

# Water and Sewer Capital Program 2022 – 2026



## Fund 422

## Water New Construction

### **Terry Ranch Water Development**

Project Number:	12640	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	5- Outside City
Fund:	Water Construction	Location:	Carr, CO
Project Manager:	Jim Paulson	Budget Unit #:	422440188007000000000
Project Status:	Funded		

### Description:

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

### **Discussion of Progress:**

Steel and appurtenances have been contracted for section 1 which will get us up to highway 14 (6.6 miles). Construction for the first two pieces has been contracted. The final piece for Section 1 to get 1 mile beyond highway 14 has not yet been contracted. Contract is in place to get to final design of last piece of section 1 and 60% design for Section 2 (6-8 miles north of highway 14).

Land acquisition for Section 1 and 2 is still ongoing.

### Justification:

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

### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

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

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	5,536,715	760,584	39,417,485	-	3,432,000	15,000	4,048,350	85,000	18,129,784
5788	Other Private Contribution	-	-		8,125,350	15,748,000	60,000	13,566,650	-	37,500,000
Total	Revenue	\$5,536,715	\$760,584	\$39,417,485	\$8,125,350	\$19,180,000	\$75,000	\$17,615,000	\$85,000	\$55,629,784
Expense										
8202	Construction	-	-	29,130,890	-	17,000,000	-	15,500,000	-	33,130,890
8204	Contingency	-	-	1,393,474	-	1,000,000	-	1,000,000	-	3,993,474
8212	Land/Building Cost/Demolition	382,571	-	3,782,256	-	-	-	-	-	4,164,827
8226	Permits, Fees, Etc	37,368	-	39,178	20,000	75,000	-	75,000	-	246,546
8229	Professional Services	4,262,348	694,386	4,656,687	500,000	800,000	-	800,000	-	11,713,421
8232	Project Management	847,397	-	-	-	-	-	-	-	847,397
8233	Project Management - Benefits	3,500	-	-	-	-	-	-	-	3,500
8235	Real Estate - Internal Chgs Only	1,712	66,199	-	50,000	50,000	-	-	-	167,911
9303	Public Art Fund	-	-	340,000	-	170,000	-	155,000	-	665,000
Total	Expense	\$5,536,715	\$760,584	\$39,417,485	\$635,000	\$19,180,000	\$75,000	\$17,615,000	\$85,000	\$55,629,784
Net Total		-	-	-	\$7,490,350	-	-	-	-	-



### **Ogilvy Bypass Structure**

Project Number:	12740	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	5- Outside City
Fund:	Water Construction	Location:	40.42275787419099, -104.67016300266398
Project Manager:	Alex Tennant	Budget Unit #:	422440189004000000000
Project Status:	Funded		

### Description:

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

### **Discussion of Progress:**

The City has hired an engineer to design the new bypass. Design is scheduled to be completed in 2023. Met with DNR, Ditesco, and JBS to discuss.

### Justification:

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

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	200,000	968,000	-	-	-		- 1,168,000
Total	Revenue	-	-	\$200,000	\$968,000	-	-	-		- \$1,168,000
Expense										
8202	Construction	-	-	150,000	800,000	-	-	-		- 950,000
8204	Contingency	-	-	-	120,000	-	-	-		- 120,000
8229	Professional Services	-	-	50,000	20,000	-	-	-		- 70,000
8232	Project Management - Labor	-	-	-	20,000	-	-	-		- 20,000
9303	Public Art Fund	-	-	-	8,000	-	-	-		- 8,000
Total	Expense	-	-	\$200,000	\$968,000	-	-	-		- \$1,168,000
Net Total		-	-	-	-	-	-	-		



### **Centennial Park Non-Potable Pump Station**

Project Number:	422New3	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	
Fund:	Water Construction	Location:	2503 Reservoir Rd, Greeley, CO 80634
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

#### Description:

Construct non-potable pump statoin to serve Centennial Park and convert properties on the east side of 23rd Avenue and south of Reservoir Road.

#### **Discussion of Progress:**

Design in 2023 with construction planned for 2026.

#### Justification:

This is a regional irrigation pump station that will expand non-potable water irrigation and reduce potable water irrigation and demand. Converting from potable to non-potable water irrigation reduces the demand on the WTPs and costs of treating the water. Project is saving some funds by making use of one of the treated water reservoirs at the site taken out of service in 2022.

We are tagging the "Sustainable Infrastructure and Mobility" council priority, however because of the pump station's direct service to Centennial Park, the project also impacts the "Quality of Life" council priority.

#### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

Each new pump station will add approximately \$25,000/year in operating costs mainly power costs.

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Grand Total
Revenue	Description	Tears	2022 Actual	Duugei	2024	2025	2020	2027	2020	Grand Total
	Fund Balance	-	-	-		-	- 2,599,000	-		- 2,599,000
Total	Revenue	-	-	-		-	- \$2,599,000	-		- \$2,599,000
Expense										•
8202	Construction	-	-	-		-	- 2,073,000	-		- 2,073,000
8204	Contingency	-	-	-		-	- 311,000	-		- 311,000
8229	Professional Services	-	-	-		-	- 121,000	-		- 121,000
8232	Project Management - Labor	-	-	-		-	- 40,000	-		- 40,000
8242	Utility Services	-	-	-		-	- 33,000	-		- 33,000
9303	Public Art Fund	-	-	-		-	- 21,000	-		- 21,000
Total	Expense	-	-	-		-	- \$2,599,000	-		- \$2,599,000
Net Total		-	-	-		-		-		



### **Greeley West Pump Station Expansion**

Project Number:	422New4	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	
Fund:	Water Construction	Location:	Greeley West Park, 24th St and 38th Ave
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

### Description:

The pump station is used to irrigate Greeley West Park. This pump station expansion will serve to expand the non-pot system north and south of the park to connect to new and recent development in the area. Expansion of the non-potable system to new customers reduces the demand for treated water.

#### **Discussion of Progress:**

The pump station design will be completed in 2023 with construction planned for 2024.

### Justification:

The existing pump station is nearly 20 years old and the 2021 Master Plan scheduled this pump station as a regional pump station to serve properties to the north and south, both conversion and new development. Non-pot distribution has been installed to serve new development south of the park. Potable water is being used until the pump station is expanded.

#### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

The operational costs of the current pump station will increase by approximately a factor of 2. Estimated at \$11,000.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	3,036,000	-	-	-		- 3,036,000
Total	Revenue	-	-	-	\$3,036,000	-	-	-		- \$3,036,000
Expense					•					
8202	Construction	-	-	-	2,462,000	-	-	-		- 2,462,000
8204	Contingency	-	-	-	369,000	-	-	-		- 369,000
8229	Professional Services	-	-	-	115,000	-	-	-		- 115,000
8232	Project Management - Labor	-	-	-	34,000	-	-	-		- 34,000
8242	Utility Services	-	-	-	32,000	-	-	-		- 32,000
9303	Public Art Fund	-	-	-	24,000	-	-	-		- 24,000
Total	Expense	-	-	-	\$3,036,000	-	-	-		- \$3,036,000
Net Total		-	-	-	-	-	-	-		



### **Poudre Ponds Redevelopment Pond C**

Project Number:	N739	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	4 - 10 St North/23 Ave West
Fund:	Water Construction	Location:	35th Ave. North of F St. Poudre Ponds.
Project Manager:	Ryan Duve	Budget Unit #:	422New1
Project Status:	Funded		

### Description:

Update final design of the Poudre Ponds site to provide a Natural Area public amenity that can be enjoyed by City residents for recreational purposes. Complete final grading and other improvements based on final design and get released from the DRMS mining permit. This work will include the filling Pond C which the City is having to augment due to evaporative losses.

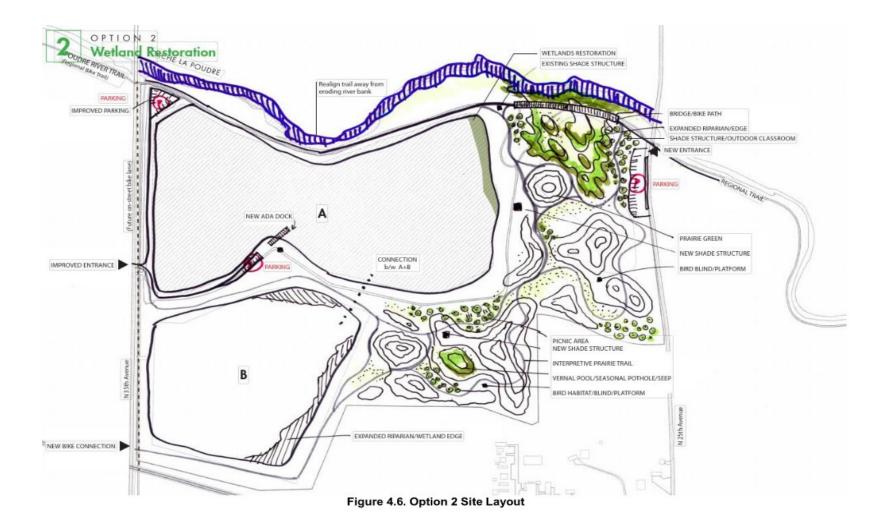
### **Discussion of Progress:**

The Pond B slurry wall was completed in 2021. Pond B is being actively mined to increase storage and provide final grading within the pond. The mining company has until the end of 2025 to complete the mining and final grading. Final site design will be completed in 2025 and construction commencing in 2026.

### Justification:

Pond B cannot be placed in operation until final grading is completed and leak tested. The City is paying for augmenting Pond C. Filling Pond C will end this payment. This is a high priority project for City Council.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	30,000	115,600	2,816,250	2,800,000		- 5,761,850
Total	Revenue	-	-	-	\$30,000	\$115,600	\$2,816,250	\$2,800,000		- \$5,761,850
Expense										
8202	Construction	-	-	-	-	-	2,500,000	2,500,000		- 5,000,000
8204	Contingency	-	-	-	-	-	250,000	250,000		- 500,000
8229	Professional Services	-	-	-	25,000	100,000	25,000	25,000		- 175,000
8232	Project Management - Labor	-	-	-	5,000	15,600	16,250	-		- 36,850
8242	Utility Services	-	-	-	-	-	25,000	25,000		- 50,000
Total	Expense	-	-	-	\$30,000	\$115,600	\$2,816,250	\$2,800,000		- \$5,761,850
Net Total		-	-	-	-	-	-	-		



### Windy Gap Firming

Project Number:	12676	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	5- Outside City
Fund:	Water Construction	Location:	Chimney Hollow Reservoir
Project Manager:	Leah Hubbard	Budget Unit #:	422440188007000000000
Project Status:	Funded		

#### Description:

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

### **Discussion of Progress:**

Construction is ongoing and on time. Completion is planned for 2025 with the reservoir becoming productive in 2029. More information is available form Northern Water here: https://www.northernwater.org/CHRP/news

#### Justification:

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

#### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

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

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	2,133,717	-	515,000		- 515,000	-	-		- 3,163,717
Total	Revenue	\$2,133,717	-	\$515,000		- \$515,000	-	-		- \$3,163,717
Expense										
8212	Land/Building Cost/Demolition	167,911	-	-			-	-		- 167,911
8226	Permits, Fees, Etc	17,192	-	-			-	-		- 17,192
8229	Professional Services	1,557,130	-	515,000		- 515,000	-	-		- 2,587,130
8232	Project Management	389,859	-	-			-	-		- 389,859
8235	Real Estate - Internal Chgs Only	788	-	-			-	-		- 788
Total	Expense	\$2,133,717	-	\$515,000		- \$515,000	-	-		- \$3,163,717
Net Total		-	-	-			-	-		



### **Non-Potable Expansion Project**

Project Number:	12584	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Supply	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Ryan Duve	Budget Unit #:	422440186005000000000
Project Status:	Funded		

### Description:

This item funds City initiated CIP non-potable system expansion projects and oversizing reimbursement of new regional non-potable pump stations that new developments are required to construct in accordance with City development policies.

### **Discussion of Progress:**

The budget is based on specific projects by both the City and developers up to year 2028. Afterwards, the budget reflects system expansion for conversions.

Anticipate the following construction schedule: 2024: Monfort NPPS Distribution System Expansion with 47th Ave. Sewer Project and 29th St Multifamily NPPS Reimbursement. 2025: Cobblestone NPPS Reimbursement. 2026: Converting Ashton Estates from potable to non-potable irrigation and Village Coop project converting potable to non-potabale within Citycenter. 2027: Promontory Park Expansion and Twin Rivers Expansion. 2028: SA-38 1st Ave Pond.

### Justification:

Expanding the City's non-potable system has been identified as a critical goal in meeting Greeley's future water demands. Funding this item provides funds to expand the non-potable system to use non-potable water for irrigating new developments and converting existing systems from potable to non-potable irrigation.

### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

Each new pump station will add approximately \$25,000/year in operating costs mainly power costs.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	317,264	-	6,510,000	2,092,000	2,215,000	2,672,000	3,622,000	4,472,000	3,592,500	25,492,764
Total	Revenue	\$317,264	-	\$6,510,000	\$2,092,000	\$2,215,000	\$2,672,000	\$3,622,000	\$4,472,000	\$3,592,500	\$25,492,764
Expense											
8202	Construction	215,363	-	5,288,000	1,759,000	1,876,000	2,083,000	2,492,000	3,458,000	2,500,000	19,671,363
8204	Contingency	-	-	416,000	253,000	282,000	208,000	563,000	417,000	375,000	2,514,000
8229	Professional Services	21,529	-	626,000	24,000	-	282,000	459,000	479,000	431,250	2,322,779
8232	Project Management	59,647	-	-	-	-	-	-	-	-	59,647
8235	Real Estate - Internal Chgs Only	-	-	-	-	-	16,000	-	-	-	16,000
8242	Utility Services	-	-	46,000	-	-	-	-	35,000	175,000	256,000
9303	Public Art Fund	10,000	-	29,000	18,000	20,000	21,000	25,000	30,000	25,000	178,000
Total	Expense	\$317,264	-	\$6,510,000	\$2,092,000	\$2,215,000	\$2,672,000	\$3,622,000	\$4,472,000	\$3,592,500	\$25,492,764
Net Total		-	-	-	-	-	-	-	-	-	-



### 35th Ave Non-Potable Waterline

Project Number:	12454	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	4 - 10 St North/23 Ave West
Fund:	Water Construction	Location:	35th Ave at Poudre Ponds
Project Manager:	Adam Prior	Budget Unit #:	422440189012000000000
Project Status:	Funded		

### Description:

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

### **Discussion of Progress:**

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

#### Justification:

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

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	1,075,606	72,820	690,848		-	- 2,107,876	-		- 3,947,150
Total	Revenue	\$1,075,606	\$72,820	\$690,848		-	- \$2,107,876	-		- \$3,947,150
Expense										
8202	Construction	1,026,067	60,565	682,603		-	- 1,859,852	-		- 3,629,087
8204	Contingency	1,900	-	-		-	- 181,125	-		- 183,025
8229	Professional Services	19,104	12,255	8,245		-		-		- 39,604
8232	Project Management	14,953	-	-		-		-		- 14,953
9303	Public Art Fund	-	-	-		-	- 18,599	-		- 18,599
Total	Expense	\$1,075,606	\$72,820	\$690,848		-	- \$2,107,876	-		- \$3,947,150
Net Total		-	-	-		-		-		



### 35th Avenue F to O Street

Project Number:	12457	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	
Fund:	Water Construction	Location:	35th Ave between F and O Streets
Project Manager:	Rebecca Andrus	Budget Unit #:	422440188005000000000
Project Status:	Funded		

#### Description:

This project is for water pipeline to be installed in advance of City and County roadway projects along 35th Avenue. This will be constructed in 2026 and will be approximately 4,000 linear feet of 20" pipeline.

### **Discussion of Progress:**

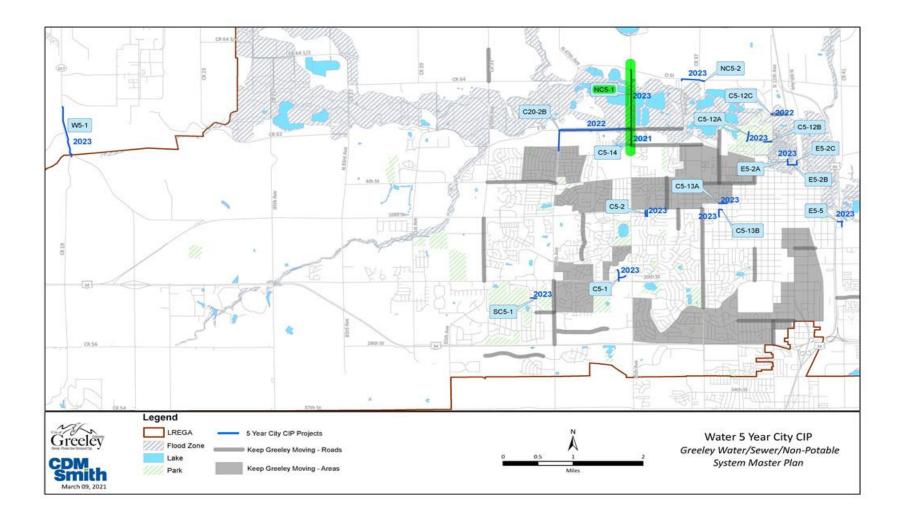
Design is planned for 2025 and construction in 2026 to match roadway construction planned by Public Works.

### Justification:

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

Waterline needs to be installed before paving.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024		2025	2026	2027	2028	Grand Total
Revenue											
	Fund Balance	647,007	-	167,941		-	115,000	2,817,100	-	-	3,747,048
Total	Revenue	\$647,007	-	\$167,941		-	\$115,000	\$2,817,100	-	-	\$3,747,048
Expense											
8202	Construction	602,303	-	165,349		-	-	2,210,000	-	-	2,977,652
8204	Contingency	834	-	2,592		-	-	360,000	-	-	363,426
8212	Land/Building Cost/Demolition	14,175	-	-		-	-	-	-	-	14,175
8229	Professional Services	3,573	-	-		-	100,000	200,000	-	-	303,573
8232	Project Management	23,762	-	-		-	-	-	-	-	23,762
9303	Public Art Fund	-	-	-		-	-	22,100	-	-	22,100
Total	Expense	\$647,007	-	\$167,941		-	\$115,000	\$2,817,100	-	-	\$3,747,048
Net Total		-	-	-		-	-	-	-	-	-



### F St & 47th Ave Waterlines

Project Number:	12537	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	4 - 10 St North/23 Ave West
Fund:	Water Construction	Location:	F St & 47th Ave, Greeley CO 80631
Project Manager:	Rebecca Andrus	Budget Unit #:	422440188005000000000
Project Status:	Funded		

### Description:

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

### **Discussion of Progress:**

Desing in 2023 with construction in 2026.

### Justification:

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

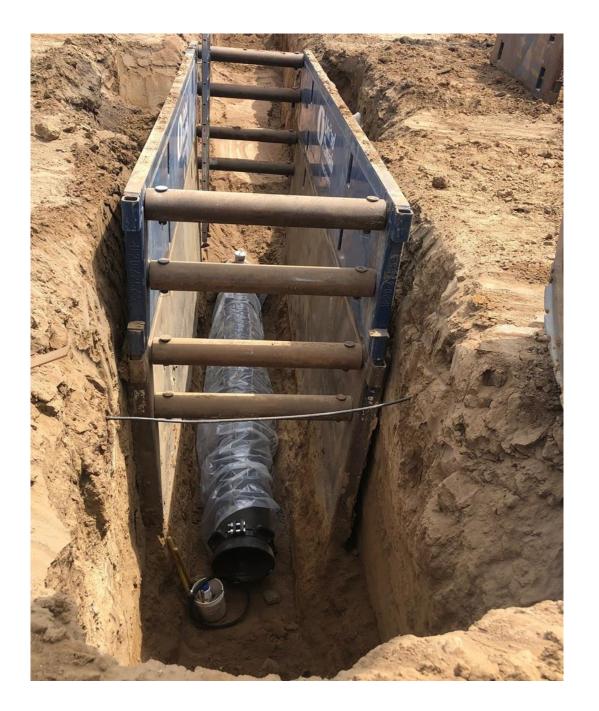
### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

