



## MEMORANDUM

**TO:** Board of Directors  
**FROM:** Brian Thompson, Government Affairs Administrator  
**DATE:** October 21, 2022  
**RE:** October 27, 2022, Board Meeting

This memorandum shall serve as notice of a Special Meeting of the Board of Directors of the Eagle River Water & Sanitation District:

**Thursday, October 27, 2022  
12:00 p.m.**

**This meeting will be held at:**

Walter Kirch Room  
Eagle River Water & Sanitation District Vail office  
846 Forest Road  
Vail, Colorado

The meeting can also be accessed on Microsoft Teams. Login information can be requested by sending an email at least 24 hours in advance to [info@erwsd.org](mailto:info@erwsd.org). In-person attendance is subject to COVID-19 protocols.

Input from members of the public is welcomed during the meeting's designated Public Comment and Public Hearing periods, consistent with §18-9-108, C.R.S. Speakers may address the Board on a first-recognized basis by the Chair. Public Comments are limited to three minutes per speaker on relevant matters not listed on the agenda.



## BOARD OF DIRECTORS SPECIAL MEETING

October 27, 2022

**12:00 p.m.**

Walter Kirch Conference Room

### AGENDA

#### Attachment Link

1. **Introductions**
2. **Public Comment**
3. **Public Hearing**
  - 3.1. Declining participation in the FAML program –Tom Borawski & Tracy Rymph [Action Item](#)
4. **Action Items**
  - 4.1. Approval of minutes from September 21, 2022, Special Meeting [Action Item](#)
  - 4.2. Approval of minutes from September 22, 2022, Special Meeting [Action Item](#)
  - 4.3. Approval of contract log [Action Item](#)
  - 4.4. Consideration of weather modification program participation – Jason Cowles [Action Item](#)
5. **Information Reports**
  - 5.1. Development report [Informational](#)
  - 5.2. Board committees [Informational](#)
  - 5.3. September Authority meeting summary – draft [Informational](#)
6. **Strategy Items**
  - 6.1. Board member input
  - 6.2. Work session: Proposed FY 2023 Budget – David Norris & Jim Cannava [Informational](#)
  - 6.3. Work session: Water Dedication Policy – Jason Cowles & Kristin Moseley [Informational](#)
  - 6.4. Strategic plan – Linn Brooks [Informational](#)
7. **General Manager Report – Linn Brooks**
  - 7.1. GM information items
  - 7.2. Business Administration report – David Norris
    - 7.2.1. Quarterly financials – Jim Cannava [Informational](#)
  - 7.3. Operations report – Siri Roman [Informational](#)
  - 7.4. Engineering and Water Resources report – Jason Cowles [Informational](#)
  - 7.5. Communications and Public Affairs report – Diane Johnson [Informational](#)
8. **Water Counsel Report – Kristin Moseley**
  - 8.1. Vail Kayak Course - Water Court Diligence Application [Informational](#)

**9. General Counsel Report – Kathryn Winn**

Confidential

**10. Executive Session**

- 10.1.** Motion to move into Executive Session pursuant to §24-6-402(4)(b) and (e), C.R.S, for the purposes of receiving legal advice and discussing matters in negotiation related to:

**10.1.1.** Colorado River Cooperative Agreement issues

Confidential

**10.1.2.** Draft Amended and Restated Golden Peak Snowmaking Water Agreement with Ski and Snowboard Club of Vail

Confidential

- 10.2.** Motion to move into Executive Session pursuant to §24-6-402(4)(b), C.R.S, for the purposes of receiving legal advice related to:

**10.2.1.** Camp Hale-Continental Divide National Monument implications

Confidential

**10.2.2.** Employee 414(h) plan and social security limitations

- 10.3.** Motion to move into Executive Session pursuant to §24-6-402(4)(f), C.R.S, for the purposes of discussing a personnel matter related to an Employee Home Ownership Program loan by the Director of Business Administration

**11. Any Action as a Result of Executive Session**

**12. Adjournment**



## BOARD ACTION REQUEST

**TO:** Board of Directors

**FROM:** Tracy Rymph, Senior HR Analyst  
Tom Borawski, HR Manager

**DATE:** October 19, 2022

**RE:** Participation in State-Run Paid Family and Medical Leave Insurance (FAMLI) Program

**Summary:** Staff recommends the board vote to decline participation in the state-run paid Family and Medical Leave Insurance (FAMLI) Program.

**Discussion and Background:** Beginning on January 1, 2024, the State will provide eligible employees in Colorado with up to 12 weeks of paid, job-protected leave in a rolling 12-month period (with an additional 4 weeks available for qualifying pregnancy or childbirth complications). Employees can use this paid leave to take care of themselves or their family in the event of a serious health condition or to care for a new child, prepare for military deployment, or address safety needs and impacts related to domestic violence and/or sexual assault. While FAMLI leave will be administered by the State, the program is funded by employer and employee contributions, which will begin on January 1, 2023.

Local governments, such as the Eagle River Water and Sanitation District ("District"), have three (3) options:

1. Participate in the FAMLI program (Opting into employee and employer contributions)
2. Decline employer participation (Assist employees in making remittances to the state through payroll deductions, if the employee opted in individually).
3. Decline all participation in the FAMLI program (Employees may still elect to participate and make remittances to the state on an individual basis).

**Recommendation:** The leadership team is recommending that the District board vote to decline all participation in the FAMLI program for the following reasons:

- It will save both employees and the District from paying premiums to the state. Employees can choose to participate on an individual basis if they wish to do so.
- Employees are covered by existing leave policies that often exceed this state provided benefit including paid sick time, vacation time, comp time, and Short-Term Disability. Using sick time and vacation does not have a wage limit, whereas FAMLI does have a wage limit.
- We are evaluating our current benefits and will be making recommendations to the board to enhance our current leave benefits in the future.
- We can always reconsider participation in the future; however, if the District does not opt-out now, we must participate for at least three years.

The October 27, 2022, board meeting will serve as the public hearing at which employees and other members of the public can provide comments. A pre-vote notice was sent to employees on Thursday, October 13, which contained a form for employees to submit comments leading up to the board meeting. One comment was submitted that expressed support for declining participation in the FAMLI program.



**Budget Impacts:** The table below shows a snapshot comparison between what FAML I participation would cost and what the District currently spends on existing leave programs. Because the FAML I program does not fully replace an employee's wage, participating in FAML I would not eliminate District costs completely for equivalent leaves, as employees could still use those benefits to make them whole. A small percentage of District employees utilize paid leave per year, so participating in FAML I would also require all employees to pay for a benefit applicable to a few.

	FAML I Employee	FAML I Employer	Total FAML I	Current ERWSD Benefit
<b>Current</b>	\$52,518	\$52,518	\$105,036	\$44,078
<b>2021</b>	\$43,137	\$43,137	\$86,275	\$53,556
<b>2020</b>	\$40,543	\$40,543	\$81,085	\$54,011

**Legal:** If the board decides to decline participation by opting out of FAML I, we must take the following remaining steps:

1. Within 30 days following the Board's opt-out vote, provide written individual notice to employees that explains the differences between benefits offered by the FAML I program and the District; which employees, if any, are eligible for job protection under the federal Family and Medical Leave Act; and the right of employees to voluntarily opt into FAML I.
2. Submit written notice of the Board's opt-out vote to the Division via their online portal.
3. Display the FAML I Division's workplace poster and notice in a conspicuous and accessible place for employees.

**Suggested Board Motion:** I move that the board approve the attached resolution to decline participation in the state-run paid Family and Medical Leave Insurance (FAML I) Program.

**Board Actions Requested:**

1. Open the public hearing
  - a. Staff presentation
  - b. Board discussion
  - c. Public input
  - d. Staff response to public input
2. Consideration of the Motion to Adopt the Resolution
3. Vote on the Motion
4. Close public hearing

# **EAGLE RIVER WATER AND SANITATION DISTRICT**

## **RESOLUTION NO. 2022-\_\_**

### **A RESOLUTION DECLINING PARTICIPATION IN THE FAMLI PROGRAM**

**WHEREAS**, the Eagle River Water and Sanitation District (“District”) is a quasi-municipal corporation and political subdivision of the State of Colorado and a duly organized and existing special district pursuant to Title 32, Article 1, Colorado Revised Statutes; and

**WHEREAS**, pursuant to the Paid Family and Medical Leave Insurance Act, Section 8-13.3-501, *et seq.*, C.R.S., and the rules adopted by the Division of Family and Medical Leave Insurance pursuant thereto (together, “FAMLI”), the District is authorized to decline the District’s participation in the FAMLI program; and

**WHEREAS**, at a properly noticed special meeting of the Board of Directors of the District (“Board”) on October 27, 2022, the Board conducted a public hearing, which was duly noted on the meeting agenda, on whether the District should participate in the FAMLI program (“Hearing”); and

**WHEREAS**, the District’s employees were provided with advance written notice of the date and time of the Hearing and information regarding the vote process; and

**WHEREAS**, the District’s employees and other members of the public were given the opportunity to provide public comment to the Board at the Hearing, prior to the Board’s vote.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of the Eagle River Water and Sanitation District as follows:

1. Decline the District’s Participation in FAMLI. The Board hereby determines that it is in the best interests of the District to decline participation in the FAMLI program pursuant to Section 8-13.3-522, C.R.S.

2. Further Acts and Required Notices. The Board hereby directs the General Manager or her designee to take all actions that may be necessary or desirable to comply with FAMLI and/or implement this Resolution, including without limitation registering with FAMLI’s online system and delivering notice of the District’s declination vote to the Division of Family and Medical Leave Insurance and to all District employees, as required by FAMLI.

3. Severability. If any part, section, subsection, sentence, clause, or phrase of this Resolution is for any reason held to be invalid, such invalidity shall not affect the validity of the remaining provisions.

4. Effective Date. This Resolution shall take effect and be enforced immediately upon its approval by the Board.

**ADOPTED** this 27th day of October, 2022.

**EAGLE RIVER WATER AND  
SANITATION DISTRICT**

By \_\_\_\_\_  
Dick Cleveland, Chairman

Attest:

\_\_\_\_\_  
George Gregory, Secretary


**EAGLE RIVER WATER & SANITATION DISTRICT 2022 CONTRACT LOG**

<b>Contract No.</b>	<b>Date Executed</b>	<b>Change Order Signed On</b>	<b>Project Name</b>	<b>Contractor</b>	<b>Contract Amt</b>	<b>Project Mgr.</b>	<b>Account No.</b>	<b>Status / Notes</b>
22.15.078	09/15/22		Trash Dumpster and Recycling Dumpster Pick Up for Vail and Avon Wastewater	Waste Management	Various	K. Koppel	10.3.9.00.20.680	Open/Contract Expires 07/22/25
22.15.079	10/18/22		KnowBe4 Subscription Service	KnowBe4	\$9,252.60	J. Way	10.1.9.00.45.300	Open/Contract Expires 12/31/23
22.15.080	10/07/22		IT Pipes Inspection Data Automation	IT Pipes	\$35,500.00	J. Way	10.1.9.00.45.300	Open/Contract Expires 12/31/23
22.15.081	10/03/22		Rock Aggregate Supply and Asphalt and Rock Aggregate Disposal	Eagle Rocks Aggregate, Inc. d/b/a Tower Pit	\$50,000.00	N. Nemcanin	10.3.9.00.20.600	Open/Contract Expires 12/31/23
22.15.082	10/04/22		EagleVail Pavilion Rental for ERWSD District Barbeque	EagleVail Metropolitan District	\$2,000.00	A. Kelkenberg	10.3.9.00.80.090	Open/Contract Expires 10/04/22
22.15.083	Pending		Greenhouse Gas Inventory	Carollo Engineers, Inc.	\$243,700.00	K. Koppel	10.3.2.00.07.301	Open/Contract Expires 10/30/23
22.15.084	Pending		Cabinet Removal	On Call Mountain Movers	\$257.00/hour	M. Cushman	10.3.9.10.20.500	Open/Contract Expires 10/14/22
22.15.085	Pending		Vail WWTF Master Plan Capital Improvements - 3rd Party Testing	Ground Engineering Consultants, Inc.	\$11,015.00	M. Mantua	10.3.2.10.03.316	Open/Contract Expires 06/01/24
22.15.086	Pending		WW Master Plan Update - Bench Top Testing of EWW Solids Handling	Centrisys	\$10,980.00	R. Ringle	10.3.2.10.03.002	Open/Contract Expires 12/31/22



## MEMORANDUM

**TO:** District and Authority Boards of Directors

**FROM:** Jason Cowles, P.E. 

**DATE:** October 19, 2022

**RE:** Central Colorado Mountains River Basin Weather Modification Funding Request

The Central Colorado Mountains River Basin Program (CCMRB Program) is a collaborative effort involving various local, State, and regional partners that provides funding for wintertime cloud seeding operations in the central Colorado Rockies. The target area for the CCMRB Program is depicted in blue shading on Figure 1 and includes portions of Grand, Summit, Pitkin, Eagle, and Lake counties in the upper Colorado River Basin watershed above 8,500 feet in elevation. Cloud seeding has been shown to increase snow water equivalent in target areas by as much as 2 to 5%, and is viewed as a cost effective way of generating more yield from winter storms.

Western Weather Consultants, LLC (WWC) provide contract cloud seeding operations for the CCMRB Program. WWC monitors and evaluates weather conditions throughout the target area for time periods with positive cloud seeding potential. Silver iodide crystals are dispersed into the atmosphere using a network of ground-based generators when wind patterns during selected storm events are anticipated to generate additional precipitation from the storms over the target area. According to an annual report on the winter 2021-2022 CCMRB Program, WWC seeded a total of 26 storms over 36 days and 2,758.75 hours of cloud seeding between November 11, 2021 and April 13, 2022. WWC estimated that cloud seeding operations produced an additional 71,550 to 85,373 acre feet (AF) of water within the target area at an estimated cost of \$3.46/AF to \$4.12/AF.

WWC operates the CCMRB Program under a 5-year permit issued by the State of Colorado that restricts cloud seeding operations based upon a variety of factors including snow water equivalent levels, avalanche hazard potential, blizzard warnings, and flooding potential. The permit is anticipated to be renewed by November 1 for an additional 5-year period.

The CCMRB Program is funded by contributions from State, local, and regional entities that contribute lump sum payments for annual operations at the beginning of each winter season. Any unspent funds are rolled into funding for subsequent years. In the past, the bulk of the funding for the CCMRB Program was provided by Vail Resorts. Following ski area closures during the COVID-19 pandemic, Vail Resorts ended its participation in the CCMRB Program. The District and Authority Boards subsequently agreed to provide \$15,000 each in annual funding with the expectation that Vail Resorts would eventually rejoin the program.



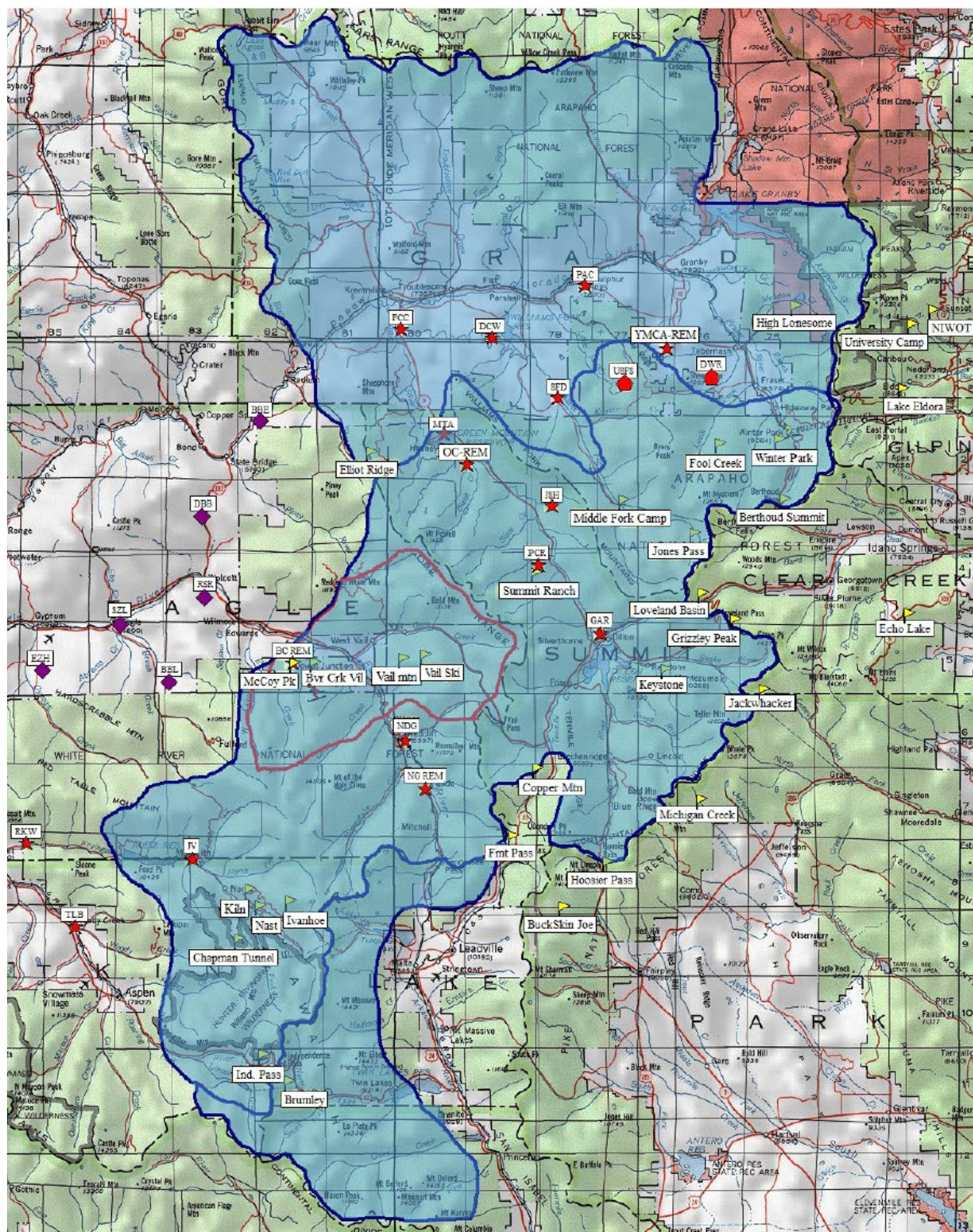


Figure 1: CCMRB Program Target Area Map



The Colorado River Water Conservation District (CRWCD) has received funding commitments from several entities to fund the estimated \$360,000 needed for CCMRB Program operations for the 2022-2023 winter season. The Colorado Water Conservation Board (CWCB) currently provides the bulk of the funding for the CCMRB Program with cooperating funds it receives from Lower Colorado River Basin States. Prior funding commitments obtained by the CRWCD for the 2022-2023 winter season are provided in Table 1. The District and Authority each budgeted \$15,000 for contributions during the 2022 budget year to fund 2022-2023 operations.


<b>Table 1: 2022-2023 CCMRB Program Funding</b>	
CWCB	\$125,000
Northern Water	\$ 25,000
Southeast Colorado Water Conservancy District	\$ 25,000
Aurora Water	\$ 25,000
Pueblo Board of Waterworks	\$ 12,500
Denver Water	\$ 25,000
Colorado Springs Utilities	\$ 25,000
Twin Lakes Reservoir and Canal Company	\$ 12,500
CRWCD	\$ 50,000
Eagle River Water & Sanitation District	\$ 15,000
Upper Eagle Regional Water Authority	\$ 15,000
Winter Park Resort	\$ 5,000
<b>Total</b>	<b>\$360,000</b>

Colorado Springs Utilities has since informed the CRWCD that they will not participate in the program this year but will reevaluate their participation next year. Unless another source of funding is secured to make up the deficit caused by Colorado Springs Utilities' withdrawal, it is my understanding that the program will simply decrease cloud seeding hours in the target area to operate within the budget of available funds.


In order to provide more certainty for the ongoing funding of the program and to reduce the administrative burden of securing annual funding contributions from participating entities, the CRWCD is seeking funding commitments to cover the remainder of the new 5-year permit for cloud seeding operations totaling \$450k per year. At this time, there are no firm commitments from Vail Resorts or other ski area partners, but the CRWCD is working on developing a ski area coalition for additional funding that would include Vail Resorts, Winter Park, Arapahoe Basin, Copper Mountain, and Aspen Ski Company.

Given the Boards' previous hesitancy to commit to becoming a long-term funding partner in the CCMRB Program, I would like to get direction from the Boards on how they would like to proceed so we can appropriately budget for 2023 and beyond. One option would be to provide funding for the 2022-2023 winter season as budgeted, then reevaluate future commitments and funding levels next year when other funding commitments have been secured.

Please let me know if you have any questions or need any additional information.

UERWA New Development Report Octoberber 2022								
		Type of Use	SFEs Proposed	Location	Existing Service Commitment?	Augmentation Requirement	Development Approval Process Step:	Construction Approval Process Step:
	140 W Beaver Creek Blvd (Extended Stay)	Residential	97.5	Avon	Yes		N/A	0. Conceptual
	Avon Dual Brand Hotel(Traer Tract J)	Commercial	85.05	Traer	Yes		6. Ability to Serve Letter	2. Plan Approval
	CMC Student Housing (Phase I & II)	Residential	72	Edwards	Yes		6. Ability to Serve Letter	2. Plan Approval
	CVC Clubhouse Residences	Residential	9	Edwards	Yes		6. Ability to Serve Letter	2. Plan Approval
	ECO School District Housing	Residential	37	Edwards	Yes		6. Ability to Serve Letter	2. Plan Approval
	Edwards River Park PUD	Mixed Use	440+com	Edwards	No	61.8	3. Cond. Capacity	0. Conceptual
	Fox Hollow Amended PUD	Mixed Use	108	Edwards	No	14	6. Ability to Serve Letter	1. Plan Review
	Frontgate (CO World Resorts)	Mixed Use	84	Avon	No	2.6	6. Ability to Serve Letter	2. Plan Approval
	Kudel Parcel	Residential	4	Edwards	No	2.4	6. Ability to Serve Letter	2. Plan Approval
	Margaux PUD	Residential	32	Edwards	No	3.56	3. Cond. Capacity	0. Conceptual
	Maverik Gas Station	Commercial	2.6	Traer	Yes		6. Ability to Serve Letter	2. Plan Approval
	McGrady Acres	Residential	24	Avon	Yes		6. Ability to Serve Letter	2. Plan Approval
	Mountain Hive	Residential	110.5	Edwards	No	14.1	2. Water Analysis	0. Conceptual
	NorthStar PUD Amendment	Commercial	TBD	Edwards	No	3.7	6. Ability to Serve Letter	2. Plan Approval
	Riverfront Lot 1	Residential	53	Avon	Yes		N/A	2. Plan Approval
	Riverwalk PUD Amendment	Residential	18	Edwards	No	1.8	4. Water Rights	N/A
	Stolport Restaurant (Traer Tract J)	Commercial	TBD	Traer	Yes		6. Ability to Serve Letter	1. Plan Review
	Swift Gulch	Residential	42	Avon	Yes		1. Connection Application	0. Conceptual
	Tract Y- Metcalf Road	Residential	54	Traer	Yes		1. Connection Application	1. Plan Review
	Vogelman Parcel (Carwash)	Mixed Use	1.5	Edwards	No	1.1-2.6	2. Water Analysis	1. Plan Review
	Warner Building 2 Conversion	Residential	13.25	Eagle-Vail	No	0.07	3. Cond. Capacity	N/A
	West End PUD Ammendment	Residential	275	Edwards	Yes		3. Cond. Capacity	0. Conceptual
	Projects Completing Warranty Period							
	6 West Apartments, 185 Elk Tract, Piedmont Apartments, Riverfront Village, Stillwater							
Process	Construction Approval Process Steps:	0. Conceptual	1. Plan Review	2. Plan Approval	3. Acceptance	4. Warranty Period	5. Final Acceptance	
	Development Approval Process Steps:	1. Connection Application	2. Water Demand Worksheet Analysis	3. Conditional Capacity to Serve Letter	4. Water Rights Allocation	5. Water Service Agreement	6. Ability to Serve Letter	



ERWSD New Development Report									
October 2022									
		Type of Use	SFEs Proposed	Location	Existing Service Commitment?	Augmentation Requirement	Development Approval Process Step:	Construction Approval Process Step:	
	534 E Lionshead Circle - Elevation	Residential	12	Vail	No	0.49	2. Water Analysis	0. Conceptual	
	500 E Lionshead Circle - Legacy	Residential	23	Vail	No	0.31	2. Water Analysis	2. Plan Approval	
	Alura (Miradoro)	Residential	10	Vail	No	0.83	1. Connection Application	1. Plan Review	
	Belden Place (1200 Block Main St)	Residential	41	Minturn	Yes		N/A	2 Plan Approval	
	Booth Heights	Residential	61	Vail	No	TBD	1. Connection Application	0. Conceptual	
	Highline (Double Tree Expansion)	Residential	43.65	Vail	No	0.79	6. Ability to Serve Letter	1. Plan Review	
	Midtown Village PUD	Res + Com	43.55	Minturn	Yes		1. Connection Application	1. Plan Review	
	North Minturn PUD	Residential	184	Minturn	Yes		N/A	1. Plan Review	
	The Residences at Main Vail	Residential	72	Vail	No	0.81	6. Ability to Serve Letter	2. Plan Approval	
	S. Frontage Rd Roundabout	Infrastructure	N/A	Vail	Yes		N/A	2. Plan Approval	
	Vail Mountain View Phase II	Mixed Use	37	Vail	Yes		6. Ability to Serve Letter	N/A	
	VVMC Phase II-East Wing	Commercial	--	Vail	Yes		N/A	2. Plan Approval	
	Vail Marriott Residence Inn	Mixed Use	75	Vail	Yes		N/A	2. Plan Approval	
	Wolcott PUD	Mixed Use	328 + Com	Wolcott	No	TBD	0. Conceptual	0. Conceptual	
	Projects Completing Warranty Period								
	3010 Basingdale (Phase II), 841/851 Main St Minturn, Red Sandstone Parking Garage								
Process	Construction Approval Process Steps:	0. Conceptual		1. Plan Review	2. Plan Approval	3. Acceptance	4. Warranty Period	5. Final Acceptance	
	Development Approval Process Steps:	1. Connection Application		2. Water Demand Worksheet Analysis	3. Conditional Capacity to Serve Letter	4. Water Rights Allocation	5. Water Service Agreement	6. Ability to Serve Letter	



## BOARD COMMITTEES

### DISTRICT

<i>Audit/Budget</i>	Dick Cleveland Steve Coyer
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<i>Employee Housing</i>	Steve Coyer Dick Cleveland
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<i>Retirement Plans</i>	Bob Warner Linn Brooks David Norris
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<i>Organizational Development</i>	Bob Warner Dick Cleveland
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<i>Facilities Master Plan</i>	George Gregory Bob Warner
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### JOINT

<i>Water Quality</i>	Sarah Smith Hymes (A) Timm Paxson (D)
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<i>Rules and Regulations</i>	Kim Bell Williams (A) Bob Warner (D)
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<i>Water Supply Planning</i>	Sarah Smith Hymes (A) Mick Woodworth (A) Kate Burchenal (D) Steve Coyer (D)
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<i>Climate Action Plan</i>	Sarah Smith Hymes (A) Kate Burchenal (D) Timm Paxson (D)
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(A) = Authority, (D) = District

### AUTHORITY

<i>Audit/Budget</i>	Geoff Dreyer George Gregory
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**UPPER EAGLE REGIONAL  
WATER AUTHORITY**

**GOVERNED BY:**

The Metropolitan  
Districts of:  
Arrowhead  
Beaver Creek  
Berry Creek  
EagleVail  
Edwards

The Town of Avon

**MEMORANDUM**

**TO:** Board of Directors  
**FROM:** Brian Thompson, Government Affairs Administrator  
**DATE:** October 21, 2022  
**RE:** Summary of Authority's Sept. 22, 2022, Board Meeting

The following is a summary of items discussed at the Authority's Sept. 22, 2022, Board Meeting.

Directors present and acting were Chair George Gregory, Vice Chair Sarah Smith Hymes, Secretary Kim Bell Williams, Treasurer Geoff Dreyer, Kevin Hillgren, and Mick Woodworth.

<b>Approval of minutes</b>	Directors approved the August 25, 2022, regular meeting minutes.
<b>Cash payment in lieu of dedicating water rights for Riverwalk at Edwards PUD Amendment</b>	Directors unanimously approved a \$76,792 cash payment in lieu of a 2.14 acre-foot water rights dedication for added service created by the 2022 Riverwalk at Edwards Planned Unit Development (PUD) Amendment.
<b>Indoor Efficiency Policy</b>	Directors unanimously approved a policy supporting indoor efficiency rebates that 1) assist in lowering monthly service costs for affordable and workforce housing types built before the 1994 plumbing codes and 2) could provide greater water supply benefits due to a property's location within the Edwards gap.
<b>Merge Public Water Systems' Regulatory Compliance Programs</b>	Directors unanimously approved combining the District and Authority public water system identification (PWSID) numbers into a single "Eagle River Water and Sanitation District" PWSID for regulatory compliance programs.
<b>Traer Creek Water Storage Tank</b>	Jeff Schneider provided updates on testing being conducting on the Traer Creek tank.
<b>Sanitary Survey</b>	Brad Zachman reported on the recent Sanitary Survey of the district water system. He said the Colorado Department of Public and Environmental Health issued final letters with no violations cited or questions about data or programs.
<b>Bolts Lake</b>	Jason Cowles said field activities are beginning at Bolts Lake at the end of September
<b>Communications &amp; Public Affairs Report</b>	Diane Johnson summarized the onboarding program for the Eagle Park Reservoir Company board of directors. She also reported on the Colorado River District's annual water seminar and said speakers urged all Colorado River system users to reduce overall water use in response to the continuing drought and depleted system storage.



