milton Seaman Reservoir. Four statements of opposition were filed. Opposers have until July 31st to provide initial comments.

20CW3004 (GLIC Exchange Diligence, Case No. 87CW329)

On January 28th, 2020, Greeley filed its application for a finding of reasonable diligence toward the conditional appropriative right of exchange originally decreed in Case No. 87CW329. Under this exchange, Greeley may divert excess municipal return flows from GLIC, Seven Lakes, and Lake Loveland water rights changed in Case No. 87CW329 released from Greeley's WTRF and the Lone Tree wastewater treatment plant by exchange to the headgates of the ditch companies. Two statements of opposition were filed. Opposers have until July 24th to provide initial comments.

20CW3054 (Milton Seaman Diligence, Case No. 90CW226)

On April 27th, 2020, Greeley filed this application for a finding of reasonable diligence for a conditional water storage right for the Milton Seaman Reservoir Enlargement in the amount of 9,992 acre-feet. No absolute claim is being made in this application and the right remains conditional. Four statements of opposition were filed in this case and there are no set deadlines at this time. Greeley will be scheduling an initial status conference with the water referee to set case management deadlines.

LEGAL & ENGINEERING EXPENSES:

The Water Resource Division's outside legal and engineering expenses through June of 2020 totaled \$218,957 which is 39% of the \$569,061 total spent in 2019.

2020 Water Resources Legal and Engineering Costs

<u>1st quarter</u>	
Legal	\$18,257
Engineering	\$42,378
<i>Total</i>	<i>\$60,635</i>
<u>2nd quarter</u>	
Legal	\$77,014
Engineering	\$81,308
<i>Total</i>	<i>\$158,322</i>
<u>3rd quarter</u>	
Legal	\$0
Engineering	\$0
<i>Total</i>	<i>\$0</i>
<u>4th quarter</u>	
Legal	\$0
Engineering	\$0
<i>Total</i>	<i>\$0</i>
<i>Annual Total</i>	<i>\$218,957</i>

WATER & SEWER BOARD AGENDA JULY 15, 2020

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 6

TITLE: WATER SUPPLY UPDATE

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

Staff will provide presentation.



MEMORANDUM

TO: Sean Chambers, Water and Sewer Director
FROM: Jen Petrzelka, Water Operations Manager
DATE: July 7, 2020
RE: July 2020 Water Supply Update

ISSUE

In accordance with the Drought Emergency Plan, staff reports the water supply status to the Greeley Water and Sewer Board (“Board”) in April, July and November of each year. The Water Resources Division uses three metrics to evaluate drought protection, associated hydrologic conditions, and to establish targets for storage. The three metrics used are “target storage level”, “safe storage level”, and “design drought” as defined below:

Safe Storage Level: A volume of stored water that is equal to six months of Greeley’s base treated water demand. This equates to approximately 25% of Greeley’s annual treated water demand. The average base treated demand for the last 20 years is 6,500 acre-feet/year (Figure 1).

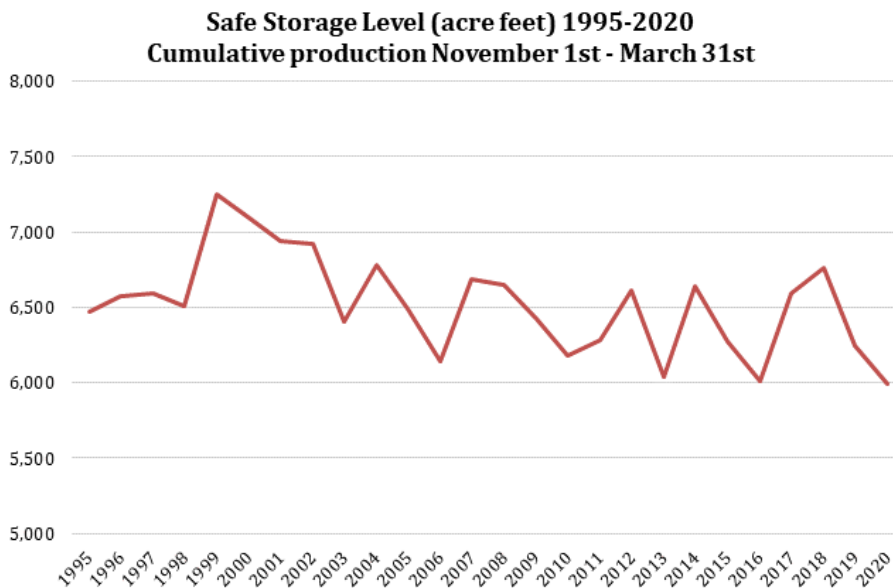


Figure 1

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Target Storage Level: the minimum initial storage level required to maintain a *safe storage level* throughout the design drought.

Design Drought: the 50-year critical drought represented by six consecutive years of below average runoff on both the Big Thompson and Cache la Poudre rivers. This drought can be defined as the average of the worst droughts that would occur in any 50-year time period. The recurrence interval has been estimated at 130 years.

Previous modeling analysis has shown that the **target storage level** needed to provide adequate drought protection (**safe storage level**) for the citizens of Greeley is approximately 20,000 acre-feet. When the target storage level is met, Board can declare an “adequate water year” with normal watering restrictions. As base use demands increase in the future, periodic reevaluation of the *target storage level* will be required to ensure the safe storage level is adequate in the event of extreme drought.

The Greeley System Storage Analysis excel application is used for the testing of the target storage level criteria. The model performs an annual water balance to arrive at a forecasted April 1st carryover storage based on existing supplies and demands for the current year. The **design drought** modeled yields are then utilized to extend the forecast to six years to arrive at the projected **safe storage level**. The storage analysis model only includes standard operational practices and does not take into account other plans (additional drought restrictions, etc.) that may be available to Greeley.

BACKGROUND

After a colder than average winter, temperatures rose quickly towards the end of April with above average temperatures for much of May and June. Springtime storms continued to steadily build the snowpack through April. Despite an above average snowpack, warm May temperatures resulted in the snowpack melting approximately 10 days earlier than average on June 1st. Cumulative precipitation as of July 6th in Greeley is below the 1997-2019 historical average at 5.93 inches (average is ~7 inches).

Reservoirs across the Colorado and South Platte are at 105% and 120% of average, respectively. The Colorado SWSI¹ report for June showed the South Platte Basin at above normal supply levels (2.34), 1.16 higher than the same time last year.

The High Mountain Reservoir (HMR) system yielded over 4,000 acre-feet of supply with the majority of that rented out to agriculture. As of July 1, there is over 15,000 of storage attributable to Greeley’s ownership in the Greeley Loveland System (GLIC). Northern water was unable to pump any Windy Gap this year and therefore staff has had to collateralize 1,300 acre-feet of our Colorado Big Thompson (C-BT) supplies to meet our Windy Gap demands.

¹ The Surface Water Supply Index (SWSI) was developed by the Colorado Division of Water Resources and the U.S.D.A Natural Resources Conservation Service (NRCS). This is an indicator of mountain-based water supply conditions for the major river basins in Colorado. It is based on streamflow, reservoir storage, and precipitation. The SWSI scale goes from -4 (severe drought) to +4 (abundant supply) with 0 being near normal supply.

Through July 8, staff has rented approximately 23,895 acre-feet of water to agriculture. Northern increased the CBT quota to 80% in June resulting in the likelihood that Greeley will spill some CBT. The Greeley System Storage Analysis table shows the April 2021 storage level will be approximately 20,214 acre-feet.

While our current water supplies are in good condition, forecasts are predicting above average temperatures, below average precipitation and below average streamflow forecasts through August. Additionally, the drought monitor indicates we are moving into drought conditions and we should plan for this likely possibility. Staff will continue to monitor weather and water supply closely.

RECOMMENDATION

Projected storage remains above the 20,000 acre-feet target storage level; therefore, the Adequate Water Year conditions declared in April 2020 remain valid.

Water Year 2020 Operations					
	Beginning Storage (1)	Estimated Yield (2)	Total Supplies (3)	Total WY 2020 Demands (4)	Early Season Spills and Collateralized (5)
NCWCD (C-BT)	6,267	20,946	27,213	(18,058)	(1,320)
WINDY GAP	0	0	1,565	(2,274)	2,885
POUDRE SYSTEM	6,608	9,269	15,877	(14,406)	0
GLIC SYSTEM	14,000	10,427	24,427	(10,123)	(2,000)
TOTAL	26,875	40,642	67,517	(44,861)	(435)
				Balance	22,220

Water Year 2021 Storage Volume					
	Ending WY '20 31-Oct-20 Storage (6)	1-Nov-20 Spills (7)	Beginning WY 2021 1-Nov-20 Storage (8)	Winter 2021 (Nov thru April) Demands on Storage and Shrink (9)	1-Apr-21 Carryover (10)
NCWCD (C-BT)	8,033	1,226	6,808	(681)	6,127
WINDY GAP	-1	-1	0	0	0
POUDRE SYSTEM	2,083	0	2,083	0	2,083
GLIC SYSTEM	12,105	0	12,105	0	12,105
TOTAL	22,220	1,225		(681)	20,315
				Target Storage Volume:	20,000

WATER & SEWER BOARD AGENDA JULY 15, 2020

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 7

TITLE: APPROVE AND RECOMMEND TO THE CITY
MANAGER THE WATER AND SEWER 2021
OPERATING BUDGET AND 5 YEAR CIP

RECOMMENDATION: APPROVE AND RECOMMEND TO THE CITY
MANAGER THE WATER AND SEWER 2021
OPERATING BUDGET AND 5 YEAR CIP

ADDITIONAL INFORMATION:

Staff prepared the 2021 operating budget and the five-year capital program for review by the Water and Sewer Board. The 2021 operating budget would normally be a two year operating budget but because of the uncertain economic environment, Greeley is only preparing a one year budget.

Staff prepared the operating and capital budget by reviewing service levels and evaluating how the department can most efficiently provide its critical, regulatory driven services. The enclosed capital budget meets 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. The proposed operating budget reflects the department's efforts to re-image its water quality management while limiting growth in ongoing operational costs.

On average, residential water bills will increase approximately \$2.69/month and residential sewer bill will increase approximately \$1.93/month for a total water and sewer bill increase of \$4.62/month. The methodology for plant investment fees (PIF) is being reviewed during Greeley's ongoing Development Impact Fee study. Using the existing methodology, the water PIF for a 3/4" tap would increase \$700 to \$11,200 and the sewer PIF for a 3/4" tap would increase \$800 to \$6,800. The impact fee consultants are modeling a graduated PIF for water based on lot size to reflect the differing impacts to the water system from a small lot versus a large lot. Once completed, the impact fee study's results will be presented to the Water and Sewer Board and City Council.

**Water Pro Forma
2021**

Line No.		Total for 2021	Operating	Construction	Replacement	Acquisition
Operating Revenue:						
1	User Charges	43,639,348	43,639,348			
2	Plant Investment Fees	3,537,656		3,537,656		
3	Hydrant Sales	375,000	375,000			
4	Raw Water Surcharge	350,000				350,000
5	Cash-in-Lieu	500,000				500,000
6	Meter Sales/Rentals	210,000		210,000		
7	Total Operating Revenue	48,612,004	44,014,348	3,747,656	-	850,000
Operating Expenses:						
8	O&M	18,720,686	18,592,749	127,937		
9	Windy Gap Assessments	975,000	975,000			
10	Total Operating Expenses	19,695,686	19,567,749	127,937	-	-
11	Operating Income	28,916,318	24,446,599	3,619,719	-	850,000
Non-Operating Revenue:						
12	Miscellaneous	1,524,000	1,524,000			
13	Investment Income	306,403	196,763	27,989	36,148	45,503
14	Sewer Fund for Services & Meters	85,028	85,028			
15	Sale of Assets	-				
16	Bond Issue	36,500,000			17,500,000	19,000,000
17	Total Non-Operating Revenue	38,415,431	1,805,791	27,989	17,536,148	19,045,503
Non-Operating Expenses:						
18	Water Acquisition	10,824,510				10,824,510
19	Capital	31,292,843		5,685,600	25,607,243	
20	Debt Service	12,525,931	12,525,931			
21	General Fund for General Administration	2,125,668	2,125,668			
22	Total Non-Operating Expenses	56,768,952	14,651,599	5,685,600	25,607,243	10,824,510
Interfund Revenue or (Expense)						
	Funded Depreciation	-	(9,109,575)		9,109,575	
	Grant Reimbursement	2,458,500			2,458,500	
	Additional Transfer from Operating	-	-			
23	Total Interfund Revenue (Expense)	2,458,500	(9,109,575)	-	11,568,075	-
24	Annual Surplus (Deficiency)	13,021,297	2,491,216	(2,037,892)	3,496,980	9,070,993
25	Beginning Fund Balance 2021	24,129,607	18,430,661	3,817,862	1,866,285	14,799
26	Ending Fund Balance 2021	37,150,904	20,921,877	1,779,970	5,363,265	9,085,792
27	Minimum Target Reserve	4,824,924				

**Water Pro Forma
2021-2030**

Line No.		10-year Total	Operating	Construction	Replacement	Acquisition
Operating Revenue:						
1	User Charges	531,625,397	531,625,397			
2	Plant Investment Fees	61,616,204		61,616,204		
3	Hydrant Sales	4,298,957	4,298,957			
4	Raw Water Surcharge	4,012,358				4,012,358
5	Cash-in-Lieu	500,000				500,000
6	Meter Sales/Rentals	2,588,261		2,588,261		
7	Total Operating Revenue	604,641,177	535,924,354	64,204,465	-	4,512,358
Operating Expenses:						
8	O&M	213,033,082	211,566,422	1,466,660		
9	Windy Gap Assessments	11,084,289	11,084,289			
10	Total Operating Expenses	224,117,371	222,650,711	1,466,660	-	-
11	Operating Income	380,523,806	313,273,643	62,737,805	-	4,512,358
Non-Operating Revenue:						
12	Miscellaneous	16,409,921	16,409,921			
13	Investment Income	3,255,467	1,550,575	412,219	625,860	666,813
14	Sewer Fund for Services & Meters	997,500	997,500			
15	Sale of Assets	-				
16	Bond Issue	270,500,000		117,000,000	32,000,000	121,500,000
17	Total Non-Operating Revenue	291,162,888	18,957,996	117,412,219	32,625,860	122,166,813
Non-Operating Expenses:						
18	Water Acquisition	131,367,712				131,367,712
19	Capital	334,318,199		194,074,427	140,243,772	
20	Debt Service	184,662,079	184,662,079			
21	General Fund for General Administration	24,368,403	24,368,403			
22	Total Non-Operating Expenses	674,716,393	209,030,482	194,074,427	140,243,772	131,367,712
Interfund Revenue or (Expense)						
	Funded Depreciation	-	(106,406,393)		106,406,393	
	Grant Reimbursement	2,458,500			2,458,500	
	Additional Transfer from Operating	-	(18,000,000)	10,000,000	3,500,000	4,500,000
23	Total Interfund Revenue (Expense)	2,458,500	(124,406,393)	10,000,000	112,364,893	4,500,000
24	Total Surplus (Deficiency)	(571,199)	(1,205,236)	(3,924,403)	4,746,981	(188,541)
25	Beginning Fund Balance 2021	24,129,607	18,430,661	3,817,862	1,866,285	14,799
26	Ending Fund Balance 2030	23,558,408	17,225,425	(106,541)	6,613,266	(173,742)
27	Minimum Target Reserve	6,359,605				

**Sewer Pro Forma
2021**

Line No.		Total for 2021	Operating	Construction	Replacement
Operating Revenue:					
1	User Charges	12,729,785	12,729,785		
2	Plant Investment Fees	2,113,570		2,113,570	
3	Total Operating Revenue	14,843,355	12,729,785	2,113,570	-
Operating Expenses:					
4	O&M	7,189,828	7,066,075	123,753	
5	Total Operating Expenses	7,189,828	7,066,075	123,753	-
6	Operating Income	7,653,527	5,663,710	1,989,817	-
Non-Operating Revenue:					
7	Miscellaneous	215,000	215,000		
8	Investment Income	93,894	40,170	14,770	38,954
9	Bond Issue	28,500,000			28,500,000
10	Total Non-Operating Revenue	28,808,894	255,170	14,770	28,538,954
Non-Operating Expenses:					
11	Capital	22,802,550		3,958,496	18,844,054
12	Debt Service	2,498,090	2,498,090		
13	Water Fund for Services and Meters	85,028	85,028		
14	General Fund for General Administration	454,954	454,954		
15	Total Non-Operating Expenses	25,840,622	3,038,072	3,958,496	18,844,054
Interfund Revenue or (Expense)					
	Funded Depreciation	-	(3,994,667)		3,994,667
	Additional Transfer from Operating	-			
16	Total Interfund Revenue (Expense)	-	(3,994,667)	-	3,994,667
17	Annual Surplus (Deficiency)	10,621,799	(1,113,859)	(1,953,909)	13,689,567
18	Beginning Fund Balance 2021	18,328,543	4,573,920	2,453,970	11,300,653
19	Ending Fund Balance 2021	28,950,342	3,460,061	500,061	24,990,220
20	Minimum Target Reserve	1,742,320			

**Sewer Pro Forma
2021-2030**

Line No.		<u>10-year Total</u>	<u>Operating</u>	<u>Construction</u>	<u>Replacement</u>
Operating Revenue:					
1	User Charges	182,438,960	182,438,960		
2	Plant Investment Fees	46,771,863		46,771,863	
3	Total Operating Revenue	229,210,823	182,438,960	46,771,863	-
Operating Expenses:					
4	O&M	82,446,209	81,027,510	1,418,699	
5	Total Operating Expenses	82,446,209	81,027,510	1,418,699	-
6	Operating Income	146,764,614	101,411,450	45,353,164	-
Non-Operating Revenue:					
7	Miscellaneous	2,484,827	2,484,827		
8	Investment Income	2,104,685	301,956	1,032,763	769,966
9	Bond Issue	101,500,000		52,000,000	49,500,000
10	Total Non-Operating Revenue	106,089,512	2,786,783	53,032,763	50,269,966
Non-Operating Expenses:					
11	Capital	194,735,393		100,835,064	93,900,329
12	Debt Service	47,756,157	47,756,157		
13	Water Fund for Services and Meters	997,500	997,500		
14	General Fund for General Administration	5,215,544	5,215,544		
15	Total Non-Operating Expenses	248,704,594	53,969,201	100,835,064	93,900,329
Interfund Revenue or (Expense)					
	Funded Depreciation	-	(52,192,317)		52,192,317
	Additional Transfer from Operating	-			
16	Total Interfund Revenue (Expense)	-	(52,192,317)	-	52,192,317
17	Total Surplus (Deficiency)	4,149,532	(1,963,285)	(2,449,137)	8,561,954
18	Beginning Fund Balance 2021	18,328,543	4,573,920	2,453,970	11,300,653
19	Ending Fund Balance 2030	22,478,075	2,610,635	4,833	19,862,607
20	Minimum Target Reserve	2,316,125			