New pipe will add to length of total pipe and will cause an incremental increase in the operational cost of the water system including future rehab or replacement costs.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	1,180,000	-	-	4,160,081	-		- 5,340,081
Total	Revenue	-	-	\$1,180,000	-	-	\$4,160,081	-		- \$5,340,081
Expense				-						
8202	Construction	-	-	-	-	-	3,500,080	-		- 3,500,080
8204	Contingency	-	-	-	-	-	300,000	-		- 300,000
8212	Land/Building Cost/Demolition	-	-	300,000	-	-	-	-		- 300,000
8226	Permits, Fees, Etc	-	-	100,000	-	-	-	-		- 100,000
8229	Professional Services	-	-	740,000	-	-	300,000	-		- 1,040,000
8232	Project Management - Labor	-	-	30,000	-	-	25,000	-		- 55,000
8235	Real Estate - Internal Chgs Only	-	-	10,000	-	-	-	-		- 10,000
9303	Public Art Fund	-	-	-	-	-	35,001	-		- 35,001
Total	Expense	-	-	\$1,180,000	-	-	\$4,160,081	-		- \$5,340,081
Net Total		-	-	-	-	-	-	-		



### **Non-Potable Waterline**

Project Number:	12587	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	4 - 10 St North/23 Ave West
Fund:	Water Construction	Location:	40.440444, -104.811506
Project Manager:	Ryan Duve	Budget Unit #:	422440189012000000000
Project Status:	Funded		

### Description:

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

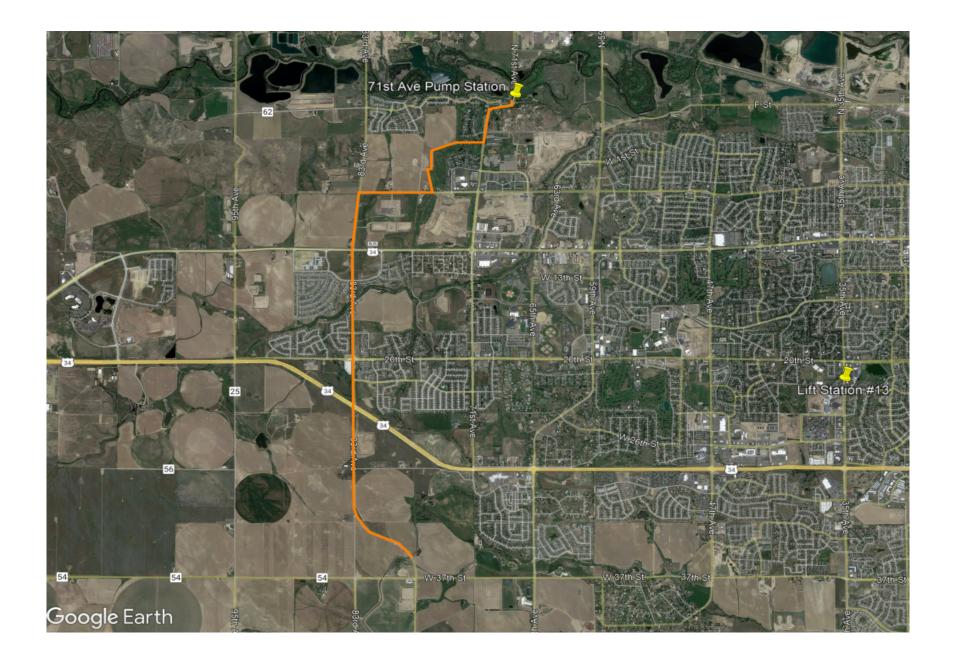
### **Discussion of Progress:**

Construction to start in 2026.

### Justification:

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

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	563,985	10,000	10,000	1,728,500	7,984,495	12,806,557	23,103,537
Total	Revenue	-	-	\$563,985	\$10,000	\$10,000	\$1,728,500	\$7,984,495	\$12,806,557	\$23,103,537
Expense										
8202	Construction	-	-	-	-	-	1,350,000	6,954,500	11,298,700	19,603,200
8204	Contingency	-		-	-	-	135,000	695,450	1,129,870	1,960,320
8226	Permits, Fees, Etc	-		-	-	-	50,000	75,000	75,000	200,000
8229	Professional Services	-	-	563,985	-	-	150,000	150,000	150,000	1,013,985
8232	Project Management - Labor	-	-	-	10,000	10,000	30,000	40,000	40,000	130,000
9303	Public Art Fund	-	-	-	-	-	13,500	69,545	112,987	196,032
Total	Expense	-	-	\$563,985	\$10,000	\$10,000	\$1,728,500	\$7,984,495	\$12,806,557	\$23,103,537
Net Total		-	-	-	-	-	-	-	-	-



### **Fixed Network for Badger Meters and SCADA**

Project Number:	422New1	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission &	Regions:	
Fund:	Water Construction	Location:	Citywide
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

### Description:

Fixed network for communication with the Badger Meters installed for customers and to support System Control and Data Acquisition (SCADA) devices in the water and sewer system.

### **Discussion of Progress:**

Planned for 2031. SCADA Master Plan project in progress in 2023 is expected to provide guidance on the cost of a city owned fixed network and assess the extent of the need and return on investment.

### Justification:

The current badger flow meters data is communicated over LTE and we pay a monthly fee to a wireless company to communicate data back to our Badger software. The cost for all meters to be on LTE service is roughly \$330,000 per year and this doesn't include and yearly increases by the wireless company. We would install a new fixed network that would be use by SCADA and meters.

### Impact on Operating Budget:

Decrease of service charges for Badger Meters.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance			-	-	-			-	2,000,000	2,000,000
Total	Revenue			-	-	-			-	\$2,000,000	\$2,000,000
Expense											
8202	Construction			-	-	-			-	1,500,000	1,500,000
8204	Contingency			-	-	-			-	100,000	100,000
8208	Furniture, Fixtures & Equipment			-	-	-			-	150,000	150,000
8226	Permits, Fees, Etc			-	-	-			-	50,000	50,000
8229	Professional Services			-	-	-			-	200,000	200,000
Total	Expense			-	-	-			-	\$2,000,000	\$2,000,000
Net Total				-	-	-			-	-	-



### **Bulk Water Stations**

Project Number:	422New2	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	
Fund:	Water Construction	Location:	Citywide
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

### **Description:**

Project is for the installation of three new bulk water stations. Bulk water stations sell water to construction, drilling, landscaping, and city owned vehicles with large reservoir tanks. They are an alternative to Fire Hydrant Meters and provide a number of advantages, especially backflow protection and erosion control. Project is coordinated with Stormwater for integration of the station drainage with the city stormwater system and incorporation of other assets stormwater needs.