## MEMORANDUM

**TO:** Board Budget Subcommittee

**FROM:** David Norris, Director of Business Administration

**DATE:** October 18, 2022

**RE:** Proposed 2023 Budget

### Introduction

An effective and efficient budget proposal is one that is a team effort and a cross-collaboration from all department managers and staff. This budget season, we continued the hybrid approach of zero-based budgeting and looking at revenue first. Using a collaborative effort of a cross-departmental team to aide in developing the proposed 2023 District and Authority budgets, the attached draft budget packet includes the staff recommended budgets for 2023.

The budget schedule is largely driven by statutory requirements. Critical dates are:

- Oct 15: Draft Budget must be submitted to each Board (Section 29-1-105, CRS)
- Dec. 15: Adopt Budget and appropriate moneys, if certifying a mill levy (Section 29-1-108(2), CRS)

Below is a summary of the proposed 2023 budget. Each topic was discussed in more detail at the first budget subcommittee meeting.

### *Proposed 2023 Budget Summary*

Total Budget Comparison	Amount	\$ Change	% Change
2022 Budget	72,833,471		
2022 Projection	68,008,651	(4,026,755)	(6.6%)
<b>2023 Proposed Budget</b>	<b>53,142,726</b>	<b>(12,442,533)</b>	<b>(20.4%)</b>
2022 Projected Carryforward	11,867,074		
<b>2023 Total Proposed Appropriated Funds</b>	<b>65,009,800</b>	<b>(7,823,671)</b>	<b>(10.7%)</b>

- Operating budget increase of 10.8% over 2022 projection, and 11.9% over 2022 Budget
- Capital & CRP increase 3.7% over 2022 projection, 16.1% decrease from 2022 Budget
- Bond decrease 62% from 2022 projection, 66.5% decrease from 2022 Budget

**Clean Water. Quality Life.™**

846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 Fax (970) 476-4089 [erwsd.org](http://erwsd.org)

*2023 Proposed Net Income Summary*

The proposed 2023 net income is \$1,103,709, \$827,438 wastewater and \$276,271 water to build the fund balance to reduce the reliance on Bond funding for future projects. The 2023 proposed CRP rates bring CRP expenses in balance. The positive Operating net income offsets the Capital deficit.

Type	Revenue	Expense	Net
Operating	30,037,027	28,182,685	1,854,342
Housing	846,370	538,406	307,964
Debt Service	8,512,895	7,716,103	796,792
CRP	2,800,441	2,281,000	519,441
Capital	710,878	3,085,708	(2,374,830)
<b>Subtotal</b>	<b>42,907,611</b>	<b>41,803,902</b>	<b>1,103,709</b>
Bond Projects		11,338,824	
<b>Total</b>		<b>53,142,726</b>	

*Proposed 2023 Water Rate Summary*

Water Service Base Charge/SFE/Month				
	2022	2023	\$ Change	% Increase
Base Rate Per SFE	\$20.09	\$22.10	\$2.01	10%
Debt Service 2017 Bonds	\$6.44	\$6.44	\$0.00	
Debt Service 2019 Bonds	\$2.28	\$2.28	\$0.00	
Capital Replacement Program	\$6.23	\$7.48	\$1.25	20%
<b>Base Portion of Bill/SFE/Month</b>	<b>\$35.03</b>	<b>\$38.30</b>	<b>\$3.27</b>	<b>9%</b>

Water Usage Rates (per kgal)				
<i>Note: 6 kgal per tier</i>	2022	2023	\$ Change	% Increase
Tier 1 (0 - 6,000 gallons)	\$3.39	\$3.59	\$0.20	6%
Tier 2 (6,001 - 12,000 gallons)	\$5.93	\$6.52	\$0.59	10%
Tier 3 (12,001 - 18,000 gallons)	\$11.72	\$12.89	\$1.17	10%
Tier 4 (18,001 – 24,000 gallons)	\$22.02	\$26.86	\$4.84	22%
Tier 5 (Greater than 24,000 gallons)	\$33.03	\$40.30	\$7.27	22%

Typical customer pays per SFE:	2022	2023	Increase	% Increase
<b>Base Fees &amp; 5 KGAL Use per Month</b>	<b>\$51.97</b>	<b>\$56.25</b>	<b>\$4.28</b>	<b>8%</b>

*Proposed 2023 Wastewater Rate Summary*

<b>Wastewater Service Base Charge/SFE/Month (\$6.48 per kgal to \$7.13 per kgal)</b>				
	2022	2023	\$ Change	% Increase
Base Service (min charge 5 kgal)	\$32.40	\$35.64	\$3.24	10%
Debt Service 2017 Bonds	\$2.77	\$2.77	\$0.00	
Debt Service 2020A Bonds	\$5.15	\$5.15	\$0.00	
Debt Service 2020B Bonds	\$2.74	\$2.74	\$0.00	
Capital Replacement Program	\$2.95	\$5.31	\$2.36	80%
<b>Base Portion of Bill/SFE/Month</b>	<b>\$46.01</b>	<b>\$51.61</b>	<b>\$5.6</b>	<b>12%</b>
<b>Typical customer pays:</b>	<b>2022</b>	<b>2023</b>	<b>Increase</b>	<b>% Increase</b>
<b>At 5 KGAL</b>	<b>\$41.66</b>	<b>\$51.61</b>	<b>\$5.60</b>	<b>12%</b>

*Proposed 2023 Wastewater & Water Combine Rate Summary*

<b>Combined Water and Wastewater</b>				
Typical customer pays per SFE/Month:	2022	2023	\$ Increase	% Increase
Vail Customer	\$97.98	\$107.86	\$9.88	10%

*Proposed 2023 Wastewater & Water Impact Fees*

<b>2023 Impact Fees</b>								
<b>EAGLE RIVER WATER &amp; SANITATION DISTRICT IMPACT FEES</b>								
<b>CONNECTION FEE</b>	<b>RESIDENTIAL</b>	<b>COMMERCIAL - Based on Meter Size</b>						
	<b>Base Rate Per Square Foot</b>	<b>¾" 1.5 SFE</b>	<b>1" 2.6 SFE</b>	<b>1½" 5.8 SFE</b>	<b>2" 10.3 SFE</b>	<b>3" 23.0 SFE</b>	<b>4" 40.9 SFE</b>	<b>6" 92.1 SFE</b>
<b>ERWSD-Wastewater</b>	\$5.08	\$17,437	\$30,224	\$67,422	\$119,733	\$267,364	\$475,442	\$1,070,616
<b>Vail Water Subdistrict</b>	\$5.85	\$18,794	\$32,577	\$72,670	\$129,052	\$288,174	\$512,448	\$1,153,950
<b>The following Other Impact Fee assessment may also apply:</b>								
<b>ERWSD-Irrigation Water System Impact Fee</b>	\$1.40 per sq. ft. of irrigation	Applies to new multi-family, open areas, new parks and commercial irrigated areas						

2023 Development, Inclusion & Dedication Fees		
Eagle River Water & Sanitation District	Upper Eagle Regional Water Authority	
DEVELOPMENT FEE/ DEDICATION/ DEPOSIT	RESIDENTIAL	COMMERCIAL
Inclusion Fee	\$1,100.00	
Treated Water Storage Dedication (New Tank)	Where no existing regional water storage is sufficient to serve the proposed development, an applicant will be required to construct and dedicate water storage sufficient to serve the needs of the development. See Treated Water Storage Dedication policy.	
Water Rights Dedication Review Deposit	\$1,650.00	
Water Rights Dedication Cash-in-lieu	\$66,063 per consumptive acre-foot of water*	

\*Details to be discussed during work session.

*Fund Balance Summary \* carryforward does not include bond funds*

District Funds	WW Fund	Water Fund	Total
Beginning Balance	17,824,663	3,432,021	21,256,684
2022 Projection	888,516	(382,237)	506,279
2023 Projected Beginning Balance	18,713,179	3,049,784	21,762,963
2022 Carry Forward	(2,624,867)	(300,889)	(2,925,757)
2023 Contribution	827,438	276,270	1,103,709
<b>2023 Projected End Balance</b>	<b>16,915,750</b>	<b>3,025,165</b>	<b>19,940,915</b>

## Budget Overview

### 2022 Operational Expense Budget Forecast

The 2022 operating budget was \$32,566,618; the 2022 projected operating expenditures are \$32,906,317, for a negative expense variance (actual spending greater than budget) of \$339,699, or 1% higher than budget. The primary driver for the overage is due to supply chain ordering increases, increases on IT services and security controls, meter ordering in 2022, as well as the results of the compensation study approved in the September Board meeting.

Note: Total expenditures include operations, outsourced services, payroll and benefits, and any expenditures related to debt service or debt issuance as those are typically capitalized and represented in our capital budgets

## 2023 Operational Expense Budget Summary

The 2023 operating budget decision item narratives describing each request are included as an attachment to this memorandum. The proposed 2023 operating budget is \$36,437,194, an increase of \$3,530,877 or 11.9% from the 2022 budget. As displayed below, the proposed 2023 budget by department, as it relates to 2022 budget, articulates the differences year over year. Decision items are included in the table below.

Department	2022 Budget	2022 Projection	2023 Proposed Budget	YOY Budget Var	% Change
Administration	2,211,501	2,077,741	2,310,376	98,875	4%
Community Relations	92,298	92,050	204,411	112,113	121%
Customer Service	808,612	865,163	1,125,167	316,555	39%
Engineering	2,508,918	2,415,396	3,015,564	506,646	20%
Field Ops	2,803,338	2,873,132	3,122,591	319,253	11%
Finance	1,088,000	1,188,270	1,073,414	(14,586)	-1%
Debt Service	7,712,097	7,712,097	7,716,103	4,006	0%
Housing	395,081	433,511	538,406	143,325	36%
Human Resources	1,681,074	1,736,160	1,869,564	188,490	11%
IT	2,502,482	2,925,294	3,462,346	959,864	38%
Lab	807,383	833,117	883,698	76,315	9%
Ops Tech	1,255,048	1,286,316	1,243,611	(11,437)	-1%
Utility Services	2,757,004	2,491,931	3,390,330	633,326	23%
Wastewater	3,720,380	3,626,727	3,934,739	214,359	6%
Water	2,223,402	2,349,411	2,546,876	323,474	15%
<b>Total</b>	<b>32,566,618</b>	<b>32,906,317</b>	<b>36,437,194</b>	<b>3,870,576</b>	<b>11.9%</b>

Below are notable changes from the original 2022 operating budget to the proposed 2023 Operating Budget, including the decision items and excluding debt. Departments not included in the list below projected minimal increases/decreases.

### Utility Services

- Increase meter purchases \$633,326 to include units sold to UERWA. This increase is offset by revenue from sales.

### Community Relations

- Increase of \$112,113 or 121% for change to mail in ballot process for 2023 election.

### Customer Service

- Increase of \$316,555 or 39% from the addition of four new positions.

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### Engineering

- Increase of \$506,646 or 20% from the realignment of salary and benefits

### Housing

- Increase of \$143,325 or 36% to include master leases and increase dues

### IT

- Increase of \$959,864 or 38% due to anticipated cost increases on software and hardware lines particularly, as well as scheduled maintenance.
- Replace 1/3 of laptops yearly to keep up with three-year replacement schedule
- Security Strengthening
- Decision Items

### Water

- Realignment of salary and benefits to reflect actuals as well as supply chain order issues and cost of supply increases

## Overall Payroll, and Benefits

The total number of full-time employees for 2023 is proposed to increase by 2, to 133 full time positions. Budget impacts to FTE increases are \$212,487. While 2 additional FTE are being requested this budgets cycle, there were needs equating to 12 overall FTE for the coming year. With a collaborative effort among the departments, the strategy was developed to concentrate on compensations and analysis study alignments and reduce the requests to allow for this opportunity.

- IT – Network Administrator
- Field Ops – Field Operator
- 2% Merit Increase
- 1% Cost of Living Adjustment

Request	FTE	Operating	Capital	Total
IT – Network Administrator	1.00	\$137,030	\$4,050	\$141,080
Field Ops – Field Operator	1.00	\$67,857	\$3,550	\$71,407
Merit Increase		\$241,835		\$241,835
Cost of Living Adjustment		\$119,720		\$119,720
<b>Total</b>	<b>2.00</b>	<b>\$566,442</b>	<b>\$7,600</b>	<b>\$574,042</b>

The proposed budget includes a 2% merit and 1% a cost-of-living adjustment (COLA) as approved at the September Board meeting. The combined increase is equal to \$361,555

Health and other benefit costs are projected to increase by 2.9%. It is proposed that the District shift the respective costs to the employee.

Total personnel costs (salaries and benefits) for 2023 are budgeted at \$17,151,877 an increase of \$1,784,078 from the 2022 projection, or 11.6%. Of this increase, \$566,442 is dedicated to FTE decision items, including new FTE and Merit/COLA packages.

## Capital Budget Overview

### Summary

The 10-year Capital Budget Spreadsheet for 2023 and decision item narratives describing each request are included as an attachment to this memorandum. The total proposed 2023 capital, CRP, and Bond budget is \$16,705,532, made up of \$14,618,608 in Wastewater projects and \$2,086,924 in Vail Water projects. The totals include the following major capital projects:

Fund Type	Project Name	2023 Budget	Total Project Budget
Bond	Avon WWTF Renewable Energy & Resilience	\$455,000	\$455,000
Bond	Dowd Junction Collection System Improvements	\$2,500,000	\$16,406,405
Bond	Field and Fleet HQ at AWWTF	\$1,700,000	\$5,000,000
Bond	Vail WWTF Master Plan Capital Improvements	\$3,901,650	\$10,553,008
Bond	North Frontage Road Water Main Connection	\$425,000	\$478,125
Bond	Gore Valley Trail @ Dowd Jct Repair	\$516,974	\$582,000
Bond	Bolts Lake Reservoir	\$225,000	\$22,501,208
Bond	Lower Glen Lyon Fire Flow Improvements	\$450,000	\$948,000
Bond	Minturn Siphon Project	\$150,000	\$2,650,000
Bond	Westhaven Sewer Main	\$200,000	\$3,700,000

In addition to 2023 requests for funding, the proposed 2023 capital budget is also comprised of projected carryforwards and returned funds from 2022. While every effort is made to accurately forecast project timing, rollovers and returned funds occur for various reasons. The major components are detailed below in Tables 1 and 2, respectively.

*Table 1: 2022 to 2023 Budget Carryforward Summary*

Fund Type	Department	Project Name	Estimated Carryforward	Description
Capital	Administration	Buckhorn Valley Lots	\$1,500,000	Budget carried while housing program is developed; under contract with architecture/design/land use approvals
Capital	Administration	Facility Rooftop Solar	\$100,000	Budget used to kick off GHG inventory study and remainder to fund solar master planning effort in 2023
Bond Project	Field Ops	10-3-2-10-01-006 Dowd Junction Collection System Improve.	\$2,961,208	Negotiated contract after no construction bids delayed start of project.
Capital	Field Ops	10-3-2-10-01-009 Collection System Master Plan	\$307,652	Schedule extension to capture runoff conditions and extensive field surveying
Capital	Field Ops	10-1-2-10-05-057 Hillcrest Field Operations Facility	\$74,479	Funding to address changes as a result of roundabout project
CRP	IT	10-1-2-00-45-135 CRP-Imprivata	\$40,000	Project to be completed in 2023
Capital	IT	10-1-2-00-45-309 Cityworks API for GE Proficy	\$30,300	Delayed start to project
Capital	Lab	10-3-2-10-03-701 Lab Equipment	\$468,492	No construction bids, long lead HVAC equipment pushed project until after AWWTF project completion.
Bond Project	Ops Tech	10-3-2-20-09-463 RTU System Upgrade	\$61,225	Small budget held for retrofitting sites experiencing overheating issues.
CRP	Utility Services	10-3-2-00-07-310 CRP-Vehicle & Heavy Equipment	\$145,360	Delays in receiving ordered vehicles
Capital	Utility Services	10-1-2-00-07-100 Wolcott Solar Farm	\$50,000	Funds carry for legal services related to indeterminate federal land acquisition
Bond	Wastewater	10-3-2-10-03-316 VWWTF Master	\$3,861,284	Project timing and expenditures

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Project		Plan Capital Improvements		are slowed due to 50-week lead time for standby generator
Bond Project	Wastewater	10-3-2-10-03-447 AWWTF Nutrient Upgrades	\$2,000,000	Post-completion work includes fencing and retaining wall
Capital	Wastewater	10-3-2-10-03-002 2022 WW Master Plan Update	\$57,600	Slower timing than anticipated; additional scope added for 2023 (decision item)
Capital	Water	10-3-2-20-09-022 West Vail Flow Control Improvements	\$114,869	Project taken in-house; in procurement phase
Capital	Water	10-3-2-20-09-018 Water System Emergency Power	\$68,708	Project held for Emergency Response Plan development
CRP	Water	10-3-2-20-09-016 Water Treatment Master Plan	\$25,897	Slower than anticipated project kickoff phase

The total carryforward is estimated to be \$11,867,074, comprised of \$11,504,959 from Wastewater projects, \$362,115 from Vail Water projects.

*Table 2: 2022 Projects Returned Funds Summary*

Fund Type	Project Name	Estimated Returned Funds	Description
Bond	10-3-2-10-03-447 AWWTF Nutrient Upgrades	\$3,000,000	Projected to complete \$3M under budget
CRP	10-1-2-00-45-106 CRP-GIS Improvements	\$81,500	Project cancelled; return to fund balance
CRP	10-1-2-00-45-125 CRP-Printers Improvement Upgrade	\$9,600	Prep line in case of needed purchase of new copier
CRP	10-1-2-00-45-140 CRP-AWWTP UCS & Nimble	\$5,163	Project completed
CRP	10-3-2-00-20-102 CRP-Locators & Correlators	\$6,957	Actual locator purchase less than budgeted
Capital	10-3-2-10-01-008 Bighorn Terrace Sewer Main-Sanitation Subdistrict	\$12,000	Project completed, return unspent funds
CRP	10-3-2-10-01-027 CRP-Sewer Capital Replacement Program	\$53,441	Sewer CRP projects completed under budget
Capital	10-3-2-20-09-014 Vail S. Frontage Road Water Main Replacement	\$22,916	Project completed, return unspent funds

CRP	10-3-2-20-09-447 CRP-Vail Water Capital Replacement Program	\$80,000	Numerous small projects completed, totals under budget
CRP	10-3-2-00-35-100 CRP-Lab Equipment Replacement	\$10,000	No small equipment replacement in 2022 with large lab project in progress
CRP	10-3-2-00-20-101 CRP-Asphalt Seal & Stripe	\$14,000	No seal/stripe at Avon WWTF due to ongoing construction
CRP	10-3-2-10-12-126 CRP-AWWTF Plant Repairs	\$28,494	Under budget due to ongoing major capital project
CRP	10-3-2-20-30-112 CRP-Distribution Industrial Painting	\$45,000	Partial work billed to expense account

The total returned funds are estimated to be \$3,369,071 comprised of \$3,000,000 from Wastewater Bond projects, \$189,350 from Wastewater projects, and \$179,721 from Vail Water projects.

### Debt Service

As stated in the 2022 budget memo, the District issued a series 2020A Enterprise Wastewater Revenue Bond (\$35M) and a 2020B Enterprise Wastewater Revenue Bond (\$25M). The 2020B Wastewater Bond paid off the 2012 Wastewater Revenue Bond. Based on a projected three-year capital outlay, it is expected that a \$45.2M Wastewater revenue bond will issued and net proceeds will be acquired mid-January 2023, with debt service obligations shifting into 2024. In addition, it is expected that a late 2023 bond may be necessary for the Vail Water fund equating to roughly \$3.5M.

District Bond Funds	WW Bond	Water Bond	Total
Beginning Balance	14,582,968	2,000,741	16,583,709
2022 Projection	27,717,723	2,257,626	29,975,349
2023 Projected Beginning Balance	(13,134,755)	(256,885)	(13,391,640)
2022 Carryforward	(8,880,092)	(61,225)	(8,941,317)
2023 Budget	(9,433,824)	(1,100,000)	(10,533,824)
2024 Budget	(5,100,000)	(150,000)	(5,250,000)
2025 Budget	(6,330,129)	(250,000)	(6,580,129)
2025 End Balance	(42,878,800)	(1,818,110)	(44,696,910)*

\*Estimated total at this time, the projects will be drafted for review to the board prior to issuance on new bond proceeds.

### Upper Eagle Regional Water Authority Operations Agreement

The Authority has contracted with the District to operate and maintain the water treatment plants in Avon and Edwards, the Berry Creek and Cordillera wells, the water distribution system, and to provide support services

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including accounting and billing, customer service, engineering, and other administrative activities such as board support and staff management. The Operations Agreement covers time, administrative costs, and office equipment and supplies associated with supporting the Authority's operations.

The Authority is billed monthly by the District based on an annually budgeted amount, and then the accounts are reconciled for each preceding year once the respective costs are properly allocated to each entity. In 2022, the operations agreement was increased from \$4,700,000 to \$6,750,000. The projected need for 2023 is \$7,425,000. Listed below is an actual costing from 2013 through 2022 (projected). For many years this agreement has been negotiated at certain rates and budgets. At the end of the fiscal year, true ups commence, and the Authority pays what is needed. Within the total budget package, there is a \$7,425,000 operations agreement request for 2023. This represents a 10% increase over 2022 to capture increases in personal services and materials.

Routine operations overhead include office and operations facilities, supplies and management overhead. Its components are generally split on payroll allocation percentage basis for the Authority and District, respectively. Personnel expenditures are based on the estimated costs for the District staff time spend on Authority operations.

For historical perspective, Table 3 below illustrates the actual costs related to the Operations Agreement since 2013.

Year	Total
2013	\$3,408,910
2014	\$3,345,025
2015	\$3,672,879
2016	\$3,614,276
2017	\$4,613,169
2018	\$4,561,104
2019	\$4,706,246
2020	\$5,726,773
2021	\$7,539,684
2022	\$6,750,000
2023	\$7,425,000

\*Increases in 2023 are primarily driven by increases in personnel services, information technology (IT) expenses.

### Housing Enterprise Fund

The Housing Fund is treated as an enterprise fund. This fund is comprised of rental revenue from our housing program and costs associated to the maintenance, upkeep, and HOA costs of our properties. This information is provided quarterly to the board(s). For 2023 and ongoing, sustainability efforts are budgeted in the program to continue our strategic prioritization of these concepts. The overall projected balances for 2022 for the Housing enterprise fund are below.

	2022	2023	2024	2025
Expenses	433,511	538,406	592,247	651,471
Sustainability Expenses	75,000	75,000	75,000	75,000
Income	605,143	846,370	888,689	933,123
Net Income (Loss)	171,632	307,964	296,442	206,652
Beginning Fund Balance	105,934	277,566	585,530	881,972
Projected End Balance	277,566	585,530	881,972	1,163,624
Target	525,000	551,250	578,813	607,754
Target Over/(Under)	(247,434)	34,280	303,159	555,870

\*Primary drivers to expense and revenue increases are due to master leasing increasing in 2023 and stabilizing in 2024 and on.

### Consumer Price-Index

The official Consumer Price Index increase for all urban consumers in Denver-Aurora- Lakewood for December 2020 to December 2021 was 3.54%. The CPI increase from June 2021 to June 2022 (again, Denver-Aurora-Lakewood) was 8.2%. Currently, the CPI for all of 2022 is forecast to be 8.2% by the Office of State Planning and Budgeting and 7.9% by the Legislative Council.

### 2022 Projection and 2023 Proposed Budget Line-Item Detail

Appendix A attached to this document.



## Decision Items

### Decision Items without Bond Projects

Department	Type	Description/FTE Title	FTE	FTE Amt	Operating	Capital	Total	2024 Amount	2025 Amount
Engineering	Capital	Greenhouse Gas Inventory				203,700	203,700		
Engineering	Operating	Sustainable Commuting Incentive Program			18,298		18,298	36,000	36,000
IT	Operating	Network Administrator II	1	137,030		4,050	141,080	137,030	137,030
IT	Capital	CS and US Conference Room Technology				22,962	22,962		
IT	Capital	Elk Analytics SIEM			83,275	10,000	93,275		
IT	Capital	VMWare Carbon Black			52,984		52,984		
IT	Capital	Backup Security Appliance				169,792	169,792		
IT	Capital	Truck Wi-Fi				40,000	40,000		
IT	Capital	RTU Cameras (for tanks)				192,533	192,533		
IT	Capital	RTU Firewall Replacement				221,795	221,795		
Field Ops	Capital	2 x Self leveling push camera				30,000	30,000		
Field Ops	Operating	Field Operator	1	67,857		3,550	71,407		
Field Ops	Capital	Trailer Truck				85,000	85,000		
Field Ops	Capital	Goose neck trailer				45,000	45,000		
Utility Service	Capital	Vehicle Replacement Program				180,000	180,000		
Wastewater	Capital	WW Master Plan Update Phase 2				378,800	378,800		
Wastewater	CRP	EWV Biofilter Media Replacement				317,000	317,000		
HR	Operating	2% Merit/Pay for Performance			241,835		241,835		
HR	Operating	1% Cost of Living Adjustment (COLA)			119,720		119,720		
Total			2.0	204,887	516,112	1,904,182	2,625,181	173,030	173,030

### Bond Decision Items

Department	Type	Description/FTE Title	Bond	Total	2024 Amount	2025 Amount
Engineering	WW Bond P	AWWTF Renewable Energy & Resilience	455,000	455,000		
Field Ops	WW Bond P	Minturn Siphon	150,000	150,000	500,000	2,000,000
Field Ops	WW Bond P	Westhaven Sewer Main	200,000	200,000	3,500,000	
Total			805,000	805,000	4,000,000	2,000,000



## Decision Items Details

### Name of Request: **Merit & COLA Increases**

#### Department: Human Resources

##### *Problem or Opportunity:*

The opportunity is to continue the District's values and mission to support its employees by requesting merit increases of budgeted amount of 2% and new to this budget year is a cost-of-living adjustment and policy with a budgeted amount of 1%. This policy was approved in the September Board meeting.

Merit pay, also known as pay-for-performance, is defined as a raise in pay based on a set of criteria set by the employer. This usually involves the employer conducting a review meeting with the employee to discuss the employee's work performance during a certain time period. Cost of Living Adjustment is defined as an increase to salaries that often depends on the rising cost of goods and services. The District is proposing to use ECI or Employee Cost Index which is pegged at a projected 4% for local governments and lags inflation or CPI numbers. Due to the approved compensation analysis and requests, staff is suggesting 25% of COLA or 1%.

##### *Consequences of Problem:*

Consequences of not doing this, include increased turnover, underappreciated and undervalued employees, as well as a bigger gap between market and our rates.

##### *Proposed Solution:*

The solution is a design tweak from prior years where a 2% budgeted merit would be assessed. This effectively states there is an amount in total set aside for merit increases. Pay for performance is a great way to incentivize top performers. With this our system historically has been monthly review scales of 1-5 with the average score around 4. The average score of the total monthly reviews performed is then the weighted score. In addition to this, the adjustment for COLA is added to the strategies to keep up with rising costs and wages over time.

##### *Costs:*

#### **Source: Operating**

<b>Costs</b>	<b>2023</b>
2% Merit/Pay for Performance	241,835
1% Cost of Living Adjustment (COLA)	119,720
<b>Totals</b>	<b>361,555</b>

## Name of Request: **Sustainable Commuting Incentive Program**

Department: Engineering

### *Problem or Opportunity:*

Reduce greenhouse gas (GHG) emissions from employee commuting. Though these emissions are not directly produced by our operations, they are related in that employees need to get to work to perform our critical service. It's a sustainability best practice to track and reduce GHG emissions from employee commutes, especially as that behavior can translate into how our employees utilize our District-operated fleet. Tracking employee commute emissions and implementing an annual survey is also an unmet objective within the Colorado Green Business Program, in which we are certified at the silver (mid) level. We have the opportunity to catch up to other leaders in the community in their encouragement and incentivization of more sustainable commuting patterns. As near-work housing becomes more difficult to procure and our local population continues to grow, there will be more cars on the road and more transportation-based emissions than ever. This presents an opportunity to positively impact both our community and environment.

### *Consequences of Problem:*

Continued and possible increased GHG emissions from employee commutes. Not including a holistic strategy to reduce the District's associated GHG emissions. Lack of employee sustainable commuting benefits, especially compared with other local entities (i.e., Vail Health, Holy Cross Energy). Misalignment with our strategic goal of prioritizing climate change and resilience in decision-making and our value of environmental stewardship.

### *Proposed Solution:*

The program will include a survey issued in fall 2022 to gauge current employee commuting behavior; this survey will then be issued annually for consistent data tracking. With data in hand, the District will then pilot a sustainable commuting program for employees. The program will be structured with a points system based on method of commuting. At the end of the year, points can equate to either a paid bonus or earned vacation time, depending on the employee's preference. The lowest emission method will receive higher points. An example structure that can be adjusted is below.

- Public transportation/carpooling = 1 point
- Zero emissions vehicle (E bike and EVs) = 2 points
- Walking/Biking = 3 points
- Set dollar value earned per point
- Points reflect one round trip

Program launch is anticipated on May 1st, 2023, to provide time to prepare language and craft a solution that reflects the survey results. Tracking of employee commutes will be conducted on SharePoint via an excel sheet with editing access. All employees will be able to view how their coworkers are sustainably commuting, leading to positive social norming. At the end of the calendar year, the program manager (designated as Kira Koppel at this time) will calculate the totals from the spreadsheet, confirm how employees would like to receive the benefit (vacation or bonus), and submit data to HR and finance to deliver the benefit. Benefits will be capped at either a \$600 bonus or 2 additional vacation days. Since the first year of the program is a pilot starting in May 2023 bonuses will be capped at \$400.