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	CITY OF GREELEY - WATER & SEWER DEPARTMENT 10 YEAR CIP 2021-2030														
2	<i>Revised July 7, 2020</i>														
3	POTABLE DEMAND				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
4	Projected Peak Potable demand - MGD (base)				50.5	50.8	51.0	51.5	52.0	52.6	53.1	53.6	54.1	54.7	
5	DESIGN-Peak potable demand (10% safety)				55.6	55.8	56.1	56.7	57.2	57.8	58.4	59.0	59.6	60.2	
6	Bellvue System														
7	Capacity of Bellvue Plant				35	35	35	35	35	35	35	35	35	35	35
8	Capacity of Bellvue Transmission Lines				30	30	30	30	32	32	32	32	32	32	32
9	Capacity of Bellvue System				30.0	30.0	30.0	30.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
10	Boyd System														
11	Capacity of Boyd Plant				38	38	38	38	38	38	38	38	38	38	38
12	Capacity of Boyd Pipelines				40	40	40	40	40	40	40	40	40	40	40
13	Capacity of Boyd system				38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
14	Combined System Capacities														
15					68.0	68.0	68.0	68.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
16	WATER CONSTRUCTION 405														
17															
18	Supply	Driver	Description	2021 To 2030	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
19	Terry Ranch Water Development	Master Plan	Terry Ranch is an aquifer development project that will help Greeley meet its long term water resource need.	63,230,490	2,020,000	3,995,810	4,796,390	3,988,390	8,071,650	8,071,650	8,071,650	8,071,650	8,071,650	8,071,650	8,071,650
20	Windy Gap Firming	Master Plan	Firms water rights for Greeley's Windy Gap units	56,920,000	720,000	56,200,000									
21	Non-Potable Expansion Projects	Master Plan	Add non-potable to new developments	5,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
22	30" Pleasant Valley Pipeline and Pump Station	Master Plan	Greeley & Tri-Districts line from Pleasant Valley pipeline to Overland ponds - shared with Tri-Districts	3,200,000										1,200,000	2,000,000
23	Treatment														
24	Bellvue 2mg Clear well	Operations & Regulatory	Best practice is 10% of max daily production, need 4 mg and currently have 2mg	5,264,900				490,500	4,774,400						
25	Residuals Gravity Thickener-Bellvue	Operations & Master Plan	2nd residual gravity thickener for increased capacity & demand	1,900,040				184,000	1,716,040						
26	Residuals Gravity Thickener-Boyd	Operations & Master Plan	Residual gravity thickener to respond to increased carbon load	2,000,000								182,000	1,818,000		
27	Transmission & Distribution														
28	Bellvue Transmission Program (Gold Hill Segment)	Master Plan	Gold Hill segment will allow gravity service to Gold Hill	4,437,135				4,387,135	25,000	25,000					
29	Distribution Line Extension & Oversizing	Operations & Master Plan	Development reimbursement for water line oversizing	1,321,400	115,100	122,200	129,300	136,400	136,400	136,400	136,400	136,400	136,400	136,400	136,400
30	New Construction Meters	Operations	City installed meters for new development (reimbursed)	459,500	54,500	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000
31	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	75,000
32	35th Avenue Nonpotable Waterline	Master Plan & Const. Coord.	Will install new non-potable line in 35th Avenue north of F Street, part of the lower equalizer project.	3,469,500	1,601,000				1,868,500						
33	71st - 83rd Avenue Pump Station and Pipeline	Master Plan	Construct the pump station and pipeline to a connection point at 83rd Ave, part of the lower equalizer project.	11,324,400			1,000,000	10,324,400							
34	83rd Avenue Nonpotable Waterline	Master Plan	Dependent on roadwork - install new non-potable line as part of the lower equalizer project	18,325,400				1,270,000	17,055,400						
35	35th Avenue Water Line Extension	Construction Coordination	This project is for water pipeline to be installed in advance of City and County roadway projects along 35th Ave	600,000	600,000										
36	EFI Pump Station Installation	Operations	Installation of self-contained pre-fab water pump station to provide additional flow and pressure to specific area	450,000		450,000									
37	SUB-TOTAL 405 PROJECTS				178,652,765	5,685,600	61,388,010	6,545,690	21,400,825	34,267,390	8,853,050	8,828,050	9,010,050	11,846,050	10,828,050

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
38	WATER					PROJECT TOTALS										
39	REPLACEMENT 406															
40	Supply	Driver	Description	2021 To 2030	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
41	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	50,000	
42	Non-Potable Replacement and Rehabilitation	Maintenance	Maintenance to non-potable irrigation system. Expanding existing facilities to serve additional customers.	6,195,000	808,000	1,043,000	543,000	543,000	543,000	543,000	543,000	543,000	543,000	543,000	543,000	
43	Bellvue Intake Maintenance Project Phase 2	Maintenance	Repair damages to Bellvue raw water intake structure	1,879,000			1,834,000	45,000								
44	Milton Seaman Outlet Works	Operations & Regulatory	Replacement of the reservoir outlet gates	4,166,000		4,166,000										
45	Lake Loveland Tower Cover	Maintenance	Replace one fiberglass cover over the Lake Loveland intake tower	110,000			110,000									
46	Utility Billing Software Upgrade	Administration	Current utility billing software at end of life	1,320,000	1,320,000											
47	Pleasant Valley Canal Lining	Maintenance	Pleasant Valley canal needs to be lined to prevent ongoing leaking and risk of future wetland designation	230,000	230,000											
48	Suburban Ditch (Reservoir Road) Line Replacement	Maintenance	Replace a 1961 irrigation line due to deterioration	325,000	25,000	100,000	100,000	100,000								
49	Hourglass & Comanche Reservoir Rehabilitation	Maintenance	Replace outlet gates, operator shafts, actuators, trash rack & structures. Repair Comanche Spillway.	648,850	94,000	554,850										
50	Peterson Reservoir Spillway Abutment Repair	Regulatory	Repair deteriorating abutments. Required by State Engineer	165,500		165,500										
51	SCADA Upgrades - Reservoir 23 & Non-Potable	Maintenance	Upgrade the outdated SCADA system as Reservoir 23 and Non-pot systems.	974,000	522,400	451,600										
52	SCADA - High Mountain Reservoirs	Maintenance & Regulatory	Upgrade SCADA for High Mountain Reservoirs to meet upgraded regulations	230,500			80,500	80,000	70,000							
53	Risk & Resiliency Projects	Master Plan	Risk mitigation projects per the 2020 Risk & Resiliency Assessment	843,830	134,200	127,270	62,800	158,560	361,000							
54	SCADA Master Plan	Operations	Master plan identifying SCADA conditions, assets, needs and prioritization	299,000			299,000									
55	Treatment															
56	Bellvue WTP General Rehab.	Maintenance	General maintenance projects or unanticipated rehab	3,490,000	385,000	345,000	345,000	345,000	345,000	345,000	345,000	345,000	345,000	345,000	345,000	
57	Bellvue Needs Assessment	Maintenance	Design/construct improvements to filters and other systems at Bellvue	1,080,750	1,080,750											
58	Bellvue 20 MGD Treatment Trains-Ph. 2	Maintenance & Master Plan	20 MGD replacement of the old flocculation/sedimentation and 58/64 filters	27,600,000										2,400,000	25,200,000	
59	Boyd WTP General Rehab.	Maintenance	General maintenance projects or unanticipated rehab	3,950,000	480,000	430,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	
60	Boyd Process Improvements	Maintenance	Design/construct improvements to enable Boyd to operate in winter	9,975,000			2,625,000	3,150,000	4,200,000							
61	Boyd Micro strainer Building Remodel	Maintenance	Remodel Micro strainer building to meet current building code and expand space	1,152,000										576,000	576,000	
62	Boyd Chemical Tank Building	Maintenance	Construct a building over the chemical tanks at Boyd	1,015,000		1,015,000										
63	Boyd Flocculator Replacement	Maintenance	Replace 24 flocculators in the sedimentation basins	1,040,000		335,000	235,000	235,000	235,000							
64	Boyd Pump Station Intake Valve	Maintenance	Replace a non functional intake valve at the Boyd Lake pump station	335,000						335,000						
65	Boyd Sedimentation Basin Repair	Maintenance	Repair concrete erosion within the sedimentation basins	1,570,000				785,000	785,000							
66	Bellvue WTP Sedimentation Basin & Effluent Channel R	Maintenance	Make necessary structural repairs to Bellvue sedimentation basin and 58-63 filter building	375,000	375,000											
67	Transmission & Distribution															
68	Transmission System Rehab.	Maintenance	Replacement and rehabilitation of transmission lines	19,780,000	2,550,000	2,505,000	2,055,000	1,945,000	1,725,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	
69	Distribution Pipeline Replacements	Maintenance	Replaces lines based on leak history or increase size for operations or meet City standards	13,370,883	1,800,883	1,785,000	1,305,000	1,280,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	
70	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	100,000	
71	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	77,000	
72	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	100,000	
73	Treated Water Reservoir Rehabilitation	Maintenance	Maintenance and minor repairs to the treated water reservoirs	1,883,000	568,000	995,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	
74	Instrumentation & Controls - Water	Operations	Maintains SCADA systems and control panels	1,630,000	190,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	
75	Capital Outlay Replacement	Maintenance	Replacement of rolling stock: trucks, loaders, etc.	5,493,000	405,000	375,000	767,000	1,211,000	535,000	385,000	770,000	225,000	410,000	410,000	410,000	
76	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	400,000		
77	Advanced Metering Infrastructure (AMI)	Operations	Install AMI to facilitate water savings, improve customer communication, enhance Water Budget	9,110,000	1,930,000	1,930,000	875,000	875,000	875,000	875,000	875,000	875,000	875,000			
78	W&S Facilities Program	Operations	Site will be developed to house W&S operational crews & equipment	5,050,510	5,000,510	50,000										
79	SUB-TOTAL 406 PROJECTS					130,556,823	18,225,743	16,860,220	12,143,300	11,659,560	12,181,000	6,790,000	6,840,000	6,295,000	8,581,000	30,981,000
80	WATER					PROJECT TOTALS										
81	ACQUISITIONS 407															
82	Driver	Description	2021 To 2030	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
83	Overland Trail Gravel Pits	Master Plan	Greeley and Tri-Districts for approximately 2,350 ac-ft. storage	3,140,000		35,000	35,000	1,035,000	2,035,000							
84	Future Water Acquisition	Master Plan	Acquisition of 10,000 ac-ft. of agricultural water supplies	107,147,951	8,979,000	8,902,950	9,348,098	9,815,502	10,306,277	10,821,591	11,362,671	11,930,804	12,527,345	13,153,712		
85	New Cache/Larimer & Weld Change Case	Master Plan	Water use court system change from irrigation to municipal use	625,000	75,000	75,000	75,000	200,000	200,000							
86	Water Supply and Storage Change Case	Master Plan	Water use court system change from irrigation to municipal use	275,000	75,000	100,000	100,000									
87	Development of Parcel B, Poudre Ponds	Master Plan	Establish a wetlands bank to compliment Pond A	1,195,000			1,125,000	50,000	20,000							
88	Integrated Water Resources Plan	Master Plan	Upgrade and modernize the raw water allocation model in support of an integrated water resources plan	578,000	215,500	206,000	156,500									
89	Non-tributary groundwater SLB Change Case	Master Plan	Water use court system change for non-tributary groundwater right in the Laramie Fox aquifer	375,000	75,000	100,000	100,000	100,000								
90	SUB-TOTAL 407 PROJECTS					113,335,951	9,419,500	9,418,950	10,939,598	11,200,502	12,561,277	10,821,591	11,362,671	11,930,804	12,527,345	13,153,712
91	WATER TOTALS (405 + 406 + 407) =															
92						422,545,539	33,330,843	87,667,180	29,628,588	44,260,887	59,009,667	26,464,641	27,030,721	27,235,854	32,954,395	54,962,762

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
93	SEWER				PROJECT										
94	CONSTRUCTION 402				TOTALS										
95	Collection	Driver	Description		2021 To 2030	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
96	N. Greeley Sewer Phase IIA	Master Plan	Provides service north of the Poudre River and along HWY 85		5,770,000			160,000	5,610,000						
97	Additional Sanitary Sewer MH's & Sewer 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
98	Ashcroft Draw Lift Station	Master Plan	Provide service for Ashcroft Draw Basin and St. Michaels subdivision		300,000	300,000									
99	Treatment														
100	WPCF Primary Treatment Phase 3	Master Plan	Increase total treatment capacity for loads and flows through the WPCF		68,234,000							9,335,000		58,899,000	
101	SUB-TOTAL 402 PROJECTS				74,994,000	369,000	69,000	229,000	5,679,000	69,000	69,000	9,404,000	69,000	58,968,000	69,000
102	SEWER				PROJECT										
103	REPLACEMENT 403				TOTALS										
104	Collection	Driver	Description		2021 To 2030	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
105	Sewer Collection System Rehabilitation	Maintenance	Lines smaller than 6" identified for replacement and system rehab		714,000	60,000	104,000	125,000	125,000		100,000		100,000		100,000
106	Trenchless Main and Collector Rehab	Maintenance	In pipe Cure-in-Place repair of sanitary system		4,300,000	520,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000
107	WWC Sewer System Rehabilitation	Maintenance	Repairs of sanitary sewer manholes and main lines by Collections		1,825,000	310,000	180,000	180,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
108	Wastewater Flow Monitoring Program	Maintenance	Install flow meters on trunk lines for flow monitoring		550,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000	55,000
109	35th Ave and F Street Sewer Capacity	Construction Coordination	Upsize approx. 1/2 mile of sewer main to address existing sewer capacities. PW is improving this section of road		1,220,000	1,220,000									
110	Highland Capacity Improvement Upper	Master Plan	Upsize approx. 1 mile of sewer main to address existing and future flows from the T-bone LS & Highland Hills		2,615,000				370,000	2,245,000					
111	Treatment														
112	General Rehabilitation Projects	Maintenance	Small or unanticipated maintenance projects		7,761,800	880,200	936,200	825,200	740,200	730,000	730,000	730,000	730,000	730,000	730,000
113	WPCF SCADA System Replacement	Maintenance	Provide required security, monitoring, and controls for the WPCF		50,000	25,000	25,000								
114	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
115	WPCF Stream Temperature Assessment	Regulatory	Study effluent temperature issues for possible new regulations		610,000	70,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
116	Nitrification Phase 2	Regulatory	Plant upgrade to meet upcoming biological nutrient reduction regs		34,177,000	33,987,000	110,000	80,000							
117	WPCF Primary Treatment-Phase 2	Maintenance & Master Plan	Repairs existing three primary clarifiers built in 1960's & 1980's and improves performance		19,046,100	2,660,000		16,001,100	385,000						
118	WTRF Centrate Upgrades	Regulatory	Construction of the Centrate Lift Station and Centrate side stream phosphorus removal		10,136,000	760,000		9,376,000							
119	WTRF Generator Replacement	Regulatory	This project will provide a new backup generator for the Nitrification Phase 2 project.		3,140,000		3,140,000								
120	Studies & Others														
121	Wastewater Treatment Master Plan Update	Master Plan	WPCF Master Plan Updates, includes funding for long range (50 yr) component to evaluate existing capacity		1,265,000			740,000						525,000	
122	Utility Billing Software Upgrade	Administration	Current utility billing software at end of life		550,000	550,000									
123	Capital Outlay Replacement	Maintenance	Replacement of rolling stock: trucks, loaders, etc.		1,515,000	570,000	60,000	45,000	610,000			230,000			
124	SUB-TOTAL 403 PROJECTS				90,224,900	41,742,200	5,165,200	27,982,300	3,005,200	3,750,000	1,605,000	1,735,000	1,605,000	2,030,000	1,605,000
125	SEWER TOTALS (402 + 403) =														
126					165,218,900	42,111,200	5,234,200	28,211,300	8,684,200	3,819,000	1,674,000	11,139,000	1,674,000	60,998,000	1,674,000
127	WATER & SEWER TOTALS =				587,764,439	75,442,043	92,901,380	57,839,888	52,945,087	62,828,667	28,138,641	38,169,721	28,909,854	93,952,395	56,636,762



Water and Sewer
Capital Program
2021-2025



Fund 405

Water New Construction

Water Taps

Project Number:	122	Budget Year:	2021
Division:	Transmission/Distribution	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Dan Moore	Budget Unit #:	4050088088100000
Project Status:	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.)

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.