### **Discussion of Progress:**

Two existing bulk water stations are proving significant revenue generators, construction for three more stations is planned for 2024.

### Justification:

Bulk water stations are proving a major revenue source (the two existing stations have netted XX in 2022). The water stations provide flushing capacity to the distribution system eliminating some wastage of water for flushing and include backflow prevention and erosion control issues with fire hydrant meters. For their cost we expect a ROI of less than two years for each station. Proposal is for a total of five stations in the city with a bulk water customer no more than 15 minutes from a fill station.

### **Revenue Detail:**

Two existing bulk water stations are significant revenue sources.

### Impact on Operating Budget:

Bulk water stations reduce flushing costs, water loses due to flushing, and reduce the likelihood of water quality concerns.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	375,000	-	-	-		- 375,000
Total I	Revenue	-	-	-	\$375,000	-	-	-		- \$375,000
Expense										
8202	Construction	-	-	-	300,000	-	-	-		- 300,000
8229	Professional Services	-	-	-	75,000	-	-	-		- 75,000
Total I	Expense	-	-	-	\$375,000	-	-	-		- \$375,000
Net Total		-	-	-	-	-	-	-		



### Water System Expansion for North Greeley

Project Number:	422New5	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission &	Regions:	
Fund:	Water Construction	Location:	North Greeley
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

### Description:

This project is for master planned water pipelines to be installed in advance of development for all areas of North Greeley. It is planned to install new large (16"-24") distribution mains from the existing system to O St. The starting construction work would begin in 2026 with 71st Ave, then 59th Ave in 2028, 83rd Ave in 2030, 25th Ave in 2032, and 95th in 2034. This project is necessary to allow for development of Greeley in the growth region North of the Poudre River.

### **Discussion of Progress:**

Design is planned for 2025 with construction of the first phase in 2026. Future phases will make use of the initial design for some cost savings. Project planned for completion in 2034 with updates to project schedule and budget planned in future years.

### Justification:

Installing this pipeline at this time will allow future development in North Greeley, these areas along the Poudre are typically owned by Greeley or are located in the floodplain which will inhibit development.

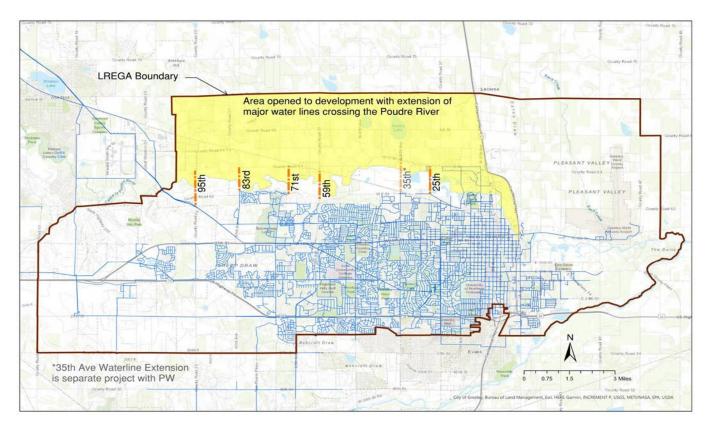
### **Revenue Detail:**

Will allow for new customers to be added to the system in North Greeley.

### Impact on Operating Budget:

This project will increase the overall length of pipe in the water system and will increase operations, maintenance, and replacement costs.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	-	-	-	-	655,000	2,454,000	130,000	3,241,800	5,070,000	11,550,800
Total	Revenue	-	-	-	-	\$655,000	\$2,454,000	\$130,000	\$3,241,800	\$5,070,000	\$11,550,800
Expense				-							-
8202	Construction	-	-	-	-	-	2,400,000	-	3,180,000	4,500,000	10,080,000
8212	Land/Building Cost/Demolition	-	-	-	-	25,000	-	-	-	75,000	100,000
8229	Professional Services	-	-	-	-	600,000	-	100,000	-	300,000	1,000,000
8232	Project Management - Labor	-	-	-	-	20,000	20,000	20,000	20,000	100,000	180,000
8235	Real Estate - Internal Chgs	-	-	-	-	10,000	10,000	10,000	10,000	50,000	90,000
9303	Public Art Fund	-	-	-	-	-	24,000	-	31,800	45,000	100,800
Total	Expense	-	-	-	-	\$655,000	\$2,454,000	\$130,000	\$3,241,800	\$5,070,000	\$11,550,800
Net Total		-	-	-	-	-	-	-	-	-	-



### **C St Waterline Extension**

Project Number:	422New6	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	
Fund:	Water Construction	Location:	Citywide
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

### Description:

This is the extension of water line along C St from 66th Ave to 59th Ave to connect the waterline to facilitate connectivity, improved water quality, and fire flows. This is 1000' of new 12" waterline with crossing of Sheep Draw.

### **Discussion of Progress:**

Construction planned for 2026.

### Justification:

This project is aligned with PW for the extension of C St with their phase 1 and 2 and will improve water quality and fire flows for the water distribution system.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	-	-		- 426,250	-		- 426,250
Total	Revenue	-	-	-	-		- \$426,250	-		- \$426,250
Expense										
8202	Construction	-	-	-	-		- 375,000	-		- 375,000
8204	Contingency	-	-	-	-		- 37,500	-		- 37,500
8232	Project Management - Labor	-	-	-	-		- 10,000	-		- 10,000
9303	Public Art Fund	-	-	-	-		- 3,750	-		- 3,750
Total	Expense	-	-	-	-		- \$426,250	-		- \$426,250
Net Total		-	-	-	-			-		



### 71st - 83rd Non-Potable Pump Station and Pipeline

Project Number:	N667	Budget Year:	2024
Division:	WATER GENERAL MANAGEMENT	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission &	Regions:	4 - 10 St North/23 Ave West
Fund:	Water Construction	Location:	40.441337, -104.787960
Project Manager:	Ryan Duve	Budget Unit #:	Unassigned
Project Status:	Funded		

### Description:

This project will construct a new pump station to pump water from the Poudre River to the Greeley-Loveland Irrigation Company ditch, and will secure options to purchase existing or potential gravel pits on the Lower Poudre near Greeley. The project will exchange reusable wastewater effluent into the gravel pits along with junior water storage rights in gravel pit reservoirs that can then be pumped back to the GLIC system for non-potable irrigation, or released to provide support for non-potable irrigation, exchanges, and augmentation. The pipeline needed to convey the pumped water is a separate project (Project Number 12587).