*Costs:***Source: Operating**

<b>Costs</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
Employee Sustainable Commuting Incentive	18,000	36,000	36,000
Free bus pass offering	297.50		
<b>Totals:</b>	<b>18,297.50</b>	<b>36,000</b>	<b>36,000</b>

Estimated utilization of clean commuting program would be about 60 employees, or 45%, based on the following information:

- 60 employees currently participate in Sole Power (tracking only active commuting: biking, walking, e-biking)
- Not all Sole power users log trips to work. Some are only social or errand-based trips.
- This program would expand qualified modes of transportation from the Sole power model to include carpooling, bus ridership, and driving an electric vehicle.

The total cost assumes a \$400 bonus if the employee commutes sustainably to our goal level (1/3 of the time). Future years project a \$600 bonus, considering the pilot program will run 2/3 of the length of the 2024 program (8 months vs. 12).

Employees have an option to earn 2 vacation days in lieu of the \$400, bringing the costs down depending on employee preference. Both options will be included in the program, as some employees are more incentivized by cash earnings, whereas others are more incentivized by additional time off.

Final costs include an assumption that 75% of participants will elect the cash bonus option.

Bus passes are included for those who can utilize them and would like one. A large demand for passes is not anticipated, but it's worthwhile to include (a few employees have already expressed interest). The District can purchase passes for employees at 15% of the regular cost. 10 10-ride bus passes are included in the request at \$29.75 per pass.

## Name of Request: **Greenhouse Gas Inventory**

### Department: Engineering

#### *Problem or Opportunity:*

We have an unknown breakdown of our greenhouse gas (GHG) emissions sources, making it difficult to set reduction goals or to prioritize one sustainability project over another. Climate change mitigation. We can't reduce what we don't measure. The District and Authority are both stakeholders in the Climate Action Collaborative and have committed to our local Climate Action Plan's most recent update (50% reduction from 2005 levels by 2030 and 80% reduction by 2050), which requires direct action. The 6th Assessment on Climate Change Report, released by the IPCC on August 6, presents data that shows immediate action must be taken to avoid the worst impacts of climate change. Warming will increase by over 1.5 degrees C since pre-industrial levels, but we have an opportunity to keep warming below 2 degrees C. This will require as much action as is possible between now and 2030. Establishing an emissions baseline is the foundation needed to inform further action we can take to address our own GHG emissions.

#### *Consequences of Problem:*

Lack of confidence in future emissions-reduction projects. Lack of guidance for our sustainability strategy; misalignment with sustainability goals and initiatives. Little to no effort to implement emissions reductions efforts. Going against our value of environmental stewardship and long-range planning and preparation

#### *Proposed Solution:*

Hire contractor Carollo to conduct a comprehensive greenhouse gas emissions inventory, including the following tasks:

- Task 1 - Project Management
- Task 2 – Regulatory Review and Summary
- Task 3 – Define System Boundaries
- Task 4 – Develop GHG Inventory Tool
- Task 5 – Perform Baseline GHG Inventory
- Task 6 – Prepare Draft and Final Report
- Task 7 – Inventory Training

Identifying exactly how much greenhouse gas emissions are produced from the treatment process versus purchased energy and transportation (fleet) will help us set realistic reduction goals and corresponding strategies. This inventory will set a baseline year for comparison and allow us to effectively compare emissions over time. This assists with the District's strategic plans in that Environmental Stewardship is a key value. Emissions must be considered to effectively adhere to it. It also aligns with our strategic value of prioritizing climate resiliency and sustainability in decision-making.

#### *Costs:*

#### **Source: Capital**

Costs	2023
Greenhouse Gas Inventory	203,700
<i>Totals:</i>	203,700

## Name of Request: **Avon Wastewater Treatment Facility Renewable Energy & Resilience**

Department: Engineering

### *Problem or Opportunity:*

Climate change mitigation and adaptation. Risk of increasing energy costs. Resilience measures. The 6th Assessment on Climate Change Report, released by the IPCC on August 6, presents data that shows immediate action must be taken to avoid the worst impacts of climate change. Warming will increase by over 1.5 degrees C since pre-industrial levels, but we have an opportunity to keep warming below 2 degrees C. This will require as much action as is possible between now and 2030. While we await Holy Cross Energy's electric supply to become 100% renewable by 2030, we can directly reduce emissions from District facilities by improving energy efficiency of our operations, installing rooftop solar PV, and adding battery storage for resilience measures. This will provide zero-carbon electricity. Additionally, the benefits from Holy Cross will decrease as they acquire additional renewable energy sources, so it's in our best interest to act sooner than later. With an uncertain energy future, being able to utilize onsite solar and potential battery storage to bring down energy costs and increase reliability will be key. The District and Authority are both stakeholders in the Climate Action Collaborative and have committed to our local Climate Action Plan's most recent update (50% reduction from 2005 levels by 2030 and 80% reduction by 2050), which requires direct action.

Opportunity: installing renewable energy will lead to a reduction of energy costs during the lifetime of the equipment (25 years). This is an excellent way to balance costs to ratepayers by reducing our operating costs as we move into the future. In the long term, this will save customers money.

### *Consequences of Problem:*

Rising costs of electricity for operations that will translate into increased rates for customers. Misalignment with sustainability goals and initiatives. Not acting on our commitments to the Climate Action Collaborative and Climate Action Plan. Working against our values of Environmental Stewardship and Long-Range Planning and Preparation. Contributing to the worsening effects of climate change. Uncertainty in future energy costs. Additional delays increase risk of rising material costs. Lack of access to available funding/rebates that are time-limited; funding opportunities are not always annual or consistent. Misalignment with Town of Avon's preference to incorporate solar energy on the rooftop as included in Nutrient Upgrade Project (NUP) approval.

### *Proposed Solution:*

Design and install 200 kW of solar PV on the roof with the capability to connect to future battery storage. This will create on-site renewable energy that can be utilized with zero greenhouse gas emissions. Holy Cross Energy will then pay us for the excess electricity generated, creating a source of revenue and a clear ROI. Adding this infrastructure will give us more certainty in our electric costs for the facility (soon to be a higher energy user than it was before the NUP) over the next several years. Once system is operational, it will reduce costs of energy for the facility almost immediately, reducing existing operational budget by \$10,428/year. Designing attachment to a future battery system is included in the proposal in order to address resilience concerns once batteries are more cost-effective.

The project is a turnkey, design-build project that will include the following:

- Design and installation of a code compliant system will all required equipment and labor

- Full system documentation including permitting, invoices, instructions, and warranty information provided during system installation
- All AC electrical connections, including system interconnection by a Colorado Certified Master Electrician
- All DC electrical work overseen by NABCEP certified staff
- Permit procurement and payment and facilitation of applicable rebate processes
- Remote monitoring system

Total system generation: 245,367 kWh/year, about 12% of the facility's energy needs. Payback over the 25-year warranted lifecycle of the equipment is 57% of the total cost, or \$260,702.

#### *Costs:*

**Source: Bond**

Costs	2023
Full system design & installation	455,000
Totals:	455,000

Cost is for a 200 kW solar PV system at Avon Wastewater Treatment Facility. Project will contain a proposal including future battery storage so improve facility resilience.

Total project cost includes rebates and credits (already deducted):

- Rebates reflected/built into total cost: \$2,000 from Energy Smart Colorado
- Includes the 30% solar investment tax credit direct pay as allowable for tax exempt entities through the recent Inflation Reduction Act

## Name of Request: **CCTV equipment upgrade**

### Department: Field Operations

#### *Problem or Opportunity:*

Improving investigation of distribution and collection system. Help other departments with investigation of assets. Improved technology compared to our push cameras.

#### *Consequences of Problem:*

Potential risk of missing damages in the system during investigation.

#### *Proposed Solution:*

It aligns with ERWSD safety culture and efficiency improvements.

#### *Costs:*

**Source: Capital**

Costs	2023
2 x Self leveling push camera	30,000
Totals:	30,000

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## Name of Request: **Field Operator Position**

Department: Field Operations

### *Problem or Opportunity:*

The FO team has been unable to complete all necessary maintenance metrics over the past few years, especially hydrant flushing and valve turning. This work is best practices and critical to reducing risk. Operations and Engineering continue to rely on FO for inspections, support, small construction projects etc., to continue this support work as well as to perform repairs in-house, an additional position is required.

### *Consequences of Problem:*

Outsourcing repairs, outsourcing support to Ops, not meeting AWWA maintenance goals.

### *Proposed Solution:*

Solution is to add one field operators to the team, build redundancy, a dig crew, meet all maintenance requirements and be able to support ops and engineering with heavy equipment operator needs.

### *Costs:*

**Source: Operating**

Costs	2023
Salary & Benefits	67,357
Supplies (FO)	500
Hardware & Software (IT)	3,550
Totals:	71,407

## Name of Request: **Minturn Siphon**

Department: Field Operations

### *Problem or Opportunity:*

Inflow and infiltration. Risk of pipeline failure with unprotected river crossing.



Inflow and Infiltration Reduction is now a part of our WWTF discharge permits, requiring repairs and improvements annually resulting in quantifiable reduction in flows. Minturn Siphon is a known maintenance



issue, capacity issue (identified in multiple master planning efforts). Siphon was budgeted in 2018 but was not commenced

*Consequences of Problem:*

Continued inflow and infiltration. Potential failure of pipeline from rocks or debris in river (flood event).

*Proposed Solution:*

Strategically Manage Infrastructure. Inflow and infiltration reduction helps meet WWTF permit goals and reduces treatment costs. Increases effective capacity. Strategic in that it may also benefit overall WWTF management strategy. Aging infrastructure with risk of failure and known deficiencies – one of 5 projects recommended in Collection MP effort

*Costs:*

**Source: Bond**

Costs	2023	2024	2025
Investigation/Preliminary Design/Permitting	150,000		
Final Design/Bidding/Begin Construction		500,000	
Balance of Construction			2,000,000
Totals:	150,000	500,00	2,000,000

Name of Request: **Difficult access truck and trailer**

Department: Field Operations

*Problem or Opportunity:*

Delivering excavator to the locations with limited access and in more timely manner. Avoiding the need to use lowboy to deliver excavator to the locations with limited access. Truck that is used for pulling small jetting trailer is set to be replaced in 2023, this truck would be used for that and hence avoid 2023 purchase.

*Consequences of Problem:*

Potential risk of damages to the properties and vehicles with operation of low boy in areas with limited access.

*Proposed Solution:*

To support operations of OTS, Water, and Wastewater Departments, and also align with ERWSD safety culture and efficiency improvements.

*Costs:*

**Source: Capital**

Costs	2023
Goose neck trailer	45,000
Truck (1 Ton capability)	85,000
Totals:	130,000



**Name of Request: Westhaven Sewer Main****Department: Field Operations***Problem or Opportunity:*

Risk of pipeline failure with unprotected river crossing. Inflow and Infiltration Reduction is now a part of our WWTF discharge permits, requiring repairs and improvements annually resulting in quantifiable reduction in flows. Inflow and Infiltration cause increased clean water flow into WWTF, therefore increased energy costs for pumping and treatment. Reliability and Redundancy – the pipeline is compromised and in an unprotected location in Gore Creek. High consequence of failure due to location and potential environmental and public health damages if failure occurs. Future bypass and collection system conveyance from Vail WWTF may require upsizing- can add capacity while improving compromised infrastructure. Potential for river enhancement in project scope. Output of 'High Priority Capital Improvements' deliverable produced by Merrick as part of Collection System Master Plan effort.

*Consequences of Problem:*

Continued inflow and infiltration. Potential failure of pipeline from rocks or debris in river (flood event).



Figure 6: Sewer pipe without concrete casing

*Proposed Solution:*

Strategically Manage Infrastructure. Inflow and infiltration reduction helps meet WWTF permit goals and reduces treatment costs. Increases effective capacity. Strategic in that it may also benefit overall WWTF management strategy. Aging infrastructure with risk of failure and known deficiencies – one of 5 projects recommended in Collection MP effort

*Costs:*

**Source: Bond**

Costs	2023	2024
Preliminary Design/Design/Bidding	200,000	
Construction		3,500,000
Totals:	200,000	3,500,000

**Name of Request: Truck Wi-Fi**

**Department: IT**

*Problem or Opportunity:*

From the inception of the RTU project, it was advertised that leveraging that communication infrastructure could provide the ability to broadcast ERWSD WiFi in select district vehicles for connectivity and WiFi calling in areas with little or no cell reception.

Our field crews rely on Cityworks and GIS during field work and emergency call outs. Cell service in the Vail Valley has many areas where connectivity is limited or non-existent. In an emergency, and throughout day-to-day operations, connectivity to our asset databases and location information is critical.

*Consequences of Problem:*

When connectivity to our critical databases and GIS systems is unavailable, it hinders our field crew's response in emergency situations. Additionally, communication itself, even to emergency services if impossible in areas with no cell service. This is dangerous and is a life safety issue.

*Proposed Solution:*

Now that the RTU project is nearing completion in 2022, we have the ability to add additional radios and equipment to the system to provide this critical connectivity. This is also critically important in terms of life safety. The ability to make an emergency phone calls, communicate with key District personnel, and better utilize our asset management systems, in emergency response situations when cell service is not available is critical. This additional equipment will provide this ability in key spots where cell reception is an issue.

*Costs:*

**Source: Capital**

Costs	2023
Truck Wi-Fi	40,000
Totals:	40,000

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## Name of Request: **Backup Security Appliance**

Department: IT

### *Problem or Opportunity:*

Currently we backup all our servers nightly to AWS government cloud. This works well to keep a backup copy offsite for disaster recovery. These backups are also locked or frozen for 10 days to protect against ransomware. We identified a major risk which is, in the event we needed to recover one or more of our plants for ICS control, this would take days to weeks to pull down the required data in order to completely restore operations.

We identified a major risk relating to our current disaster recover solution which is, in the event we needed to recover one or more of our plants for ICS control, this would take days to weeks to pull down the required data in order to restore operations. A backup appliance which supports protection from ransomware by providing an "Air Gap" solution would protect the backup from possible encryption or deletion, while also allowing us to recover hundreds of critical servers in minutes to hours rather than days or weeks. This is essential to protect servers that support critical District operations.

### *Consequences of Problem:*

In the event we needed to recover one or more of our plants for ICS control or other critical operations, this would take days to weeks to pull down the required data from AWS in order to restore operations. This would be a great hindrance to all departments if the systems they rely on were unavailable for this amount of duration.

### *Proposed Solution:*

Procure a backup appliance from ExaGrid which supports protection from ransomware by providing an onsite "Air Gap" solution which would protect backups from possible encryption or deletion. It would also allow us to recover hundreds of critical servers in minutes to hours rather than days or weeks. This is essential to protect servers that support critical District operations.

### *Costs:*

**Source: Capital**

Costs	2023
Backup Appliance	169,792
Totals:	169,792

## Name of Request: **Customer Service and Utility Services Conference Room Technology**

Department: IT

### *Problem or Opportunity:*

Through the renovation of the Vail Office location a new conference room was created. We had not budgeted for any conference room technology, so this was deferred until 2023.

*Consequences of Problem:*

Lack of a fully functional conference room to be used with Team meetings and collaboration.

*Proposed Solution:*

Utilize Solutionz to implement new conference room technology to allow this conference room to be fully functional and interact with other conference rooms. In the event the Walter Kirch room is full additional participants can join from this additional conference room.

*Costs:*

**Source: Capital**

Costs	2023
Conference Room Technology	22,962
Totals:	22,962

**Name of Request: Elk Analytics SIEM**

**Department: IT**

*Problem or Opportunity:*

Our current methodology to monitoring, detecting, and responding to critical threats relies upon our staff members to respond to alerts from our A.I. network engine, as well as our existing AV, and Solarwinds monitoring software. While these alerts are helpful, they are only a small fraction of the total amounts of logs and events we should be ingesting around the clock. Most organizations use a SIEM (Security Information and Event Management) platform to collect the millions of logs and provide real time intelligence to proactively detect and investigate threats before they are impactful.

Lack of a SIEM (Security Information and Event Management) to proactively detect and investigate threats before they become impactful to our business.

*Consequences of Problem:*

Failure to detect real time attacks and threats in a timely fashion could result in millions of dollars of losses should a compromise occur without our knowledge.

*Proposed Solution:*

Procure ELK Analytics SIEM (Security Information and Event Management platform to collect the millions of logs and provide real time intelligence to proactively detect and investigate threats before they are impactful. These alerts come from firewalls, switches, computers, security cameras, servers, virtual hardware, and ICS devices. Essentially every device with a microchip is constantly producing log and event information which without a management system in place, goes un-noticed due to staff shortages. The ELK Analytics SIEM platform also includes 24/7 security monitoring from experts in the Security Operation Center (SOC) for any events which require further analysis to identify security threats and vulnerabilities.

*Costs:*

**Source: Capital**

Costs	2023
SIEM Platform	93,275
Totals:	93,275

## Name of Request: **Network Administrator II**

Department: IT

### *Problem or Opportunity:*

Over the past 5 years our water and wastewater communications systems have been upgraded to current communications technologies. This has drastically increased the complexity and scope of the network infrastructure. We once had only 12 networks, today we have over 1200 separate networks which rely on fiber optics, long range wireless radios, and microwave radios. By Q4 2022, we will have over 400 network switches 120 firewalls, 100 long range wireless radios, 10 microwave radios, 2 millimeter radios, as well as AI networking protection. The upkeep on this amount of network infrastructure is extensive. Increasing the staffing in this area is important in order to have the coverage to maintain an infrastructure of this complexity.

This FTE would add a Network Administrator II to the Information Technology Department. Currently the network team is understaffed. With the wide array of technologies which make up the infrastructure for all 1200+ ERWSD networks including all remote tank and BPS communication equipment, coupled with the ever-growing need for a greater focus on network security we simply need more personnel in this area. This position would report to the Network Operations Supervisor to ensure continual availability, reliability, and security of all operational network communications in addition to maintaining the network infrastructure supporting all admin functions and locations.

### *Consequences of Problem:*

Supporting the entire network and communications both on the admin and operations side is no longer sustainable for a team of two people. Because of the myriad systems and network infrastructure required for the District's day to day operations, it is imperative we have the proper staffing to ensure we are not falling behind on upgrades and maintenance of these systems. Failure to maintain the latest code and patches on all our ICS infrastructure could present vulnerabilities which could be exploited by nefarious groups or organizations. Security breaches on several critical US infrastructure entities over the past few years is evidence that failure to maintain strict oversight of all deployed technologies can be costly and could ultimately cost human lives if not properly maintained and protected.

### *Proposed Solution:*

Adding another Network Administrator to the IT Department will allow us to keep up with the immense amount of complex routing, configuration, maintenance, security, and coverage of all our network infrastructure to ensure our systems are properly maintained and to minimize system down time. We would like to hire for a Network Administrator II which leaves room to hire a Network Administrator I instead if the appropriate candidate is found.

### *Costs:*

**Source: Operating**

Costs	2023	2024	2025
Salary and Benefits	136,530	136,530	136,530
Supplies	500	500	500
Telephone/Computer/Software	4,050		
Totals:	141,080		

Total cost for the IT department is \$137,030, where the breakdown is \$136,530 in salaries and benefits lines and \$500 to supplies lines.

IT budget would need an increase of \$4050 in operating lines to accommodate computer replacement and cell phone items.

### Name of Request: **RTU Cameras for Tanks**

Department: IT

#### *Problem or Opportunity:*

We need to provide surveillance to the first 24 RTU sites to complete the RTU project. We have the opportunity to install security cameras and conduit on all RTU locations in Vail, West Vail, and East Vail. All other RTU sites have already been completed except the first 24 from the project.

#### *Consequences of Problem:*

We have already had one water tank be defaced and we risk intrusion at other facilities without appropriate surveillance in place. Protecting our water supply is one of our highest priorities and this final project to complete the surveillance is necessary to do so.

#### *Proposed Solution:*

Install new surveillance cameras at the first 24 RTU sites to protect our tanks and booster pumps. This will also allow our operators to see thermal cameras of pump stations to confirm SCADA controls by telling exactly which pumps are running. Operators can also look at surveillance instead of having to physically go onsite to investigate an intrusion alarm.

#### *Costs:*

**Source: Capital**

Costs	2023
RTU Cameras	192,533
Totals:	192,533



## Name of Request: **RTU Firewall Replacement**

Department: IT

### *Problem or Opportunity:*

All RTU firewalls will go end of life in 2023. This means we will no longer receive firmware security patches. We need to replace all 84 RTU sites with current firewalls. While replacing each firewall we will be implementing a new model that has 4G capability to build in redundancy to the water system communications. If a radio becomes damaged or unavailable, the traffic will flow over the cellular network as a backup.

As RTU sites have been rolled out we have been implementing the Ruggedized 90D firewalls to all 84 RTU sites. This model has worked well but is unfortunately going EOL next year and thus needs to be upgraded in order to continue receiving firmware and security updates.

### *Consequences of Problem:*

Overall network security could be compromised without keeping these firewalls up to date. Failure to upgrade all RTU firewalls will also remove redundancies and make the water communication more susceptible to outages due to no redundancies.

### *Proposed Solution:*

Implement new RTU firewalls at all RTU locations with the latest firewall model including 4G cellular dual WAN configuration.

### *Costs:*

**Source: Capital**

Costs	2023
RTU Firewalls	221,795
Totals:	221,795

## Name of Request: **VMWare Carbon Black**

Department: IT

### *Problem or Opportunity:*

ERWSD currently uses a number of products to prevent from various infection, viruses and ransomware. Hardening our security posture relies upon staying current with new security solutions. We are heavily invested in VMWare's virtual infrastructure and our current AV solution does not have the ability to protect our VDI environment. We also are lacking software which can identify any critical vulnerabilities as they are discovered in the wild on our virtual servers.

There is an opportunity to add software that will complement our existing antivirus protection and secure all our virtual servers and workloads including the VDI environment. This software also scans all virtual machines and compares against the known vulnerability (CVE) database as new cataloged and publicly disclosed cybersecurity vulnerabilities are identified.



*Consequences of Problem:*

Not knowing about the presence of software versions with known vulnerabilities is a large risk. The labor hours it would take to complete this task manually on 400+ servers would be tremendous. This software does exactly that and will help our team patch vulnerabilities as they are discovered rather than reactively wait for one to be exploited. It also complements our existing AV solution to better protect our virtual servers and VDI machines for vendor and staff access.

*Proposed Solution:*

Procure VMWare Carbon black software solution to better protect all our virtual servers and workloads. This software will also give us a direct dashboard to identify any vulnerable software packages and assist with patching vulnerabilities before they can be exploited.

*Costs:*

**Source: Capital**

Costs	2023
VMWare Software	52,984
Totals:	52,984

## Name of Request: **Vehicle Replacement Program**

Department: Utility Services

*Problem or Opportunity:*

The District's fleet is steadily aging and the replacement program is structured to provide the District with the most cost-effective method to maintain its fleet. Sound fleet maintenance and management of vehicle replacement will also give the District the best return on its investment.

*Consequences of Problem:*

The District's fleet will continue to age and the return of investment will diminish. The District will attempt to obtain the highest sale value for its used vehicles and equipment based on the proposed vehicle replacement program structure.

The existing fleet needs to be reliable and in good working condition for everyday work to be completed, especially during emergency response.

*Proposed Solution:*

The solution is to follow the proposed vehicle replacement program to be as cost-effective as possible and capture the highest sale value for our used vehicles and equipment.

This request aligns with the following strategic plan guidelines:

- Customer Confidence
- Operational Excellence

*Costs:***Source: Capital**

<b>Costs</b>	<b>2023</b>
<b>Vehicle Replacement Program</b>	
Chevrolet Silverado 1500 (Replaces #265)	50,000
Chevrolet Silverado 1500 (IT Request)	45,000
Chevrolet Silverado 1500 (Replaces #35)	50,000
Chevrolet Silverado 3500 (Replaces #295)	90,000
Chevrolet Silverado 3500 (Replaces #105)	90,000
Chevrolet Silverado 3500 (Small Jetter Truck)	150,000
<b>Totals:</b>	<b>475,000</b>

**Name of Request: WW Master Plan Update Phase 2****Department: Wastewater***Problem or Opportunity:*

The Master Plan Update is driven by changes to CDPHE water quality regulations for nutrients (Regulation 85 and Regulations 31,33). Regulation 85 has established new end of pipe discharge limits for Total Phosphorus (TP) and Total Inorganic Nitrogen (TIN) of 1 mg/L and 15 mg/L, respectively, as annual median values. ERWSD previously negotiated staggered implementation of Regulation 85 for the three treatment facilities. Avon WW is nearing completion of construction of the improvements needed to meet this regulation. Edwards WW must comply with Regulation 85 limits no later than Jan. 1 2029. The Vail WW facility will need to comply with both Regulation 85 and the future revision to Regulation 31 and 33, which will result in even more stringent discharge limitations based on in-stream water quality parameters. The challenges of the existing infrastructure and site constraints at the Vail facility requires an innovative, system-wide strategy for compliance.

For Edwards WW to attain compliance with the Regulation 85 requirements by Jan. 2029 detailed design of the necessary improvements should start no later than Spring of 2024. Detailed design and construction of improvements at Edwards WW must consider the long-term strategy in operation of all three WW facilities, as changes at the upstream facilities directly impacts the influent characteristics at Edwards WW. This Master Plan Update effort is intended to define this strategy as necessary to minimize the overall cost to rate payers related to regulatory driven improvements at all three facilities.

*Consequences of Problem:*

Planning level coordination of the compliance strategy as related to all three treatment facilities is critical to minimize the total capital cost incurred from the necessary improvements.

*Proposed Solution:*

Carollo has identified the following scope areas for Phase 2 of the Master Plan Update effort:

- Detailed treatment alternative identification and analysis respective to Vail, Avon, and Edwards WW facilities.
- Detailed system-wide evaluation and analysis; coordination of impacts from treatment alternatives at upstream facilities.
- Biosolids planning, including production projections, regulatory review, and analysis of disposal options.
- Development of Capital Improvement Plan and final Master Plan Update report.

Budget is also included in this request to fund both laboratory testing and an extended onsite pilot to be performed by a prospective vendor to determine the viability of side stream treatment of the centrate return flow from the solids handling process. This is intended to significantly reduce the recycle loading of phosphorus, which could ultimately play a key role in the strategy for compliance with effluent phosphorus limits at Edwards WW.

- Edwards WW faces somewhat unprecedented challenges in compliance with phosphorus limits due to the loading contributed from the waste sludge from the Vail and Avon facilities. The ATAD solids handling system adds another degree of uniqueness to this significant challenge.
- Should the side stream treatment system be required to meet regulations, CDPHE will require a new technology approval to allow for this use in this application. This is another regulatory step on top of the Site Application Amendment and Design Review steps that we would normally anticipate as part of the upcoming Edwards WW detailed design. The pilot is intended to produce the data needed to achieve the technology approval.

*Costs:***Source: Capital**

Costs	2023
WW MP Phase II	378,800
Totals	378,800

**Name of Request: EWW Biofilter Media Replacement****Department: Wastewater***Problem or Opportunity:*

The ATAD solids handling system at Edwards WW inevitably produces odors as part of normal operations. Odors result from the presence of ammonia and reduced sulfur compounds. The odor control system at Edwards WW consists of several components, namely the trickling filters, biofilters, and photo ionization units. The biofilters perform the bulk of the work in removing the reduced sulfur compounds that are characteristic of ATAD system odors.

Biofilters use both inorganic (rock) and organic (wood) material to foster specific biological growth and consume the sulfur compounds. The organic material is inevitably consumed over the course of normal

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operation of the biofilter. TPS, the ATAD equipment vendor and designer of the biofilters, expects a 5-year service life for the organic (wood) portion of the biofilter media. The existing biofilter media was installed in 2016, and therefore will have been in service for nearly 7 years at the proposed time of replacement in 2023. Breakdown of the biofilter media has resulted in impacts to operation of the tertiary photo ionization units and has accelerated the wear and tear on these units.

*Consequences of Problem:*

Further delaying the biofilter media replacement will make it difficult to maintain negative air pressure in various process areas, which will increase the likelihood of intermittent nuisance odors.

Further delaying the biofilter media replacement will further accelerate wear on the photo ionization units. EWW staff have recently had to replace major components of these units due to the presence of unintended operating conditions. Failure of the photoionization units would likely result in noticeable odor in the Edwards community almost immediately.

*Proposed Solution:*

Advertise and competitively bid a project for replacement of the organic biofilter media in the early summer of 2023. Pursue alternative project delivery methods if there is insufficient interest in the competitive bid.

Note that the requested budget amount includes \$63k in owner contingency, which is 25% of the estimated project cost.