Discussion of Progress:

Ongoing annual program

Revenue Detail:

New customers = new water revenue

Impact on Operating Budget:

None

GL Account	Description	Revenue Detail			Impact on Operating Budget					
		Previous 3 Years	2019 Actual	2020 Revised Budget	2021	2022	2023	2024	2025	Grand Total
Revenue										
	Fund Balance	-	-	60,010,145	2,073,656	-	-	15,496,145	-	49,557,577
4461	New Meter Sales	247,573	64,912	50,000	50,000	52,324	54,702	57,188	59,787	636,486
4462	Large Meter Sales	177,908	74,001	35,000	50,000	52,324	54,702	57,188	59,787	560,910
4464	Labor & Materials	45,892	17,159	10,000	10,000	10,465	10,941	11,438	11,958	127,853
4611	Plant Investment Fees	13,260,977	4,450,604	-20,115,145	-2,208,656	128,360	3,312,997	-11,661,335	-11,810,841	-24,643,039
4612	Promontory PIF Surcharge	8,100	-	-	-	-	-	-	-	8,100
53**	Water Rates	170,874	-	-	-	-	-	-	-	170,874
5632	Rents From Equipment	402,553	152,955	85,000	100,000	104,648	109,404	114,376	119,574	1,188,510
5902	Bond Proceeds	-	-	-40,000,000	-	-	4,500,000	-4,000,000	12,500,000	-27,000,000
Total Revenue		\$14,313,878	\$4,759,631	\$75,000	\$75,000	\$348,121	\$8,042,746	\$75,000	\$940,265	\$607,273
Expense										
8202	Construction	6,434	-	5,000	5,000	5,000	5,000	5,000	5,000	36,434
8203	Construction - City Depts	-	-	5,000	5,000	5,000	5,000	5,000	5,000	30,000
8208	Furniture, Fixtures & Equipment	4,600	-	-	-	-	-	-	-	4,600
8216	Miscellaneous	6,869	-	3,500	3,500	3,500	3,500	3,500	3,500	27,869
8226	Permits, Fees, Etc	770	-	-	-	-	-	-	-	770
8232	Project Management	6,387	5,805	-	-	-	-	-	-	12,192
8234	Repair/Maintenance Supplies	109,632	16,775	61,500	61,500	61,500	61,500	61,500	61,500	495,408
Total Expense		\$134,692	\$22,580	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$607,273
Net Total		\$14,179,186	\$4,737,051	-	-	\$273,121	\$7,967,746	-	\$865,265	-



Fund 406

Water Replacement



Fund 407

Water Acquisition



Fund 402

Sewer New Construction



Fund 403
Sewer Replacement



Fund 404
Water Operating

Water Administration

GL Account *	Notes	2021
7111- Regular Employees		851,973
7121- Overtime-Regular		5,150
7211- Disability		4,943
7212- Health		126,268
7213- Life		2,520
7214- Dental		4,107
7215- Workers Compensation		2,039
7221- General Employees		34,081
7227- 401K		16,361
7231- FICA		52,819
7234- Medicare		12,361
7314- Office Supplies & Materials		5,000
7325- Clothing And Uniforms		1,500
7328- Fleet Fuel	Fleet Fuel - Original Budget	709
7329- Other Operating Supplies		15,000
7344- General Maintenance Supplies	This budget purchases cleaning supplies for W&S admin offices.	500
7362- Small Items Of Equipment \$100 - \$5,000	Computer hardware costs increasing for division	4,500
7411- Postage	6100 pieces @ \$0.50	3,041
7418- Advertising		1,000
7424- In-House Copying	Doing most copying in house now because of better printers, copy numbers increasing	8,000
7426- Outside Printing		4,000
7432- Publications, Subscriptions, and Dues		16,500
7442- Water/Sewer/Stormwater	Payments to North Weld Water for water taken through Greeley's interconnect. We receive more revenue for the water sold to customers than we pay North Weld. Net gain. contracted amount.	18,500
7445- Telephone	Reflects recent costs	8,500
7458- Other Professional Services - White collar	Professional services related to rate model development and cross connection control software maintenance	67,600
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance:	2,426
7472- Hotel & Motel		2,000
7473- Meals	~5 days per diem	750
7475- Mileage	2600 miles @ \$0.50/mile.	1,200
7478- Registration	Ten employees @ \$1000/employee.	10,000
7496- Other Purchased Services - Blue Collar	FedEx fees increasing, utilizing more often to manage contracts	5,000
7631- Rent	Rent Paid to General Fund 0015050050000000 - Maintenance 5366, Tied to repayment schedule. 2019 higher to compensate for 2017 & 2018 interest payments. 2020 ties to schedule.	123,689
7655- Bank/Investment Charges		145,000
7811- Grants-Outside Public Agency		2,300

1,559,337

Water Engineering

GL Account *	Notes	2021
7111- Regular Employees		392,562
7112- Salaries & Wages - Seasonal		12,240
7211- Disability		2,277
7212- Health		53,300
7213- Life		1,155
7214- Dental		1,734
7215- Workers Compensation		4,675
7215- Workers Compensation	seasonal workers comp	500
7221- General Employees		15,700
7227- 401K		7,538
7231- FICA		24,338
7231- FICA	seasonal	759
7234- Medicare		5,691
7234- Medicare	seasonal medicare	177
7314- Office Supplies & Materials	Asset Manager and Asset Technician now in this budget. Budget for ink cartridges.	1,000
7328- Fleet Fuel	Fleet Fuel - Original Budget	1,472
7329- Other Operating Supplies		1,034
7333- Machinery, Vehicle & Equipment Parts	Budgeted by Equipment Maintenance:	150
7362- Small Items Of Equipment \$100 - \$5,000	Additional computer supplies for Asset Manager/Asset Technician-increased by \$500	1,500
7411- Postage		50
7418- Advertising		500
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues		1,200
7445- Telephone	5 phones at a avg monthly charge of \$70/month	5,880
7455- Architectural/Engineering		5,500
7458- Other Professional Services - White collar	Maintenance agreement fee for the asset management system. All water divisions budgeted here for this fee	22,000
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance:	4,990
7472- Hotel & Motel		2,500
7473- Meals	5 days of per diem estimated	1,500
7474- Air Travel		2,000
7475- Mileage	1000 miles @ \$0.50	750
7477- Other Travel		100
7478- Registration	5 employees attending North American Society for Trenchless Technology @ approximately \$850/persion	4,250
7496- Other Purchased Services - Blue Collar	Adding data plans for wireless internet access for 20 laptops to access asset management system. All water divisions budgeted here.	1,000

580,122

Services and Meters

GL Account *	Notes	2021
7111- Regular Employees		303,649
7121- Overtime-Regular	On call after hour emergencies. The division's average is \$35/hour at 255 overtime hours annually.	8,240
7211- Disability		1,763
7212- Health		69,797
7213- Life		926
7214- Dental		2,274
7215- Workers Compensation		5,961
7221- General Employees		12,142
7227- 401K		5,831
7231- FICA		18,825
7234- Medicare		4,401
7314- Office Supplies & Materials		1,000
7321- Medical/Chemical		1,000
7325- Clothing And Uniforms	Safety clothing and personnel protection equipment for FTE 21-22, \$1200/employee. During and after the deployment of the AMI program, Meter department job duties will change, involving them more in the maintenance of the new and improved system. The PPE and clothing needs will grow in order to accommodate the maintenance needs. \$1200/employee is calculated by todays price and absolute need. This is baseline throughout T&D/METERS/WWC and RESERVOIRS, tracking and issuance has been implemented to control over spending and waste.	2,500
7328- Fleet Fuel	Budgeted by Fleet	11,664
7329- Other Operating Supplies	Propane, acetylene, cell phone accessories and batteries.	2,500
7333- Machinery, Vehicle & Equipment Parts		2,500
7338- Water,Sewer,Irrigation Line Repair Parts	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- General Maintenance Supplies	Historical costs for small tools, meter pit keys, stop box keys, meter vault lid lifting hooks, shovels and janitorial supplies	11,910
7362- Small Items Of Equipment \$100 - \$5,000		2,500
7411- Postage		100
7424- In-House Copying		750
7426- Outside Printing	updating informational door hangers/AMI instruction hanger (\$1.50/hanger)	1,000
7432- Publications, Subscriptions, and Dues		500

Services and Meters

7441- Electric	Budgeted by Finance (based on incrs & 12mo rolling avg)	3,124
7444- Natural Gas	Budgeted by Finance (based on incrs & 12mo rolling avg)	2,821
7445- Telephone		4,000
7458- Other Professional Services - White collar		1,800
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	8,947
7478- Registration	Increase by \$1000	2,000
7496- Other Purchased Services - Blue Collar	large meter testing	2,955
7631- Rent	Annual lease on (2) gas detectors used for confined space entry. Increased \$1300 for new contract	4,640
		512,020

Transmission Reservoir

GL Account *	Notes	2021
7111- Regular Employees		342,260
7112- Salaries & Wages - Seasonal	1 seasonal employee necessary to help with in-house corrective maintenance projects, assist the maintenance mechanic with routine preventative maintenance, perform landscape maintenance and assist with confined space entries.	22,216
7121- Overtime-Regular	on-call/weekend duty: average hourly rate for (7) fte's over rate \$37: on-call is 8 hrs@37/hr x 52 weeks. holiday coverage: 4 hrs @ \$37/hr x 10. emergency response: 56 calls @ \$36/hr. transmission line/utility locat tech after hour projects/call outs 100 hrs @ \$37/hr.	22,660
7211- Disability		1,984
7212- Health		76,140
7213- Life		1,037
7214- Dental		2,478
7215- Workers Compensation		7,360
7215- Workers Compensation	Seasonal Workers Comp	581
7221- General Employees		13,690
7227- 401K		6,572
7231- FICA		21,219
7231- FICA	Seasonal FICA FICA taxes for seasonal employee	1,197
7234- Medicare		4,963
7234- Medicare	Seasonal Medicare	294
7314- Office Supplies & Materials		2,000
7321- Medical/Chemical	At our 3 reservoir complexes we use sodium hypochlorite solution to provide secondary disinfection treatment. gallons used is proportional with gallons of water usage. The budget for chemical for 21-22 will change due to the use of the 60" transmission line, which will allow less pumping out of Mosier there for less chemical. Need to baseline new consumptions prior to adjusting the budget.	40,000
7325- Clothing And Uniforms	Safety boots 6 @ \$200, cog logo hats 30 @ \$8, hard hats 15 @ \$30, safety shirts 56 @ \$35, light coveralls 4 @ \$30, safety gloves 336 prs @ \$5, safety vest 56 @ \$14, first aid kit refill 8 @ \$25, rubber boots 14 @ \$35, safety glasses 504 prs @ \$5, safety sweatshirts 28 @ \$50, ear protection plugs 4 @ \$25, ear protection bulk 2 @ \$26, ear protection muffs 8 @ \$10, face shields 4 @ \$25, eye protection goggles 31 @ \$1, eye protection over the glasses 10 @ \$6, rain gear 14 @ \$35, bug spray 48 @ \$4, sun screen 4 @ \$30	5,000
7328- Fleet Fuel	Budgeted by Fleet	19,189
7329- Other Operating Supplies	Funds used for propane, batteries, cell phone accessories, oxygen & acetylene. inline with 2013 expenditures.	2,009

Transmission Reservoir

GL Account *	Notes	2021
7333- Machinery, Vehicle & Equipment Parts		4,000
7338- Water,Sewer,Irrigation Line Repair Parts	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; 22 pressure regulating stations located throughout the distribution system; parts for repairing plumbing, pumps, the sodium hyperchlorite dispensing systems at 3 reservoir complexes	8,952
7344- General Maintenance Supplies	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. painting supplies and janitorial supplies for the (3) reservoir complexes and the zone 4 pump station are purchased through this account	32,000
7346- Street & Traffic Repair and Maintenance Supplies		1,200
7348- Plant Materials	Sod, grass for the (3) reservoir complexes	500
7362- Small Items Of Equipment \$100 - \$5,000		7,000
7411- Postage		300
7424- In-House Copying		1,000
7426- Outside Printing		200
7432- Publications, Subscriptions, and Dues		500
7441- Electric	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.	225,743
7442- Water/Sewer/Stormwater	Budgeted by Finance (based on incrs & 12mo rolling avg)	1,548
7444- Natural Gas	Budgeted by Finance (based on incrs & 12mo rolling avg)	4,341
7445- Telephone	Telephone/cell phone services and phone alarm systems at the (3) reservoir complexes	16,000
7446- Other Utility		1,500
7458- Other Professional Services - White collar	Misc replacements/services. In 2021 \$3600 SCADA support contract costs (Timberline) were moved to I&C Budget	1,500

Transmission Reservoir

GL Account *	Notes	2021
7461- Machine, Vehicle, Equipment	Fees for repairs outside the city of Greeley	3,500
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	28,217
7466- Buildings	Bldg. service and repair	900
7469- Other Repair Maintenance Services		2,600
7472- Hotel & Motel		1,000
7478- Registration	Registration fees for American water works association * action now* seminars and internet course training for the necessary training units to renew Colorado water and wastewater operator certifications. All reservoir personnel have multiple certifications. Also for advanced electrical & instrumentation training.	6,800
7496- Other Purchased Services - Blue Collar	Instructional advice received about the maintenance of our cathodic protection system. This is our corrosion control protection for our large diameter steel transmission mains; we induce an electrical current on to the pipe line. Utility notification center of Colorado locate ticket request charges. \$1200 annual VIASAT Satellite charges moved to I&C budget in 2021.	14,250
7631- Rent	Lease agreement fee for 3 gas detection monitors and rental charges of misc. equipment on tools.	7,000
		963,400

Distribution

GL Account *	Notes	2021
7111- Regular Employees		1,124,893
7121- Overtime-Regular	Projected work programs and leak history: water e	164,800
7211- Disability		6,529
7212- Health		215,730
7213- Life		3,378
7214- Dental		7,020
7215- Workers Compensation		23,617
7221- General Employees		44,992
7227- 401K		21,599
7231- FICA		69,741
7234- Medicare		16,308
7314- Office Supplies & Materials		1,500
7321- Medical/Chemical		1,500
7325- Clothing And Uniforms	\$1200/employee this includes PPE.	12,000
7328- Fleet Fuel	Budgeted by Fleet	50,127
7329- Other Operating Supplies	Historical costs for propane; batteries for pipe loca	5,000
7333- Machinery, Vehicle & Equipment Parts		5,500
7338- Water,Sewer,Irrigation Line Repair Parts	Average 55 leaks per year. Cost varies due to repai	12,080
7344- General Maintenance Supplies	Historical costs for replacing shovels, hammers, scr	20,000
7346- Street & Traffic Repair and Maintenance Supplies	Historical costs for repairing the public right of way	15,500
7348- Plant Materials		1,550
7362- Small Items Of Equipment \$100 - \$5,000		10,000
7411- Postage		100
7424- In-House Copying		3,000
7426- Outside Printing		500
7432- Publications, Subscriptions, and Dues		1,648
7441- Electric	Annual electrical service provided to building I in tl	9,160
7444- Natural Gas	Based on incrs & 12mo rolling avg	1,892
7445- Telephone		7,500
7446- Other Utility		60
7458- Other Professional Services - White collar	Dumpsters, portable restroom services, Lucity supj	15,000
7461- Machine, Vehicle, Equipment	Outside equipment repair	3,090
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	107,281
7468- Streets, Roads, Traffic Lights	Annual cost for the asphalt paving, curb, gutter an	38,601
7469- Other Repair Maintenance Services	Historical cost of maintaining the divisions copier, i	1,030
7473- Meals		500
7474- Air Travel		500
7475- Mileage		520
7478- Registration	Monies used for attending American water works :	10,300
7496- Other Purchased Services - Blue Collar	Monies used for the utility notification center of Cr	20,000
7631- Rent	Monies used for the lease of (1) gas detection and	3,500
		2,057,546

Non-Potable Operations

GL Account *	Notes	2021
7111- Regular Employees		172,891
7112- Salaries & Wages - Seasonal		19,380
7121- Overtime-Regular		8,497
7211- Disability		1,004
7212- Health		38,070
7213- Life		525
7214- Dental		1,239
7215- Workers Compensation		3,718
7215- Workers Compensation	Seasonal Workers Comp	587
7221- General Employees		6,914
7227- 401K		3,319
7231- FICA		10,719
7231- FICA	Seasonal FICA	1,209
7234- Medicare		2,506
7234- Medicare	Seasonal Medicare	297
7314- Office Supplies & Materials		500
7321- Medical/Chemical	Cost for algae control chemicals, copper sulphate used at 19pumping stations and poudre ponds and the 5 ditch's we maintain. also covers cost incurred for landscaping and pest control at 30 non-potable stations and at the gravel pit. 4 CDL physicals	1,800
7325- Clothing And Uniforms	safety clothing and personal protection equipment for 4 FTE's (1 additional because of taking over Park's non-potable assets) and 2 seasonal. safety boots, hard hats, safety shirts, light coveralls, safety gloves, first aid kits, safety vests, rubber boots, ear protection, rain gear, sun screen	4,000
7328- Fleet Fuel	Fleet Fuel - Original Budget	11,074
7329- Other Operating Supplies		1,000
7333- Machinery, Vehicle & Equipment Parts	Maintenance supplies for six vehicles and two chain saws, 1 chop saw, generator and pumps. 1 hotsy 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 throughout the year. Additional vehicle and equipment with expanded non-potable assets.	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 repairs to systems piping infrastructures, mechanical joint coupler, etc.	3,500

Non-Potable Operations

GL Account *	Notes	2021
7344- General 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 the amount of maintenance needed.	15,000
7346- Street & Traffic Repair and Maintenance Supplies		2,100
7348- Plant Materials		500
7362- Small Items Of Equipment \$100 - \$5,000	Weed eater, grass edger, new trash pump,	11,300
7411- Postage	Miscellaneous mailings	100
7424- In-House Copying		1,500
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues		500
7441- Electric	Based on incrs & 12mo rolling avg	294,020
7442- Water/Sewer/Stormwater	Based on incrs & 12mo rolling avg	1,002
7444- Natural Gas	Based on incrs & 12mo rolling avg	1,681
7445- Telephone	Cost for 8 cell phones average monthly cost of \$70 per phone	8,200
7446- Other Utility	Based on incrs & 12mo rolling avg	1,500
7458- Other Professional Services - White collar	100	1,000
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance:	21,166
7465- Grounds		500
7466- Buildings		2,000
7469- Other Repair Maintenance Services	Contract to repair pumps and programmable logic controllers at all 38 pump stations, also to cover asphalt repair costs. Added 20 Parks sites.	8,553
7478- Registration	Three FTE's to pump and filter training classes.	5,000
7496- Other Purchased Services - Blue Collar	Proportional cost for utility locating request. The utility notification center of colorado currently charges \$1.61 per request.	12,000
7631- Rent	Annual lease on 92 gas detectors used for confined space entry.	4,500
		689,471