### **Discussion of Progress:**

Planning to start in 2029 with construction starting in 2030.

### Justification:

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

### Impact on Operating Budget:

Estimate \$100,000/year in electrical costs.

		Previous 3		2023 Revised								
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	,	2028	Future	Grand Total
Revenue												
	Fund Balance		· -	-			-	-	-	-	6,669,102	6,669,102
Total	Revenue	-	· _	-	-	-	-	-	-	-	\$6,669,102	\$6,669,102
Expense												
8202	Construction			-			-	-	-	-	5,107,299	5,107,299
8204	Contingency			-	-		-	-	-	-	510,730	510,730
8229	Professional Services			-	-		-	-	-	-	500,000	500,000
8242	Utility Services			-	-		-	-	-	-	500,000	500,000
9303	Public Art Fund		. <u>-</u>	-	-		-	-	-	-	51,073	51,073
Total	Expense		· _	-	-		-	-	-	-	\$6,669,102	\$6,669,102
Net Total		-	-	-	-		-	-	-	-	-	-



### O St Waterline Extension 23rd-25th

Project Number:	N730	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	5- Outside City
Fund:	Water Construction	Location:	O St 23rd-25th Ave, Greeley CO 80631
Project Manager:	Keri Fishlock	Budget Unit #:	422New2
Project Status:	Funded		

#### Description:

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

### **Discussion of Progress:**

Working with contractor to develop alignment and determine ROW. Project planned for 2024.

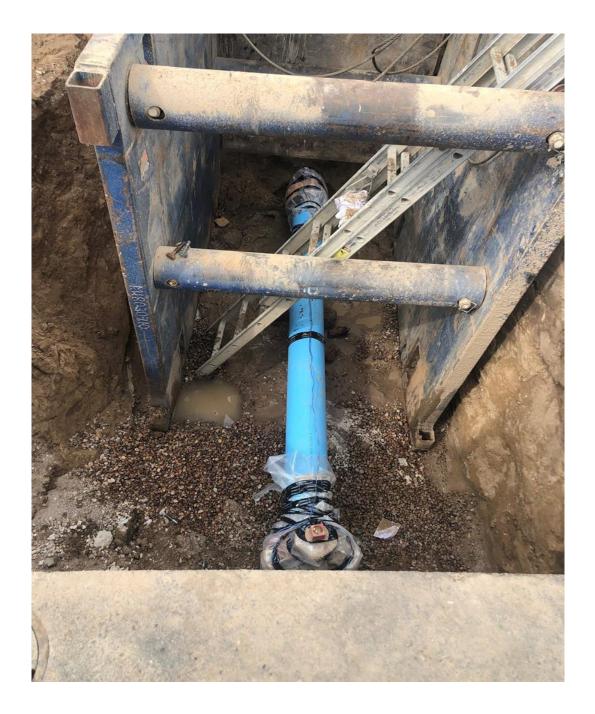
#### Justification:

Connect distribution grid prior to new street construction.

#### Impact on Operating Budget:

New pipe will add to length of total pipe and will cause an incremental increase in the operational cost of the water system including future rehab or replacement costs.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance			-	812,820	-	-	-		- 812,820
Total	Revenue			-	\$812,820	-	-	-		- \$812,820
Expense										-
8202	Construction			-	582,000	-	-	-		- 582,000
8204	Contingency			-	85,000	-	-	-		- 85,000
8212	Land/Building Cost/Demolition			-	50,000	-	-	-		- 50,000
8229	Professional Services			-	60,000	-	-	-		- 60,000
8232	Project Management - Labor			-	25,000	-	-	-		- 25,000
8234	Project Management - Burdened Labor			-	5,000	-	-	-		- 5,000
9303	Public Art Fund			-	5,820	-	-	-		- 5,820
Total	Expense			-	\$812,820	-	-	-		- \$812,820
Net Total				-	-	-	-	-		



# **New Construction Meters**

Project Number:	12581	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission &	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Mark Uhland	Budget Unit #:	422440188002000000000
Project Status:	Funded		

### Description:

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

## **Discussion of Progress:**

Ongoing annual program.

#### Justification:

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

### **Revenue Detail:**

New customers = new revenue sources

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	149,103	-	45,000	45,000	45,000	45,000	45,000	45,000	225,000	644,103
Total	Revenue	\$149,103	-	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000	\$644,103
Expense											
8208	Furniture, Fixtures & Equipment	53,402	-	37,500	37,500	37,500	37,500	37,500	37,500	187,500	465,902
8224	Operating Supplies	32,056	-	2,000	2,000	2,000	2,000	2,000	2,000	10,000	54,056
8232	Project Management	63,645	-	-	-	-	-	-	-	-	63,645
8244	Capital Equipment >\$5,000	-	-	5,500	5,500	5,500	5,500	5,500	5,500	27,500	60,500
Total	Expense	\$149,103	-	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000	\$644,103
Net Total		-	-	-	-	-	-	-	-	-	-



# Water Taps

Project Number:	12673	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission &	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Mark Uhland	Budget Unit #:	422440188003000000000
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.)

## **Discussion of Progress:**

Ongoing annual program

#### Justification:

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

#### **Revenue Detail:**

New customers = new water revenue

GL Account	Description	Previous 3 Years	2022 Actual	2023 Revised Budget	2024	2025	2026	2027	2028	Future	Grand Total
Expense				0							
7657	Bad Debt Expenses	-	-	4,295	-	-	-	-	-	-	4,295
8202	Construction	-	-	10,000	10,000	10,000	10,000	10,000	10,000	50,000	110,000
8216	Miscellaneous	-	-	3,500	3,500	3,500	3,500	3,500	3,500	17,500	38,500
8224	Operating Supplies	20,424	-	61,500	61,500	61,500	61,500	61,500	61,500	307,500	696,924
8232	Project Management	10,128	1,818	-	-	-	-	-	-	-	11,945
Total I	Expense	\$30,552	\$1,818	\$79,295	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000	\$861,665
Net Total		\$13,772,727	\$4,588,395	-	-	-	-	-	-	-	\$17,531,827



# **Distribution Line Extension & Oversizing**

Project Number:	12524	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission &	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Derek Hannon	Budget Unit #:	422440188001000000000
Project Status:	Funded		

## Description:

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

# **Discussion of Progress:**

Annual program for development pipeline oversizing reimbursements.