*Costs:*

**Source: CRP**

Cost	2023
Labor & Equipment (estimated)	103,000
Materials	94,000
Disposal	5,000
<b>Direct Costs</b>	<b>202,000</b>
GC – 8%	16,160
OHP – 15%	30,300
Bonds, Insurance – 2.5%	5,050
<b>Total Project Estimate</b>	<b>253,510</b>
Owner Contingency – 25%	63,000
<b>Total Budget</b>	<b>317,000</b>

## ERWSD Capital Project Budget Narratives

### Engineering

<b>Project Name: Bolts Lake Reservoir</b>	<b>Account Code: 10.3.2.20.09.136</b>
<b>Project Description:</b> 25% share of the costs of initial due diligence, land acquisition, permitting, design, and construction of the Bolts Lake Reservoir, located south of Minturn.	
<b>Statement of Need:</b> Needed to provide strategic in-basin storage to meet demands of future development, provide minimum in-stream flows, and hedge against uncertainty of climate change	
<b>2023 Budget Request:</b> 225,000 (ERWSD)	
<b>Total Project Budget:</b> 22,501,280 (ERWSD)	
<b>Basis of Estimate:</b> One fourth of actual land costs, rough conceptual estimates on design/permitting costs, and a conceptual cost estimate provided by the consulting engineering team	
<b>Engineer:</b> Shannon Wilson (Geotechnical), Leonard Rice (Water Resource/Diversion)	<b>Project Manager:</b> Jason Cowles

<b>Project Name: Reservoir Storage Master Plan</b>	<b>Account Code: 10.3.2.20.09.100</b>
<b>Project Description:</b> Project involves continued development and analysis of the District and Authority's water rights hydrology model, coordination with HSP on their Homestake System Model, coordination with the Eagle River Watershed Council Community Water Plan, and development of statement and purpose and need for permitting of future water supply project. Project has ongoing needs for water counsel and water engineering outsourced services.	
<b>Statement of Need:</b> Water supply planning shows that the District will need to develop additional in-basin storage supplies to meet demands of additional growth and provide strategic reserve for uncertainty regarding climate change, growth projections, and increased administrative calls.	
<b>2023 Budget Request:</b> 25,000	
<b>Total Project Budget:</b> 175,000	
<b>Basis of Estimate:</b> Internal estimate of level of effort	
<b>Engineer:</b> Various	<b>Project Manager:</b> Jason Cowles

<b>Project Name: Greenhouse Gas Inventory</b>	<b>Account Code: 10.3.2.00.07.301</b>
<b>Project Description:</b> This project will do a detailed inventory of greenhouse gas emissions in the treatment and distribution/collection processes system-wide. An inventory is the first step in establishing goals for emission reduction as well as set a baseline for benchmarking improvements.	
<b>Statement of Need:</b> Environmental Stewardships is a core value and sustainability is part of the ERWSD Strategic Plan. This work helps with goal setting and will help inform future projects in terms of what we can accomplish in the future to continue to be a leader in our community for sustainability.	
<b>2023 Budget Request:</b> 203,700	
<b>Total Project Budget:</b> 250,000	
<b>Basis of Estimate:</b> Internal estimate of level of effort	
<b>Engineer:</b> Various	<b>Project Manager:</b> Kira Koppel

## Field Operations

<b>Project Name: CRP-Locators and Correlators</b>	<b>Account Code: 10.3.2.00.20.102</b>
<b>Project Description:</b> Annual account for the purchase of location and correlation equipment.	
<b>Statement of Need:</b> Annual account, the need for locating and correlating equipment is increasing for utility locates and leak detection in the distribution system.	
<b>2023 Budget Request:</b> 15,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual budget based on past expenditures	
<b>Engineer:</b> NA	<b>Project Manager:</b> Niko Nemcanin/ Mike Thompson

<b>Project Name: Dowd Junction Collection System Improvements</b>	<b>Account Code: 10.3.2.10.01.006</b>
<b>Project Description:</b> This project is replacement of four major collection system components in the Dowd Junction area for end of life and capacity issues, consisting of: Lift Station 4, the Minturn Interceptor Aerial Crossing, the West Vail Interceptor Aerial crossing, and the LS 4 discharge force main. The Minturn Aerial Crossing and the West Vail Interceptor crossing are complete, and the Lift Station and Force Main (including upstream Gravity Interceptor) are currently under construction. We partnered with Eagle County to construct a missing portion of the Eagle Valley Trail in conjunction with the force main project. All work is under contract with completion scheduled for Fall of 2023.	
<b>Statement of Need:</b> High priority improvements identified in 2017 to address code compliance, equipment life cycles, redundancy, and capacity. Pre-design began in 2018.	
<b>2023 Budget Request:</b> 2,500,000	
<b>Total Project Budget:</b> 16,406,405	
<b>Basis of Estimate:</b> Actual construction contract values, 90%, and 60% engineer's estimates for various project components, plus escalation and contingency	
<b>Engineer:</b> HDR, Inc./Murraysmith (force main)	<b>Project Manager:</b> Jenna Beairsto

<b>Project Name: Collection System Master Plan</b>	<b>Account Code: 10.3.2.10.01.009</b>
<b>Project Description:</b> Master planning including hydraulic modeling, condition assessment, inflow and infiltration (I & I) study, and capital planning to address the future capacity and projects in the wastewater collection system. The project is well underway with extensive field surveying of the collection system, early infrastructure recommendations and flow metering data received.	
<b>Statement of Need:</b> A master plan is needed to address the aging infrastructure and potential capacity issues in the collection system. A topographic survey was completed from the Vail WWTF to the Edwards WWTF and in house modeling will be conducted as a baseline for the report. Our WWTF discharge permits contain requirements to identify and reduce I&I, further reinforcing the need for a master plan.	
<b>2023 Budget Request:</b> N/A – Rollover from 2022	
<b>Total Project Budget:</b> 661,559	
<b>Basis of Estimate:</b> N/A – Actual contract cost	
<b>Engineer:</b> Merrick	<b>Project Manager:</b> Micah Schuette

<b>Project Name: CRP – Sewer Capital Replacement Program</b>	<b>Account Code: 10.3.2.10.01.027</b>
<b>Project Description:</b> Annual account for small projects to correct deficiencies or maintenance issues such as dead-end lines, rehabilitation of manholes, insulating shallow lines, etc. Some small projects originate in Construction Review Team (CRT).	
<b>Statement of Need:</b> Annual account, commonly spent on replacing or repairing aging infrastructure or having funds available to partner with other entities' roadway projects.	
<b>2023 Budget Request:</b> 100,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Past annual expenditures	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Various

<b>Project Name: I&amp;I Reduction – District Wide</b>	<b>Account Code: 10.3.2.10.01.043</b>
<b>Project Description:</b> Annual account for to address inflow and infiltration (I&I) as identified by District staff.	
<b>Statement of Need:</b> Annual account, commonly spent on replacing or repairing aging infrastructure or having funds available to partner with other entities' roadway projects. Outsourcing CCTV inspection to locate I&I locations has been the recent use of funds; findings from Collection System Master Plan will help inform locations of future expenditures.	
<b>2023 Budget Request:</b> 100,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Past annual expenditures/project costs	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Niko Nemcanin

<b>Project Name: Water System Emergency Power</b>	<b>Account Code: 10.3.2.20.09.018 (ERWSD) &amp; 20.1.2.00.00.135 (UERWA)</b>
<b>Project Description:</b> This project is an ongoing effort to bolster the water distribution system's resiliency in the event of an extended power outage. The multi-year project includes a study or priority of which improvements are required at which facilities and construction of items such as generators and generator connections/transfer switches.	
<b>Statement of Need:</b> This budget was first approved in 2018 to address the water distribution system's ability to function during an extended power outage. Two small projects were completed and some self performed work at four booster pump stations in the Authority are currently underway.	
<b>2023 Budget Request:</b> N/A – funds rolled from 2022	
<b>Total Project Budget:</b> 70,000 (ERWSD); 225,000 (UERWA); Total 295,000	
<b>Basis of Estimate:</b> N/A – ongoing multi-year implementation	
<b>Engineer:</b> AE2S	<b>Project Manager:</b> Various



<b>Project Name: CRP – Vail Water Capital Replacement Program</b>	<b>Account Code: 10.3.2.20.09.447</b>
<b>Project Description:</b> Annual account for small projects such as small mainline extensions, replacements, or hydrant relocations for the Vail Water System.	
<b>Statement of Need:</b> Annual account for large purchase/small projects related to water mains and appurtenances in the Vail water system. Examples would include: working with developers/other entities on small projects, hydrant relocations, large pump station and PRV repairs or equipment purchases, etc. 2022 expenditures included addressing ERWSD-owned portions of service lines that froze the past winter.	
<b>2023 Budget Request:</b> 100,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual account, based on potential expenditures	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Niko Nemcanin

<b>Project Name: CRP – Distribution Industrial Painting</b>	<b>Account Code: 10.3.2.20.30.112</b>
<b>Project Description:</b> Annual account for small industrial painting projects at distribution system facilities such as PRV vaults and pump stations.	
<b>Statement of Need:</b> Annual account for painting various water system appurtenances. Industrial coatings are critical to extend the lifespan of various system assets due to corrosion.	
<b>2023 Budget Request:</b> 50,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual account, based on roughly 2-3 facilities per year	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Tony Roberts/Niko Nemcanin

<b>Project Name: Forest /Rockledge Private Sewer Replacement</b>	<b>Account Code: 10.3.2.10.01.045</b>
<b>Project Description:</b> This project replaces a private sewer main serving four customers on Forest Road and Rockledge Road in Vail with a public sewer main. The existing private main contains a manhole that does not meet specifications and is a contributor of Inflow and Infiltration.	
<b>Statement of Need:</b> This project originated in Construction Review Team when a redevelopment revealed the deficient private sewer main. The four homeowners have agreed to finance the project, making this a budget-neutral project. We are ready to begin work and are working with legal on a memorandum or agreement guaranteeing reimbursement from the homeowners.	
<b>2023 Budget Request:</b> 262,000	
<b>Total Project Budget:</b> 302,000	
<b>Basis of Estimate:</b> In-house conceptual estimate using current bid prices	
<b>Engineer:</b> JVA, Inc.	<b>Project Manager:</b> Woodson Spring

<b>Project Name: North Frontage Road Water Main Connection</b>	<b>Account Code: 10.3.2.20.09.024</b>
<b>Project Description:</b> This project connects a dead-end water main at the existing Middle Creek housing development with a new portion of water main to be constructed as part of the Residences at Main Vail development, installed in August of 2022. It will provide an important redundant loop to high density housing which helps reduce the consequence of failure of the deep crossing beneath I-70.	
<b>Statement of Need:</b> This project is part of the strategy for newer, more accessible water mains in Vail that began with the 2021 Vail South Frontage Road project. This project provides important redundancy to an aging water main crossing beneath I-70 and will eventually result in a looped water main along the North Frontage Road.	
<b>2023 Budget Request:</b> 425,000	
<b>Total Project Budget:</b> 478,125	
<b>Basis of Estimate:</b> In-house conceptual estimate using current bid prices	
<b>Engineer:</b> JVA, Inc.	<b>Project Manager:</b> Woodson Spring

<b>Project Name: Minturn Siphon Project</b>	<b>Account Code: 10.3.2.10.01.012</b>
<b>Project Description:</b> Wastewater flow through Minturn passes through an inverted siphon beneath the Eagle River. The siphon has long been a maintenance concern, and difficult to fully assess its condition. The project includes a detailed condition assessment and preliminary design prior to proceeding to a final solution.	
<b>Statement of Need:</b> As part of the Collection System Master Plan, Merrick was asked to provide a list of high priority projects. The siphon has long been a maintenance and capacity concern. Recent sewer flow meter data confirms that the siphon appears to be contributing I&I to the collection system, and with I&I rolled into WWTF discharge permitting requirement	
<b>2023 Budget Request:</b> 150,000	
<b>Total Project Budget:</b> 2,650,000	
<b>Basis of Estimate:</b> Conceptual engineer's estimate plus escalation	
<b>Engineer:</b> Merrick	<b>Project Manager:</b> TBD

<b>Project Name: Westhaven Sewer Main</b>	<b>Account Code: 10.3.2.10.01.019</b>
<b>Project Description:</b> The sewer interceptor flows along Gore Creek west of the Vail WWTF. At the Cascade Skier Bridge there exists an unprotected pipeline crossing in the creek in a deteriorated condition. This project was identified in the the 'High Priority Capital Projects' deliverable provided during the Collection System MP effort.	
<b>Statement of Need:</b> The section of pipeline crossing Gore Creek exhibited structural damage and is located in the creek, resulting in a high consequence of failure. Further, I&I is clearly exhibited in the inspection data. This project was prioritized ahead of others due to its location downstream of the Vail WWTF as it likely requires increased capacity to meet our plant bypass flows and overall nutrient management strategy.	
<b>2023 Budget Request:</b> 200,000	
<b>Total Project Budget:</b> 3,700,000	
<b>Basis of Estimate:</b> Conceptual engineer's estimate plus escalation	
<b>Engineer:</b> Merrick	<b>Project Manager:</b> TBD

<b>Project Name: CRP Heavy Equipment</b>	<b>Account Code: 10.3.2.00.07.309</b>
<b>Project Description:</b> A separate account was created for purchase of a gooseneck trailer. This trailer will haul a mini excavator and smaller equipment rather than needing to mobilize the large semi-truck trailer for water main repair work and emergency response.	
<b>Statement of Need:</b> The only trailer that hauls equipment is a large 'low boy' that requires a CDL and is overkill for smaller equipment hauling needs. This will enable better emergency response and flexibility for Field Operations.	
<b>2023 Budget Request:</b> 45,000	
<b>Total Project Budget:</b> 45,000	
<b>Basis of Estimate:</b> Vendor Quote	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Niko Nemcanin

## Housing

<b>Project Name:</b> District Housing Sustainability	<b>Account Code:</b> 10.1.2.00.05.013
<b>Project Description:</b> Sustainability expense line within the housing program.	
<b>Statement of Need:</b> To continue our efforts in focusing on sustainability expenses as it relates to housing. Replacement of appliances, with more sustainable appliances, charging stations at our housing properties for EVs and high efficiency investments in our program.	
<b>2023 Budget Request:</b> 75,000	
<b>Total Project Budget:</b> 75,000	
<b>Basis of Estimate:</b> Vendor Quote	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Michael Beardsley

<b>Project Name:</b> Buckhorn Project	<b>Account Code:</b> 10.1.2.10.05.052
<b>Project Description:</b> Buckhorn is a neighborhood in Gypsum where the District has owned 3 lots for many years. In 2022, the District board approved \$1.5M to build on the lots.	
<b>Statement of Need:</b> Housing needs are growing, and supply is lower than demand.	
<b>2023 Budget Request:</b> 1,500,000	
<b>Total Project Budget:</b> 3,000,000	
<b>Basis of Estimate:</b> Vendor Quote	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Michael Beardsley

<b>Project Name:</b> Future Housing Needs	<b>Account Code:</b> 10.1.2.10.05.053
<b>Project Description:</b> Future housing needs	
<b>Statement of Need:</b> Address housing crisis by investing in housing in the valley in the form of land acquisitions, dense housing collaborations or traditional builds.	
<b>2023 Budget Request:</b> 0	
<b>Total Project Budget:</b> 7,500,000	
<b>Basis of Estimate:</b> Vendor Quote	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Michael Beardsley

<b>Project Name:</b> CRP-Employee Housing	<b>Account Code:</b> 10.1.2.10.80.100
<b>Project Description:</b> Updates to our housing fleet to address updating and upkeep as capital expenses.	
<b>Statement of Need:</b> Upkeep and capital improvements in our housing properties.	
<b>2023 Budget Request:</b> 250,000	
<b>Total Project Budget:</b> 2,680,000	
<b>Basis of Estimate:</b> Vendor Quote	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Michael Beardsley

## IT

<b>Project Name:</b> Cameras for RTU Sites	<b>Account Code:</b> 10.1.2.00.45.307
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<b>Project Description:</b> Installing two security cameras at each of the 83 remote RTU sites over a multi-year implementation period. Operators can check real time video imagery to help with alarm responses, etc. This project will provide 2 security cameras at all RTU locations. One will be placed on the radio tower and the other will positioned based on need. The cameras used for internal areas will provide thermal awareness of running temperatures and the ability to monitor water on the floor. The UERWA sites will be completed in 2022 and the ERWSD (Vail) sites will be completed in 2023.	
<b>Statement of Need:</b> Increased security at remote sites is a goal and with the RTU's new communication technology there is capacity to install cameras and handle the data. This should reduce nuisance alarm callouts and should help operators better prepare in the event of a response to a callout.	
<b>2023 Budget Request:</b> 192,533	
<b>Total Project Budget:</b> 606,078	
<b>Basis of Estimate:</b> Vendor quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name:</b> Stone Security Control Access	<b>Account Code:</b> 10.1.2.00.45.308
<b>Project Description:</b> This project installs physical access control at 6 ERWSD facilities and Traer Creek Office, providing card access to all doors with motion sensing detection of forced entry. It also is providing an updated surveillance system on all doors and facility grounds. The base deployment to all of our facilities has been completed however with the changes to facilities based on other capital projects, continual additions and modifications to the system will need to take place. The budget for 2022 is intended to cover the removal of the manual keypads.	
<b>Statement of Need:</b> The main project was implemented in 2020 to better establish security at our facilities, in compliance with homeland security requirements and operator safety.	
<b>2023 Budget Request:</b> 50,000	
<b>Total Project Budget:</b> 110,000	
<b>Basis of Estimate:</b> Vendor quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name:</b> RTU Firewall Replacement	<b>Account Code:</b> 10.1.2.00.45.316
<b>Project Description:</b> This project will replace the Ruggedized 90D firewalls deployed at the 83 RTU sites throughout the system. The firewalls are at end of life and no longer supported; continuing their use may compromise network security. Further, the new firewalls have 4G cellular capability as a redundant communication network.	
<b>Statement of Need:</b> The firewalls are end of life and no longer able to receive important firmware and security updates. The new firewalls' redundant cellular configuration makes the water distribution network less susceptible to outages.	
<b>2023 Budget Request:</b> 221,795	
<b>Total Project Budget:</b> 221,795	
<b>Basis of Estimate:</b> Vendor Quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name:</b> Backup Security Appliance	<b>Account Code:</b> 10.1.2.00.45.320
<b>Project Description:</b> IT staff identified a risk related to disaster recovery in that the cloud backup solution would take weeks to restore normal operations. This new backup appliance	

would provide support from encryption, deletion, and ransomware and enable data recovery in a much quicker timeframe.	
<b>Statement of Need:</b> This solution would enable disaster recovery (restoring servers) in a matter of hours rather than days or weeks. Servers supporting critical District operations being down for an extended time would have a major disruption to operations – potentially impacting treatment and delivery.	
<b>2023 Budget Request:</b> 169,792	
<b>Total Project Budget:</b> 169,792	
<b>Basis of Estimate:</b> Vendor Quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name:</b> VM Ware Carbon Black	<b>Account Code:</b> 10.1.2.00.45.319
<b>Project Description:</b> VM Ware Carbon Black is a new cyber security product that hardens our network security and protects the virtual environment, protecting the already significant investment in VM Ware virtual infrastructure.	
<b>Statement of Need:</b> This solution complements the existing antivirus protection and secures virtual servers including Virtual Desktop. The software replaces hundreds of hours of manual work on locating software versions with known vulnerabilities.	
<b>2023 Budget Request:</b> 52,984	
<b>Total Project Budget:</b> 52,984	
<b>Basis of Estimate:</b> Vendor Quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name:</b> Elk Analytics SIEM Project	<b>Account Code:</b> 10.1.2.00.45.318
<b>Project Description:</b> SIEM (Security Information and Event Management) is another important network security tool that complements the existing systems. It collects millions of logs and provides real time intelligence to proactively detect and investigate threats before they are impactful. Nearly every device is producing events and is vulnerable to attack, the SEIM is the management systems that automates the collection and management of this data.	
<b>Statement of Need:</b> This product will improve our ability to detect real time threats and attacks to our network security and potentially result in incredible losses if a threat goes unnoticed. Additionally, the software includes 24/7 security monitoring.	
<b>2023 Budget Request:</b> 83,275	
<b>Total Project Budget:</b> 83,275	
<b>Basis of Estimate:</b> Vendor quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name: CRP-Server &amp; Network Improvements</b>	<b>Account Code: 10.1.2.00.45.109</b>
<b>Project Description:</b> This capital entry is to allow for the slow and progressive improvement of our network and server environment. We have progressively improved our network over time with an effort to fix and improve different pieces without performing a massive overhaul all at once.	
<b>Statement of Need:</b> Annual account for continual network improvements	
<b>2023 Budget Request:</b> 150,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual account – reflective of additional needs due to other projects and cost escalation/supply chain issues	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name: CRP-Desktop/Laptop Improvement Upgrade</b>	<b>Account Code: 10.1.2.00.45.124</b>
<b>Project Description:</b> This capital entry is allotted for the purchase of new desktops and laptops for new employees as well as replacing antiquated equipment for those who have been on staff for a while.	
<b>Statement of Need:</b> New staffing and aging equipment requires continual purchase of new equipment. The larger annual request is due to new staffing, supply chain issues, and cost escalations.	
<b>2023 Budget Request:</b> 160,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Place holder with the expectation of replacing roughly 20 new systems per year	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name: CRP-Printers Improvements Upgrade</b>	<b>Account Code: 10.1.2.00.45.125</b>
<b>Project Description:</b> This capital entry provides a place holder to purchase a new printer for an office location. We have steadily maintained our printer environment lowering our carbon footprint and continue to do so.	
<b>Statement of Need:</b> Annual printer purchase as equipment becomes obsolete.	
<b>2023 Budget Request:</b> 10,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual estimate assuming replacement of one unit per year	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way



<b>Project Name: CRP-Low Voltage Wiring</b>	<b>Account Code: 10.1.2.00.45.128</b>
<b>Project Description:</b> This capital entry funds all low voltage wiring, i.e. network cabling, communications lines, rewiring of radios, as needed. Through this capital replacement budget, we have methodically replaced and upgraded low voltage cabling throughout our facilities.	
<b>Statement of Need:</b> Low voltage wiring has a life expectancy around 15 years. This is a project that not only reflects the plants and facilities but also addresses when an office is rearranged, or an employee moves to a new location where network cabling did not exist prior. Larger request than 2022 (\$50k) due to cost escalations.	
<b>2023 Budget Request:</b> 70,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual estimate based on previous expenditures	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name: Truck Wi-Fi Project</b>	<b>Account Code: 10.1.2.00.45.315</b>
<b>Project Description:</b> The RTU system is located throughout the service area, including in some areas where cell service is spotty or non-existent. Since our field crews rely heavily on GIS and Cityworks software while deployed in remote sites, this project will utilize the RTU network backbone to provide connectivity in those areas.	
<b>Statement of Need:</b> Availability of asset management software while in the field is a critical need that helps our field teams manage our infrastructure. Additionally, this will provide better connectivity in the event of an emergency situation. The lack of connectivity in some areas could compromise the field response to situations where there is a need to communicate and utilize our network for information.	
<b>2023 Budget Request:</b> 160,000	
<b>Total Project Budget:</b> 160,000	
<b>Basis of Estimate:</b> Vendor quote	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name: CS/US Conference Room Technology</b>	<b>Account Code: 10.1.2.00.45.314</b>
<b>Project Description:</b> The Vail Admin Office Remodel project created a larger and newer conference room facility but did not include the technology contained in other larger conference facilities such as Kirch, Gelvin, and Sanford to host remote meetings. This project would provide that technology, improving collaboration in our new hybrid work environment and better utilize the conference room.	
<b>Statement of Need:</b> Conference facilities are often in short supply and the required technology enables better collaboration and efficient virtual meetings, likely saving resources in travelling to Denver and other locations to meet with various outside entities.	
<b>2023 Budget Request:</b> 22,962	
<b>Total Project Budget:</b> 22,962	
<b>Basis of Estimate:</b> Vendor quote	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

<b>Project Name: License Plate Reader Cameras</b>	<b>Account Code: 10.1.2.00.45.314</b>
<b>Project Description:</b> As part of our overall facility strategy, License Plate Reader Cameras were proposed in the 2022 budget process. Other priorities, and a major capital project at Vail and Avon WWTFs shelved the work until 2023. This will help track and control vehicles that access our facilities.	
<b>Statement of Need:</b> Increased security and vehicle access to our critical facilities is an ongoing need to protect our infrastructure. This project will assist our risk management team in dealing with parking problems and improve overall District security.	
<b>2023 Budget Request:</b> 25,000	
<b>Total Project Budget:</b> 25,000	
<b>Basis of Estimate:</b> Vendor quote	
<b>Engineer:</b> NA	<b>Project Manager:</b> Justin Way

## Lab

<b>Project Name:</b> CRP – Lab Equipment Replacement	<b>Account Code:</b> 10.3.2.00.35.100
<b>Project Description:</b> Annual account for large purchases of laboratory equipment.	
<b>Statement of Need:</b> Annual account, laboratory equipment is very specialized and potentially costly such as lab-grade dishwasher for glassware, etc.	
<b>2023 Budget Request:</b> 10,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Past annual expenditures	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Leah Cribari

<b>Project Name:</b> Lab Improvements	<b>Account Code:</b> 10.3.2.10.03.701
<b>Project Description:</b> This project brings metals analysis from contract laboratory testing to in-house. The project includes some interior and exterior modifications and the purchase of an Inductively Coupled Mass Spectrometer (ICP-MS) to perform metals testing. ICP-MS was purchased and is awaiting installation. Moltz Construction, the contractor for the AWWTF Nutrient Upgrades Project, is under contract to complete the work this winter/spring. Long lead times for the needed HVAC equipment pushed the project completion date.	
<b>Statement of Need:</b> Additional regulatory requirements in both water and wastewater lead to more metals sample collection and analysis requirements. This project will improve testing turnaround times (which could help with permit compliance).	
<b>2023 Budget Request:</b> N/A – rollover from 2022	
<b>Total Project Budget:</b> 818,492	
<b>Basis of Estimate:</b> Guaranteed Maximum Price (GMP) proposal from Moltz Construction	
<b>Engineer:</b> SGM, Inc.	<b>Project Manager:</b> Melissa Marts

## Ops Tech

<b>Project Name: OTS Spare Parts Inventory</b>		<b>Account Code: 10.1.2.00.47.100</b>	
<b>Project Description:</b> Annual account for purchase of electrical and controls equipment such as motors, starters, VFDs, communication cards etc.			
<b>Statement of Need:</b> Annual account for planned and potentially unforeseen purchases. Critical due to supply chain issues that could turn a simple card replacement into a months-long equipment outage.			
<b>2023 Budget Request:</b> 10,000			
<b>Total Project Budget:</b> Annual			
<b>Basis of Estimate:</b> Annual account, based on past expenditures			
<b>Engineer:</b> N/A		<b>Project Manager:</b> Various	

## Utility Services

<b>Project Name:</b> Hillcrest Field Operations Facility	<b>Account Code:</b> 10.1.2.10.05.057
<b>Project Description:</b> To provide for the Avon WWTF Nutrients project, certain vehicles, materials, and equipment were relocated to the Hillcrest property, located at 32001 US 6 in west Edwards. Work completed includes: new fencing and gate, lighting and electrical for diesel engine block heaters, and minor site grading. The remaining budget is to fund minor improvements and upgrades to improve the functionality of the property.	
<b>Statement of Need:</b> The project was driven by the need to relocate Field Operations equipment, materials, and other large inventory items such as water mains, hydrants, and manholes off site to provide for the construction of the Avon WWTF Nutrient Upgrades. Field Operations desires to conduct some small improvements to improve the functionality of the site in 2023. It is also recommended to keep budget in response to the 2023 Hillcrest Roundabout project planned by Eagle County.	
<b>2023 Budget Request:</b> N/A – Rollover unspent portion of \$75,422	
<b>Total Project Budget:</b> 150,000	
<b>Basis of Estimate:</b> Actual costs of improvements plus minor remaining work.	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Niko Nemcanin/Jeff Schneider

<b>Project Name:</b> Fleet Maintenance Facility at EWWTF	<b>Account Code:</b> 10.3.2.10.05.159
<b>Project Description:</b> This project was originally conceived as an all-in-one project to replace the aging fleet garage and solids loadout garages on the east half of the AWWTF facility and expand the administration building to create an operations headquarters at AWWTF. To better utilize ERWSD's available real estate and eliminate disruptions in Fleet services, it was decided to	
<b>Statement of Need:</b> This project alternative was identified in the 2020 Overall Facilities Master Plan but located at the Hillcrest parcel on US Highway 6; the concept is the same but at a different location contiguous with the Edwards WWTF property. The existing garage facilities at AWWTF are at the end of their useful lives. Constructing the facility to house Fleet at this property enables offline construction and reduces the scope, scale, and vehicle storage and parking needs at the AWWTF property.	
<b>2023 Budget Request:</b> 1,700,000	
<b>Total Project Budget:</b> 5,000,000	
<b>Basis of Estimate:</b> Conceptual cost estimate from Overall Facilities Master Plan	
<b>Engineer/Architect:</b> D2C Architects	<b>Project Manager:</b> Mark Mantua

<b>Project Name: Facility Rooftop Solar</b>	<b>Account Code: 10.1.2.00.05.012</b>
<b>Project Description:</b> New program to study and eventually install solar panels on various District facilities to meet ERWSD sustainability goals. Will be led by sustainability coordinator and begin with a study of various facilities and a pilot project. Eventual work will include design, permitting, and construction in the future.	
<b>Statement of Need:</b> ERWSD has numerous facilities with large, flat roofs that could be leverage to generate solar energy, helping to reach ERWSD sustainability goals with relatively low capital investment and full site control.	
<b>2023 Budget Request:</b> N/A rollover from 2022	
<b>Total Project Budget:</b> 100,000	
<b>Basis of Estimate:</b> In-house conceptual estimate for engineering/solar study and small pilot project based on similar project cost comparisons.	
<b>Engineer:</b> TBD	<b>Project Manager:</b> Kira Koppel

<b>Project Name: CRP-Building Remodels or Major Repairs</b>	<b>Account Code: 10.1.2.00.05.142</b>
<b>Project Description:</b> Annual account for major repairs or remodels	
<b>Statement of Need:</b> Items such as new roofing at Vail WWTF, painting roof at AWWTF, and other items as they come up. Currently working on designing and implementing improvements to the restrooms at the Vail Admin office, and in 2022 the fund was used to supply needed funds for the Vail Admin Office Renovations.	
<b>2023 Budget Request:</b> 200,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual budget based on past expenditures	
<b>Engineer:</b> NA	<b>Project Manager:</b> Shane Swartwout