Instrumentation and Control

GL Account *	Notes	2021
7111- Regular Employees		446,660
7121- Overtime-Regular	I&C Techs for standby and emergencies	20,600
7211- Disability		2,593
7212- Health		72,968
7213- Life		1,330
7214- Dental		2,374
7215- Workers Compensation		9,604
7221- General Employees		17,867
7227- 401K		8,576
7231- FICA		27,690
7234- Medicare		6,480
7314- Office Supplies & Materials	Copy paper etc.	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.	4,000
7329- Other Operating Supplies	Funds used for propane, batteries, cell phone accessories, oxygen & acetylene.	500
7333- Machinery, Vehicle & Equipment Parts		1,500
7338- Water,Sewer,Irrigation Line Repair Parts	Parts used for transmission and distribution system appurtenances. Major areas are: hardware located in vaults throughout the entire transmission system; 22 pressure regulating stations located throughout the distribution system; parts for repairing plumbing, pumps, the sodium hyperchlorite dispensing systems at 3 reservoir complexes.	500
7344- General Maintenance Supplies		5,500
7362- Small Items Of Equipment \$100 - \$5,000		2,000
7424- In-House Copying	SCADA records	500
7426- Outside Printing		150
7432- Publications, Subscriptions, and Dues	Certification updates	200
7458- Other Professional Services - White collar	Satellite charges for VIASAT and GIT, costs transferred from HMR (5k) and Trans Res (1.2k). Annual SCADA support contracts: GE Digital by Graymatter (Timber Line). These expenses were previously paid out of various division budgets (Bellvue 6k, Boyd 6k, Water Admin 2.4k, HMR 2.4k, Trans Res 3.6k, Non Pot 3.6k). Division budgets reduced and costs moved here starting 2021.	30,200

Instrumentation and Control

GL Account *	Notes	2021
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.	2,000
7466- Buildings	Bldg. service and repair for new I&C office	500
7469- Other Repair Maintenance Services		1,000
7478- Registration	Registration fees for AWWA. Also for advanced electrical & instrumentation training. Required to attend class on new equipment installed at the treatment plants.	4,650
7496- Other Purchased Services - Blue Collar	Instructional advice received about the maintenance of new equipment installed at the treatment plants.	1,500
7631- Rent	Rental charges of misc. equipment on tools.	500
		672,442

Water Resources

GL Account *	Notes	2021
7111- Regular Employees		1,042,596
7112- Salaries & Wages - Seasonal	GIS support (Lisa) for water budgets and other WR priorities	60,000
7121- Overtime-Regular		1,500
7211- Disability		6,045
7212- Health		134,516
7213- Life		3,056
7214- Dental		4,378
7215- Workers Compensation		13,481
7215- Workers Compensation	Seasonal Workers Comp	500
7221- General Employees		41,702
7227- 401K		20,020
7231- FICA		64,641
7231- FICA	Seasonal FICA	3,720
7234- Medicare		15,118
7234- Medicare	Seasonal Medicare	870
7314- Office Supplies & Materials		500
7325- Clothing And Uniforms		2,000
7328- Fleet Fuel	Budgeted by Fleet	642
7329- Other Operating Supplies	Water quality bottles, batteries, tags, labels, etc..	3,500
7362- Small Items Of Equipment \$100 - \$5,000		7,000
7418- Advertising		1,000
7432- Publications, Subscriptions, and Dues	Publications associated with water resources	9,000
7445- Telephone	Cellular costs	6,000
7452- Legal	Legal cost associated with water rights defense and other water resources related projects.	301,000
7455- Architectural/Engineering	Projects related to protecting existing water supplies and evaluating new water supplies.	281,500
7458- Other Professional Services - White collar		3,000
7472- Hotel & Motel		4,000
7473- Meals		1,000
7474- Air Travel		2,000
7475- Mileage		5,000
7477- Other Travel		4,500
7478- Registration	Training includes irrigation 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
7496- Other Purchased Services - Blue Collar	flow studies, environmental impact statement analysis, and water quality ditch sampling.	8,000

Water Resources

GL Account *	Notes	2021
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).	2,920,000
7811- Grants-Outside Public Agency	Regional collaboration, sponsorships	9,026
		5,000,811

Bellvue Filter Plant

GL Account *	Notes	2021
7111- Regular Employees		542,560
7112- Salaries & Wages - Seasonal	Two seasonals. Seasonals will be used to train and recruit new plant operators	63,648
7121- Overtime-Regular		10,300
7211- Disability		3,146
7212- Health		93,906
7213- Life		1,616
7214- Dental		3,056
7215- Workers Compensation		11,665
7215- Workers Compensation	Seasonal Workers Comp	1,566
7221- General Employees		21,699
7227- 401K		10,416
7231- FICA		33,635
7231- FICA	Seasonal FICA	3,224
7234- Medicare		7,870
7234- Medicare	Seasonal Medicare	791
7314- Office Supplies & Materials		500
7321- Medical/Chemical	Alum, polymer feeds, fluoride, CL2 NAOH, all same price /4% inflation. 2021 increase due to higher cost and delivery expenses as well as an additional \$20,000 annually added in 2021/2022 for anthracite coal.	816,000
7325- Clothing And Uniforms	Allocated \$800/employee (boots/clothing) Purchasing new safety equipment for TB1.	8,000
7328- Fleet Fuel	Budgeted by Fleet	3,783
7329- Other Operating Supplies	Adjusted to reflect actual expenses.	5,000
7333- Machinery, Vehicle & Equipment Parts	Preemptively preparing for parts and maintenance with TB1, and adjusted to reflect actual expenses.	24,000
7338- Water,Sewer,Irrigation Line Repair Parts	Adjusted to reflect actual expenses.	3,000
7344- General Maintenance Supplies	Rebuild cop kits in pulsafeders and Vogelsang rebuilds. Adjusted by \$35K for 2021 due to TB1 needs first year of production.	35,000
7348- Plant Materials		250
7362- Small Items Of Equipment \$100 - \$5,000	Need 2 solatax (turbidity) sensors at \$4k/ea, stream sensor at \$2K and adjusted increase includes TB1 needs.	16,000
7411- Postage		100
7418- Advertising	2 ads in AWWA (\$500/each)	1,000
7424- In-House Copying		350
7426- Outside Printing		150
7432- Publications, Subscriptions, and Dues	technical manuals ands publications for plant operators	1,000
7441- Electric	5% per year increase is industry standard. Adjust increase reflects new compressors in TB1 pulling more power and use.	110,943

Bellvue Filter Plant

GL Account *	Notes	2021
7444- Natural Gas	2% inflation. Increase reflects anticipated cost of heating and cooling new TB1 building.	15,214
7445- Telephone	I phones for all staff. Two new aircards for Lucy/Cityworks software and Instrumentation tablet.	15,000
7446- Other Utility	Trash and recycling services	2,500
7458- Other Professional Services - White collar	In 2021 \$6k SCADA support contract costs (Timberline) were moved to I&C Budget	4,000
7461- Machine, Vehicle, Equipment		6,500
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	10,630
7468- Streets, Roads, Traffic Lights		500
7469- Other Repair Maintenance Services	Increased security equipment costs and prox card system upgrades. Need more security cameras and alarm system for all campus and new TB1. Adding hatch alarms to remote hatches	1,000
7472- Hotel & Motel		1,000
7473- Meals		500
7475- Mileage		500
7478- Registration	\$1000/employee training	4,278
7496- Other Purchased Services - Blue Collar	Sludge hauling costs-assuming Tier 1 with increased residuals expected, Increased cost and outside lab testing, >30pCi is not accepted by Larimer county landfill inturn hauling costs are greater. 2019 saw no residuals hauled off site.	99,000
7631- Rent	tent, chair and table rentals for summer tours	3,000
		1,997,796

High Mountain Reservoirs

GL Account *	Notes	2021
7111- Regular Employees		233,089
7112- Salaries & Wages - Seasonal	Increased to include Fire Mitigation Seasonal Crew for HMR tree removal in addition to regular HMR Seasonal Rate \$15/hr	40,351
7112- Salaries & Wages - Seasonal	Fire Mitigation Seasonal Crew in GL 9001	(23,460)
7121- Overtime-Regular		5,364
7211- Disability		1,352
7212- Health		38,070
7213- Life		693
7214- Dental		1,239
7215- Workers Compensation		5,011
7215- Workers Compensation		500
7221- General Employees		9,323
7227- 401K		4,476
7231- FICA		14,451
7231- FICA		1,047
7234- Medicare		3,379
7234- Medicare		245
7314- Office Supplies & Materials		500
7321- Medical/Chemical		300
7325- Clothing And Uniforms		1,240
7328- Fleet Fuel	Fleet Fuel - Original Budget	11,768
7329- Other Operating Supplies		3,000
7333- Machinery, Vehicle & Equipment Parts	HMR when capable repairs and maintains 3 pickups, 1 tandem dump truck, rubber tired loader, track dozer, snowmobiles, trailers, 4 wheelers, chainsaws, and other equipment and supplies. doing all oil changes basic repairs on all equipment.	35,829
7344- General Maintenance Supplies	HMR division maintains 6 high moutnain reservoirs, 3 cabins and utilizes all supplies related to the care and maintenance of said structures.	27,000
7346- Street & Traffic Repair and Maintenance Supplies		450
7362- Small Items Of Equipment \$100 - \$5,000		12,600
7411- Postage		100
7426- Outside Printing		300
7432- Publications, Subscriptions, and Dues		300
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	28,509
7442- Water/Sewer/Stormwater		591

High Mountain Reservoirs

GL Account *	Notes	2021
7445- Telephone	For commercial charges, cell phone charges and satellite phone charges.	8,916
7446- Other Utility	Based on incrs & 12mo rolling avg	2,000
7458- Other Professional Services - White collar	Charges for hmr telemetry on outlets, dams (piezometers), staff gauges.	7,600
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance: vehicles and equipment	14,264
7496- Other Purchased Services - Blue Collar	2020 Supplemental Request - Greeley Farm Maintenance and Upkeep	1,000
7631- Rent	Equipment rental of backhoes, trenchers, and other equipment to open and maintain Greeley's water rights.	10,557
9001- General Fund	Fire Mitigation Seasonal Crew in General Fund	23,000
		524,954

Water Conservation

GL Account *	Notes	2021
7111- Regular Employees		290,600
7112- Salaries & Wages - Seasonal		48,000
7121- Overtime-Regular	Overtime for Conservation Coordinator, Marketing Technician for after hours events and meetings.	6,180
7211- Disability		1,685
7212- Health		50,760
7213- Life		865
7214- Dental		1,652
7215- Workers Compensation		3,152
7221- General Employees		11,623
7227- 401K		5,582
7231- FICA		18,018
7234- Medicare		4,216
7314- Office Supplies & Materials		1,000
7325- Clothing And Uniforms		750
7328- Fleet Fuel	Fleet Fuel - Original Budget	53
7329- Other Operating Supplies		20,000
7333- Machinery, Vehicle & Equipment Parts		100
7338- Water,Sewer,Irrigation Line Repair Parts	2021 irrigation system in the parking lot at 1100 10th street. 2022 Irrigation system at the garden. 2021 Service Level Reset Scenario A (-\$10,000)	15,000
7344- General Maintenance Supplies		3,000
7348- Plant Materials		7,500
7362- Small Items Of Equipment \$100 - \$5,000		3,000
7411- Postage		750
7418- Advertising		45,000
7426- Outside Printing		10,000
7432- Publications, Subscriptions, and Dues		8,000
7445- Telephone		5,000
7455- Architectural/Engineering	Garden in a Box Program costs; Annual WaterSmart payment moved from Architectural and Engineering to Other Professional	30,000
7458- Other Professional Services - White collar		10,000
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	4,341
7465- Grounds		913
7472- Hotel & Motel		1,500
7475- Mileage		2,000
7477- Other Travel		1,000
7478- Registration		3,500
7496- Other Purchased Services - Blue Collar		5,000
7631- Rent		4,000
7693- Rebates		90,000
7811- Grants-Outside Public Agency	Incentives for more xeric demo gardens in public places that may not fit Cash for grass	8,000
		721,740

Boyd Lake Filter Plant

GL Account *	Notes	2021
7111- Regular Employees		552,532
7112- Salaries & Wages - Seasonal	3 seasonals	67,320
7121- Overtime-Regular	Occasional OT for plant maintenance	7,210
7211- Disability		3,203
7212- Health		101,520
7213- Life		1,649
7214- Dental		3,304
7215- Workers Compensation		10,904
7215- Workers Compensation	Seasonal Workers Comp	1,656
7221- General Employees		22,100
7227- 401K		10,609
7231- FICA		34,254
7231- FICA	Seasonal FICA	3,410
7234- Medicare		8,013
7234- Medicare	Seasonal Medicare	837
7314- Office Supplies & Materials	purchasing coffee and supplies at plant	750
7321- Medical/Chemical	\$250,000 added in 2021 for liquid oxygen	855,349
7325- Clothing And Uniforms	\$800/employee/year/ = pants, shirts, boots , gloves, hat, light jacket. Winter coat as needed. (Safety equipment for staff and operational clothing) For 10 staff members	8,000
7328- Fleet Fuel	Budgeted by Fleet	6,578
7329- Other Operating Supplies	increase of maintenance items and grease	8,000
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.	12,500
7338- Water,Sewer,Irrigation Line Repair Parts		1,000
7344- General 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.	25,500
7348- Plant Materials		500
7362- Small Items Of Equipment \$100 - \$5,000	Replacement of ground maintenance equipment, sump pumps, power tools, shop equipment and tools. Adjusted to reflect actual expenses and needs.	14,000
7411- Postage		500
7418- Advertising	Job advertisements	1,000
7424- In-House Copying	Includes Boyd copier rental	500
7432- Publications, Subscriptions, and Dues	Water treatment books and study/training material	500

Boyd Lake Filter Plant

GL Account *	Notes	2021
7441- Electric	Budgeted by Finance "based on incrs & 12mo rolling avg"	231,766
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"	3,384
7445- Telephone	3 tablet cards 2 cell phones	5,500
7446- Other Utility	trash service increase in price	2,000
7458- Other Professional Services - White collar	In 2021 \$6k SCADA support contract costs (Timberline) were moved to I&C Budget	2,500
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 (502)	Budgeted by Equipment Maintenance	11,641
7466- Buildings		1,000
7472- Hotel & Motel	Assuming 8 nights- moved \$600 form line 7478 for conference.	1,200
7473- Meals	Approximately 14 days of per diem. More meetings planned for plant and attendees. Moved \$600 from 7478 for conference.	1,800
7475- Mileage	Staff to attend trainings . Moved \$500 from 7478 for RMSAWWA conference.	1,800
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).	7,400
7496- Other Purchased Services - Blue Collar	Sludge hauling costs-assuming Tier 2 sludge. To file more testing with outside labs and need more hauling.	135,000
7631- Rent	Increase to reflect rental of tents, chairs, tables for summer tours.	3,000
		2,174,689

Water Quality

GL Account *	Notes	2021
7362- Small Items Of Equipment \$100 - \$5,000	WQRC set up for distribution sampling for Regulation 11 regulatory work. Includes field equipment for unit and seasonal laborers, (residual testing kits, colorimeters, GPS, DO/pH/TDS probes, temp readers, coolers, equipment containers, total coliform bottles, DBP bottles)	10,000
7452- Legal	Provide outside assistance on regulatory matters when in-house counsel is needed and unavailable	33,950
7455- Architectural/Engineering	This includes costs associated with the Big Thompson Watershed Forum, Brown & Caldwell Engineers, Leonard Rice Engineering, and additional money for AE expenses per Sean	300,000
7458- Other Professional Services - White collar	Laboratory services for lead & copper, total coliform and disinfection by-products	40,000
7496- Other Purchased Services - Blue Collar		1,500
		385,450



Fund 401
Sewer Operating

Sewer Engineering

GL Account *	Notes	2021
7111- Regular Employees		280,987
7211- Disability		1,630
7212- Health		35,532
7213- Life		824
7214- Dental		1,157
7215- Workers Compensation		2,433
7221- General Employees		11,240
7227- 401K		5,394
7231- FICA		17,421
7234- Medicare		4,073
7314- Office Supplies & Materials		100
7325- Clothing And Uniforms		200
7329- Other Operating Supplies		200
7362- Small Items Of Equipment \$100 - \$5,000		500
7411- Postage		100
7418- Advertising		200
7426- Outside Printing		100
7432- Publications, Subscriptions, and Dues		19,900
7445- Telephone		900
7458- Other Professional Services - White collar		6,000
7472- Hotel & Motel	Adjusting to include training costs for 2 new engineers	1,500
7473- Meals	Adjusting to include training costs for 2 new engineers	500
7474- Air Travel	Adjusting to include training costs for 2 new engineers	500
7475- Mileage	Adjusting to include training costs for 2 new engineers	100
7478- Registration		1,000
		392,491

Sewer Administration

GL Account *	Notes	2021
7111- Regular Employees		219,510
7211- Disability		1,272
7212- Health		22,846
7213- Life		638
7214- Dental		749
7215- Workers Compensation		239
7221- General Employees		8,783
7227- 401K		4,216
7231- FICA		13,610
7234- Medicare		3,182
7329- Other Operating Supplies		100
7411- Postage		100
7432- Publications, Subscriptions, and Dues		500
7445- Telephone		3,000
7458- Other Professional Services - White collar	Professional services related to rate model development	17,005
7478- Registration	AWWA compliance refresher course (approx. \$500), Rocky Mtn WW Assoc seminar (approx. \$500), AWWA Rate course (\$500)	1,000
7655- Bank/Investment Charges	Merchant Fees & bank charges on CC transactions @ \$6,660/MO, This has increased significantly due to increased online utility payments	80,000
		376,750