### Justification:

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

#### **Revenue Detail:**

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

## Impact on Operating Budget:

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

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	131,050	769	174,531	161,280	161,280	163,300	165,320	165,320	826,600	1,949,449
Total	Revenue	\$131,050	\$769	\$174,531	\$161,280	\$161,280	\$163,300	\$165,320	\$165,320	\$826,600	\$1,949,449
Expense											•
8202	Construction	-	-	121,000	128,000	128,000	130,000	132,000	132,000	660,000	1,431,000
8208	Furniture, Fixtures & Equipment	647	-	-	-	-	-	-	-	-	647
8216	Miscellaneous	37	-	-	-	-	-	-	-	-	37
8224	Operating Supplies	33,709	-	6,000	6,000	6,000	6,000	6,000	6,000	30,000	99,709
8229	Professional Services	78,467	769	45,321	25,000	25,000	25,000	25,000	25,000	125,000	374,556
8232	Project Management	15,462	-	-	-	-	-	-	-	-	15,462
8233	Project Management - Benefits	250	-	-	-	-	-	-	-	-	250
9303	Public Art Fund	1,200	-	1,210	1,280	1,280	1,300	1,320	1,320	6,600	15,510
Total	Expense	\$131,050	\$769	\$174,531	\$161,280	\$161,280	\$163,300	\$165,320	\$165,320	\$826,600	\$1,949,449
Net Total		-	-	-	-	-	-	-	-	-	-



# **Bellvue Pipeline-Gold Hill Segment**

Project Number:	12489	Budget Year:	2024
Division:	Water Capital Projects	<b>Council Priority:</b>	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Transmission & Distribution	Regions:	5- Outside City
Fund:	Water Construction	Location:	South of Windsor
Project Manager:	Rebecca Andrus	Budget Unit #:	422440188005000000000
Project Status:	Funded		

## **Description:**

This project is the Design and Construction of the Gold Hill Segment of the 60" Bellvue Transmission Main. It is approximately 3 miles long and will extend along HWY 257 from the Poudre River in Windsor south to the connection with the transmission lines from Boyd just south of the Zone 4 pump station (131st Ave and HWY 34). Final route selection, permit and easement acquisition, design and construction will be part of this multi-year project. The first Phase of construction is currently planned in 2024 and 2025 would be to complete the Windsor Phase of approximately 4,000 feet of pipe installation and a HWY 257 crossing to install pipe in advance of expected development in that area. Funding in 2025 and 2026 will be used to complete the remaining 2 miles of the 60" Bellvue pipeline.

## **Discussion of Progress:**

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

## Justification:

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

The pipeline also allows the operation of the Greeley water system from either treatment plant for a short time in the event of an emergency and so represents a significant hazard mitigation effort for Greeley, Evans, Windsor and Milliken.

## **Revenue Detail:**

The department submitted an application for funding from the Federal Emergency Management Agency - Building Resilient Communities and Infrastructure grant program for 80% of the project costs.

## Impact on Operating Budget:

This pipeline will allow gravity flow to Zone 3 through the Gold Hill tanks, which will lower energy costs for pumping into Zone 3 from Mosier. System water quality and chemical use are expected to see benefits due to reduced water age and better mixing from Boyd and Bellvue treatment facilities. The additional pipe length will cause incremental cost increases to water system operations, rehab, and replacement.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	550,349	-	160,000	5,488,000	8,232,000	8,305,000	40,000	-	22,775,349
Total	Revenue	\$550,349	-	\$160,000	\$5,488,000	\$8,232,000	\$8,305,000	\$40,000	-	\$22,775,349
Expense										-
8202	Construction	632	-	-	4,600,000	6,900,000	7,000,000	-	-	18,500,632
8204	Contingency	1	-	-	400,000	700,000	700,000	-	-	1,800,001
8212	Land/Building Cost/Demolition	164,404	-	35,000	-	-	-	-	-	199,404
8226	Permits, Fees, Etc	-	-	30,000	-	10,000	10,000	-	-	50,000
8229	Professional Services	298,965	-	75,000	397,000	508,000	515,000	15,000	-	1,808,965
8232	Project Management	41,893	-	-	-	-	-	-	-	41,893
8233	Project Management - Benefits	14,800	-	-	-	-	-	-	-	14,800
8235	Real Estate - Internal Chgs Only	-	-	5,000	5,000	-	-	-	-	10,000
9303	Public Art Fund	20,000	-	-	46,000	69,000	70,000	-	-	205,000
Total	Expense	\$550,349	-	\$160,000	\$5,488,000	\$8,232,000	\$8,305,000	\$40,000	-	\$22,775,349
Net Total		-	-	-	-	-	-	-	-	-



# **Residuals Gravity Thickener - Bellvue**

Project Number:	A289	Budget Year:	2024
Division:	WATER GENERAL MANAGEMENT	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Treatment	Regions:	5- Outside City
Fund:	Water Construction	Location:	Bellvue Filter Plant
Project Manager:	Peter Champion	Budget Unit #:	422106088005000000000
Project Status:	Funded		

#### Description:

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

# **Discussion of Progress:**

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

## Justification:

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

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	202	26	2027	2028	Grand Total
Revenue											
	Fund Balance	-	· -	-		-	-	-	1,260,000	6,847,000	8,107,000
Total	Revenue	-	· _	-		-	-	-	\$1,260,000	\$6,847,000	\$8,107,000
Expense											
8202	Construction	-		-		-	-	-	-	6,200,000	6,200,000
8204	Contingency	-		-		-	-	-	-	500,000	500,000
8216	Miscellaneous	-		-		-	-	-	-	10,000	10,000
8229	Professional Services	-		-		-	-	-	1,250,000	50,000	1,300,000
8232	Project Management - Labor	-		-		-	-	-	10,000	25,000	35,000
9303	Public Art Fund	-		-		-	-	-	-	62,000	62,000
Total	Expense	-	· _	-		-	-	-	\$1,260,000	\$6,847,000	\$8,107,000
Net Total		-	-	-		_	-	-	-	-	-



# **Bellvue Two Million Gallon Clearwell**

Project Number:	12724	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Construction Treatment	Regions:	5- Outside City
Fund:	Water Construction	Location:	Bellvue Filter Plant
Project Manager:	Stephen Goodwin	Budget Unit #:	422440189004000000000
Project Status:	Funded		