<b>Project Name: AWWTF Rooftop Solar</b>	<b>Account Code: 10.1.2.00.05.014</b>
<b>Project Description:</b> Turnkey installation of a rooftop solar array on the newly expanded Avon WWTF facility. The proposed system is 200kW capacity to best align with Holy Cross Energy metering programs and will be expandable once battery storage becomes feasible. The 200kW system offsets 12% of the AWWTF plant's electrical demand and provides resiliency against increasing energy costs and power availability.	
<b>Statement of Need:</b> The AWWTF Nutrient Upgrade project included the structural capacity for future ballasted solar panel installation. This project is needed to offset our energy usage and make a small but meaningful step in our climate action goals. The expandability and capability to add battery storage will increase the value of the project in the long term.	
<b>2023 Budget Request:</b> 455,000	
<b>Total Project Budget:</b> 455,000	
<b>Basis of Estimate:</b> Multiple quotes from installers/vendors	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Kira Koppel/Carter Keller

<b>Project Name: CRP-Vehicle and Heavy Equipment</b>	<b>Account Code: 10.3.2.00.07.310</b>
<b>Project Description:</b> Annual account for the purchase of new fleet vehicles and heavy equipment	
<b>Statement of Need:</b> Based on mileage and depreciation of existing vehicles, also adding additional electric vehicles to the fleet. Based on staffing needs.	
<b>2023 Budget Request:</b> 360,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Vehicle quotes plus contingencies for staffing changes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Shane Swartwout

<b>Project Name: CRP-Asphalt Seal and Stripe</b>	<b>Account Code: 10.1.2.00.20.101</b>
<b>Project Description:</b> Annual account for maintenance of asphalt parking areas and parking lot striping	
<b>Statement of Need:</b> Annual account, location of work depending on condition	
<b>2023 Budget Request:</b> 14,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual account – based on past expenditures and vendor quotes	
<b>Engineer:</b> NA	<b>Project Manager:</b> Shane Swartwout



## Water

<b>Project Name: Water Treatment Master Plan</b>	<b>Account Code: 10.3.2.20.09.016</b>
<b>Project Description:</b> ERWSD portion (67/33) of a comprehensive master plan for water treatment and production facilities (plants, wells, raw water) plan using information contained in a detailed condition assessment, future growth, regulatory requirements, etc. Project originally budgeted for 2019 kickoff and due to challenges and management turnover, was contracted in 2022 and is scheduled to be completed in 2023.	
<b>Statement of Need:</b> The distribution system master plan was completed in 2020 which served as a background for system demands and identified the need for future production improvements. A comprehensive treatment/production master plan will help guide future capital needs in the water treatment/production category using the distribution plan as an input. A master plan will allow for better future capital spending data and guide the roughly \$2M/year invested in the ADWF, for example, to optimize future capital outlay to best address operational challenges, growth, regulatory changes, and obsolete or aging infrastructure replacement.	
<b>2023 Budget Request:</b> 66,667	
<b>Total Project Budget:</b> 166,667	
<b>Basis of Estimate:</b> Contract from Carollo Engineers	
<b>Engineer:</b> Carollo Engineers	<b>Project Manager:</b> Jenna Beairsto

<b>Project Name: WST Misc. Improvements</b>	<b>Account Code: 10.3.2.20.09.019</b>
<b>Project Description:</b> Annual account for small tank rehabilitation/repair projects throughout the Vail system's water storage tank inventory.	
<b>Statement of Need:</b> Periodic tank inspections often reveal potential sanitary issues such as separated overflow pipe joints, hatch issues, etc. The account was created in response to our 2019 CDPHE Sanitary Survey and represents a proactive approach to addressing storage tank deficiencies.	
<b>2023 Budget Request:</b> 150,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Placeholder, actual work typically less than budget	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Woodson Spring

<b>Project Name: Vail System Repairs</b>	<b>Account Code: 10.3.2.20.09.020</b>
<b>Project Description:</b> Annual account for small projects in the Vail water system at wells and treatment facilities.	
<b>Statement of Need:</b> Annual account for planned and unforeseen purchases and projects such as analyzers, wells, etc. 2022 expenditure included new pump and motor at Well R4.	
<b>2023 Budget Request:</b> 50,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Annual account, based on similar repair CRP accounts in WW system	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Andrew Kirch

<b>Project Name: West Vail Flow Control Improvements</b>	<b>Account Code: 10.3.2.20.09.022</b>
<b>Project Description:</b> This project was recommended in the 2020 Water System Master Plan to install flow control valves in two locations: the 1890 Buffeher PRV and the Glen Lyon PRV. The two locations have power and control capabilities nearby and should have a large positive impact on operations. Revised budget includes in-house design and implementation with small contracting efforts and the Glen Lyon location has been eliminated. Desired implementation timeframe is 2023.	
<b>Statement of Need:</b> The Water System MP identified a deficiency between current maximum day demand (MDD) and the production capacity of the West Vail wells. This deficiency was confirmed by operational concerns in the summer of 2020.	
<b>2023 Budget Request:</b> 50,000	
<b>Total Project Budget:</b> 250,000	
<b>Basis of Estimate:</b> Conceptual cost estimate from Water System MP plus small escalation/contingency factor.	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Andrew Kirsch

<b>Project Name: Main Gore Place Water Main Replacement</b>	<b>Account Code: New Account</b>
<b>Project Description:</b> This project involves replacement of undersized and end of life water main in East Vail. This location was the site of a costly, time consuming emergency repair in 2021, and there is concern that additional failures are possible. A proactive solution is always a better value than a reactive solution.	
<b>Statement of Need:</b> In 2021 a water main break caused emergency replacement of 36' of water main at an astronomical cost. It revealed corrosion issues, poor bedding conditions, high groundwater, and interference with the nearby sewer main. This has been identified as a high priority by Field Operations.	
<b>2023 Budget Request:</b> N/A – rollover and repurposed from 2022 account	
<b>Total Project Budget:</b> 498,000	
<b>Basis of Estimate:</b> Conceptual per LF costs	
<b>Engineer:</b> JVA, Inc.	<b>Project Manager:</b> Woodson Spring

## Wastewater

<b>Project Name: VWWTF Master Plan Capital Improvements – Phase 1</b>	<b>Account Code: 10.3.2.10.03.316</b>
<b>Project Description:</b> The project includes several scope items identified in the 2017 Wastewater Master Plan related to condition assessment items. A pre design phase was recently completed to further define the scope as: Emergency Generator and associated electrical improvements, flow bypass structure, structural improvements, and UV system rehabilitation.	
<b>Statement of Need:</b> High priority improvements identified in 2017 Master Plan to address code compliance, equipment life cycles, and redundancy. Project was deferred for multiple years; first budgeted in 2018, further pre design work completed in 2021 for 2022/23 construction.	
<b>2023 Budget Request:</b> 3,901,650	
<b>Total Project Budget:</b> 10,553,008	
<b>Basis of Estimate:</b> Guaranteed Maximum Price (GMP) proposals and estimates from PCL construction, plus engineering support proposals	
<b>Engineer:</b> Black and Veatch	<b>Project Manager:</b> Mark Mantua

<b>Project Name: CRP – VWWTF Plant Repairs</b>	<b>Account Code: 10.3.2.10.11.117</b>
<b>Project Description:</b> Annual account for unforeseen or planned larger repairs such as large pump motors, etc. beyond what is captured in Operation and Maintenance budgets. Typical request (50,000) greatly reduced due to capital project.	
<b>Statement of Need:</b> Annual account, commonly spent on replacing components of aging treatment facilities.	
<b>2023 Budget Request:</b> 15,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Past annual expenditures	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Hazel Selandar

<b>Project Name: CRP – AWWTF Plant Repairs</b>	<b>Account Code: 10.3.2.10.12.126</b>
<b>Project Description:</b> Annual account for unforeseen or planned larger repairs such as large pump motors, etc. beyond what is captured in Operation and Maintenance budgets. Typical request (50,000) reduced due to completion of major capital project.	
<b>Statement of Need:</b> Annual account, commonly spent on replacing components of aging treatment facilities.	
<b>2023 Budget Request:</b> 30,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Past annual expenditures	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Tim Drescher

<b>Project Name: CRP – EWWTF Plant Repairs</b>	<b>Account Code: 10.3.2.10.13.114</b>
<b>Project Description:</b> Annual account for unforeseen or planned larger repairs such as large pump motors, etc. beyond what is captured in Operation and Maintenance budgets. Typical request (135,000) increased due to improvements required to prevent major influent pump station failure that occurred in 2022, among other deferred maintenance items that cannot wait until larger nutrient project kicks off.	
<b>Statement of Need:</b> Annual account, commonly spent on replacing components of aging treatment facilities.	
<b>2022 Budget Request:</b> 135,000	
<b>Total Project Budget:</b> Annual	
<b>Basis of Estimate:</b> Past annual expenditures	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Nick Tessmer/Rob Ringle

<b>Project Name: WW Master Plan Update – Phase 2</b>	<b>Account Code: 10.3.2.10.03.003</b>
<b>Project Description:</b> 5 year update of the previous 2017 WW Master Plan to evaluate nutrient management strategies, update treatment model based on completion of AWWTF Nutrient Upgrades, and refine capital projections. During early work in 2022, additional modeling efforts and a field pilot system for sidestream nutrient removal were identified. Edwards WWTF, with its unique loading scenario of receiving solids from 3 facilities and high phosphorous levels, necessitates the full scale pilot.	
<b>Statement of Need:</b> Evolving regulatory climate necessitates master plan updates on a 5-year cycle after updates in 2012 and 2017.	
<b>2023 Budget Request:</b> 378,800	
<b>Total Project Budget:</b> 378,800	
<b>Basis of Estimate:</b> Carollo scope and fee estimate and treatment technology vendor quote	
<b>Engineer:</b> Carollo Engineers	<b>Project Manager:</b> Rob Ringle

<b>Project Name: CRP – EWWTF Biofilter Media Replacement</b>	<b>Account Code: 10.3.2.10.13.115</b>
<b>Project Description:</b> The Edwards WWTF has a multi-stage odor control system that treats odors from various plant processes. The most considerable odors are present in the solids digestion process and that process includes biofilters which contain consumable organic media. The media is a specialty product and the removal of old media and installation of new media requires specialty contractors and equipment.	
<b>Statement of Need:</b> The vendor recommends a 5-year life cycle replacement and the last time it was completed was in 2016. This is critical to the performance of the overall odor control system and the more it breaks down, the less airflow is permitted through the media.	
<b>2023 Budget Request:</b> 317,000	
<b>Total Project Budget:</b> 317,000	
<b>Basis of Estimate:</b> Quotation from supplier and estimate from previous effort in 2016, escalated	
<b>Engineer:</b> N/A	<b>Project Manager:</b> Rob Ringle

Appendix B - ERWSD 10-Year Plan

Description	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget	2028 Budget	2029 Budget	2030 Budget	2031 Budget	2032 Budget	Total
10-1-2-00-05-013 District Housing Sustainability	75,000										75,000
10-1-2-10-05-052 Buckhorn Valley Lot #94 0091 Cochise Dr.	1,500,000	1,500,000	-	-	-	-	-	-	-	-	3,000,000
10-1-2-10-05-053 Housing Acquisitions	-	-	-	-	7,500,000	-	-	-	-	-	7,500,000
10-1-2-10-80-100 CRP-Employee Housing	250,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,680,000
10-1-2-00-45-137 CRP-GPS Unit Replacement	-	-	40,000	-	-	-	-	-	-	-	40,000
10-1-2-00-45-303 Aerial Imagery Service Area Mapping	-	50,000	-	-	-	-	-	-	-	-	50,000
10-3-2-10-07-100 Gore Valley Trail @ Dowd Jct. Repair	516,974	-	-	-	-	-	-	-	-	-	516,974
10-3-2-20-09-100 Reservoir Storage Master Plan	25,000	50,000	-	-	-	-	-	-	-	-	75,000
10-1-2-00-05-014 AWWTF Renewable Energy & Resilience	455,000										455,000
10-3-2-00-07-301 Greenhouse Gas Inventory	203,700										203,700
10-1-2-00-45-200 CRP-Portable Radio Upgrade	-	25,000	-	-	-	-	-	-	-	-	25,000
10-3-2-00-20-102 CRP-Locators & Correlators	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	150,000
10-3-2-10-01-006 Dowd Junction Collection System Improve.	2,500,000	-	-	-	-	-	-	-	-	-	2,500,000
10-3-2-10-01-011 Vail WWTF Area Bypass and Collection Upgrades	-	-	75,000	506,000							581,000
10-3-2-10-01-027 CRP-Sewer Capital Replacement Program	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000
10-3-2-10-01-043 I & I Reduction - District wide	125,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,025,000
10-3-2-10-01-045 Forest Rd./Rockledge Private Sewer Replacement	262,000	-	-	-	-	-	-	-	-	-	262,000
10-3-2-20-09-447 CRP-Vail Water Capital Replacement Program	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000
10-3-2-10-01-012 Minturn Siphon	150,000	500,000	2,000,000								2,650,000
10-3-2-10-01-019 Westhaven Sewer Main	200,000	3,500,000									3,700,000
10-1-2-00-45-109 CRP-Server & Network Improvements	150,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	600,000
10-1-2-00-45-124 CRP-Desktop/Laptop Improvement Upgrade	160,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	385,000
10-1-2-00-45-125 CRP-Printers Improvement Upgrade	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000
10-1-2-00-45-128 CRP- Low Voltage Wiring	70,000	25,000	-	-	-	-	-	-	-	-	95,000
10-1-2-00-45-307 Cameras for RTU Sites	192,533	-	-	-	-	-	-	-	-	-	192,533
10-1-2-00-45-308 Stone Security Control Access	50,000	-	-	-	-	-	-	-	-	-	50,000
10-1-2-00-45-314 License Plate Reader Cameras	25,000	-	-	-	-	-	-	-	-	-	25,000
10-1-2-10-80-101 CRP- Safety & Security	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000
10-1-2-00-45-315 Truck Wi-Fi	40,000										40,000
10-1-2-00-45-316 RTU Firewall Replacement	221,795										221,795
10-1-2-00-45-317 CS and US Conference Room Technology	22,962										22,962
10-1-2-00-45-318 Elk Analytics SIEM	83,275										83,275
10-1-2-00-45-319 VMWare Carbon Black	52,984										52,984
10-1-2-00-45-320 Backup Security Appliance	169,792										169,792
10-3-2-00-35-100 CRP-Lab Equipment Replacement	10,000	80,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	170,000
10-1-2-00-47-100 OTS Spare Parts Inventory	10,000										10,000
10-3-2-20-09-463 RTU System Upgrade	-	25,000	-	-	-	-	-	-	-	-	25,000
10-1-2-00-05-110 Vail Office Remodel/Parking Improvements	-	-	-	-	-	250,000	1,750,000	3,000,000	500,000	-	5,500,000
10-1-2-00-05-142 CRP-Building Remodels or Major Repairs	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000
10-3-2-00-20-101 CRP-Asphalt Seal & Stripe	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	140,000
10-3-2-10-05-159 Field and Fleet HQ at AWWTF	1,700,000	3,000,000	-	-	-	-	-	-	-	-	4,700,000
10-3-2-00-07-309 CRP-Heavy Equipment	45,000										45,000
10-3-2-00-07-310 CRP-Vehicle	360,000	100,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,010,000
10-3-2-10-03-002 2022 WW Master Plan Update	436,400	-	-	-	-	-	-	-	-	-	436,400
10-3-2-10-03-316 VWWTF Master Plan Capital Improvements	3,901,650	-	-	-	-	-	-	-	-	-	3,901,650
10-3-2-10-03-339 VWWTF Master Plan Capital Improvements – Phase 2	-					500,000	1,500,000	4,000,000	4,000,000		10,000,000
10-3-2-10-03-505 EWWTF Master Plan Capital Improvements	-	2,100,000	3,900,000	20,000,000	20,000,000	20,000,000	-	-	-	-	66,000,000
10-3-2-10-11-117 CRP-VWWTF Plant Repairs	15,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	465,000
10-3-2-10-12-126 CRP-AWWTF Plant Repairs	30,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	480,000
10-3-2-10-13-114 CRP-EWWTF Plant Repairs	135,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	585,000
10-3-2-10-03-003 2022 WW Master Plan Update Phase 2	378,800	-									378,800
10-3-2-10-13-115 EWW Biofilter Media Replacement	317,000					350,000					667,000
10-3-2-20-09-016 Water Treatment Master Plan-	66,667	-	-	-	-	-	-	-	-	-	66,667
10-3-2-20-09-019 Water Storage Tank Misc. Improvements	100,000	150,000	150,000	150,000	150,000	150,000	150,000	100,000	100,000	100,000	1,300,000
10-3-2-20-09-020 CRP-Vail Wtr System Repairs	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
10-3-2-20-09-022 West Vail Flow Control Improvements	50,000	75,000	-	-	-	-	-	-	-	-	125,000
10-3-2-20-09-024 N. Frontage Road Water Main Connection	425,000	-	-	-	-	-	-	-	-	-	425,000
10-3-2-20-09-025 Lower Glen Lyon Fire Flow Improvements	450,000	-	-	48,000	450,000	-	-	-	-	-	948,000
10-3-2-20-09-136 Bolts Lake Reservoir	225,000	125,000	250,000	500,000	6,250,000	6,250,000	6,250,000	-	-	-	19,850,000
10-3-2-20-30-112 CRP-Distribution Industrial Painting	50,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	293,000
<b>Grand Total</b>	<b>16,705,532</b>	<b>12,426,000</b>	<b>7,696,000</b>	<b>30,035,000</b>	<b>28,181,000</b>	<b>28,831,000</b>	<b>10,981,000</b>	<b>8,431,000</b>	<b>5,931,000</b>	<b>1,431,000</b>	<b>150,648,532</b>

**ERWSD Appendix A - Line-Item Detail**

Type Detail	Department	Account	2022_Budget	2022 YE Proj.	2023_Proposed Budget	2023_Proposed Budget & Carryforward
Operating	Administration	10-1-9-00-70-080 Board Meeting/Travel Expenses	2,115	2,132	4,500	4,500
		10-1-9-00-70-090 Directors Fees	18,000	18,000	18,000	18,000
		10-1-9-00-71-090 Employee Recognition	3,500	1,625	2,000	2,000
		10-1-9-00-71-600 General Operations	40,000	15,179	25,000	25,000
		10-1-9-00-71-670 Training/Travel	3,000	3,000	3,000	3,000
		10-1-9-00-90-190 General Legal	130,000	130,000	120,000	120,000
		10-1-9-10-80-107 Housing - Fees EHOP	1,500	3,000	3,000	3,000
		10-3-9-00-70-050 Document Scanning	-	25,000	5,000	5,000
		10-3-9-00-70-260 Janitorial Supplies	2,957	589	589	589
		10-3-9-00-70-320 Employee Support Supplies	5,059	5,056	5,000	5,000
		10-3-9-00-70-370 Office Furnishings and Equipment	15,006	2,003	2,500	2,500
		10-3-9-00-70-400 Office Supplies and Printing	12,553	4,108	6,000	6,000
		10-3-9-00-70-455 Postage & Shipping	41,487	41,228	41,487	41,487
		10-3-9-00-70-465 Publications and Recordings	5,040	1,533	2,500	2,500
		10-3-9-00-70-700 Membership Fees	3,022	9,433	2,000	2,000
		10-3-9-00-70-775 Other Real Estate Leased	132,467	117,831	137,623	137,623
		10-3-9-00-70-800 Salaries	918,314	981,768	1,168,486	1,168,486
		10-3-9-00-70-820 Overtime	1,910	1,910	2,163	2,163
		10-3-9-00-70-830 SS Match 6.2%	57,054	57,054	64,622	64,622
		10-3-9-00-70-840 Health/Life Insurance	207,010	222,010	222,010	222,010
		10-3-9-00-70-850 Medicare Match	13,343	13,343	15,113	15,113
		10-3-9-00-70-860 Pension Contribution - 401(A) Match	46,011	56,011	52,114	52,114
		10-3-9-00-70-870 Unemployment Compensation	2,755	2,755	3,120	3,120
		10-3-9-20-70-030 Water Rights Protection-Legal	125,000	-	-	-
	<b>Administration Total</b>		<b>1,787,103</b>	<b>1,714,568</b>	<b>1,905,826</b>	<b>1,905,826</b>
	Community Relations	10-1-9-00-70-100 Election Expense	15,000	13,682	135,000	135,000
		10-1-9-00-75-060 Community Relations	19,948	19,948	12,061	12,061
		10-1-9-00-75-070 Sponsorship	5,000	5,000	5,000	5,000
		10-1-9-00-75-090 CR Employee Recognition	150	-	150	150
		10-1-9-00-75-400 Office Supplies and Printing	10,000	-	10,000	10,000
		10-1-9-00-75-600 CR Department Operations	25,000	36,420	25,000	25,000
		10-1-9-00-75-670 Training/Travel	2,000	2,000	2,000	2,000
		10-1-9-00-75-700 Membership Dues	15,000	15,000	15,000	15,000
	<b>Community Relations Total</b>		<b>92,298</b>	<b>92,050</b>	<b>204,411</b>	<b>204,411</b>
	Customer Service	10-3-9-00-50-045 After Hours Service	16,000	17,139	12,000	12,000
		10-3-9-00-50-060 Automatic Bank Debit Fees	200,000	163,218	185,000	185,000
		10-3-9-00-50-070 Customer Relations	3,689	3,689	2,500	2,500
		10-3-9-00-50-075 Drought Preparedness Expense	-	-	-	-
		10-3-9-00-50-090 Employee Recognition	1,300	861	720	720
		10-3-9-00-50-100 Cust. Info Document Disposal	5,500	2,348	2,500	2,500
		10-3-9-00-50-150 Floor & Site Plan Measurements	15,000	15,000	15,000	15,000
		10-3-9-00-50-350 Outsource of Utility Bills Expense	12,541	6,121	8,500	8,500
		10-3-9-00-50-670 Training/Travel	3,990	1,148	3,000	3,000
		10-3-9-00-50-750 Uniform Allowance	-	-	-	-
		10-3-9-00-50-800 Salaries	386,195	491,241	696,105	696,105
		10-3-9-00-50-810 Temporary	17,668	17,668	-	-
		10-3-9-00-50-820 Overtime	9,550	9,550	17,214	17,214
		10-3-9-00-50-830 SS Match 6.2%	25,632	25,632	46,201	46,201
		10-3-9-00-50-840 Health/Life Insurance	83,670	83,670	86,180	86,180
		10-3-9-00-50-850 Medicare Match	5,994	5,994	10,804	10,804
		10-3-9-00-50-860 Pension Contribution - 401(A) Match	20,671	20,671	37,259	37,259
		10-3-9-00-50-870 Unemployment Compensation	1,212	1,212	2,185	2,185
	<b>Customer Service Total</b>		<b>808,612</b>	<b>865,163</b>	<b>1,125,167</b>	<b>1,125,167</b>
	Engineering	10-3-9-00-40-090 Employee Recognition	1,000	1,000	1,200	1,200
		10-3-9-00-40-170 Easements and District Boundries	30,000	24,633	30,000	30,000
		10-3-9-00-40-230 GIS Support	20,000	-	20,000	20,000
		10-3-9-00-40-590 RR Right-of-Way & Special Permits	9,300	9,300	9,300	9,300
		10-3-9-00-40-650 Engineering Planning	10,000	-	10,000	10,000
		10-3-9-00-40-670 Training/Travel	15,000	7,095	10,000	10,000
		10-3-9-00-40-700 Membership Fees	1,200	1,200	1,200	1,200
		10-3-9-00-40-750 Uniform Allowance	1,000	1,000	1,360	1,360
		10-3-9-00-40-800 Salaries	1,316,521	1,307,228	1,794,836	1,794,836
		10-3-9-00-40-810 Temporary	25,785	25,785	34,239	34,239
		10-3-9-00-40-820 Overtime	9,550	9,550	12,681	12,681
		10-3-9-00-40-830 SS Match 6.2%	83,815	83,815	111,296	111,296
		10-3-9-00-40-840 Health/Life Insurance	279,948	279,948	279,948	279,948
		10-3-9-00-40-850 Medicare Match	19,602	19,602	26,029	26,029
		10-3-9-00-40-860 Pension Contribution - 401(A) Match	67,593	67,593	89,755	89,755
		10-3-9-00-40-870 Unemployment Compensation	4,027	4,027	5,347	5,347
		10-3-9-00-42-600 CIP Dept. Operations	6,000	2,165	4,000	4,000
		10-3-9-00-70-055 Sustainability Committee	15,534	10,160	33,832	33,832
		10-3-9-10-40-235 Sewer Modeling Software	5,000	5,000	5,000	5,000
		10-3-9-20-30-290 Green Mountain Augmentation	32,960	32,924	34,608	34,608
		10-3-9-20-30-295 Wolford Mtn - Augmentation	199,305	203,251	213,413	213,413
		10-3-9-20-30-777 Water Demand Management Rebate Program-Vail	15,000	12,145	25,000	25,000
		10-3-9-20-30-778 Water Demand Management	11,000	12,026	11,000	11,000
		10-3-9-20-34-040 USGS Gage Contracts	82,400	82,400	86,520	86,520
		10-3-9-20-90-030 Water Rights Protection	200,000	200,000	150,000	150,000
		10-3-9-20-90-040 Consulting-Water Budgeting	20,000	13,550	15,000	15,000
	<b>Engineering Total</b>		<b>2,481,540</b>	<b>2,415,396</b>	<b>3,015,564</b>	<b>3,015,564</b>
	Field Ops	10-3-9-00-20-090 Employee Recognition	2,500	2,500	2,500	2,500
		10-3-9-00-20-100 Chemicals-Lift Stations	30,000	30,000	30,000	30,000
		10-3-9-00-20-170 3rd Party Locating & Test Holes	5,000	-	-	-
		10-3-9-00-20-280 Meals - On the Job/Field	2,000	896	2,000	2,000
		10-3-9-00-20-400 Office Supplies	3,598	1,538	3,000	3,000
		10-3-9-00-20-495 811 Fees	10,000	10,000	10,000	10,000