WTRF Administration

GL Account *	Notes	2021
7111- Regular Employees		672,764
7112- Salaries & Wages - Seasonal	Plant Intern(s)	15,300
7211- Disability		3,904
7212- Health		101,520
7213- Life		1,987
7214- Dental		3,304
7215- Workers Compensation		12,097
7215- Workers Compensation	Seasonal Workers Comp	376
7221- General Employees		26,910
7227- 401K		12,914
7231- FICA		41,710
7231- FICA	Seasonal FICA	774
7234- Medicare		9,756
7234- Medicare	Seasonal Medicare	190
7314- Office Supplies & Materials		1,520
7321- Medical/Chemical	UV germicide replacement bulbs for offices and meeting rooms; first aid kits.	1,000
7325- Clothing And Uniforms	20 uniformed employees @ \$800 allotment for jeans, shirts, jackets, sweatshirts, coveralls, lab coats, etc. Increased budget due to under budgeting in 2018 and higher clothing costs. Amount per employee increased to align with other departments in Water and Sewer.	5,000
7328- Fleet Fuel	Budgeted by Fleet	409
7329- Other Operating Supplies	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.	5,000
7344- General Maintenance Supplies	Miscellaneous supplies for admin. staff.	500
7362- Small Items Of Equipment \$100 - \$5,000	2019: Weather station sensor replacement, 2 office 24" monitors; weather station's misc. components; 1 new office chair. 2020: weather station sensor replacement, weather station's misc. components; two new office chairs. Each year, one replacement computer, \$900.	2,500
7411- Postage	For certified letters to state, EPA, customers.	50
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.	500

WTRF Administration

GL Account *	Notes	2021
7432- Publications, Subscriptions, and Dues	WEF dues for 2 employees, Water Research Foundation (WRF) annual dues, Colorado Wastewater Utility Council (WWUC) annual dues, Colorado Monitoring Framework (CMF) annual dues, National Registry of Environmental Professionals (NREP) annual dues. 2019 & 2020- each year one operator certification renewal. New replacement pamphlets, DVD's, brochures, display boards, etc. for public education & outreach program for each year.	14,000
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
7458- Other Professional Services - White collar	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. Additional licensing for Allmax/Antero software in 2020.	13,363
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	887
7466- Buildings	Costs for general maintenance of Admin bldg. such as carpet cleaning. Facilities cost estimate provided in 2019.	900
7469- Other Repair Maintenance Services	Vacuum and misc. office equipment repairs.	500
7472- Hotel & 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.	3,000

WTRF Administration

GL Account *	Notes	2021
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	1,000
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	2019-2020: Roundtrip shuttle fees when attending WEFTEC 2021 in Chicago, IL, and 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.	300
7478- Registration	2021: 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	3,500
7496- Other Purchased Services - Blue Collar	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.	40,000
		1,008,135

WTRF Laboratory

GL Account *	Notes	2021
7111- Regular Employees		164,164
7211- Disability		951
7212- Health		25,380
7213- Life		485
7214- Dental		826
7215- Workers Compensation		3,102
7221- General Employees		6,566
7227- 401K		3,152
7231- FICA		10,179
7234- Medicare		2,381
7314- Office Supplies & Materials	Pens, pencils, folders, binders, labels, clipboards, etc. for lab.	150
7321- Medical/Chemical	The increase is due to under budgeting in 2019, and a new anticipated CDPS plant discharge permit which requires more water quality analyses being performed, adding \$3000 for additional 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.	16,000
7325- Clothing And Uniforms	The increase is due to under budgeting in 2019. Waders for river work, work gloves, clean metals sampling suits, safety glasses.	1,250
7329- Other Operating Supplies	Batteries, calendars & refills, items under \$100.	350
7333- Machinery, Vehicle & Equipment Parts	Testing and parts for lab equipment.	-
7344- General Maintenance Supplies	Cleaning and routine maintenance supplies for the lab.	547
7362- Small Items Of Equipment \$100 - \$5,000	The increase is due to a new anticipated CDPS plant discharge permit requiring more water quality analyses. Laboratory and field instruments, LBOD probe, computer software upgrades, lab chair, river monitoring equipment, digital buret, research pipettes, E.coli , laboratory probes, sample refrigerator, BOD incubator, analytical balance..	12,000
7411- Postage	Postage for lab mailings.	75
7426- Outside Printing	Business cards for lab staff.	-

WTRF Laboratory

GL Account *	Notes	2021
7432- Publications, Subscriptions, and Dues	Standard methods, lab manuals, professional publications & newsletters, membership fees for professional organizations, analysts and operator's license renewals.	500
7458- Other Professional Services - White collar	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. We did not get the bill early enough to pay for 2019 so it will be payed in 2020.	4,400
7461- Machine, Vehicle, Equipment	Analytical balance calibrations, repair and maintenance of laboratory equipment, sample refrigerator, incubators, ovens, autoclaves, centrifuges. No major repairs were required in 2019.	700
7472- Hotel & Motel	Increase is due to under budgeting in 2019. 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	The increase is due to under budgeting in 2019. 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	The increase is due to under budgeting in 2019. 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.	30

WTRF Laboratory

GL Account *	Notes	2021
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. Under budgeted in 2019.	1,700
7496- Other Purchased Services - Blue Collar	The increase is due to a new anticipated CDPS plant discharge permit which will require more water quality analyses. There will also be an increase in sites for river monitoring to perform fish and benthic studies. Biomonitoring (extra funds must always be available if sample failure 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.	50,000
7631- Rent	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
		308,288

WTRF Maintenance

GL Account *	Notes	2021
7111- Regular Employees		352,463
7121- Overtime-Regular	Budget is to help offset employee comp time accruals and upcoming maintenance mechanic retirements.	4,635
7211- Disability		2,042
7212- Health		63,450
7213- Life		1,054
7214- Dental		2,065
7215- Workers Compensation		6,662
7221- General Employees		14,096
7227- 401K		6,764
7231- FICA		21,850
7234- Medicare		5,114
7314- Office Supplies & Materials	Office supplies for maintenance staff. Will need new chairs and furniture in 2021.	1,300
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 other yr (2019; 2021). Increase in 2021 is due to purchase of media for the gas scrubber.	57,767
7325- Clothing And Uniforms	Arc flash safety items for both 2020 and 2021. Safety boots. Prescription Safety/impact glasses. Rubber boots/rain gear. Work gloves/25 pairs; hearing protection.	2,470
7328- Fleet Fuel	Budgeted by Fleet	2,393
7329- Other Operating Supplies	Misc batteries for plant use. Batteries for SCADA UPS systems, change 3 units per year. Golf cart batteries, backup generators, 2 batteries each x one generator per year. Increase due to golf cart and generator batteries. SCADA pjct estimating to have up to 6 additional batteries. Efforts to standardize. Annual replacement on all batteries should occur, increased.	5,000

WTRF Maintenance

GL Account *	Notes	2021
7333- Machinery, Vehicle & Equipment Parts	<p>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.</p>	66,570
7338- Water,Sewer,Irrigation Line Repair Parts	<p>Sprinkler heads 50 ea. Pipe; miscellaneous pipe. Cleanouts for project lines.</p>	1,600
7344- General Maintenance Supplies	<p>Bottled 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. Valves, vibration analyzers, pressure gauges. Electrical: breakers, contactors, enclosures, fuses. Programmable controller cards for plant racks. HVAC filters for air handlers. Air filters for 3 Turbo blowers 15 ea x 3 blowers. Floormats for all buildings. New signage for plant. Underbudgeted in 2019. Electrical wires - misc</p>	60,000
7348- Plant Materials	<p>Mulch, tree and plant replacements, rock for plant grounds</p>	1,000
7362- Small Items Of Equipment \$100 - \$5,000	<p>Replace flow/level meters – 6 ea/yr. Each year, one new computer w/dual monitors, \$1,400. Pressure Transmitters. Poly Pumps. Chem Pumps. Solenoids for seal water, Chem systems. SCADA computer & TV monitor 2022.</p>	22,000
7411- Postage	<p>Postage for mailings.</p>	220
7418- Advertising	<p>Advertising for new maintenance personnel.</p>	200
7432- Publications, Subscriptions, and Dues	<p>Safety handbooks and correspondence course materials. Maintenance/operations correspondance courses. WEF membership yearly dues. Two certifications renewals.</p>	1,500
7445- Telephone	<p>One cell phone for maintenance mechanic plus one for supervisor, including upgrades and accessories. Underbudgeted in 2018.</p>	1,200

WTRF Maintenance

GL Account *	Notes	2021
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.	4,800
7458- Other Professional Services - White collar	Programmable logic controller (PLC) programming. Testing and certification of plant breakers, medium voltage switches, power metering modules, six areas. Funds added to remove and dispose of the old media from gas scrubber unit in 2021. 3 programming efforts related to volute thickeners, CHAP, and TWAS pumps.	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.	30,000
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	5,628
7466- Buildings	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. Increase in 2021 is due to new signage for plant properties. Numerous HVAC units identified as non corrosion resistant and require replacement.	11,000
7468- Streets, Roads, Traffic Lights	Plant road maintenance. Crack sealing, seal coating, chip seal. Outside service for outdoor light pole repairs. South plant will need crack sealed in 2021.	6,500
7472- Hotel & Motel	In 2021 & 2022, 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	2021: RMWEA/RMSAWWA Annual Conference (Keystone, CO). 2022: RMWEA Annual Conference (Loveland, CO). Both years, service school. 2021 WEFTEC (Chicago). 2022. WEFTEC (New Orleans).	1,200
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 in 2021 & 2022.	250
7477- Other Travel	Shuttle, taxis when attending WEFTEC.	200

WTRF Maintenance

GL Account *	Notes	2021
7478- Registration	2021 & 2022: registration for pump service school in Ohio and Florida, various seminars in the local area required for training units. 2021 RMWEA/RMSAWWA Annual Conference (Keystone, CO) for two employee. Both years, registration for electrical safety training for OSHA qualified worker. 2021: Two full registrations for RMWEA Annual Conference (Loveland, CO); three employee one-day registrations. Increase is due to sending more mechanics to the RMWEA/RMSAWWA Annual Conferences.	5,500
7496- Other Purchased Services - Blue Collar	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 needed for 2020 due to State mandated water main vaults needing upgrades. Underbudgeted in 2017, 2018, 2019 & will be in 2020 also.	11,915
7631- Rent	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. 21-22 increases are contingencies for similar failures requiring emergency equipment.	7,000
		799,308

WTRF Operations

GL Account *	Notes	2021
7111- Regular Employees		548,069
7121- Overtime-Regular	Occasional overtime pay to help offset comp time accruals. Requesting additional funds due to wage increases and several pending employee retirements.	6,180
7211- Disability		3,178
7212- Health		101,520
7213- Life		1,638
7214- Dental		3,304
7215- Workers Compensation		10,561
7221- General Employees		21,920
7227- 401K		10,522
7231- FICA		33,979
7234- Medicare		7,947
7314- Office Supplies & Materials	Pens, pencils, binders, folders, etc. for operations.	350
7321- Medical/Chemical	Polymer for 2020 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.	518,899
7325- Clothing And Uniforms	Steel toe boots, prescription safety glasses, work gloves, ear plugs, rubber boots, rain gear, safety glasses (non-prescription). Increased PPE with construction projects and virus concerns.	2,500
7328- Fleet Fuel	Budgeted by Fleet	1,015
7329- Other Operating Supplies	Batteries, keys, flow chart recorder paper and pens, sludge coretakers, latex gloves 10 cases. Under budgeted in 2018.	2,500
7333- Machinery, Vehicle & Equipment Parts	Parts for operations vehicles, samplers, and lab equip., vehicle tires.	1,000
7344- General 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

WTRF Operations

GL Account *	Notes	2021
7362- 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. Workstation printer for operations office. Annex SCADA & workstation computers. Inserting additional dollars for instrumentation per nitrification project inline instrumentation upkeep. At 60%, actual cost will be defined by selection.	22,150
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, Water Enviro. Federation (WEF) membership for operations supervisor and senior plant operator A, Rocky Mountain Water Environment Association (RMWEA) memberships for 5 operators. Increased for expanded memberships allocated to lead operators.	1,500
7441- Electric	Adding a 5% increase per year. WPCF withdrew from Xcel Energy's ISOC program on Feb. 1, 2018 which is projected to increase plant's electrical costs by \$50K even with the recently installed energy-saving volute sludge thickeners. Expansion of unit processes to the facility - SB's, ABO, blower modification. Expected increased demand with contractors utilizing plant power.	515,075
7444- Natural Gas	Anticipated 5% increase per year. New two larger boilers have recently been installed. It is difficult to predict annual natural gas usage for the next two years.	25,527
7445- Telephone	Cell phone use for operations staff, 5 phones. Additional funding is being requested for replacement/upgrades/accessories. Addition of 2 lead operators in 2019. Previously under budgeted.	5,500
7461- Machine, Vehicle, Equipment	Service on John Deere gator vehicle by Three Rivers 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 (502)	Budgeted by Equipment Maintenance	1,185
7472- Hotel & 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

WTRF Operations

GL Account *	Notes	2021
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
7478- Registration	2020: Rocky Mtn. Water Environment Association (RMWEA) operator training-Feb, Denver, March-Golden, May-Denver Metro, June, PWO seminar, Greeley, June-activated sludge troubleshooting, Denver area, July-Leadville, RMWEA/RMSAWWA annual conference (Keystone, CO) September; WEFTEC (Chicago) for Operations Supervisor, October-Estes Park, November, bio solids annual conference (Ft. Collins). 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.	4,545
7496- Other Purchased Services - Blue Collar	A 5%/yr increase in costs for 2021 & 2022. Microscopic evaluations by Dr. Michael Richard 4x/year. UPS/FEDEX shipping charges. WW Operator license renewal for 4 operators. Increases from higher sludge volumes and resulting hauling costs.	191,121
7631- Rent	Gas Detector Rental Agreement. Under budgeted in 2018.	3,000
		2,058,658

Industrial Pre-Treatment

GL Account *	Notes	2021
7111- Regular Employees		170,697
7211- Disability		990
7212- Health		25,380
7213- Life		504
7214- Dental		826
7215- Workers Compensation		3,225
7221- General Employees		6,828
7227- 401K		3,276
7231- FICA		10,584
7234- Medicare		2,475
7314- Office Supplies & Materials	Supplies such as pens, paper file folders, office desk items, paper.	150
7321- Medical/Chemical	pH buffer solutions, Hach test reagents. Misc. chemical cleaners and acids; supplies for cleaning the pretreatment lab.	1,325
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.	1,000
7328- Fleet Fuel	Budgeted by Fleet	215
7329- Other Operating Supplies	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. Added a 5% increase in costs/year.	1,050
7333- Machinery, Vehicle & Equipment Parts	Various equipment parts for sampling and lab workstation in the industrial pretreatment vehicle.	1,330
7344- General Maintenance Supplies	Small tools, equipment and supplies for field repairs and sampling set-up.	400
7362- Small Items Of Equipment \$100 - \$5,000	misc. items for the pretreatment program.	1,800
7411- Postage	Classification mailings; Best Management Practices program mailings; misc. notices and orders.	100
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). Note: PSA's Not billed to IPP in 2019	3,000
7424- In-House Copying		400

Industrial Pre-Treatment

GL Account *	Notes	2021
7426- Outside Printing	Duplication of manuals, information pamphlets, printing of Best Management Practices participant window stickers.	300
7432- Publications, Subscriptions, and Dues	Pretreatment reference materials, CIPCA Pretreatment membership dues; Rocky Mtn. Water Environment Association's dues; operator certification renewal fees, Consortium for Research & Education on Emerging Contaminants (CREEC) annual membership fees.	600
7445- Telephone	Cell phone charges (including upgrade costs) for the pretreatment staff. Under budgeted in 2019	3,100
7458- Other Professional Services - White collar	Service contract for Linko industrial pretreatment program software. Service contract for Portalogic software (waste hauler's dump station controller).	5,000
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	678
7469- Other Repair Maintenance Services	Outside repair of industrial pretreatment sampling equipment or instrumentation.	500
7472- Hotel & 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
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
7496- Other Purchased Services - Blue Collar	Permit required compliance monitoring of Significant Industrial users (SIU's); CDPS permit required monitoring of WPCF influent and effluent, and local limits monitoring.	15,000
7631- Rent	Confined space gas detector lease; deionized water filter system lease for pretreatment clean room lab.	2,500

Industrial Pre-Treatment

GL Account *	Notes	2021
7811- Grants-Outside Public Agency	Funds distributed by the City to the Poudre Learning Center to assist them with the procurement of needed water testing supplies for the students.	1,000
		273,433

Sewer Collection

GL Account *	Notes	2021
7111- Regular Employees		654,416
7121- Overtime-Regular	Overtime for On-call, after hours emergency repairs, and in-house construction projects	25,420
7211- Disability		3,804
7212- Health		145,937
7213- Life		1,990
7214- Dental		4,752
7215- Workers Compensation		17,487
7221- General Employees		26,171
7227- 401K		12,568
7231- FICA		40,570
7234- Medicare		9,488
7314- Office Supplies & Materials		1,500
7321- Medical/Chemical	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.	10,000
7325- Clothing And Uniforms	Uniforms and PPE for 11 employees @ \$1200 this baseline is calculated on todays costs and needs.	13,200
7328- Fleet Fuel	Fleet Fuel - Original Budget	26,354
7329- Other Operating Supplies	Propane and batteries for radios, flash lights, locators, pagers, cell phones and gas monitors.	2,828
7333- Machinery, Vehicle & Equipment Parts	Parts for the repairs of equipment at 10 lift station, and 24 pieces of various equipment	35,500
7338- Water,Sewer,Irrigation Line Repair Parts	Parts and components used in the repair of sewer mains.	10,170
7344- General Maintenance Supplies	Supplies used to maintain 10 lift station, shop, and the WWC system. Electrical parts, locating paint, janitorial supplies and hand tools.	23,189
7346- Street & Traffic Repair and Maintenance Supplies	Supplies used in the repairs made to the system, flow fill, sand, rock concrete, and cold mix.	4,000
7348- Plant Materials		170
7362- Small Items Of Equipment \$100 - \$5,000	Confined space equipment, chop saws, specialized manhole lifting equipment	12,500
7411- Postage		100
7418- Advertising	Job advertising	300
7424- In-House Copying		1,000
7426- Outside Printing		300
7432- Publications, Subscriptions, and Dues	Publications, Subscriptions, and Dues will be reevaluated to reflect current budget.	1,000
7441- Electric	Electrical cost for operating 10 lift stations and the shop	53,820