#### Description:

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

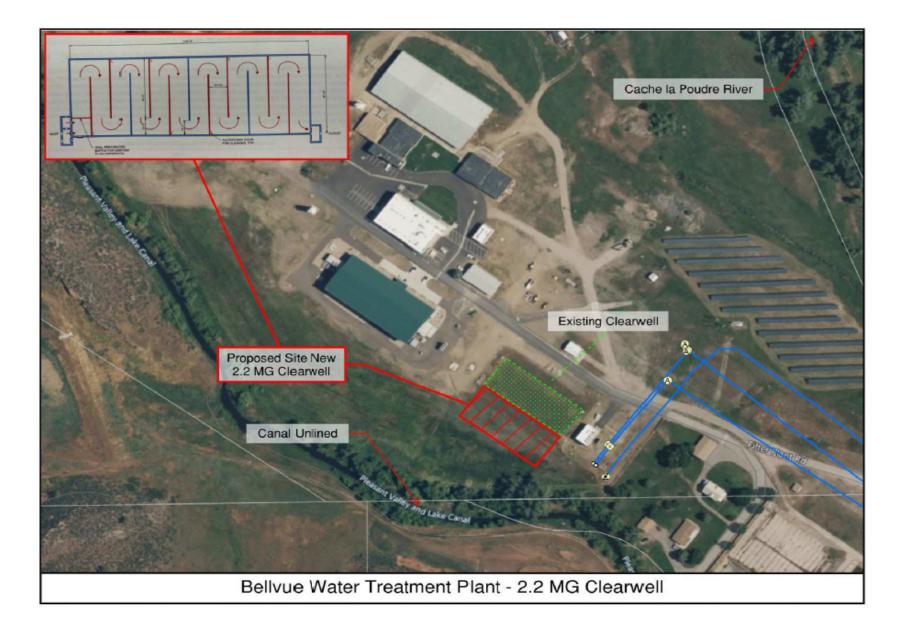
# **Discussion of Progress:**

This project is scheduled for design in 2024 with construction in 2025

## Justification:

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

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	-	-	750,000	757,500	5,055,000	-	-		- 6,562,500
Total	Revenue	-	· -	\$750,000	\$757,500	\$5,055,000	-	-		- \$6,562,500
Expense				-						-
8202	Construction	-		-	750,000	4,500,000	-	-		- 5,250,000
8204	Contingency	-		100,000	-	150,000	-	-		- 250,000
8229	Professional Services	-		600,000	-	300,000	-	-		- 900,000
8232	Project Management - Labor	-		50,000	-	60,000	-	-		- 110,000
9303	Public Art Fund	-	-	-	7,500	45,000	-	-		- 52,500
Total	Expense	-	-	\$750,000	\$757,500	\$5,055,000	-	-		- \$6,562,500
Net Total		-	-	-	-	-	-	-		



# Non-Potable Master Plan

Project Number:	12585	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Replacement Supply	Regions:	0 - All Wards
Fund:	Water Construction	Location:	Citywide
Project Manager:	Adam Prior	Budget Unit #:	422440186005000000000
Project Status:	Funded		

### Description:

This project is an update to the existing 2004 master plan to analyze the existing infrastructure and provide direction on a 5 year and 20 year CIP plan to address expansion, conversions from potable use, and infrastructure needs. The master plan will also provide direction on how the City non-potable system will serve the City of Greeley up to the Long Range Expected Growth Area (LREGA).

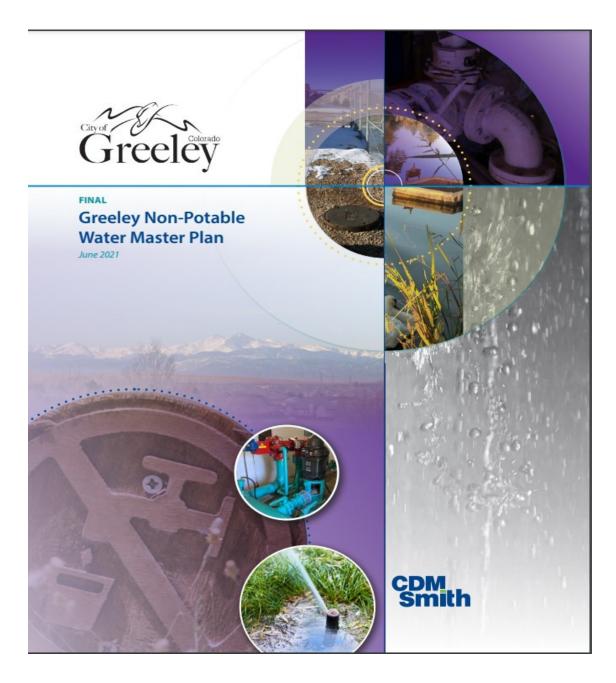
## **Discussion of Progress:**

Non-Potable distribution system analysis and identification of infrastructure is approximately 60% complete. As the City finalizes the draft master plan, we will engage engineering firms, development community, and other stakeholders to allow them to review and provide comments and feedback prior to finalizing the Masterplan. Planned for 2025

## Justification:

The Master Plan update is necessary to ensure that adequate water is available for future growth that is economical - detailed analysis of non-potable system upgrades feasibilities and costs.

		Previous 3		2023 Revised						
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Grand Total
Revenue										
	Fund Balance	137,176	-	-	-	325,000	-	-		- 462,176
5812	Damages Recovered	500,000	-	-	-	-	-	-		- 500,000
Total Revenue\$637,176		-	-	-	\$325,000	-	-		- \$962,176	
Expense										
8202	Construction	202,574	-	-	-	-	-	-		- 202,574
8204	Contingency	-	-	-	-	50,000	-	-		- 50,000
8229	Professional Services	342,461	-	-	-	250,000	-	-		- 592,461
8232	Project Management	80,358	-	-	-	-	-	-		- 80,358
Total	Expense	\$637,176	-	-	-	\$325,000	-	-		- \$962,176
Net Total		-	-	-	-	-	-	-		



# Zone 4 New Water Tower

Project Number:	422New7	Budget Year:	2024
Division:	Water Capital Projects	Council Priority:	Sustainable Infrastructure & Mobility
Project Type:	Water Replacement Transmission &	Regions:	
Fund:	Water Construction	Location:	40.392984, -104.887923
Project Manager:	Unassigned	Budget Unit #:	Unassigned
Project Status:	Funded		

#### Description:

Construction of a new 2MG Water Tower adjacent to the existing Water Tower. Expanding the storage capacity serving pressure Zone 4 (west Greeley).

## **Discussion of Progress:**

Estimated demands for the city indicate need for additional storage by 2035. Design is planned for 2033 with construction in 2034.

## Justification:

Additional storage is required to meet increasing water demand in Zone 4.

#### **Revenue Detail:**

No additional information

### Impact on Operating Budget:

Increase in operations and maintenance expenses for the Transmission and Reservoirs unit.

		Previous 3		2023 Revised							
GL Account	Description	Years	2022 Actual	Budget	2024	2025	2026	2027	2028	Future	Grand Total
Revenue											
	Fund Balance	-	-	-	-	-	-	-	-	700,000	700,000
Total I	Revenue	-	· _	-	-	-	-	-	-	\$700,000	\$700,000
Expense											
8229	Professional Services	-		-	-	-	-	-	-	700,000	700,000
Total I	Expense	-	-	-	-	-	-	-	-	\$700,000	\$700,000
Net Total			-	-	-	-	-	-	-	-	-