**ERWSD Appendix A - Line-Item Detail**

Type Detail	Department	Account	2022_Budget	2022 YE Proj.	2023_Proposed Budget	2023_Proposed Budget & Carryforward
	Field Ops	10-3-9-00-20-515 Snow Removal	60,000	60,000	10,000	10,000
		10-3-9-00-20-525 Distribution Sys. Equip. & Supplies	6,000	1,320	6,000	6,000
		10-3-9-00-20-560 Small Tools - Field	35,000	35,000	65,000	65,000
		10-3-9-00-20-600 Supplies - Field	150,000	208,268	200,000	200,000
		10-3-9-00-20-670 Training/Tuition/Certification/Travel	81,000	38,651	55,000	55,000
		10-3-9-00-20-700 Membership Fees	750	750	750	750
		10-3-9-00-20-750 Uniform Allowance	4,340	4,340	5,902	5,902
		10-3-9-00-20-800 Salaries	1,347,364	1,399,189	1,569,813	1,569,813
		10-3-9-00-20-810 Temporary	68,903	68,903	80,279	80,279
		10-3-9-00-20-820 Overtime	42,975	42,975	50,070	50,070
		10-3-9-00-20-830 SS Match 6.2%	90,473	90,473	105,410	105,410
		10-3-9-00-20-840 Health/Life Insurance	400,565	400,565	400,565	400,565
		10-3-9-00-20-850 Medicare Match	21,159	21,159	24,652	24,652
		10-3-9-00-20-860 Pension Contribution - 401(A) Match	72,962	72,962	85,008	85,008
		10-3-9-00-20-870 Unemployment Compensation	4,249	4,249	4,951	4,951
		10-3-9-10-20-200 Electricity - Lift Stations/PRV's	12,000	30,254	35,441	35,441
		10-3-9-10-20-520 Repairs - Collection System	60,000	60,000	80,000	80,000
		10-3-9-10-20-525 Collection System Equip & Supplies	5,000	18,000	10,000	10,000
		10-3-9-20-20-200 Electricity - Dist. (BPS,tanks,PRV,Heat tape)	125,000	125,000	131,250	131,250
		10-3-9-20-20-520 Repair - Distribution System	100,000	100,000	100,000	100,000
		10-3-9-20-20-530 Non-Revenue Water Committee	2,500	-	-	-
		10-3-9-20-30-490 Repairs - Building & Grounds BPS	10,000	1,011	5,000	5,000
		10-3-9-20-30-505 Repairs & Maint BPS	40,000	45,129	40,000	40,000
		10-3-9-20-90-009 Engineering - ERWSD Water (FO)	10,000	-	10,000	10,000
		<b>Field Ops Total</b>	<b>2,803,338</b>	<b>2,873,132</b>	<b>3,122,591</b>	<b>3,122,591</b>
	Finance	10-1-9-00-70-210 Errors / Claims Settled	10,000	87,497	20,000	20,000
		10-1-9-00-90-160 Audit	47,000	47,000	48,410	48,410
		10-1-9-00-90-180 Financial Consulting	30,000	33,456	35,000	35,000
		10-3-9-00-60-065 Chandler Admin Fees	40,000	23,779	35,000	35,000
		10-3-9-00-60-090 Employee Recognition	550	550	550	550
		10-3-9-00-60-100 Finance Dept Admin Expense	1,000	-	500	500
		10-3-9-00-60-400 Office Supplies and Printing	2,000	4,342	2,500	2,500
		10-3-9-00-60-670 Training/Travel	8,000	8,000	6,500	6,500
		10-3-9-00-60-700 Membership Fees	1,200	-	1,000	1,000
		10-3-9-00-60-800 Salaries	637,664	616,904	509,857	509,857
		10-3-9-00-60-810 Temp	-	-	31,543	31,543
		10-3-9-00-60-820 Overtime	5,730	7,306	5,178	5,178
		10-3-9-00-60-830 SS Match 6.2%	39,890	37,251	36,053	36,053
		10-3-9-00-60-840 Health/Life Insurance	122,418	122,418	122,418	122,418
		10-3-9-00-60-850 Medicare Match	9,329	8,728	8,431	8,431
		10-3-9-00-60-860 Pension Contribution - 401(A) Match	32,170	29,465	29,072	29,072
		10-3-9-00-60-870 Unemployment Compensation	764	554	690	690
		10-3-9-20-00-051 Water Budget Plug	-	-	-	-
		10-3-9-20-30-160 Eagle Park Oper. Assessments	173,761	161,020	180,711	180,711
		<b>Finance Total</b>	<b>1,161,476</b>	<b>1,188,270</b>	<b>1,073,414</b>	<b>1,073,414</b>
	Housing	10-1-9-10-80-125 Housing - Stipend	379,800	366,173	407,550	407,550
	<b>Housing Total</b>		<b>379,800</b>	<b>366,173</b>	<b>407,550</b>	<b>407,550</b>
	Human Resources	10-1-9-00-70-110 Insurance-Director Liability	34,126	29,546	34,126	34,126
		10-3-9-00-70-360 Property & Liability Insurance	300,878	310,501	341,551	341,551
		10-3-9-00-80-080 Benefit Administration	46,179	60,997	60,000	60,000
		10-3-9-00-80-085 HRIS/Payroll	49,579	60,937	64,600	64,600
		10-3-9-00-80-090 Employee Recognition	27,500	22,204	21,500	21,500
		10-3-9-00-80-100 Hazardous Waste Disposal	3,400	12,013	4,600	4,600
		10-3-9-00-80-350 H.R. - Admin. Expense	1,000	2,629	1,000	1,000
		10-3-9-00-80-400 Office Supplies and Printing	1,500	375	750	750
		10-3-9-00-80-450 Random CDL/Post Accid. Drug Tests	1,500	1,500	1,500	1,500
		10-3-9-00-80-475 Recruiting Costs	20,000	18,749	40,000	40,000
		10-3-9-00-80-476 Relocation Costs	20,000	7,500	15,000	15,000
		10-3-9-00-80-550 Safety	82,227	110,088	110,000	110,000
		10-3-9-00-80-552 HR/Safety Training	26,225	19,607	19,607	19,607
		10-3-9-00-80-555 Security - General	25,870	25,870	25,870	25,870
		10-3-9-00-80-670 Training/Travel	15,000	25,913	27,000	27,000
		10-3-9-00-80-700 Membership	7,800	1,733	5,000	5,000
		10-3-9-00-80-750 Uniform Annual Order	18,000	13,640	10,000	10,000
		10-3-9-00-80-755 Wellness Program	30,000	30,000	47,500	47,500
		10-3-9-00-80-760 Org Consulting	160,500	91,289	40,000	40,000
		10-3-9-00-80-800 Salaries	545,048	622,487	705,097	705,097
		10-3-9-00-80-810 Temporary	-	6,706	-	-
		10-3-9-00-80-820 Overtime	2,389	-	3,091	3,091
		10-3-9-00-80-830 SS Match 6.2%	33,941	33,465	43,908	43,908
		10-3-9-00-80-840 Health/Life Insurance	105,510	105,510	105,510	105,510
		10-3-9-00-80-850 Medicare Match	7,938	7,938	10,269	10,269
		10-3-9-00-80-860 Pension Contribution - 401(A) Match	27,372	27,372	35,410	35,410
		10-3-9-00-80-870 Unemployment Compensation	1,642	1,642	2,124	2,124
		10-3-9-00-80-880 Workman's Compensation	85,950	85,950	94,552	94,552
	<b>Human Resources Total</b>		<b>1,681,074</b>	<b>1,736,160</b>	<b>1,869,564</b>	<b>1,869,564</b>
	IT	10-1-9-00-45-070 Copier/Printer/Fax	25,000	8,720	20,000	20,000
		10-1-9-00-45-090 Employee Recognition	1,000	2,377	1,000	1,000
		10-1-9-00-45-200 Contract Billing and Network Support	50,000	146,538	100,000	100,000
		10-1-9-00-45-280 IT Admin Expenses	1,000	1,000	1,000	1,000
		10-1-9-00-45-300 Software	554,200	803,188	893,507	893,507
		10-1-9-00-45-400 Hardware	340,000	333,196	374,000	374,000
		10-1-9-00-45-410 Office Supplies	-	-	-	-
		10-1-9-00-45-450 Phones/Telecom/Data Communications	180,000	180,000	180,000	180,000
		10-1-9-00-45-490 Pagers & Cell Phones	138,150	101,536	170,000	170,000
		10-1-9-00-45-495 Website Development	-	-	-	-
		10-1-9-00-45-670 Training/Travel - IT	38,500	38,500	66,000	66,000



**ERWSD Appendix A - Line-Item Detail**

Type Detail	Department	Account	2022_Budget	2022 YE Proj.	2023_Proposed Budget	2023_Proposed Budget & Carryforward
	IT	10-1-9-00-45-750 Uniform Allowance	2,420	2,420	3,291	3,291
		10-1-9-00-45-800 Salaries	823,018	929,302	1,230,874	1,230,874
		10-1-9-00-45-820 Overtime	19,100	19,100	28,565	28,565
		10-1-9-00-45-830 SS Match 6.2%	52,211	62,558	78,085	78,085
		10-1-9-00-45-840 Health/Life Insurance	211,097	238,217	211,097	211,097
		10-1-9-00-45-850 Medicare Match	12,211	14,849	18,262	18,262
		10-1-9-00-45-860 Pension Contribution - 401(A) Match	42,106	43,025	62,972	62,972
		10-1-9-00-45-870 Unemployment Compensation	2,469	768	3,693	3,693
		10-3-9-00-20-491 Radio Equip & Maintenance	10,000	-	20,000	20,000
	<b>IT Total</b>		<b>2,502,482</b>	<b>2,925,294</b>	<b>3,462,346</b>	<b>3,462,346</b>
	Lab	10-3-9-00-35-020 Biomonitoring	24,000	24,000	25,200	25,200
		10-3-9-00-35-090 Employee Recognition	400	400	400	400
		10-3-9-00-35-105 Chemicals - Lab	7,500	15,036	20,000	20,000
		10-3-9-00-35-230 LIMS Support	20,000	19,561	20,000	20,000
		10-3-9-00-35-310 Micro Bio Supplies - Wastewater	6,000	4,370	5,000	5,000
		10-3-9-00-35-320 Micro Bio Supplies - Water	10,000	21,698	15,000	15,000
		10-3-9-00-35-400 Office Supplis & Printing	600	619	675	675
		10-3-9-00-35-430 Outside Lab - Wastewater	12,000	20,006	20,000	20,000
		10-3-9-00-35-440 Outside Services - Lab	6,000	7,846	7,000	7,000
		10-3-9-00-35-450 Outside Services - WW Nonylphenol	7,000	7,000	7,000	7,000
		10-3-9-00-35-580 Special Sampling	20,000	13,845	15,000	15,000
		10-3-9-00-35-585 Sept WQ Sampling & Analysis	60,000	60,000	60,000	60,000
		10-3-9-00-35-590 Black Gore Creek Water Quality	25,000	6,480	7,000	7,000
		10-3-9-00-35-615 Supplies - Main Lab	8,000	8,358	10,000	10,000
		10-3-9-00-35-670 Training/Tuition/Certification/Travel	8,580	8,580	8,580	8,580
		10-3-9-00-35-700 Membership Fees	313	417	315	315
		10-3-9-00-35-750 Uniform Allowance	875	875	1,190	1,190
		10-3-9-00-35-780 Lab Equipment - Routine/Small	7,000	7,932	8,000	8,000
		10-3-9-00-35-800 Salaries	421,726	451,233	480,076	480,076
		10-3-9-00-35-820 Overtime	2,865	2,381	3,261	3,261
		10-3-9-00-35-830 SS Match 6.2%	26,325	25,416	29,967	29,967
		10-3-9-00-35-840 Health/Life Insurance	101,153	101,153	107,417	107,417
		10-3-9-00-35-850 Medicare Match	6,157	6,197	7,009	7,009
		10-3-9-00-35-860 Pension Contribution - 401(A) Match	21,230	19,214	24,167	24,167
		10-3-9-00-35-870 Unemployment Compensation	1,265	500	1,440	1,440
		10-3-9-10-34-050 WQ Website/Database Management	1,394	-	-	-
		10-3-9-10-35-001 Wastewater Optimization	2,000	-	-	-
	<b>Lab Total</b>		<b>807,383</b>	<b>833,117</b>	<b>883,698</b>	<b>883,698</b>
	Ops Tech	10-1-9-00-47-090 Employee Recognition	720	928	720	720
		10-1-9-00-47-150 OTS Support Services	10,000	19,216	26,000	26,000
		10-1-9-00-47-280 OTS Admin Expenses	4,000	2,491	4,000	4,000
		10-1-9-00-47-400 OTS Hardware & Equipment	25,000	46,506	73,000	73,000
		10-1-9-00-47-450 MCC Maintenance and Cleaning	60,000	60,000	20,000	20,000
		10-1-9-00-47-560 Small Tools & Equipment	-	13,739	25,000	25,000
		10-1-9-00-47-670 Training/Tuition/Certification/Travel	30,000	13,302	30,000	30,000
		10-1-9-00-47-750 Uniform Allowance	-	2,700	2,700	2,700
		10-1-9-00-47-800 Salaries	802,638	804,744	747,717	747,717
		10-1-9-00-47-820 Overtime	14,325	14,325	13,345	13,345
		10-1-9-00-47-830 SS Match 6.2%	50,652	50,652	47,186	47,186
		10-1-9-00-47-840 Health/Life Insurance	202,611	202,611	202,611	202,611
		10-1-9-00-47-850 Medicare Match	11,846	11,846	11,035	11,035
		10-1-9-00-47-860 Pension Contribution - 401(A) Match	40,848	40,848	38,053	38,053
		10-1-9-00-47-870 Unemployment Compensation	2,408	2,408	2,243	2,243
	<b>Ops Tech Total</b>		<b>1,255,048</b>	<b>1,286,316</b>	<b>1,243,611</b>	<b>1,243,611</b>
	Utility Services	10-3-9-00-20-140 Custodial Services	110,000	91,555	110,000	110,000
		10-3-9-00-20-150 Contracted Painting	5,000	18,320	5,000	5,000
		10-3-9-00-20-222 Generator Load Test	4,000	-	-	-
		10-3-9-00-20-225 Fleet Maintenance	100,000	108,745	100,000	100,000
		10-3-9-00-20-227 Fleet - Small Tools	3,000	17,000	5,000	5,000
		10-3-9-00-20-230 GPS Vehicle Tracking & Diagnostics	16,000	16,032	16,000	16,000
		10-3-9-00-20-240 Gas for vehicles	85,000	90,624	72,500	72,500
		10-3-9-00-20-350 Natural Gas - Vail Admin	-	-	-	-
		10-3-9-00-20-680 Trash Service	29,500	30,294	33,000	33,000
		10-3-9-00-20-740 Floor Mat Cleaning	3,200	2,963	3,000	3,000
		10-3-9-00-20-755 Vehicle Contract Maint.	20,000	19,776	20,000	20,000
		10-3-9-00-20-756 Vehicle Leases	12,000	12,000	12,000	12,000
		10-3-9-00-20-760 Water & Sewer Utility Bill-Vail Admin	1,600	57	57	57
		10-3-9-00-21-050 Cross Connection Program	75,000	22,996	45,000	45,000
		10-3-9-00-21-090 Employee Recognition	900	900	900	900
		10-3-9-00-21-160 Contracted Plumbing	-	54,830	85,000	85,000
		10-3-9-00-21-400 Office Supplies	500	113	500	500
		10-3-9-00-21-560 Small Tools	7,000	6,948	7,000	7,000
		10-3-9-00-21-670 Training/Travel	6,000	5,982	8,000	8,000
		10-3-9-00-21-675 Tuition Reimbursement	9,000	5,840	9,000	9,000
		10-3-9-00-21-750 Uniform Allowance	2,000	2,038	2,000	2,000
		10-3-9-00-21-800 Salaries	831,437	871,213	938,286	938,286
		10-3-9-00-21-810 Temp	-	-	-	-
		10-3-9-00-21-820 Overtime	9,550	15,028	10,777	10,777
		10-3-9-00-21-830 SS Match 6.2%	52,141	52,141	58,842	58,842
		10-3-9-00-21-840 Health/Life Insurance	224,439	224,439	224,439	224,439
		10-3-9-00-21-850 Medicare Match	12,194	12,147	13,761	13,761
		10-3-9-00-21-860 Pension Contribution - 401(A) Match	42,049	42,049	47,453	47,453
		10-3-9-00-21-870 Unemployment Compensation	2,494	1,988	2,815	2,815
		10-3-9-10-20-205 Electricity - Avon Admin	20,000	-	20,000	20,000
		10-3-9-10-20-500 Repairs - Building/Grounds	120,000	159,488	130,000	130,000
		10-3-9-10-21-770 Meter Purchases for Inventory & Repairs	800,000	503,734	1,005,000	1,005,000
		10-3-9-20-21-771 Meter Replacement/Equip Parts - Vail	153,000	102,693	405,000	405,000

**ERWSD Appendix A - Line-Item Detail**

Type Detail	Department	Account	2022_Budget	2022 YE Proj.	2023_Proposed Budget	2023_Proposed Budget & Carryforward
	<b>Utility Services Total</b>		<b>2,757,004</b>	<b>2,491,931</b>	<b>3,390,330</b>	<b>3,390,330</b>
	Wastewater	10-3-9-10-10-090 Employee Recognition	1,360	1,360	1,360	1,360
		10-3-9-10-10-400 Admin Expense	1,200	1,200	1,200	1,200
		10-3-9-10-10-410 Outside Lab - Biosolids	4,000	4,649	7,200	7,200
		10-3-9-10-10-670 Training/Tuition/Certification/Travel	22,500	22,500	22,500	22,500
		10-3-9-10-10-700 Membership Fees	1,200	690	800	800
		10-3-9-10-10-750 Uniform Allowance	3,740	3,740	5,086	5,086
		10-3-9-10-10-790 On-Call Engineering Service	40,000	37,142	40,000	40,000
		10-3-9-10-10-800 Salaries	1,218,235	1,228,166	1,288,797	1,288,797
		10-3-9-10-10-810 Temporary	-	-	-	-
		10-3-9-10-10-820 Overtime	26,740	26,740	28,289	28,289
		10-3-9-10-10-830 SS Match 6.2%	77,188	77,188	81,659	81,659
		10-3-9-10-10-840 Health/Life Insurance	273,437	273,437	273,437	273,437
		10-3-9-10-10-850 Medicare Match	18,052	18,052	19,098	19,098
		10-3-9-10-10-860 Pension Contribution - 401(A) Match	62,249	52,601	65,855	65,855
		10-3-9-10-10-870 Unemployment Compensation	3,735	1,370	3,951	3,951
		10-3-9-10-11-130 Chemicals-Process-Vail	4,000	4,000	4,000	4,000
		10-3-9-10-11-160 Discharge Permits-Vail	14,500	14,500	14,500	14,500
		10-3-9-10-11-200 Electricity-WW Plants-Vail	193,000	192,965	221,910	221,910
		10-3-9-10-11-350 Natural Gas-Vail	40,000	42,793	45,232	45,232
		10-3-9-10-11-500 Repairs-Equipment-Vail	72,818	55,744	55,750	55,750
		10-3-9-10-11-760 Water & Sewer Utility Bill-Vail	10,565	1,107	2,500	2,500
		10-3-9-10-12-130 Chemicals-Process-Avon	20,000	8,634	10,000	10,000
		10-3-9-10-12-160 Discharge Permits-Avon	14,500	14,535	14,500	14,500
		10-3-9-10-12-200 Electricity-WW Plants-Avon	190,000	166,762	205,130	205,130
		10-3-9-10-12-260 Janitorial Supplies	922	1,132	1,132	1,132
		10-3-9-10-12-350 Natural Gas-Avon	90,000	130,717	183,419	183,419
		10-3-9-10-12-500 Repairs-Equipment-Avon	91,815	91,815	91,815	91,815
		10-3-9-10-12-760 Water & Sewer Utility Bill-Avon	10,000	7,824	7,824	7,824
		10-3-9-10-13-120 Chemicals-Polymer-Edwards	160,000	160,000	160,000	160,000
		10-3-9-10-13-160 Discharge Permits-Edwards	14,500	16,727	16,727	16,727
		10-3-9-10-13-200 Electricity-WW Plants-Edwards	500,000	497,936	522,833	522,833
		10-3-9-10-13-260 Janitorial Supplies	824	824	824	824
		10-3-9-10-13-350 Natural Gas-Edwards	70,000	64,283	67,947	67,947
		10-3-9-10-13-355 Odor Control - Edwards	60,000	143	66,000	66,000
		10-3-9-10-13-500 Repairs-Equipment-Edwards	160,300	160,300	168,315	168,315
		10-3-9-10-13-620 Supplies-Plant Lab-Edwards	-	-	-	-
		10-3-9-10-13-760 Water & Sewer Utility Bill-Edwards	20,000	16,152	16,152	16,152
		10-3-9-10-34-010 Eagle River Watershed Council Support	25,000	25,000	25,000	25,000
		10-3-9-10-34-025 Eagle River Watershed Monitoring & USGS Study	25,000	25,000	25,000	25,000
		10-3-9-10-34-035 Urban Runoff Group Project	20,000	20,000	12,500	12,500
		10-3-9-10-34-039 Wastewater Regulatory Legal	32,500	32,500	30,000	30,000
		10-3-9-10-34-040 WW Discharge-Water Quality Tech Support/Studies	120,000	120,000	120,000	120,000
		10-3-9-10-90-041 Eagle Mine Legal & Consulting	6,500	6,500	6,500	6,500
	<b>Wastewater Total</b>		<b>3,720,380</b>	<b>3,626,727</b>	<b>3,934,739</b>	<b>3,934,739</b>
	Water	10-3-9-00-30-090 Employee Recognition	1,280	1,280	1,280	1,280
		10-3-9-00-30-100 Admin Expense	-	-	-	-
		10-3-9-00-30-260 Janitorial Supplies	-	-	-	-
		10-3-9-00-30-400 Office Supplies and Printing	2,067	962	2,000	2,000
		10-3-9-00-30-600 Supplies/Small Tools	5,629	5,629	5,500	5,500
		10-3-9-00-30-670 Training/Tuition/Certification/Travel	17,000	11,644	17,000	17,000
		10-3-9-00-30-700 Membership Fees	11,550	11,550	11,550	11,550
		10-3-9-00-30-750 Uniform Allowance	3,300	3,300	4,488	4,488
		10-3-9-00-30-800 Salaries	1,247,751	1,396,705	1,449,914	1,449,914
		10-3-9-00-30-820 Overtime	28,650	28,650	33,292	33,292
		10-3-9-00-30-830 SS Match 6.2%	79,103	79,103	91,919	91,919
		10-3-9-00-30-840 Health/Life Insurance	323,144	323,144	323,144	323,144
		10-3-9-00-30-850 Medicare Match	18,500	18,500	21,497	21,497
		10-3-9-00-30-860 Pension Contribution - 401(A) Match	63,793	63,793	74,129	74,129
		10-3-9-00-30-870 Unemployment Compensation	3,742	3,742	4,348	4,348
		10-3-9-10-20-470 Swift Gulch Office Rent & Utilities	-	-	-	-
		10-3-9-20-30-009 Optimized Corosion Control Treatment Evaluation	-	-	-	-
		10-3-9-20-30-100 Treatment-Chemicals & Supplies	78,750	86,625	90,956	90,956
		10-3-9-20-30-200 Electricity - Treatment (Plants & Wells)	172,340	167,873	225,584	225,584
		10-3-9-20-30-425 Lab Services	20,000	10,000	25,000	25,000
		10-3-9-20-30-460 Licensing & State Fees	5,000	5,000	5,000	5,000
		10-3-9-20-30-495 Building & Grounds Vail Plants	20,803	8,803	20,000	20,000
		10-3-9-20-30-500 O&M-Wells & GVDWF	26,000	26,000	26,000	26,000
		10-3-9-20-30-507 Repairs & Maintenance - Tanks	20,000	20,000	20,000	20,000
		10-3-9-20-30-555 Sewer service - GVDWF	2,000	1,514	2,000	2,000
		10-3-9-20-30-600 Lab Supplies/Chemicals/Reagents	12,000	30,000	30,000	30,000
		10-3-9-20-30-603 Raw Water Resources	2,000	2,000	2,000	2,000
		10-3-9-20-30-780 Water Tank Cleaning	23,000	-	15,000	15,000
		10-3-9-20-34-030 Fish Stocking - Black Lakes	26,000	33,594	35,274	35,274
		10-3-9-20-34-061 Ten Mile Fen Restoration	-	-	-	-
		10-3-9-20-90-010 Engineering - Vail Water	10,000	10,000	10,000	10,000
	<b>Water Total</b>		<b>2,223,402</b>	<b>2,349,411</b>	<b>2,546,876</b>	<b>2,546,876</b>
<b>Operating Total</b>			<b>24,460,940</b>	<b>24,763,708</b>	<b>28,185,685</b>	<b>28,185,685</b>
Housing	Housing	10-1-9-10-80-100 Housing Rental - HOA Dues	189,964	216,627	227,500	227,500
		10-1-9-10-80-101 District Housing Property Management	60,000	60,000	50,000	50,000
		10-1-9-10-80-105 Housing Rental Repairs, Cleaning, & Landscaping	110,000	120,264	122,000	122,000
		10-1-9-10-80-110 Housing Rental Utilities	29,511	29,523	31,000	31,000
		10-1-9-10-80-115 Non-Housing Rental (ex. Lot, annex) Expenses	4,106	4,098	4,106	4,106
		10-1-9-10-80-120 Emp Housing Master Leases	-	-	100,800	100,800
	<b>Housing Total</b>		<b>393,581</b>	<b>430,511</b>	<b>535,406</b>	<b>535,406</b>
<b>Housing Total</b>			<b>393,581</b>	<b>430,511</b>	<b>535,406</b>	<b>535,406</b>
Debt Service	Debt Service	10-1-9-10-00-200 Treasurer's Fees - ERWSD WW Ops	16,309	16,309	16,600	16,600

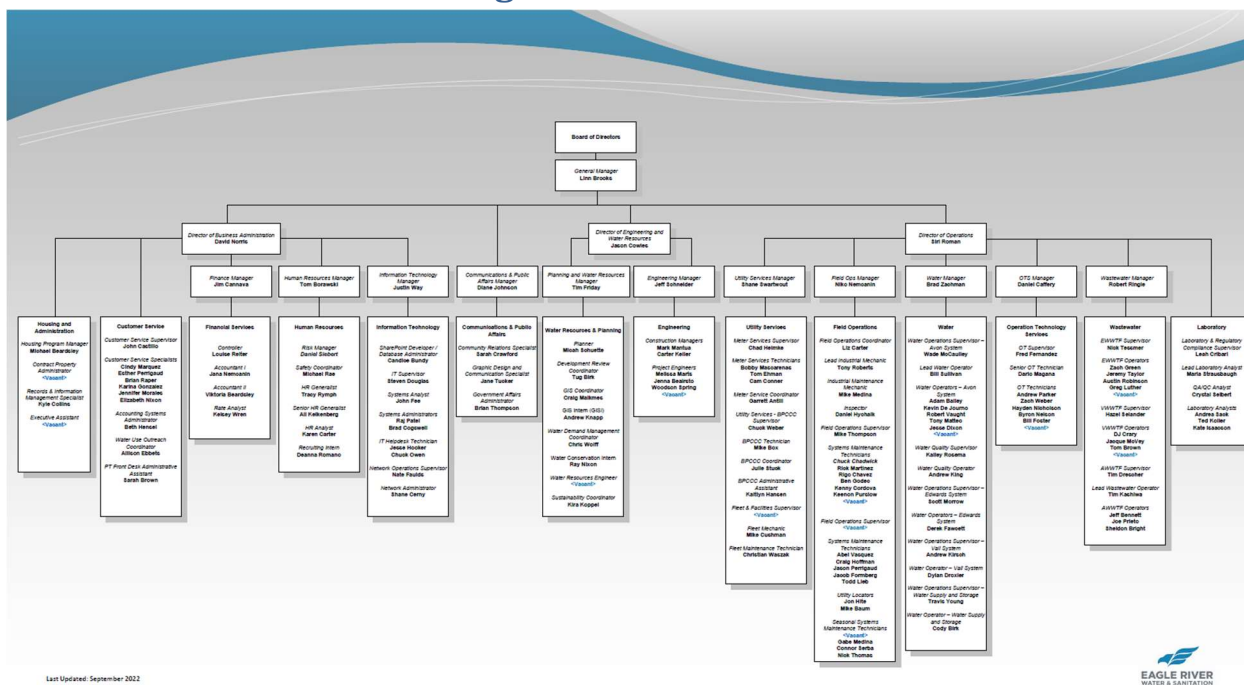
**ERWSD Appendix A - Line-Item Detail**

Type Detail	Department	Account	2022_Budget	2022 YE Proj.	2023_Proposed Budget	2023_Proposed Budget & Carryforward
Debt Service	Debt Service	10-1-9-20-00-210 Treasurer's Fees - VVCWD	16,817	16,817	15,100	15,100
		10-2-5-10-00-026 C/P GO Bonds WW 2016	545,000	545,000	555,000	555,000
		10-2-5-20-00-040 C/P Bonds Water 2012B	420,000	420,000	440,000	440,000
		10-2-5-20-00-068 C/P Bond Principal Vail 2011	315,000	315,000	315,000	315,000
		10-2-9-10-80-026 Bond Interest Exp WW 2016	824,892	824,892	814,900	814,900
		10-2-9-10-80-035 Paying Agent Fees - ERWSD GO Bonds	750	750	375	375
		10-2-9-10-80-045 Treasurer's Fees - ERWSD	45,600	45,600	42,500	42,500
		10-2-9-20-80-040 Paying Agent Fees - Vail Water	753	753	1,130	1,130
		10-2-9-20-80-065 Treasurer's Fees - Vail 02	30,995	30,995	29,550	29,550
		10-2-9-20-80-071 Bond Int. Exp - Vail 2011	11,550	11,550	11,550	11,550
		10-2-9-20-80-073 Bond Int. Exp. - Water 2012A	40,000	40,000	40,000	40,000
		10-2-9-20-80-074 Bond Int. Exp. - Water 2012B	150,350	150,350	138,800	138,800
		10-3-5-10-00-601 C/P 2009B Sewer Bonds (BAB's)	-	-	-	-
		10-3-5-10-00-602 C/P Bonds WW 2012	705,000	705,000	735,000	735,000
		10-3-5-10-00-604 C/P 2020 WW Revenue Bonds	255,000	255,000	260,000	260,000
		10-3-5-10-00-605 C/P 2017 Refunding 09 BABs WW	465,000	465,000	480,000	480,000
		10-3-5-10-00-606 C/P 2020 WW Rev. Refunding Bonds	280,000	280,000	280,000	280,000
		10-3-5-20-00-610 C/P Loan - Eagle Park Reservoir	90,135	90,135	95,047	95,047
		10-3-5-20-00-635 C/P Loan - 2017 Water Bonds	420,000	420,000	430,000	430,000
		10-3-5-20-00-640 C/P 2019 Water Revenue Bond	145,000	145,000	150,000	150,000
		10-3-9-10-80-021 Bond Interest Exp.-2020 WW Revenue Bonds	1,351,513	1,351,513	1,344,500	1,344,500
		10-3-9-10-80-022 Bond Interest Exp.- 2020 Rev Refunding Bonds	578,787	578,787	576,296	576,296
		10-3-9-10-80-026 Interest 2009B Sewer Bonds(BAB's)	-	-	-	-
		10-3-9-10-80-027 Bond Int. Exp. - WW 2012	55,250	55,250	29,400	29,400
		10-3-9-10-80-029 Bond Int. Exp - 2017 Refunding 09 BABs WW	400,956	400,956	388,169	388,169
		10-3-9-10-80-045 Bond Issue Costs-WW Rev. Enterprise Fund	-	-	-	-
		10-3-9-10-80-050 Paying Agent Fees - ERWSD Rev.Bonds	753	753	1,050	1,050
		10-3-9-20-80-035 Interest Loan - 2017 Rev.Water Bonds(Ref 09)	387,700	387,700	376,150	376,150
		10-3-9-20-80-040 Interest 2019 Revenue Water Bonds	119,667	119,667	114,350	114,350
		10-3-9-20-80-045 Bond Issue Costs-Water Rev. Enterprise Fund	-	-	-	-
		10-3-9-20-80-065 Interest Loan - Eagle Park Reservoir	39,320	39,320	35,636	35,636
		Debt Service Total			7,712,097	7,712,097
Debt Service Total			7,712,097	7,712,097	7,716,103	7,716,103
CRP	Administration	10-1-2-10-80-100 CRP-Employee Housing	200,000	269,116	250,000	250,000
	Administration Total		200,000	269,116	250,000	250,000
	Engineering	10-1-2-00-45-106 CRP-GIS Improvements	-	-	-	-
		10-1-2-00-45-137 CRP-GPS Unit Replacement	-	-	-	-
	Engineering Total		-	-	-	-
	Field Ops	10-1-2-00-45-200 CRP-Portable Radio Upgrade	-	-	-	-
		10-3-2-00-20-102 CRP-Locators & Correlators	15,000	8,043	15,000	15,000
		10-3-2-10-01-007 Sundial Sewer Main Rehabilitation	-	107,003	-	-
		10-3-2-10-01-027 CRP-Sewer Capital Replacement Program	150,000	35,000	100,000	100,000
		10-3-2-10-01-043 I & I Reduction - District wide	100,000	100,000	125,000	125,000
		10-3-2-20-09-447 CRP-Vail Water Capital Replacement Program	200,000	120,000	100,000	100,000
		Field Ops Total		465,000	370,046	340,000
	IT	10-1-2-00-45-100 CRP-Sharepoint-Enterprise Content Mgt Sys (ECMS)	-	-	-	-
		10-1-2-00-45-105 CRP-Cityworks-Comp Maint Mgt Sys (CMMS)	-	-	-	-
		10-1-2-00-45-108 CRP-Website Improvements	-	-	-	-
		10-1-2-00-45-109 CRP-Server & Network Improvements	105,000	138,539	150,000	150,000
		10-1-2-00-45-112 CRP-Software/Licensing	50,000	-	-	-
		10-1-2-00-45-121 CRP-GP Upgrade Finance Dept.	-	-	-	-
		10-1-2-00-45-124 CRP-Desktop/Laptop Improvement Upgrade	50,001	180,708	160,000	160,000
		10-1-2-00-45-125 CRP-Printers Improvement Upgrade	10,000	400	10,000	10,000
		10-1-2-00-45-126 CRP-Wireless Network Upgrade	-	-	-	-
		10-1-2-00-45-128 CRP- Low Voltage Wiring	50,000	68,970	70,000	70,000
		10-1-2-00-45-133 CRP-SCADA PLC Switch Upgrade	-	-	-	-
		10-1-2-00-45-135 CRP-Imprivata	40,000	-	-	40,000
		10-1-2-00-45-136 CRP-Shortel Phone System Upgrade	-	-	-	-
		10-1-2-00-45-138 CRP Wireless AP Upgrade	14,882	-	-	-
		10-1-2-00-45-139 CRP-ADWF Server Room Project	80,000	80,000	-	-
		10-1-2-00-45-140 CRP-AWWTP UCS & Nimble	229,900	224,737	-	-
		10-1-2-10-80-101 CRP- Safety & Security	10,000	-	10,000	10,000
		IT Total		639,783	693,354	400,000
	Lab	10-3-2-00-35-100 CRP-Lab Equipment Replacement	10,000	-	10,000	10,000
	Lab Total		10,000	-	10,000	10,000
	Ops Tech	10-1-2-00-47-100 OTS Spare Parts Inventory	-	13,992	10,000	10,000
	Ops Tech Total		-	13,992	10,000	10,000
	Utility Services	10-1-2-00-05-142 CRP-Building Remodels or Major Repairs	200,000	68,630	200,000	200,000
		10-3-2-00-07-001 CRP-Hotsy Replacement	-	-	-	-
		10-3-2-00-07-002 CRP-Fleet & Facilities Tools & Equipment	-	-	-	-
		10-3-2-00-07-310 CRP-Vehicle & Heavy Equipment	435,000	433,544	360,000	505,360
		10-3-2-00-20-101 CRP-Asphalt Seal & Stripe	14,000	-	14,000	14,000
		Utility Services Total		649,000	502,174	574,000
	Wastewater	10-3-2-10-03-529 CRP-EWWTF AHU Replacement	300,000	-	-	-
		10-3-2-10-11-117 CRP-VWWTF Plant Repairs	45,000	52,250	15,000	15,000
		10-3-2-10-12-126 CRP-AWWTF Plant Repairs	45,000	16,506	30,000	30,000
		10-3-2-10-13-114 CRP-EWWTF Plant Repairs	45,000	266,239	135,000	135,000
		EWV Biofilter Media Replacement	-	-	317,000	317,000
		Wastewater Total		435,000	334,994	497,000
	Water	10-3-2-20-09-019 Water Storage Tank Misc. Improvements	150,000	150,000	100,000	100,000
		10-3-2-20-09-020 CRP-Vail Wtr System Repairs	50,000	105,000	50,000	50,000
		10-3-2-20-30-112 CRP-Distribution Industrial Painting	45,000	-	50,000	50,000
		10-3-2-20-30-102 CRP-M&E Water System Contingency Stock	145,000	-	-	-
		Water Total		390,000	255,000	200,000
CRP Total			2,788,783	2,438,677	2,281,000	2,466,360
Capital	Administration	10-1-2-00-05-012 Facility Rooftop Solar	140,000	40,000	-	100,000
		10-1-2-00-05-013 District Housing Sustainability	-	-	75,000	75,000