Sewer Collection

GL Account *	Notes	2021
7442- Water/Sewer/Stormwater	Tbone lift station emergency overflow payments to Evans, stormwater charges for ww collections site; Based on incrs & 12mo rolling avg	47,218
7444- Natural Gas	Used for lift station emergency generator backup and heating the maintenance shop; Based on incrs & 12mo rolling avg	3,696
7445- Telephone	Cell phone service and laptop data plans	6,117
7446- Other Utility		500
7458- Other Professional Services - White collar		2,000
7461- Machine, Vehicle, Equipment	Outside contractor repairs on vehicles and pumps	14,000
7462- Equipment Maintenance Charges (502)	Budgeted by Equipment Maintenance	49,750
7465- Grounds		3,420
7466- Buildings	Annual maintenance for hvac system and misc. repairs and roof repairs.	5,000
7468- Streets, Roads, Traffic Lights	Asphalt patching	5,000
7469- Other Repair Maintenance Services		500
7473- Meals		500
7478- Registration	Training for operator certification testing and renewals	10,970
7496- Other Purchased Services - Blue Collar	Share of call tickets at 1.45 per request. 21-22 hire janitorial services@ collections, facility maintenance cant service WWC due to overload.	17,765
7631- Rent	Gas monitor lease and chemical application equipment at lift stations. There will no longer be a gas monitor lease, COG will purchase and maintain all equipment.	15,000
		1,319,970

Water and Sewer 2021 Budget and Proposed Water Rates

Water & Sewer Board | July 15, 2020



Agenda

- Capital
 - Review funds and major projects
- Operating
 - Review funds and supplemental requests
- Rates
 - Review proposed 2021 rate increases





2021 Capital Funds

- Water New Construction (405)
- Water Replacement and Rehabilitation (406)
- Water Acquisitions (407)
- Sewer New Construction (402)
- Sewer Replacement and Rehabilitation (403)

Water New Construction (Fund 405)

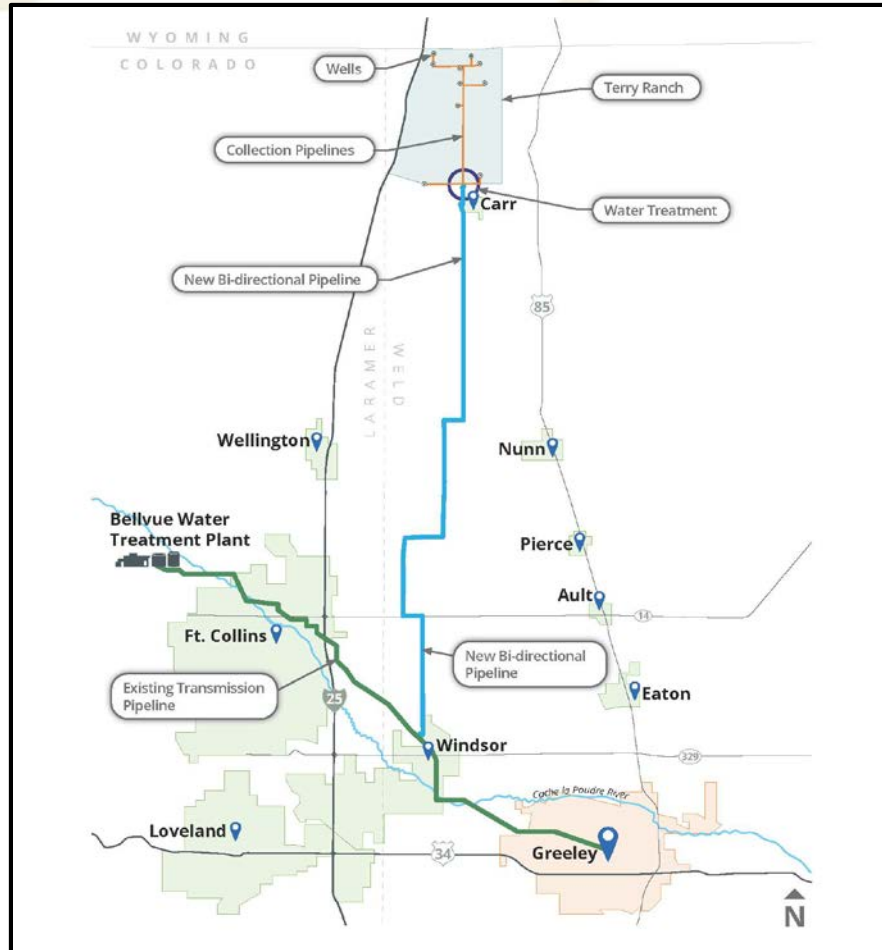
2021 Projects

Terry Ranch Water Development	\$ 2,020,000
35 th Avenue Non-Potable Waterline	1,601,000
Windy Gap Firming	720,000
35 th Avenue Waterline	600,000
Non-Potable Water System Expansion	500,000
Distribution Line Extension & Oversizing	115,100
Water Taps	75,000
New Construction Meters	54,500
Total:	\$ 5,685,600

- ✓ New construction
- ✓ System expansion
- Revenues:
 - Plant Investment Fees
 - Bonds



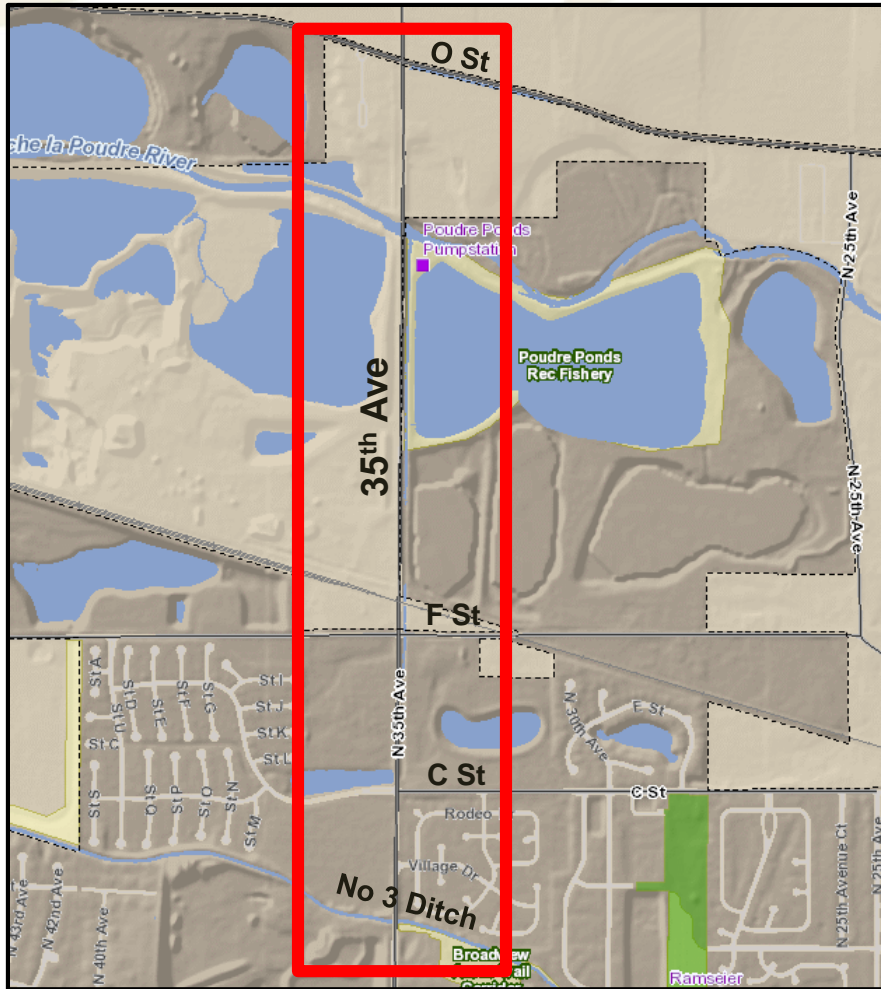
Terry Ranch Water Development



- 2021 Project Budget: \$2,020,000
- Ongoing project with increasing investment each year



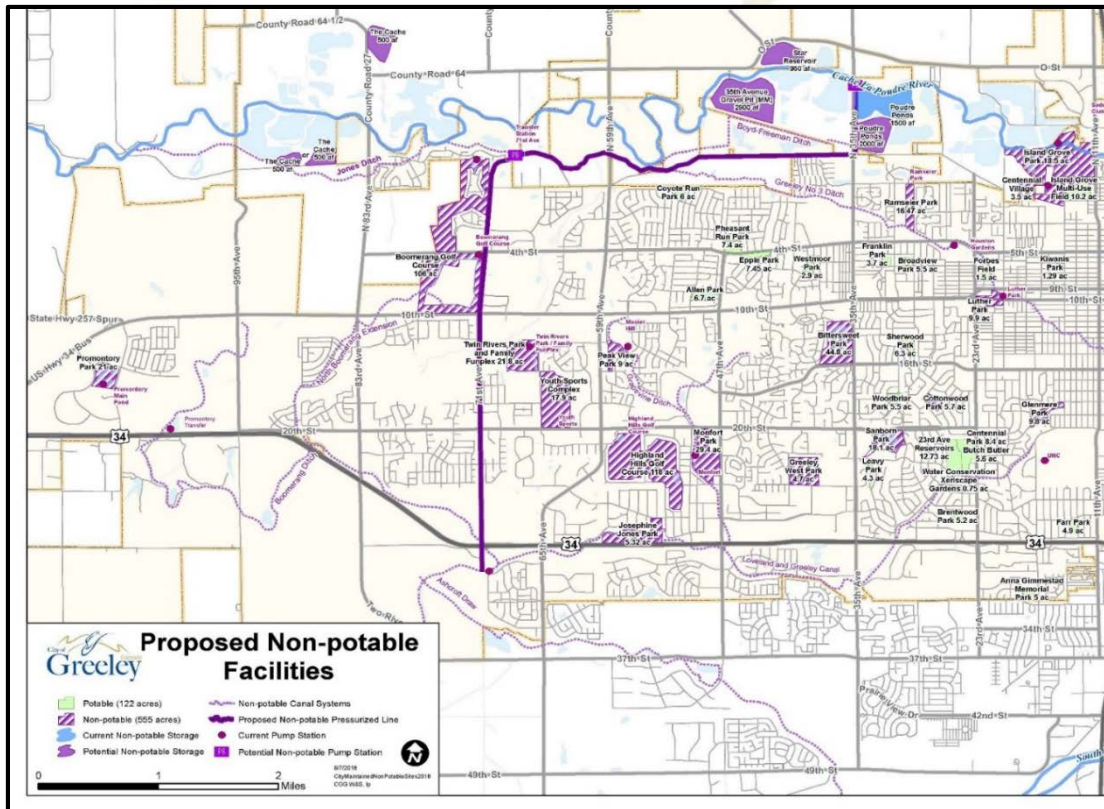
35th Avenue Waterlines



- 2021 Project Budgets:
 - Non-Potable: **\$1,601,000**
 - Potable: **\$600,000**
- ✓ Coordinate with Public Works



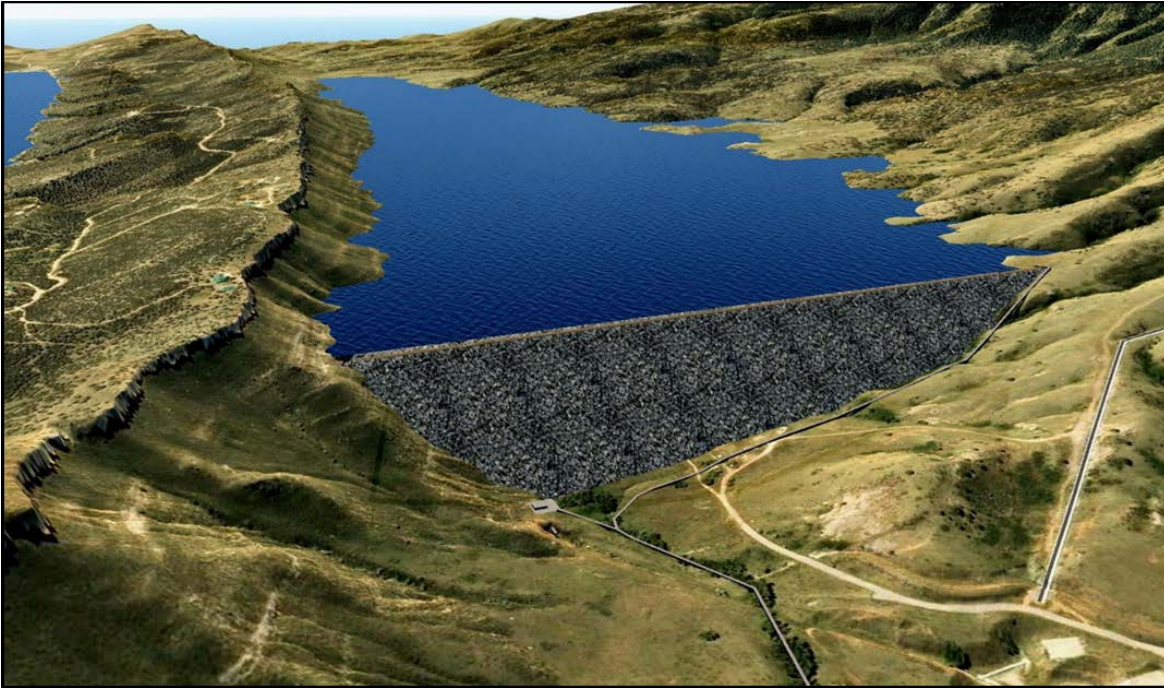
Non-Potable System Expansion



- 2021 Project Budget: \$500,000
- Annual system investment



Future Years – Windy Gap Firming



- 2022 Project Budget: \$56,200,000
- Greeley = 10% project share



Water Replacement/Rehab (Fund 406)

2021 Projects

W&S Facilities Program	\$ 5,000,510
Transmission System Rehab.	2,550,000
Advanced Metering Infrastructure (AMI)	1,930,000
Distribution Pipeline Replacements	1,800,883
Utility Billing Software Upgrade	1,320,000
Bellvue Needs Assessment	1,080,750
Non-Potable Replacement and Rehabilitation	808,000
Treated Water Reservoir Rehabilitation	568,000
SCADA Upgrades - Reservoir 23 & Non-Potable	522,400
Boyd Water Treatment Plant General Rehab.	480,000
Capital Outlay Replacement	405,000
Bellvue Water Treatment Plant General Rehab.	385,000
...continued next slide	

- ✓ System replacement
- Revenues:
 - Funded depreciation
 - Bonds



Water Replacement/Rehab (Fund 406)

2021 Projects - Continued

Bellvue WTP Sed Basin & Effluent Channel Repairs	\$ 375,000
Pleasant Valley Canal Lining	230,000
Instrumentation & Controls - Water	190,000
Risk & Resiliency Projects	134,200
Valve Replacement	100,000
Meter Replacement	100,000
Hourglass & Comanche Reservoir Rehabilitation	94,000
Fire Hydrant Replacement	77,000
Ancillary system Improvements	50,000
Suburban Ditch (Reservoir Road) Line Replacement	25,000
Total	\$ 18,225,743

- ✓ System replacement
- Revenues:
 - Bonds
 - Funded depreciation



Water and Sewer Facilities Program



- 2021 Project Budget: \$5,000,510*
- Preliminary budget estimate*
- ✓ Coordinate with Public Works

Transmission Line Rehabilitation



- 2021 Project Budget: \$2,550,000
- Annual maintenance program


Advanced Metering Infrastructure



- 2021 Project Budget: \$1,930,000
- Enhancing metering capabilities
- \$1.5 million Water Smart grant
- Multi-year project



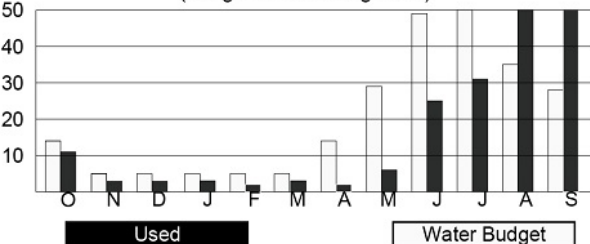
Utility Billing Upgrade



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	Used	Rate	Amount		
Persons in Household:	4	Irrigable Area:	7799			Water Budget (0% to 100%)	28	3.97	\$108.64		
METER INFORMATION						Inefficient Use (>100% to 130%)	9	4.85	\$42.66		
Meter ID	Date	Curr Read	Date	Prev Read	Usage	Excessive Use (>130% to 150%)	5	6.62	\$30.20		
97403425U	09/28	750	08/28	700	50	Unsustainable Use (>150%)	8	8.82	\$68.96		
						Base Charge			\$11.83		
CONSUMPTION HISTORY						BILLING SUMMARY					
(Usage in thousand gallons)						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	

- 2021 Project Budgets:
 Water: **\$1,320,000 (60%)**
 Sewer: **\$550,000 (25%)**
 Storm: **\$330,000 (15%)**



Water Acquisition (Fund 407)

2021 Projects

Future Water Acquisition	\$ 8,979,000
Integrated Water Resources Plan	215,500
New Cache/Larimer and Weld Change Case	75,000
Water Supply and Storage Change Case	75,000
Non-tributary Groundwater Change Case	75,000
Total	\$ 9,419,500

✓ Water resources

- Revenues:

- Bonds
- Cash in lieu



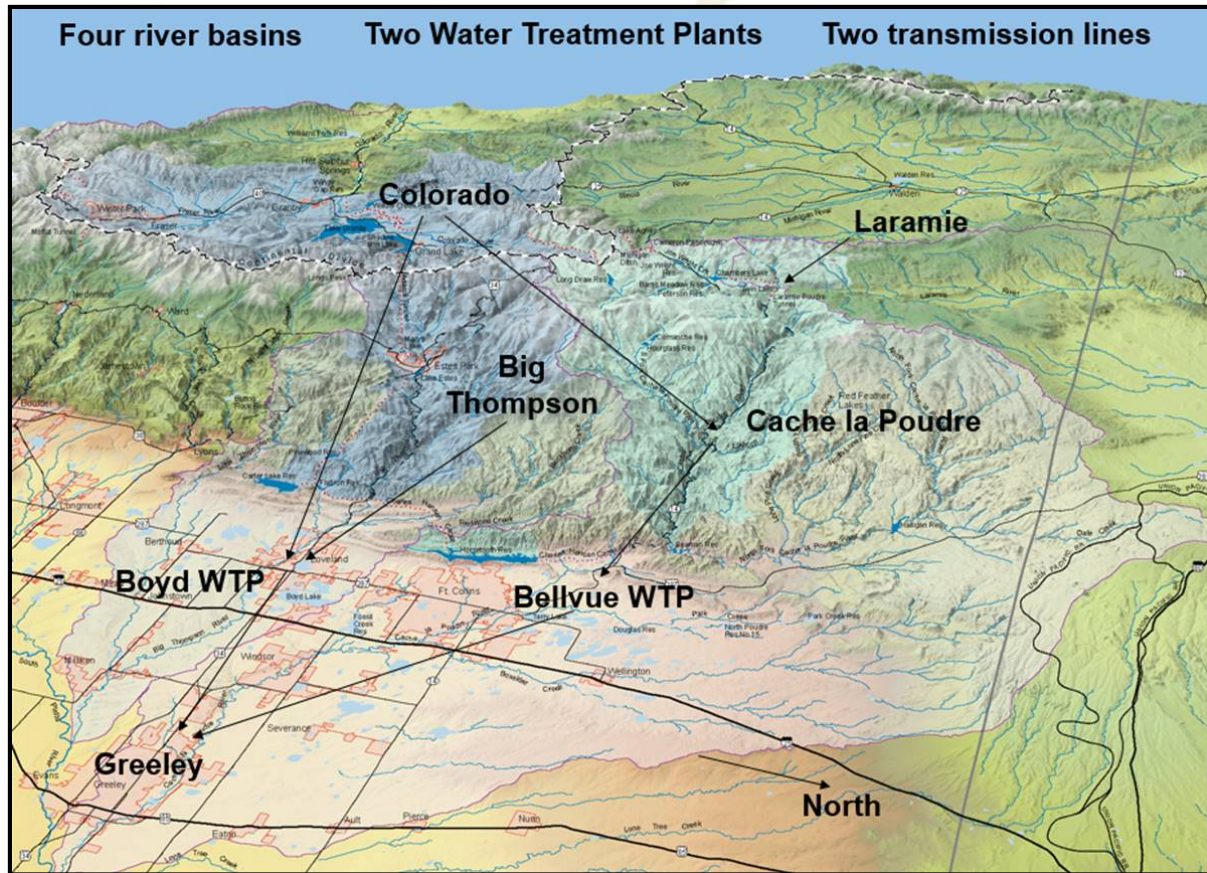
Future Water Acquisition Phase 2



- 2021 Project Budget: \$8,979,000
- Multi-year effort



Integrated Water Resources Plan



- Total Project Budget: \$578,000
- Multi-year project starting in 2021



Sewer New Construction (Fund 402)

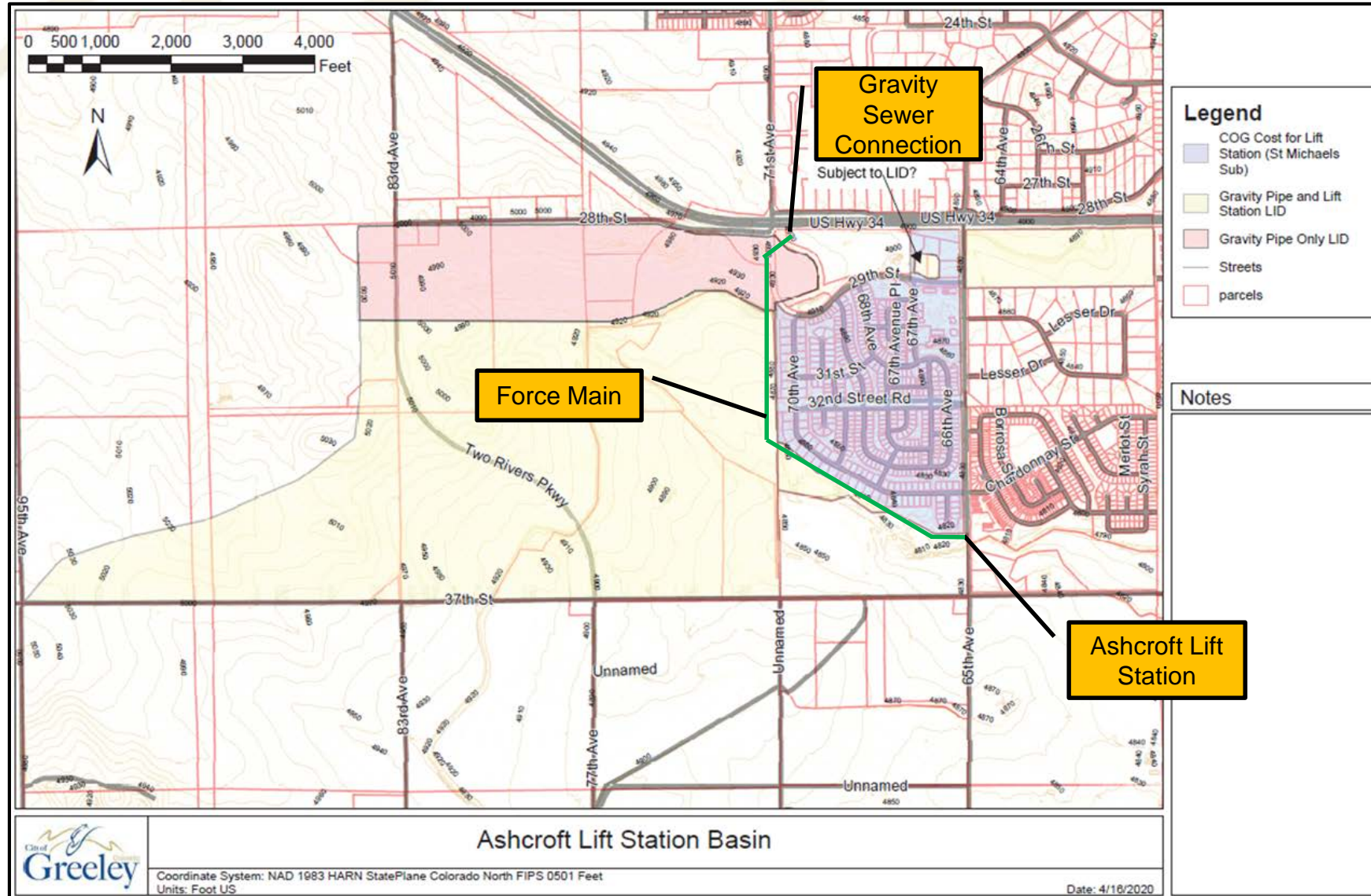
2021 Projects

Ashcroft Draw Lift Station	\$ 300,000
Additional Manholes and Sewer Taps	69,000
Total 2021 Projects	\$ 369,000

- ✓ New construction
- ✓ System expansion
- Revenues:
 - Plant Investment Fees
 - Bonds



Ashcroft Draw Lift Station



- Total Project Budget:
\$4,000,000
- Multi-Year project started in 2019



Sewer Replacement/Rehab (Fund 403)

2021 Projects

Nitrification Phase 2	\$ 33,987,000
WTRF Primary Treatment-Phase 2	2,660,000
35th Ave and F Street Sewer Capacity	1,220,000
General Rehabilitation Projects	880,200
WTRF Centrate Upgrades	760,000
Capital Outlay Replacement	570,000
Utility Billing Software Upgrade	550,000
Trenchless Main and Collector Rehab	520,000
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- ✓ System replacement
- Revenues:
 - Funded depreciation
 - Bonds



Sewer Replacement/Rehab (Fund 403)

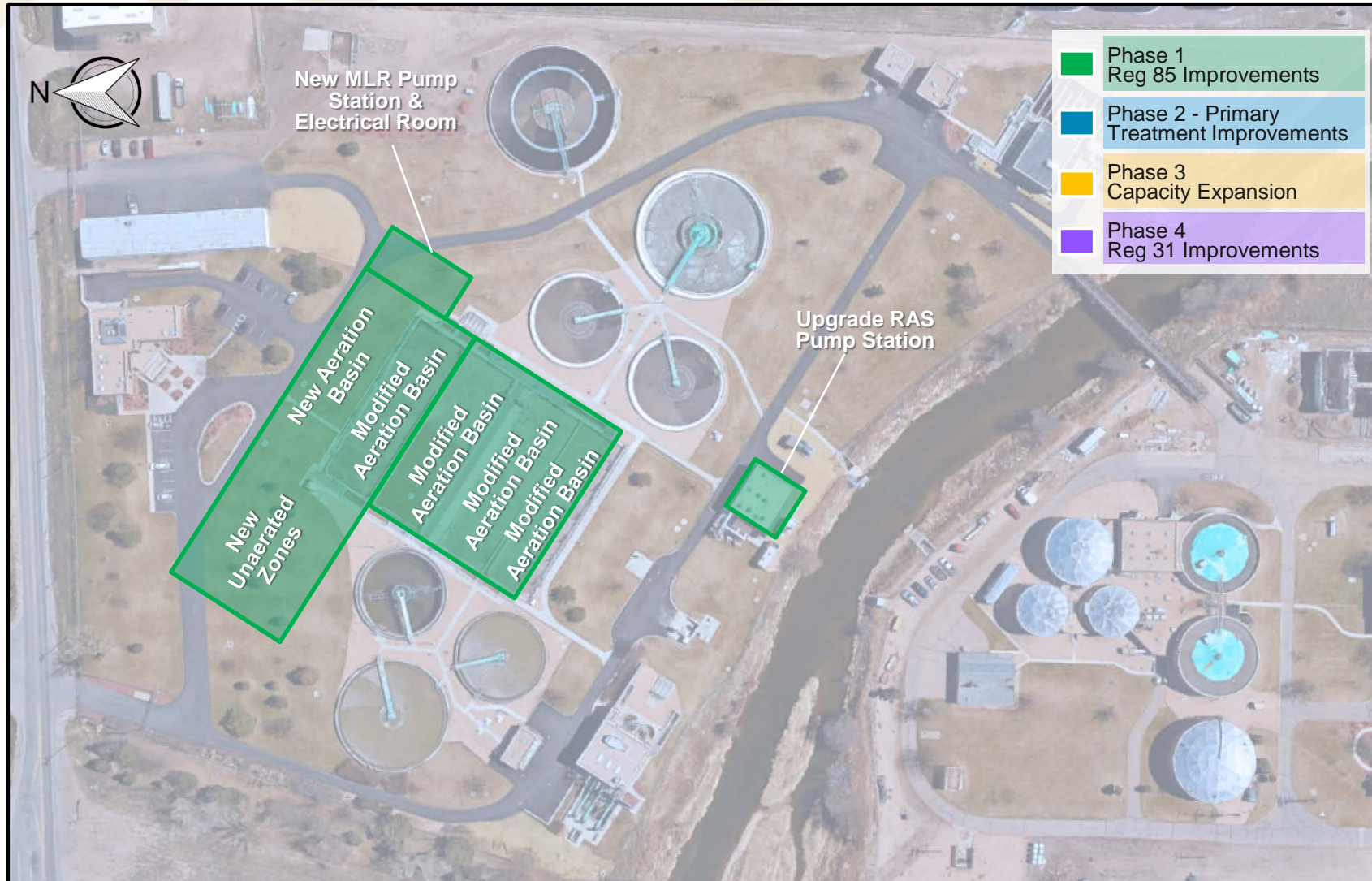
2021 Projects - Continued

WWC Sewer System Rehabilitation	\$ 310,000
Instrumentation & Controls - Wastewater	75,000
WTRF Stream Temperature Assessment	70,000
Sewer Collection System Rehabilitation	60,000
Wastewater Flow Monitoring Program	55,000
WTRF SCADA System Replacement	25,000
Total 2021 Projects	\$ 41,742,200