**ERWSD Appendix A - Line-Item Detail**

Type Detail	Department	Account	2022_Budget	2022 YE Proj.	2023_Proposed Budget	2023_Proposed Budget & Carryforward
Capital	Administration	10-1-2-10-05-050 Employee Housing Capital	-	-	-	-
		10-1-2-10-05-051 Stillwater Employee Housing	-	4,054	-	-
		10-1-2-10-05-052 Buckhorn Project	1,500,000	-	1,500,000	3,000,000
	<b>Administration Total</b>		<b>1,640,000</b>	<b>44,054</b>	<b>1,575,000</b>	<b>3,175,000</b>
	Customer Service	10-1-2-00-45-304 AMI Implementation	-	65,063	-	-
	<b>Customer Service Total</b>		-	<b>65,063</b>	-	-
	Engineering	10-1-2-55-09-101 Wolcott Water Planning	-	-	-	-
		10-3-2-00-07-300 EV Charging Stations	-	28,462	-	-
		10-3-2-20-09-012 Minturn Water System Connection to ERWSD	-	-	-	-
		10-3-2-20-09-100 Reservoir Storage Master Plan	100,000	100,000	25,000	25,000
		Greenhouse Gas Inventory	-	-	203,700	203,700
	<b>Engineering Total</b>		<b>100,000</b>	<b>128,462</b>	<b>228,700</b>	<b>228,700</b>
	Field Ops	10-1-2-10-05-057 Hillcrest Field Operations Facility	75,422	943	-	74,479
		10-3-2-10-01-008 Bighorn Terrace Sewer Main-Sanitation Subdistrict	-	-	-	-
		10-3-2-10-01-009 Collection System Master Plan	500,000	352,643	-	307,652
		10-3-2-10-01-045 Forest Rd./Rockledge Private Sewer	40,000	-	262,000	262,000
		10-3-2-20-09-014 Vail S. Frontage Road Water Main Replacement	-	357,084	-	-
		10-3-2-20-09-015 Bighorn Terrace Water Main	-	60,000	-	-
		10-3-2-20-09-026 Main Gore Place Waterline Improvement Project	-	-	-	-
	<b>Field Ops Total</b>		<b>615,422</b>	<b>770,671</b>	<b>262,000</b>	<b>644,131</b>
	IT	10-1-2-00-45-300 Horizon 7 Virtual Desktop Solution	-	-	-	-
		10-1-2-00-45-301 SCADA Server Storage Hardware	-	-	-	-
		10-1-2-00-45-302 Consolidated Anti-Virus Solution	-	-	-	-
		10-1-2-00-45-305 System Center Configuration Manager (SCCM)	-	-	-	-
		10-1-2-00-45-306 ADWF Storage Expansion (Inc. Sec. System)	-	-	-	-
		10-1-2-00-45-307 Cameras for RTU Sites	105,439	106,808	192,533	192,533
		10-1-2-00-45-308 Stone Security Control Access	50,000	89,253	50,000	50,000
		10-1-2-00-45-309 Cityworks API for GE Proficy	30,300	-	-	30,300
		10-1-2-00-45-310 Vmware NSX	-	269,256	-	-
		10-1-2-00-45-311 VWWTU UCS & Nimble	-	-	-	-
		10-1-2-00-45-313 ADWF Firewall Upgrade	-	-	-	-
		10-1-2-00-45-314 License Plate Reader Cameras	-	-	25,000	25,000
		10-1-2-00-45-315 Truck Wi-Fi	-	-	40,000	40,000
		10-1-2-00-45-316 RTU Firewall Replacement	-	-	221,795	221,795
		10-1-2-00-45-317 CS and US Conference Room Technology	-	-	22,962	22,962
		10-1-2-00-45-319 VMWare Carbon Black	-	-	52,984	52,984
		10-1-2-00-45-320 Backup Security Appliance	-	-	169,792	169,792
		Elk Analytics SIEM	-	-	83,275	83,275
	<b>IT Total</b>		<b>185,739</b>	<b>465,317</b>	<b>858,341</b>	<b>888,641</b>
	Lab	10-3-2-10-03-701 Lab Equipment	245,496	350,000	-	468,492
	<b>Lab Total</b>		<b>245,496</b>	<b>350,000</b>	-	<b>468,492</b>
	Utility Services	10-1-2-00-05-065 Traer Creek Office Renovation	-	4,843	-	-
		10-1-2-00-05-110 Vail Office Remodel/Parking Improvements	-	775,665	-	-
		10-1-2-00-07-100 Wolcott Solar Farm	50,000	-	-	50,000
		10-3-2-00-07-309 CRP Heavy Equipment	-	-	45,000	45,000
	<b>Utility Services Total</b>		<b>50,000</b>	<b>780,508</b>	<b>45,000</b>	<b>95,000</b>
	Water	10-3-2-20-09-016 Water Treatment Master Plan-	90,000	74,103	66,667	92,564
		10-3-2-20-09-018 Water System Emergency Power	68,708	-	-	68,708
		10-3-2-20-09-022 West Vail Flow Control Improvements	90,000	10,131	50,000	164,869
	<b>Water Total</b>		<b>248,708</b>	<b>84,234</b>	<b>116,667</b>	<b>326,141</b>
<b>Capital Total</b>			<b>3,085,365</b>	<b>2,688,309</b>	<b>3,085,708</b>	<b>5,826,105</b>
Bond Project	Administration	10-1-2-10-05-053 Future Housing Needs	-	-	-	-
	<b>Administration Total</b>		-	-	-	-
	Engineering	10-3-2-10-07-100 Gore Valley Trail @ Dowd Jct. Repair	-	-	516,974	516,974
		AWWTF Renewable Energy & Resilience	-	-	455,000	455,000
	<b>Engineering Total</b>		-	-	<b>971,974</b>	<b>971,974</b>
	Field Ops	10-3-2-10-01-006 Dowd Junction Collection System Improve.	6,235,000	4,200,000	2,500,000	5,461,208
		10-3-2-10-01-011 Vail WWTF Area Bypass and Collection Upgrades	-	-	-	-
		10-3-2-20-09-024 N. Frontage Road Water Mian Connection	53,125	-	425,000	425,000
		10-3-2-20-09-025 Lower Glen Lyon Fire Flow Improvements	48,000	-	450,000	450,000
		Minturn Siphon	-	-	150,000	150,000
		Westhaven Sewer Main	-	-	200,000	200,000
	<b>Field Ops Total</b>		<b>6,336,125</b>	<b>4,200,000</b>	<b>3,725,000</b>	<b>6,686,208</b>
	Ops Tech	10-3-2-20-09-463 RTU System Upgrade	153,000	25,000	-	61,225
	<b>Ops Tech Total</b>		<b>153,000</b>	<b>25,000</b>	-	<b>61,225</b>
	Utility Services	10-3-2-10-05-159 Field and Fleet HQ at AWWTF	300,000	-	1,700,000	1,700,000
	<b>Utility Services Total</b>		<b>300,000</b>	-	<b>1,700,000</b>	<b>1,700,000</b>
	Wastewater	10-3-2-10-03-002 2022 WW Master Plan Update	125,000	134,400	436,400	494,000
		10-3-2-10-03-316 VWWTF Master Plan Capital Improvements	6,040,000	2,447,741	3,901,650	7,762,934
		10-3-2-10-03-447 AWWTF Nutrient Upgrades	18,502,590	19,593,342	-	2,000,000
		10-3-2-10-03-448 AWWTF Fire Flow Improvements	855,120	1,342,240	-	-
		WW Master Plan Update Phase 2	-	-	378,800	378,800
	<b>Wastewater Total</b>		<b>25,522,710</b>	<b>23,517,723</b>	<b>4,716,850</b>	<b>10,635,734</b>
	Water	10-3-2-20-09-136 Bolts Lake Reservoir	2,080,870	2,232,626	225,000	225,000
	<b>Water Total</b>		<b>2,080,870</b>	<b>2,232,626</b>	<b>225,000</b>	<b>225,000</b>
<b>Bond Project Total</b>			<b>34,392,705</b>	<b>29,975,349</b>	<b>11,338,824</b>	<b>20,280,141</b>
<b>Grand Total</b>			<b>72,833,471</b>	<b>68,008,651</b>	<b>53,142,726</b>	<b>65,009,800</b>

## Organizational Chart





1155 CANYON BOULEVARD, SUITE 110, BOULDER, CO 80302  
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## **MEMORANDUM**

**TO:** Eagle River Water & Sanitation District Board of Directors  
**FROM:** Kristin Moseley  
**SUBJECT:** DRAFT – Eagle River Water & Sanitation District Resolution on Water Dedication Policy for 2023  
**DATE:** October 19, 2022

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Attached for review and discussion is a draft Eagle River Water & Sanitation District Resolution on Water Dedication Policy for 2023. As you will note, we have included blanks in the pricing section for cash in lieu payments per consumptive acre foot of water so that the board can discuss potential increases given anticipated costs of construction of Bolts Lake. We have also added a new provision regarding a 25% deposit from Developers in order to receive Conditional Capacity to Serve Letter. We are not proposing a vote on the Resolution at the October meeting, rather a discussion of these concepts and direction for a revised Policy for consideration at the November meeting.

**DRAFT**

**EAGLE RIVER WATER AND SANITATION DISTRICT  
RESOLUTION ON  
WATER DEDICATION POLICY**

**Effective January 1, 2023**

**WHEREAS**, the Eagle River Water and Sanitation District (“District”) is a quasi-municipal entity authorized and empowered to supply water for domestic and other public and private purposes; and

**WHEREAS**, the District’s mission is, among other goals and responsibilities, to provide efficient, effective, and reliable water to its service area, ranging from East Vail to Wolcott; and

**WHEREAS**, extensive redevelopment is occurring in the District’s service area and such redevelopment is increasing the existing development density and water uses associated with certain redevelopment properties; and

**WHEREAS**, new development and water uses are occurring within the District’s service area; and

**WHEREAS**, the District may expand its boundaries and commit to serve properties not currently within its service area; and

**WHEREAS**, to accommodate the increase in water demands caused by redevelopment projects and new water uses within or outside its current service area, and to continue to provide efficient, effective, and reliable water to its service area as it may from time to time be expanded, the District seeks to establish a uniform water dedication policy for third-party developers seeking (i) increased water service for the redevelopment of property within the District’s service area or seeking new water service for properties not covered by existing taps or zoning, or (ii) water service for properties not currently within the District’s service area (“Developers”); and

**WHEREAS**, such water dedication policy needs to protect the general welfare of the residents in the service area.

**BE IT RESOLVED,**

1. **GENERAL POLICY.** The District adopts the general policy of conditioning certain water service upon either a dedication of water rights or a payment of cash in lieu of water rights. This general policy shall apply (A) to all new development or redevelopment within its service area that will require an increase in water use or a new water use not covered by existing taps or zoning that existed as of July 22, 2004, and (B) to all properties not currently within the District’s service area. For any redevelopment, this condition applies only to the difference between the projected increased water demand and the pre-redevelopment water demand. For



example, if the pre-redevelopment demand for a particular parcel of property is five consumptive acre-feet and the projected redevelopment water demand will increase demand to six consumptive acre-feet, the increase of one consumptive acre-foot will be subject to this water dedication policy. The increase may be as a result of increased density, increased landscaping, or any other change in use of the property that increases the water demand from the pre-redevelopment demand.

2. **DEDICATION OF WATER RIGHTS.** The dedication of water rights must provide the District with a dependable legal supply of water equal to one hundred and twenty percent (120%) of the water rights necessary to service the new or increased water requirements associated with the new development or redevelopment, or property not currently within the District's service area. Using the example in Paragraph 1, if the District agrees to accept a dedication of water rights, the Developer would be required to supply a dependable legal supply of water in the amount of 1.2 consumptive acre-feet (120% of the increase in demand of one acre-foot). All water dedication agreements or contracts between Developers and the District that provide water rights to the District under this policy shall be at the discretion of the District. There may also be situations where the water rights dedication or payment of cash in lieu is based on the diversion demand, not just the consumptive use of the water demand.

To the extent the District determines to accept a dedication of water rights, the following criteria shall be used in determining the type of water rights to be dedicated:

- (A) Shares of stock in the Eagle Park Reservoir Company representing the right to the annual release of water from Eagle Park and/or Homestake Reservoirs.
- (B) Water rights that could be used to enhance the yield of Eagle Park Reservoir.
- (C) Interests in consumptive use credits that are already decreed for diversion and use at the District's diversion points.
- (D) Imported/transbasin water that is available for use in the Colorado River basin upstream of the Shoshone Power Plant.
- (E) Other water rights or storage facilities that can be integrated into the District's water system or used to enhance existing exchanges without significant expense.
- (F) All dedicated water rights must be owned in fee and cannot be based on a term limited leasehold interest.
- (G) There shall be a preference for in-basin or imported water.
- (H) Only water rights senior to the 1922 Colorado River Compact shall be accepted.

3. **CASH IN LIEU OF WATER RIGHTS.** All water dedication agreements or contracts

between Developers and the District that provide cash in lieu of water rights under this policy shall be at the discretion of the District and shall be subject to the following conditions:

- (A) The District has sufficient water rights to meet the new water service obligation.
- (B) The Developer does not have access to the type of water rights that meet the District's criteria for acceptance of water rights.
- (C) The water rights appurtenant to the land to be served have been previously severed.
- (D) Cash payments based on 120% of the projected new or increased water use for summer months (defined as May through August each year) shall be valued based on the current market value of senior agricultural irrigation water rights, but shall not be less than the amount set forth on the attached Exhibit A.
- (E) Cash payments based on 120% of the projected new or increased water use for non-summer months (defined as September through April each year) shall be valued based on the current market value of firm annual yield of in-basin storage, for example Eagle Park and Homestake Reservoirs, but shall not be less than the amount set forth on the attached Exhibit B.
- (F) Cash payments shall be paid to the District to be used, at the discretion of the District, to develop and/or acquire additional in-basin storage or imported/transbasin water for the District.

Notwithstanding the foregoing provisions of Paragraphs 3(D) and 3(E) regarding the percentage of the amount of the cash in lieu fee, the District may choose in its sole discretion to reduce the percentage of the cash in lieu fee to an amount less than 120% where the Developer provides evidence acceptable to the District that the landscape design and water use fixtures of the development provide efficiencies that demonstrate a water use that is less than the District's projected new or increased water use that is used to calculate the cash in lieu fee; provided, however, in no event shall the cash in lieu fee be less than 100% of the amount of the projected new or increased water use.

The District may also choose in its sole discretion to eliminate any cash in lieu fee for the portions of a Developer's property that require the temporary irrigation of native grasses or trees for a period of a maximum of two years if the temporary irrigation is metered separately from other water uses on the property and billed at the District's irrigation rate.

4. **PAYMENT OF COSTS.** All payment of costs regarding water dedication agreements

or contracts between Developers and the District under this policy shall be subject to the following conditions:

(A) In addition to the dedication of water rights under Paragraph 2 or cash payments under Paragraphs 3(D) and 3(E), Developers shall be required to pay the District for all legal, engineering, and other costs incurred or which may be incurred by the District to evaluate and/or adjudicate any augmentation plan or other water court application, if necessary, to provide new or increased water service to any Developer's property.

(B) Where an engineering or legal evaluation is required by the District to implement the terms of this Policy, the Developer will be required to deposit with the District an initial fee of no less than \$5,000 to pay for the cost of such evaluation. The initial deposit shall be used to pay the costs of staff, legal consultants, engineering consultants, and other expenses that may be incurred by the District. These costs are separate and distinct from any other Tap Fees and other charges applicable to the development. This cost reimbursement charge is not related or credited to any other fee or the District. Deposit amounts in excess of the actual cost of the analysis will be refunded to the proponents of the development. A good faith effort will be made to generally account for the costs incurred, but the District shall not be obligated to provide a specific accounting of costs, but only a generalized estimate.

(C) Developers requiring an Ability to Serve Letter, as defined in **C.R.S § 29-20-304**, as evidence of sufficient water rights from the Authority for a land use permit application shall pay a refundable cash in lieu deposit to the Authority that is equal to twenty-five percent (25%) of the estimated cash payment under Paragraph 3. Following the receipt of such payment, the Authority will issue a Conditional Capacity to Serve Letter to the relevant government authority that demonstrates the Authority will serve the project once certain conditions have been met, including the payment in full of cash in lieu fees. The cash in lieu deposit will be credited toward the final cash in lieu fee payment, which shall be calculated at the the current value of water rights set forth in Paragraph 3 at the time of payment of the full cash in lieu fees. Following the payment in full of cash in lieu fees and the execution of a Water Service Agreement, the Authority will provide the Developer with an Ability to Serve Letter as defined in **C.R.S § 29-20-304**. In the event water service is no longer required or desired for the Developer's property, any refund of the cash in lieu deposit shall be paid within 90 days written notice to the Authority. Any unpaid reimbursement costs owed to the Authority shall be withheld from the refund. The Authority will not refund a cash in lieu deposit once the property to which water service has been extended has obtained land use approval unless such land use approval is revoked or otherwise terminated by the relevant governmental authority.

(D) In the event water service is no longer required or desired for Developer's property, any refund of a cash in lieu payment previously paid shall be at the sole discretion of the District. Where the District decides in its sole discretion to refund a cash in lieu payment, the District may charge a cancellation fee. The District will not refund a cash in lieu payment once the property to which water service has been extended has obtained land use approval unless such land use approval is revoked or otherwise terminated by the relevant governmental authority.

5. **Applicability of Policy.** Upon the referral from the Town of Vail or Eagle County for an ability to serve commitment, the District staff shall determine whether this policy is applicable to any property that is currently within the District's service area and that is being developed or redeveloped.

Approved this \_\_\_\_ day of November , 2022 by a vote of \_\_ in favor and \_\_ opposed.

By: \_\_\_\_\_  
Dick Cleveland , Chairman of the Board

**Exhibit A**

The cash payments for the summer months (defined as May through August of each year) under paragraph 3(D) of the Water Dedication Policy shall not be less than \_\_\_\_\_dollars (\$\_\_\_\_\_) per consumptive acre foot of water.

**Exhibit B**

The cash payments for the non-summer months (defined as September through April of each year under paragraph 3(E) of the Water Dedication Policy shall not be less than forty-three thousand dollars (\$\_\_\_\_\_) per consumptive acre foot of water.



# STRATEGIC PLAN 2022



**EAGLE RIVER**  
WATER & SANITATION  
DISTRICT





## Purpose

Eagle River Water & Sanitation District provides clean, safe drinking water and collects, treats, and returns wastewater to our headwater streams to support public and environmental health and economic viability. Our services are funded by our customers, to whom we are accountable to meet or surpass water quality regulations and ensure continued high-quality service into the future.

Our organization faces significant challenges, including increasing regulations, uncertain economic pressures, aging infrastructure, evolving staffing needs, and a diminishing water supply. To make best use of the limited resources available to meet these challenges, the district leadership team developed this Strategic Plan. The plan identifies four overarching and long-term guiding principles, each of which are critical to fulfilling our mission and meeting our community's high expectations. These principles are:

**Employee Culture**  
**Operational Excellence**  
**Customer Confidence**  
**Climate Resiliency**

These guiding principles will serve to communicate district direction, focus financial and staff resources, and identify and prioritize objectives and initiatives.

## Process

Beginning in spring 2021, the district's leadership team met periodically in an offsite, retreat setting to establish a strategic framework. We revisited the district mission and vision. The team then compiled organizational strengths, weaknesses, threats, and opportunities, and proposed and refined the list of strategic objectives and initiatives for the organization.

After creating a draft overview of the plan, we hosted four focus groups with district staff and supervisors in winter 2022 to solicit employee input and feedback. The leadership team integrated this feedback into the plan and the leadership team met again in spring 2022 to finalize plan

content. Originally, the framework consisted of nine strategic objectives; however, staff suggested that the strategic plan should serve as a succinct tool for communication and guidance for the best chance of success. In response, the leadership team consolidated the objectives into four guiding principles, with supporting objectives.

The results of this planning effort were: reaffirming the organizational mission and updating the vision; developing four guiding principles with specific objectives and initiatives to be accomplished within the next five years. Each guiding principle was assigned a champion, accountable to directing effort and resources, reporting on progress and milestones, and identifying and prioritizing future initiatives to ensure advancement towards the objectives.

The following pages present the high-level results of the strategic planning process. The plan itself will serve as a reference to the leadership team and staff to ensure ongoing focus and to communicate how each individual employee's work contributes to the whole. This document does not include a comprehensive project plan for each objective, and not all initiatives are listed. Rather, the plan will serve as the guide to develop departmental and inter-departmental workgroup plans. Specific initiatives and goals will be captured in the yearly performance alignment conversation (YPAC) documents, and staff will be assigned to develop project plans.

The primary benefit of the strategic planning process was to build shared understanding and alignment of the leadership team on the guiding principles, objectives and initiatives. Most strategic plans are destined for the bookshelf because the goal is to create a final document. Instead, our goal is to create the shared intention that will motivate staff towards our common goals for years to come.





## Mission

We provide efficient, effective, and reliable water and wastewater utility services in a manner that respects the natural environment.

## Vision

Clean Water. Quality Life.

## Values

Service  
Accountability  
Customer Confidence  
Community Partnership  
Personnel Dedication  
Environmental Stewardship  
Leadership and Continuous Improvement  
Long Range Planning and Preparation

- Advance Diversity, Equity, and Inclusivity (DEI) concepts in workforce management to ensure our staff reflects and understands our customer base and fosters a welcoming and inclusive work environment
- Improve new employee orientation and onboarding to foster connection and cross-departmental collaboration, and maintain our shared sense of organizational purpose and ensure employee success

## Operational Excellence

Operational Excellence is a business approach characterized by operational and staffing resiliency, identification and mitigation of risks, meeting and exceeding regulatory requirements, planning for future conditions, optimizing the value of investments in infrastructure, and focusing on continuous improvement.

### Emergency Preparedness

- Using in-house resources, identify potential risks, perform tabletop exercises to develop response plans, and document in an updated Emergency Management Plan

### Regulatory Compliance

- Build Annual Regulatory Compliance Calendar and Tracking Tool
- Develop documentation and in-house training for Sanitary Surveys and Compliance, Evaluation, Inspections

### Strategically Manage Infrastructure

- Wastewater Collection System Master Plan
- Wastewater Treatment Master Plan Update
- Water Production and Treatment Master Plan
- Design and construct new buildings for fleet & facilities, OTS, CIP and field operations to support expanding staff, resources and equipment
- Develop facilities maintenance plan and identify necessary resources (landscaping, wildfire mitigation, HVAC, buildings etc.)

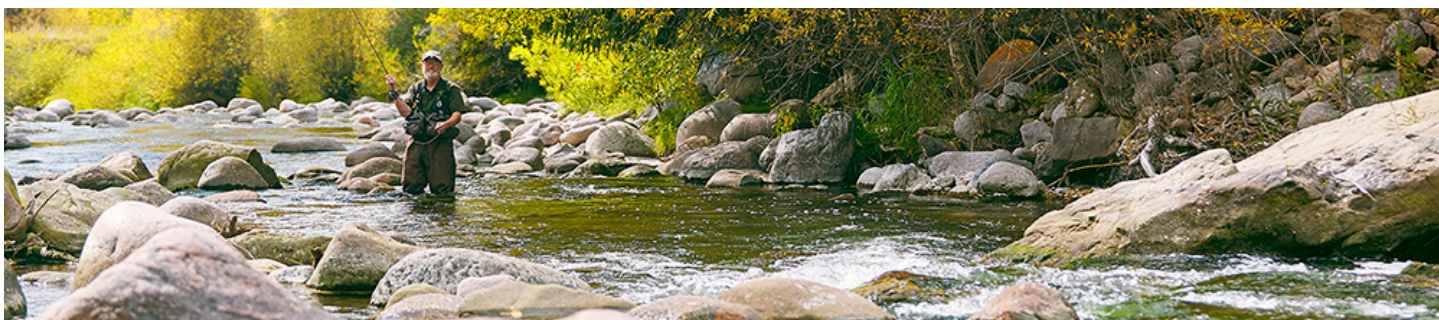
## Strategic Principles & Objectives

### Employee Culture

Our employee's dedication to our mission, vision and values combined with their training, experience, judgment, and passion makes us who we are and drives our success. Creating a respectful, and collaborative environment; developing a clear sense of purpose; striving for continuous improvement and excellence; and developing a culture of accountability and gratitude will attract and retain employees who will commit to a career in serving our community.

#### Recruit, Retain, and Develop

- Ensure the implementation and continued maintenance of the 2021-2022 comprehensive classification and compensation study by developing processes, policies and practices that will position the District as an employer of choice
- Apply insights from the GM Succession Planning process to establish a leadership succession plan to ensure seamless leadership transitions



## Customer Confidence

The cost of providing water and wastewater services to customers is increasing due to regulations, aging infrastructure, and the need to build climate resiliency into our water supply system. Our customers bear these costs and it's critical to our financial stability that they understand the need for rate increases and bond issuances. Customer confidence is many-faceted and is built during every customer interaction, from competent customer service, accurate and fair billing, and timely response, to reliability of service, proactive and positive communications demonstrating the value received, and transparency. At the core of our business we provide a service at a cost, and we can make the case that customers receive value for their payments so long as they have confidence that we are spending their funds responsibly and for their benefit.