- ✓ System replacement
- Revenues:
 - Bonds
 - Funded depreciation



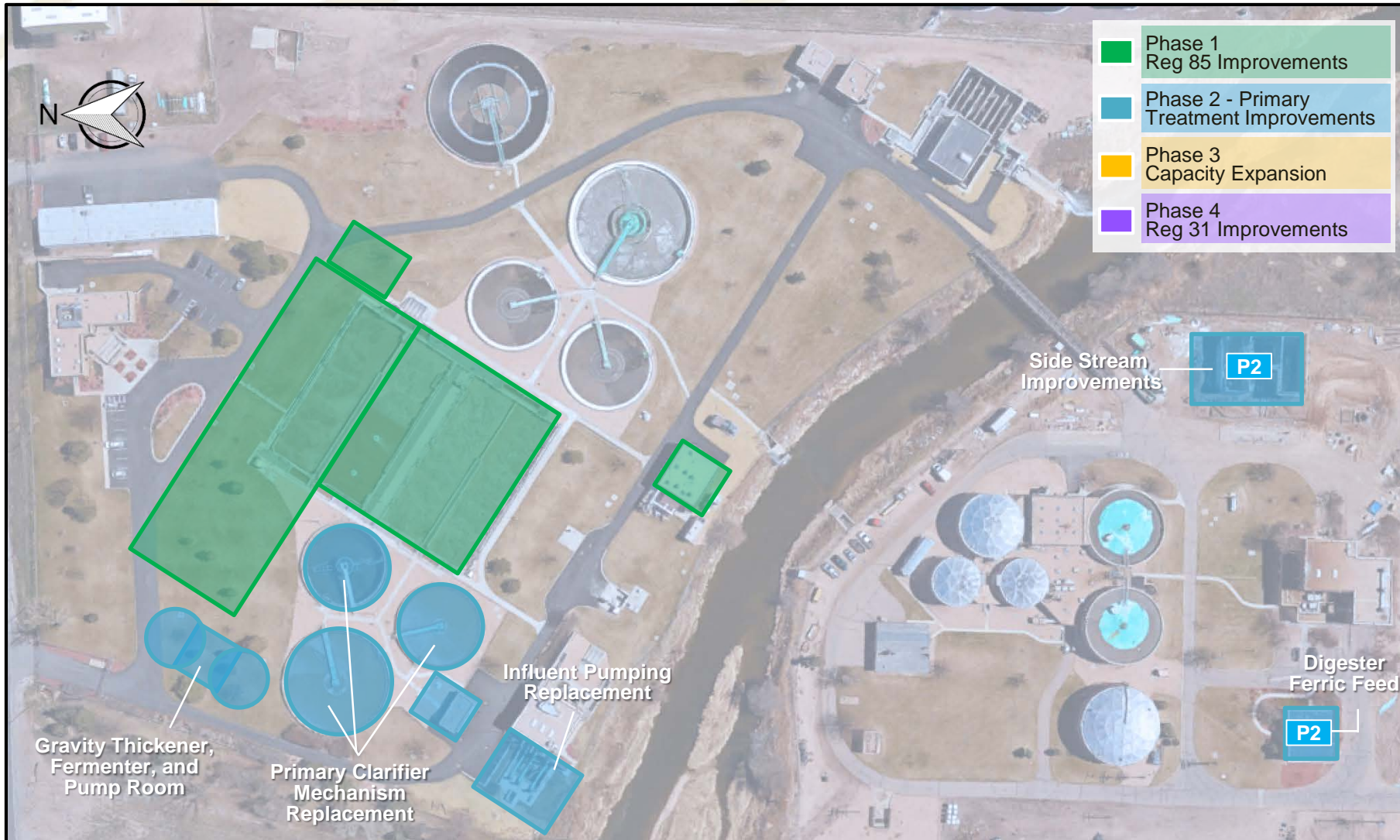
WTRF Nitrification Upgrade



- Total Project Cost:
\$36,700,000
- Multi-year project started in 2019

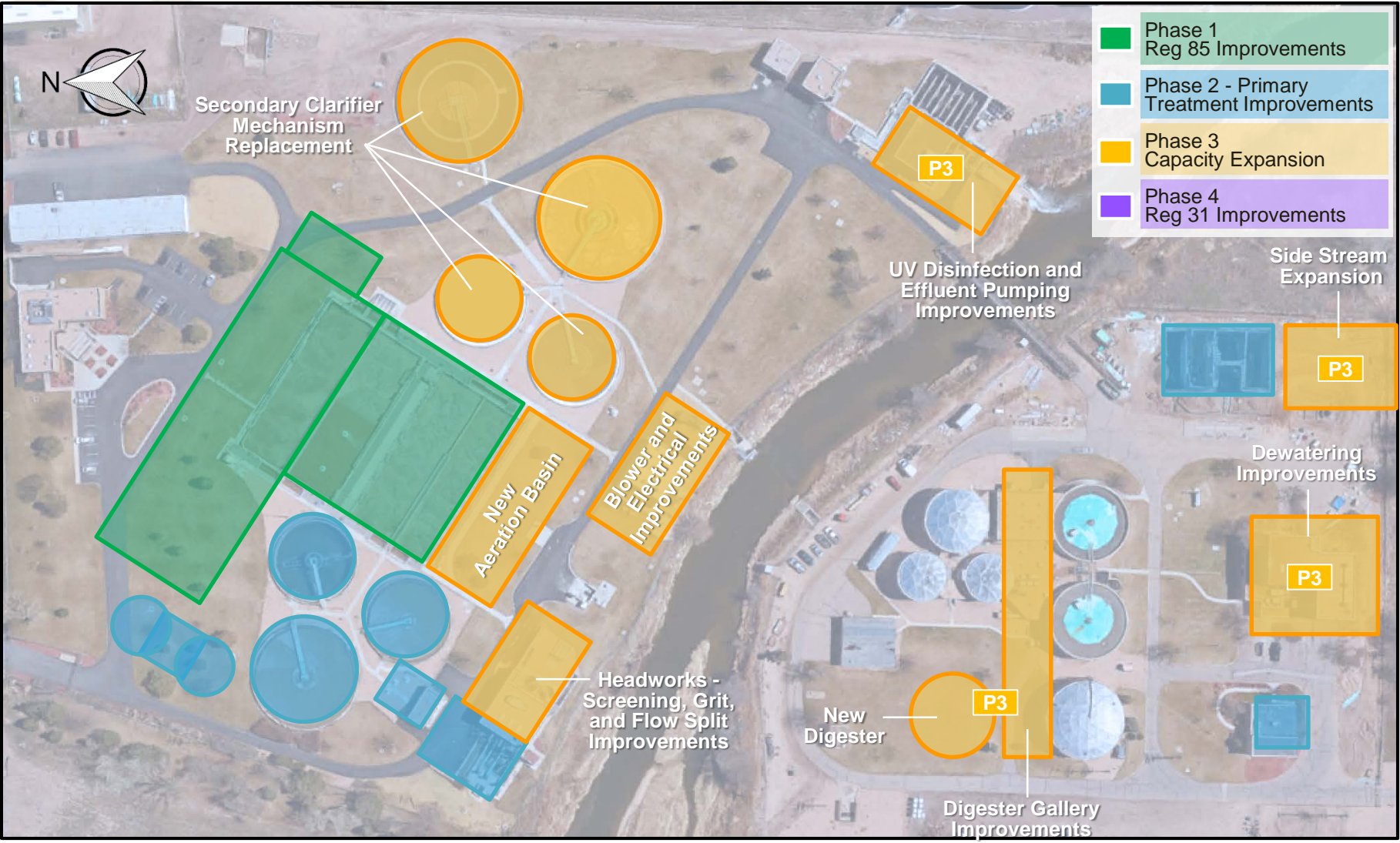


WTRF Primary Treatment Phase 2



- 2021 Design Budget:
\$2,600,000
- 2023 Construction:
\$16,300,000

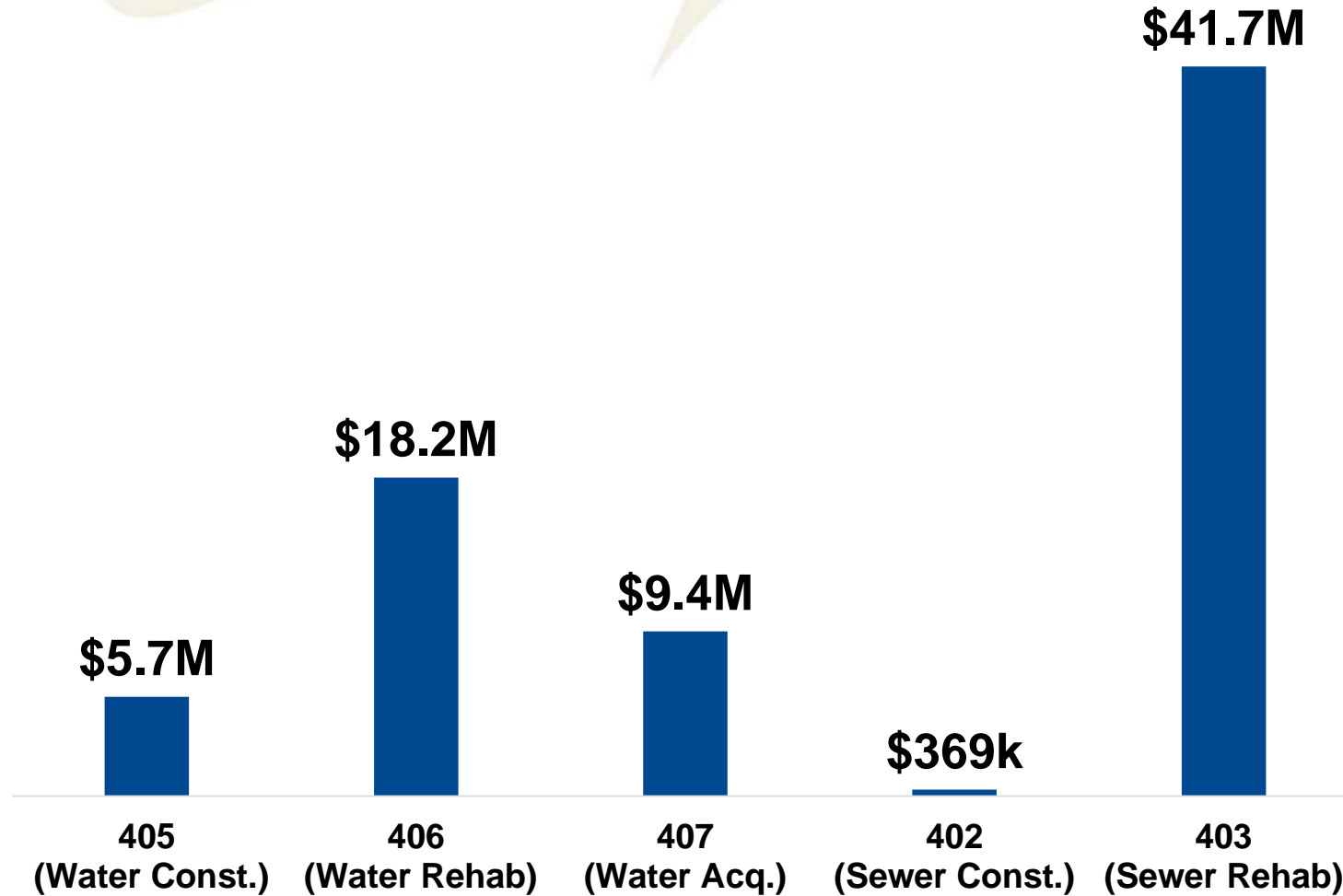
Future Years – WTRF Capacity Expansion Phase 3



- 2029-2031 Construction: \$68,200,000



2021 CIP Summary – Questions?



- ✓ Largest Investments are in maintaining existing infrastructure





2021 Water & Sewer Operating Budgets

- Water Operating (404)
- Sewer Operating (401)



Water Fund



Water Operating (Fund 404)

2021 Division Budgets

Water Resources	\$ 5,000,811
Boyd Lake Filter Plant	2,174,689
Distribution	2,057,546
Bellvue Filter Plant	1,997,796
Water Admin	1,559,337
Transmission Reservoir	963,400
Water Conservation	721,740
Non Potable Operations	689,471
Instrumentation and Controls	672,442
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- ✓ Operations & Maintenance
- Revenues:
 - Water rates



Water Operating (Fund 404)

2021 Division Budgets - Continued

Water Engineering	\$ 580,122
High Mountain Reservoirs	524,954
Services and Meters	512,020
Water Quality	385,450
Computer/Phone	374,626
Liability Insurance	318,150
Inventory	275,000
Total 2021	\$ 18,807,554

- ✓ Operations & Maintenance
- Revenues:
 - Water Rates



Supplemental Requests (Pending City Manager Review) - Water

Dept. Rank	Title	PBB Quartile	New FTEs	Ongoing	New Request	2021 Total Cost
1	Water Quality Operating Budget	1	0.00	YES	YES	\$ 176,407
2	Water Quality Technician	1	1.00	YES	YES	136,745
3	W&S Organizational Staffing Review	1	0.00	NO	YES	40,000
4	Water Conservation Van	1	0.00	NO	YES	45,000
5	Water Engineering Operating Budget	1	0.00	YES	YES	21,000
8	Bellvue Filter Plant Operating Budget	1	0.00	YES	YES	96,600
10	Water Administration Operating Budget	1	0.00	YES	YES	55,000
Total						\$ 570,752



Sewer Fund



Sewer Operating (Fund 401)

2021 Division Budgets

WTRF Operations	\$ 2,058,658
Wastewater Collection	1,319,970
WTRF Admin	1,008,135
WTRF Maintenance	799,308
Sewer Engineering	392,491
Sewer Admin	376,750
Liability Insurance	318,150
WTRF Laboratory	308,288
WTRF Industrial Pretreatment	273,433
Computer/Phone	147,622
Total 2021	\$ 7,002,805

- ✓ Operations & Maintenance
- Revenues:
 - Sewer rates



Supplemental Requests (Pending City Manager Review) - Sewer

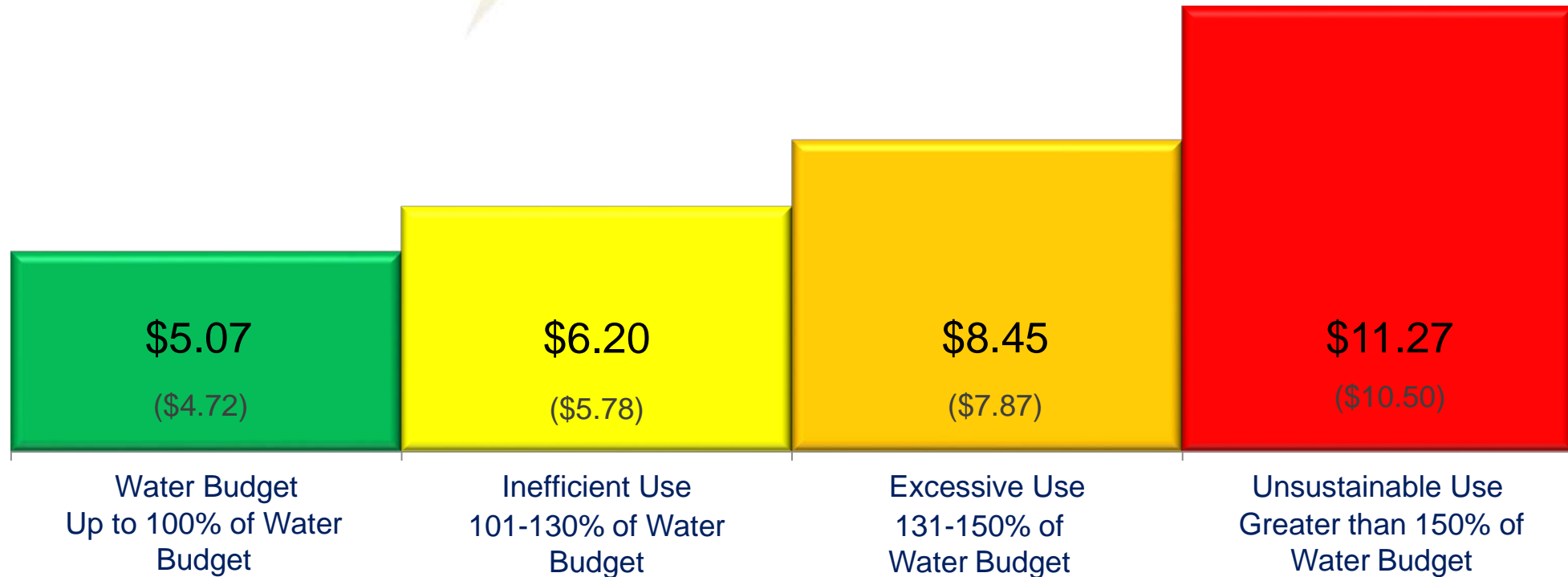
Dept. Rank	Title	PBB Quartile	New FTEs	Ongoing	New Request	2021 Total Cost
6	WTRF Maintenance Operating Budget	1	0.00	YES	YES	\$ 83,585
7	WTRF Operations Budget	1	0.00	YES	YES	254,000
9	WTRF Lab Operating Budget	1	0.00	NO	YES	10,000
11	Sewer Admin Operating Budgets	1	0.00	YES	YES	20,000
Total						\$ 367,585



2021 Proposed Water and Sewer Rate Adjustments

Residential Water Budget Rate Structure

Rate Structure for Greeley SFR customers in 2021 (2020 Rate)



- Uniform rate is \$5.35 for customers not on water budget
- Monthly service charge is \$14.40 (no increase from 2020)

Proposed Water Rate Changes

Customer Class	Existing Rate/kgal	% Rate Increase	Proposed Rate/kgal
Inside Residential	Varies	5.0%	Varies
Inside Commercial	\$4.84	5.0%	\$5.10
Inside Industrial	\$3.53	10.0%	\$3.89
Outside Residential	\$11.88	1.0%	\$12.02
Outside Commercial	\$11.78	1.0%	\$11.92
Outside Industrial	\$3.53	3.0%	\$3.64
City of Evans	\$4.30	6.0%	\$4.56
Town of Windsor	\$4.45	6.0%	\$4.72
Town of Milliken	\$5.87	30.0%	\$7.64

Proposed Sewer Rate Changes – Inside City

Customer Class	Existing Rate/kgal	% Rate Increase	Proposed Rate/kgal
Single Family	\$2.47	9.5%	\$2.87
Multi-Family	\$2.60	10.0%	\$2.89
Commercial 1	\$2.60	10.5%	\$2.91
Commercial 2	\$3.53	11.0%	\$3.94
Commercial 3	\$4.46	11.5%	\$4.99
Commercial 4	\$5.39	12.0%	\$6.05
Commercial 5	\$6.28	12.5%	\$7.13

- Monthly service charge increase from \$11.55 to \$12.05 (+ \$0.50)

Proposed Sewer Rate Changes - Industrial

Customer Class	Existing Rate/kgal	% Rate Increase	Proposed Rate/kgal
Industrial SIC 2026	\$28.85	0.0%	\$28.85
Industrial SIC 2013	\$19.26	1.0%	\$19.46
Industrial SIC 7218	\$7.23	0.0%	\$7.23
Industrial SIC 2034	\$4.75	17.0%	\$5.57
New Industrial SIC 2879	Was SIC 7218 (\$7.23)	226.0%	\$24.03
New Industrial SIC 4212	Was Comm II (\$3.53)	0.0%	\$3.53
New Industrial SIC 5147	Was Comm IV (\$5.39)	131.0%	\$12.47
New Industrial SIC 5169	Was Comm II (\$3.53)	6.0%	\$3.75
New Industrial SIC 7542	Was Comm III (\$4.46)	24.5%	\$5.56

- Notable 2021 changes for significant industrial user rates: 1) Correcting historical error of calculating rates based on average loading instead of peak loading. 2) Creating new industrial classes in alignment with our pre-treatment program, beginning to charge those industrial users appropriately that were formerly classified commercial.

Proposed Sewer Rate Changes-Outside City

Customer Class	Existing Rate/kgal	% Rate Increase	Proposed Rate/kgal
Single Family	\$3.82	7.5%	\$4.25
Multi-Family	\$3.87	8.0%	\$4.21
Commercial 1	\$3.87	8.5%	\$4.30
Commercial 2	\$4.49	8.5%	\$4.96
Commercial 3	\$5.62	11.0%	\$6.30
Commercial 4	\$6.52	12.0%	\$7.30
Commercial 5	\$7.36	12.5%	\$8.28

- Monthly service charge increase from \$14.44 to \$15.05 (+ \$0.61)

Approximate 2021 Monthly Residential Bill

	Service Charge	Average Volume (kgal)	Volume Charge	Bill Total
Annual Average Water	\$14.40	10.0	\$53.67	\$68.07
Summer Water (July)	\$14.40	21.5	\$131.08	\$145.48
Winter Water (Feb)	\$14.40	3.9	\$18.23	\$32.63
Sewer	\$12.05	3.9	\$11.19	\$23.24

- 2021 Water Service Charge: \$14.40 (no increase from 2020)
- 2021 Sewer Service Charge: \$12.05 (\$0.50 increase from 2020)

* Monthly bill estimates assume a water budget based on 3 persons per household living on an average size residential lot.



Approximate 2021 Monthly Residential Bill

Average Bill	2020	2021	Change
Water	\$65.38	\$68.07	\$2.69
Sewer	\$21.31	\$23.24	\$1.93
Total	\$86.69	\$91.31	\$4.62



Plant Investment Fees – ¾” Tap

	2020	2021
Water	\$10,500	\$11,200
Sewer	\$6,000	\$6,800
Total	\$16,500	\$18,000

- Plant Investment Fees are subject to change pending results of the 2020 impact fee study. Study consultants are modeling a new graduated water PIF for single-family development based on lot size.



Thank You
Questions?

Water & Sewer Board | July 15, 2020



WATER & SEWER BOARD AGENDA JULY 15, 2020

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 8

TITLE: LEGAL REPORT

RECOMMENDATION:

ADDITIONAL INFORMATION:

- I. Statements of Opposition:** Based on review of the May, 2020 Water Court Resume, staff and water counsel recommend that the Board file statements of opposition in the following cases:
- a. Case Number: **20CW3069** Application of Hunt Water, LLC, et al., for conditional underground water rights for several wells near the town of Gilcrest. These wells have existing irrigation rights and the applicants are seeking to expand the irrigated land substantially. The wells are contemplated to be added to Central's GMS 02CW335 and WAS 03CW99 augmentation plans, along with the PVIC 08CW71 augmentation plan. We recommend that Greeley file a statement of opposition ensure that Greeley's water rights are not adversely affected.
 - b. Case Number: **20CW3070** Application of Hunt Water, LLC, for conditional underground water rights for several wells near the town of Gilcrest. These wells have existing irrigation rights and the applicants are seeking to add new water rights for industrial uses. The wells are contemplated to be added to Central's GMS 02CW335 augmentation plan, along with the PVIC 08CW71 augmentation plan. We recommend that Greeley file a statement of opposition ensure that Greeley's water rights are not adversely affected.
 - c. Case Number: **20CW3073** Application of PVIC Augmentation Group, to add wells to the PVIC 08CW71 augmentation plan. This application seeks to add numerous wells to this augmentation plan, including some wells included in Case Nos. 20CW3069 and 20CW3070, and others. The application contemplates that an existing augmentation plan, which Greeley was a party to, be abandoned and all the structures be moved to this augmentation plan. We recommend that Greeley file a statement of opposition ensure that proper terms and conditions are imposed, and that Greeley's water rights are not adversely affected.
- II. Proposed Motion Language:** "I move that the Board authorize the filing of statements of opposition in Case Nos. 20CW3069, 20CW3070, and 20CW3073, and for staff and legal counsel to seek resolution of issues raised by these cases consistent with Water and Sewer Board Resolution No. 3-15."

WATER & SEWER BOARD AGENDA JULY 15, 2020

ENCLOSURE _____

NO ENCLOSURE X

ITEM NUMBER: 9

TITLE: EXECUTIVE SESSION

RECOMMENDATION:

ADDITIONAL INFORMATION:

- Leprino Development Agreement Update

WATER & SEWER BOARD AGENDA JULY 15, 2020

ENCLOSURE _____ NO ENCLOSURE X

ITEM NUMBER: 10

TITLE: DIRECTOR'S REPORT

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

- Local Improvement Districts (LIDs)
- Advanced Metering Infrastructure Project