### Financial Strength

- Develop a Strategic Reserve Fund Policy and Plan
- Develop an Investment Strategy and Policy
- Develop framework for debt-to-income ratios and future bonding strategies
- Develop rate and tiered water strategies to address water usage and future needs

### Data-driven Management

- Complete master plan to standardize, streamline, and connect data sources and functions
- Make data accessible to employees who need it
- Develop an overarching document management system and architecture
- Develop a replacement strategy for computing devices, software systems, and risk management systems

## Climate Resiliency

Air temperatures are increasing, weather patterns are becoming more variable, and our total water supply is diminishing. We are uncertain how these trends will unfold with time, and how future state and federal water rights administration will impact the legal framework of our water supplies. Our operations are at risk of impact from droughts, floods, wildfires, low stream flows, high energy costs, and potential impacts to reliability of energy supply. Our water supplies are further at risk from prolonged drought and subsequent shortage, curtailment and changing administrative rules, and transbasin diversions. A commitment to climate resiliency focuses our attention on reducing waste, converting to lower emissions energy sources (direct and indirect), and managing our water supply to ensure resiliency to varying climate conditions and development of a strategic reserve.

### Proactively Manage Water Supply

- Develop and implement water budgeting program, prioritizing single-family customer class first.
- Bolts Lake environmental permitting

### Sustainability

- Develop greenhouse gas (GHG) inventory and tracking tool
- Evaluate the implementation of solar arrays and battery storage in strategic locations



## Recommendations

- Presentation of this Strategic Plan to the Board of Directors for input, refinements, and approval by Q4 2022, including the objectives for 2023
- Implement annual planning and reporting process through 2026:
  - Use the objectives to develop annual YPAC initiatives and goals for managers, departments, and interdepartmental work groups for upcoming year (the planning year); share goals for the planning year with the Board once YPACs are finalized
  - Report progress on goals annually to boards (dashboard and presentation) near end of planning year
  - Update objectives for the next planning year; obtain board input and approval
- Undertake values reboot prior to 2027
- Leadership Team will revisit the strategic planning process and develop an updated Strategic Plan starting Q1 2027, complete by Q3 in time to obtain staff and board input and approval and use for developing goals for 2028 and continue with annual process outlined above for the next 5 years
- Anchor to Strategic Plan and guiding principles frequently in communicating mission, purpose, and priorities to board, staff and public



**Fiscal Year 2022  
Quarterly Financial Report  
For the 3<sup>rd</sup> Quarter Ending September 30, 2022**

---

1. Quarterly Financial Report Cover Memo
2. Net Income & Budget Comparisons
3. Revenue Comparisons
4. Bond & Cash Balances
5. Housing Report



**To:** Board of Directors  
**From:** Jim Cannava, Finance Manager  
**Date:** October 18, 2022  
**Re:** Quarterly Financial Reports - YTD September 30, 2022

The 3<sup>rd</sup> Quarter 2022 financial reports are attached. Wastewater and Water combined operating revenues are tracking within 0.5% of budget and 12% greater than YTD 2021. Operating expenses are tracking 0.14% over budget and 12.3% greater than YTD 2021. Bond funds are projected to be consumed by year end. The process to secure a bond to fund current and planned bond projects is in progress with work ongoing on the resolution and preliminary official statement. The Board action request to approve the bond resolution will be included in the November Board package.

Respectfully:

A handwritten signature in black ink, appearing to read "Jim Cannava", is written over a horizontal line.

Jim Cannava  
Finance Manager  
Eagle River Water and Sanitation District



## Net Income & Budget Comparisons

### WASTEWATER

Operating	Annual Budget	YTD 2022 Q3	YTD 2021 Q3
Revenue	\$21,898,087	\$16,879,723	\$14,569,187
Expense	\$18,935,705	\$14,515,988	\$12,478,187
Net Income	\$2,962,383	\$2,363,735	\$2,090,999

Non-Operating	Annual Budget	YTD 2022 Q3	YTD 2021 Q3
Revenue	\$7,180,103	\$5,812,607	\$5,218,368
Expense	\$11,739,484*	\$5,411,402	\$4,638,865
Net Income	(\$4,559,381)	\$401,205	\$579,504

<b>Net Income</b>	<b>(\$1,596,998)*</b>	<b>\$2,764,940</b>	<b>(\$1,511,495)</b>
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\*Includes 2021 capital expense carryforwards

Fund Balance	Annual Budget	YTD 2022 Q3
Beginning Balance	\$23,414,392	\$23,414,392
Net Income	(\$1,596,998)	\$2,764,940
Restricted	\$5,851,312	\$5,589,729
Ending Unrestricted Balance	\$15,966,082	\$20,589,603

### WATER

Operating	Annual Budget	YTD 2022 Q3	YTD 2021 Q3
Revenue	\$7,687,772	\$5,735,212	\$5,198,683
Expense	\$6,360,457	\$5,215,382	\$4,410,104
Net Income	\$1,327,315	\$519,830	\$788,578

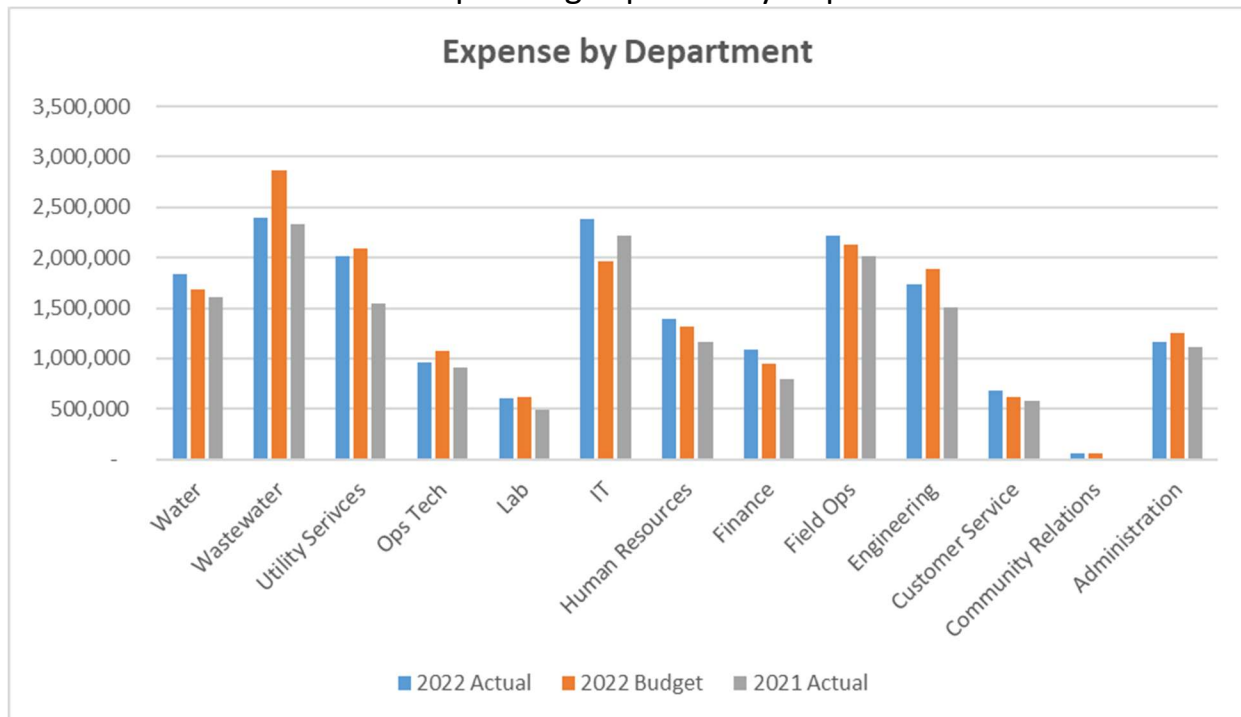
Non-Operating	Annual Budget	YTD 2022 Q3	YTD 2021 Q3
Revenue	\$2,588,127	\$2,060,472	\$2,115,013
Expense	\$4,272,600*	\$2,047,335	\$1,535,235
Net Income	(\$1,684,473)*	\$13,137	\$579,777

<b>Combine Net Income</b>	<b>(\$357,159)*</b>	<b>\$532,967</b>	<b>(\$208,801)</b>
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\*Includes 2021 capital expense carryforwards

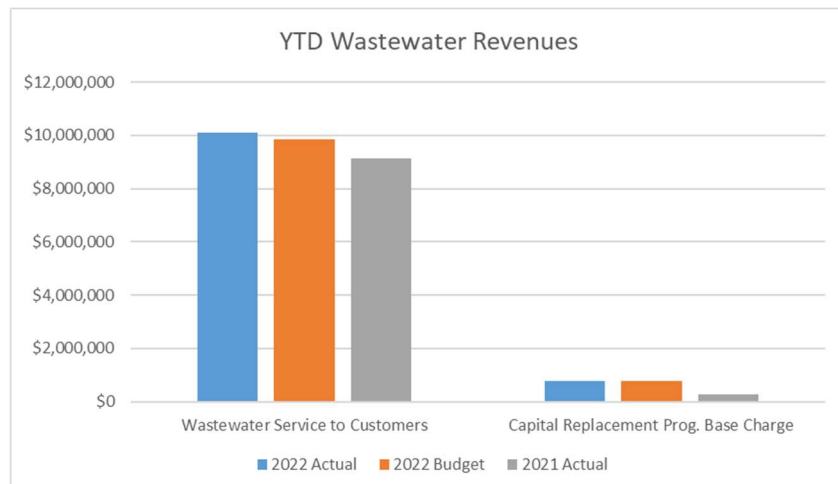
Fund Balance	Annual Budget	YTD 2022 Q3
Beginning Balance	\$5,142,345	\$5,142,345
Net Income	(\$357,159)	\$532,967
Restricted	\$1,836,096	\$1,838,914
Ending Unrestricted Balance	\$2,949,090	\$3,836,398

### Combine Operating Expenses by Department



- Wastewater is under budget due to the timing of chemical & utility expenses
- IT is over budget due to software and hardware expenses

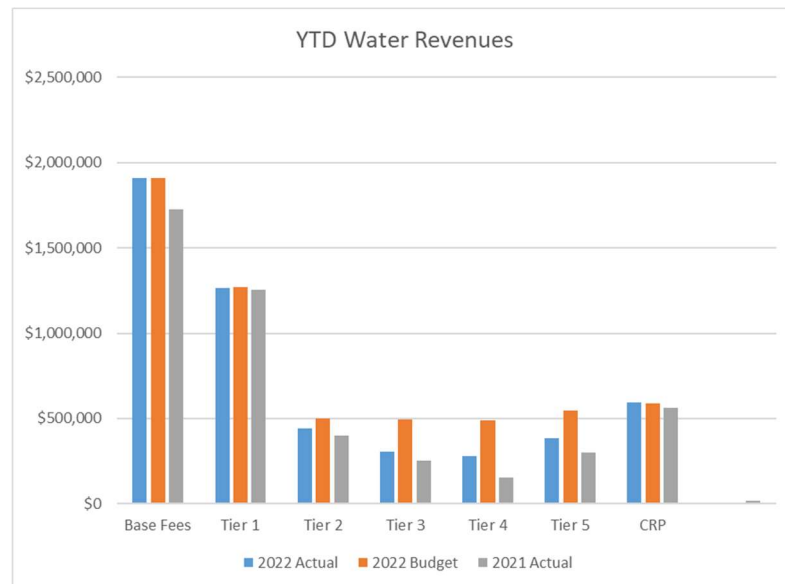
### Revenue Comparison







- Wastewater Service to Customers Revenue is 2.5% better than budget YTD
- Wastewater Capital Replacement Base Fees are tracking within 1% of budget
- Wastewater Impact Fees are \$533K YTD, \$373K over YTD budget and \$60K over YTD 2021



- Water Service to Customers Revenue is 11% under budget YTD due to summer consumption is down 12% year-over-year.
- Water Capital Replacement Base Fees are tracking within 1% of budget
- Water Impact fees are \$101K YTD, \$77K under YTD budget, and \$75K less than YTD 2021

### Bond & Cash Balances

### WASTEWATER

WW Bond Funds	Annual Budget	YTD 2022 Q3	YE 2021
Beginning Balance	\$14,582,968	\$14,582,968	\$39,339,011
Expense	\$39,449,538	\$13,730,803	\$24,756,043
Bond Balance	<b>-\$24,866,570</b>	\$852,165	\$14,582,968

WW Bond Projects	Budget	Expense	Remaining Budget
AWWTF Nutrient Upgrades	\$24,154,273	\$10,817,104	\$20,120,685
Dowd Junction Collection System Improve.	\$7,161,208	\$1,765,305	\$6,526,177
VWWTF Master Plan Capital Improvements	\$6,309,025	\$399,971	\$6,084,284
AWWTF Fire Flow Improvements	\$1,326,557	\$748,423	\$867,861
<b>Total</b>	<b>\$38,951,063</b>	<b>\$13,730,803</b>	<b>\$25,220,259</b>



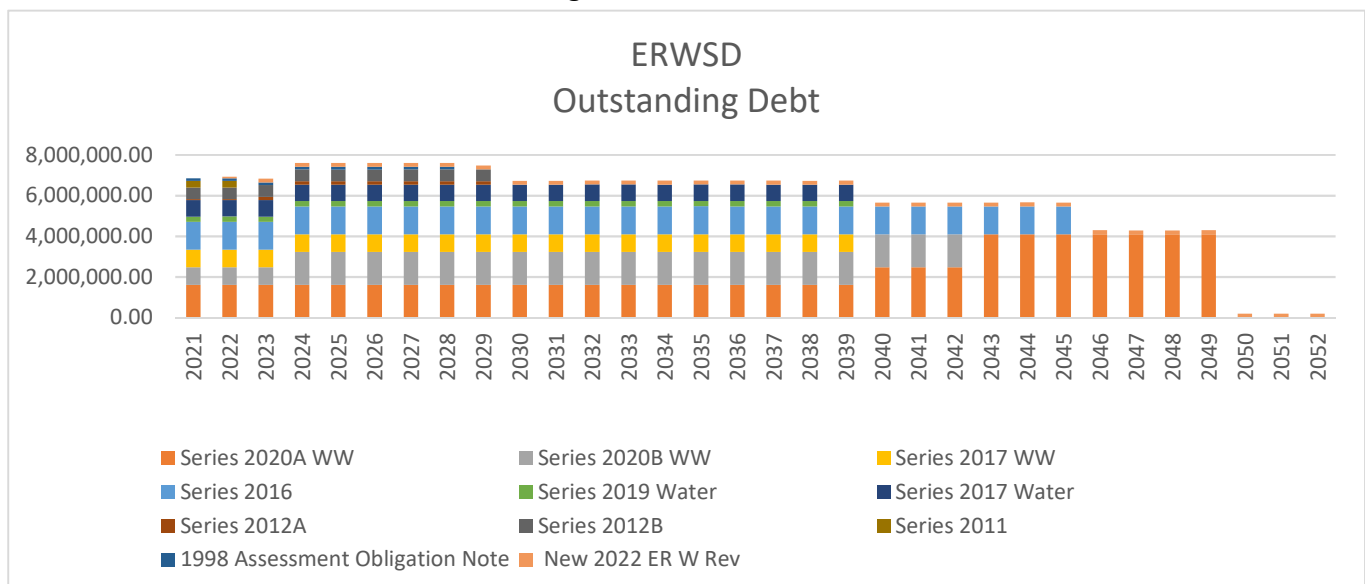
- The negative bond ending balance illustrates the need for a bond as planned. Bonded projects over 6 years require two bond issues due to the 3-year bond spend rule. The bond issue process has begun with the sale scheduled for January.

## WATER

Bond Funds	Annual Budget	YTD 2022 Q2	YE 2021
Beginning Balance	\$2,000,741	\$2,000,741	\$2,435,918
Expense	\$2,371,976	\$1,950,062	\$435,177
Bond Balance	(\$371,235)	\$50,679	\$2,000,741

Project	Budget	Expense	Remaining Budget
Bolts Lake Reservoir	\$2,232,626	\$1,943,082	\$289,544
RTU System Upgrade	\$86,225	0.00	\$86,225
N. Frontage Road Water Main	\$53,125	\$6,980	\$46,145
<b>Total</b>	<b>\$2,371,976</b>	<b>\$1,950,062</b>	<b>\$421,914</b>

- If all budgeted funds are fully spent a bond will be needed in the next year. The updated water master plan and timing of Bolts Lake expenditures will determine the value and timing of the water bond issue.



- Wastewater Debt Outstanding: \$144,408,980
- Water Debt Outstanding: \$25,088,866
- Total Outstanding Debt: \$169,497,846



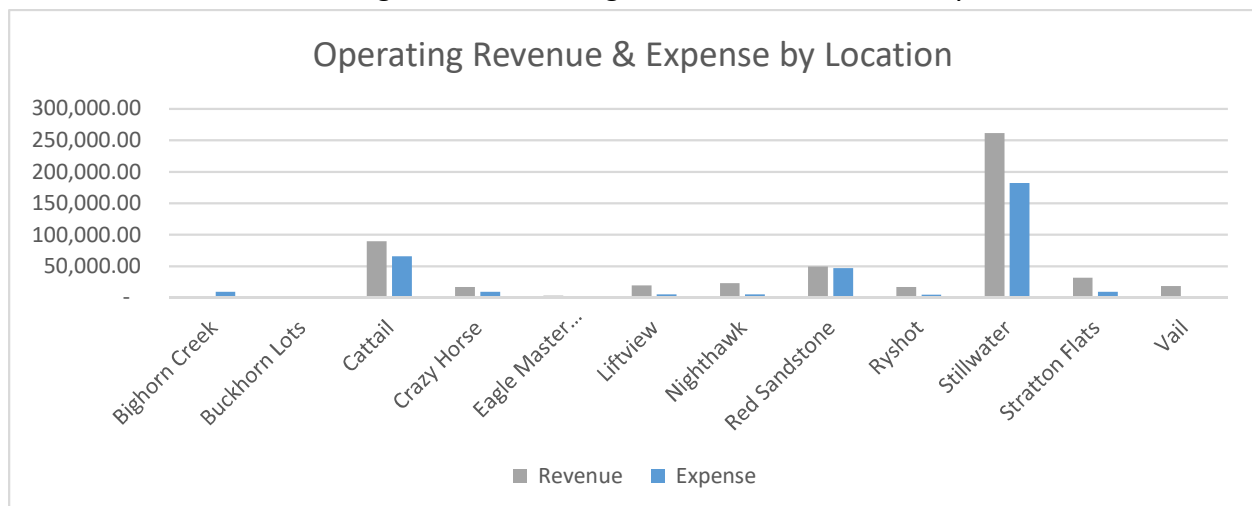
ERWSD WW & W	2022	2021	2020	2019
Combine Cash Balance	\$32,690,885	49,525,976	66,182,827	37,469,085

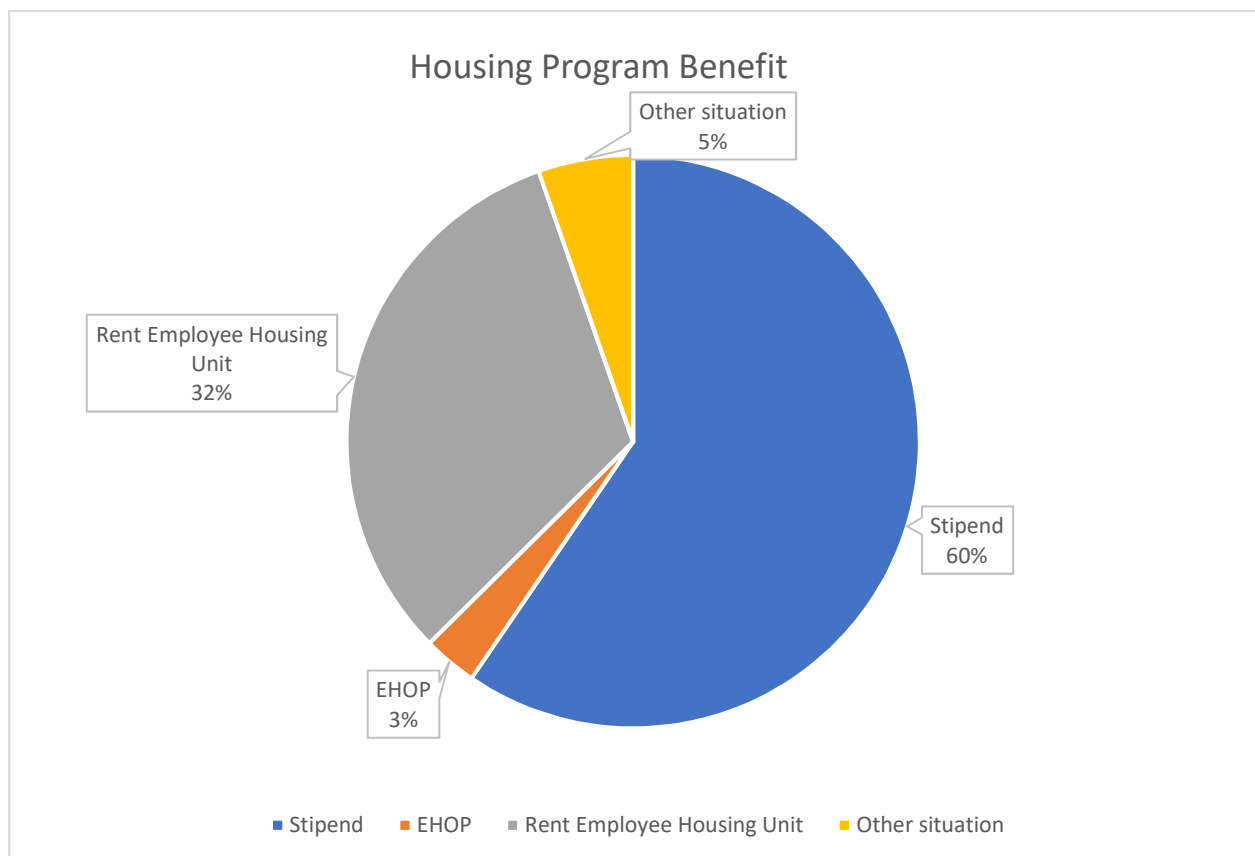
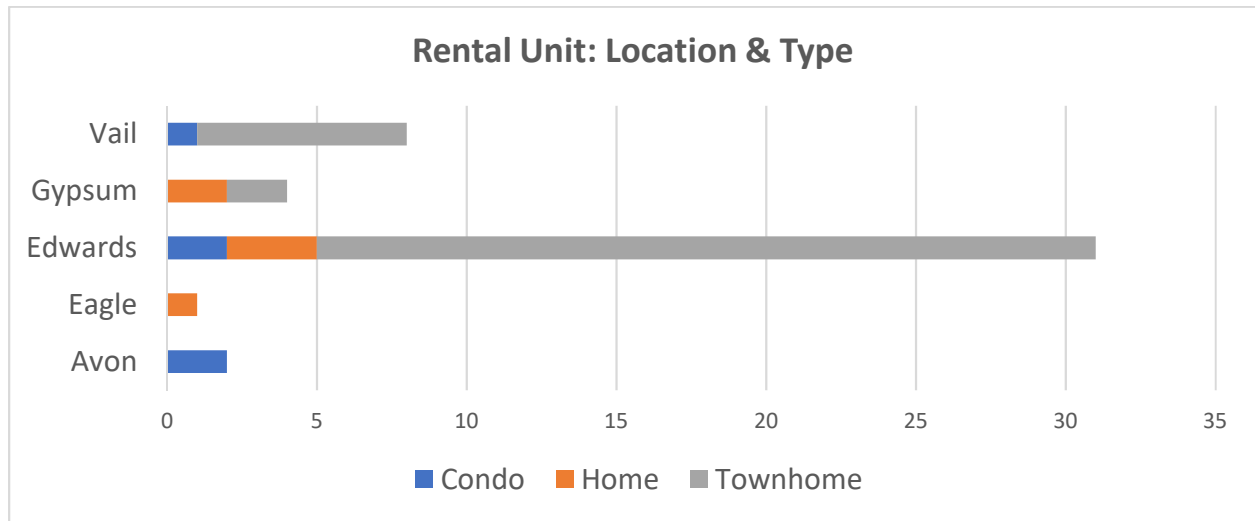
- Combine Cash balance fluctuates primarily due to bond fund changes.
  - Current fund balance reflects \$916,396 remaining in the 2020 revenue bond

### Housing Report

Location	Units	Revenue	Expense	Net Income
Bighorn Creek	1		9,271	(9,271)
Buckhorn Lots	3		1,263	(1,263)
Cattail	8	89,761	65,437	24,324
Crazy Horse	2	16,797	9,241	7,556
Liftview	2	19,589	5,106	14,483
Nighthawk	2	22,845	5,024	17,821
Red Sandstone	7	49,583	46,877	2,706
Ryshot	1	16,921	4,469	12,452
Stillwater	21	261,209	181,922	79,287
Stratton Flats	2	31,513	9,284	22,229
Vail	*	18,107		18,107
<b>Total</b>	<b>49</b>	<b>526,325</b>	<b>337,894</b>	<b>188,431</b>

- Revenues are tracking better than budget with due to low vacancy in Q1.





- Total employees: 131
- Other situations include employees sharing units and employee purchased units

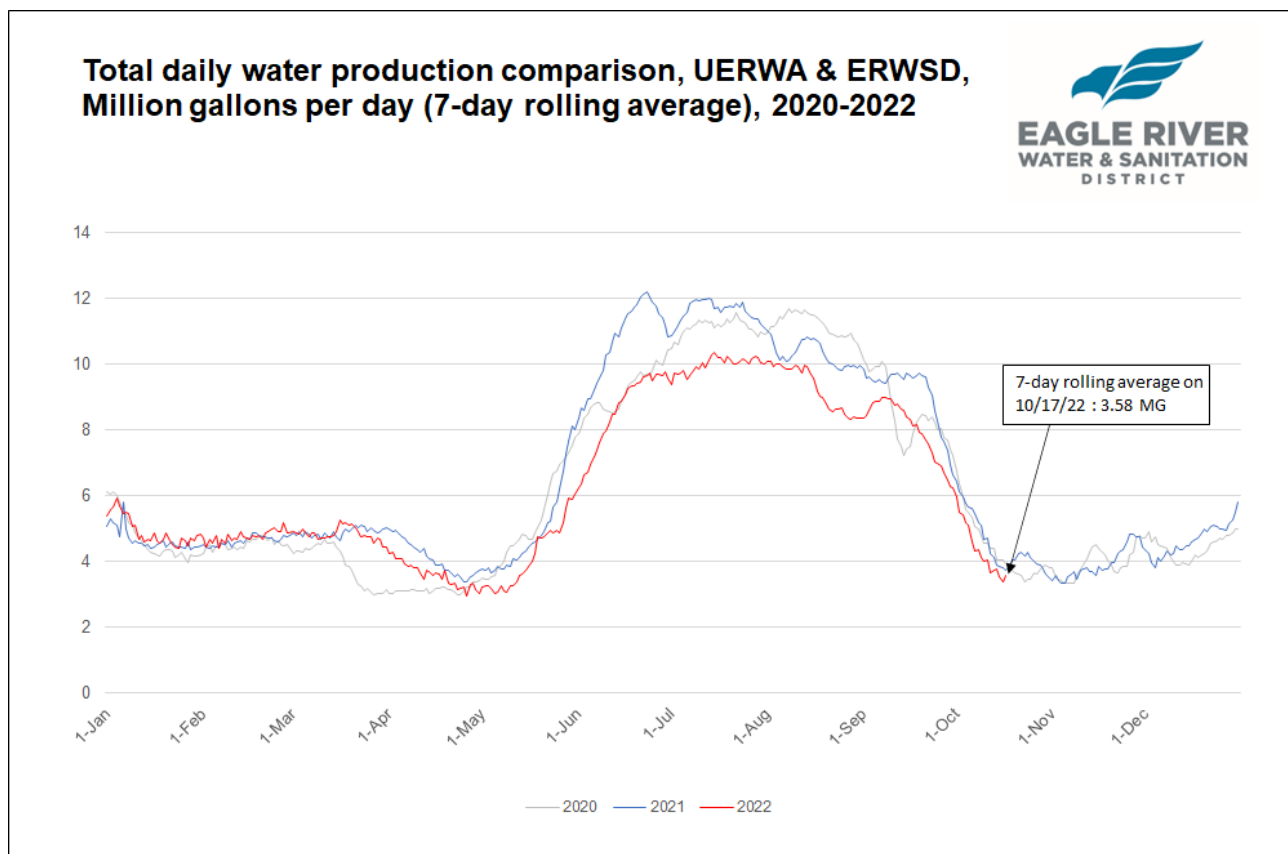


## OPERATIONS MONTHLY REPORT OCTOBER 2022

### WATER

Brad Zachman

The system-wide water production comparison was updated through Oct. 17. System demand has dropped to seasonal lows, which has allowed Water Operations staff to start a variety of planned maintenance projects, including routine equipment maintenance at the treatment facilities.



The Avon Drinking Water Facility (ADWF) was taken out of service on Oct. 11 and will remain offline until mid-Nov. for the completion of a planned capital improvement project that will increase fire flow capacity to the Avon Wastewater Treatment Facility. The work at ADWF will include installation of piping infrastructure that will allow water to be downloaded during a fire flow event from the Avon high pressure zone to the Avon low pressure zone.

Water downloading began from the District system into the Authority's service area on Oct. 5 and will continue through mid-November. Water uploading will begin in early December and will

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continue through late-spring 2022. The annual intersystem transfers are on pace to be at the required net-zero balance by April 30, 2022 (the end of contract year).

District staff members coordinated with Vail Resorts to prepare the Golden Peak snowmaking pump station for seasonal startup and operation. All District startup responsibilities are complete.

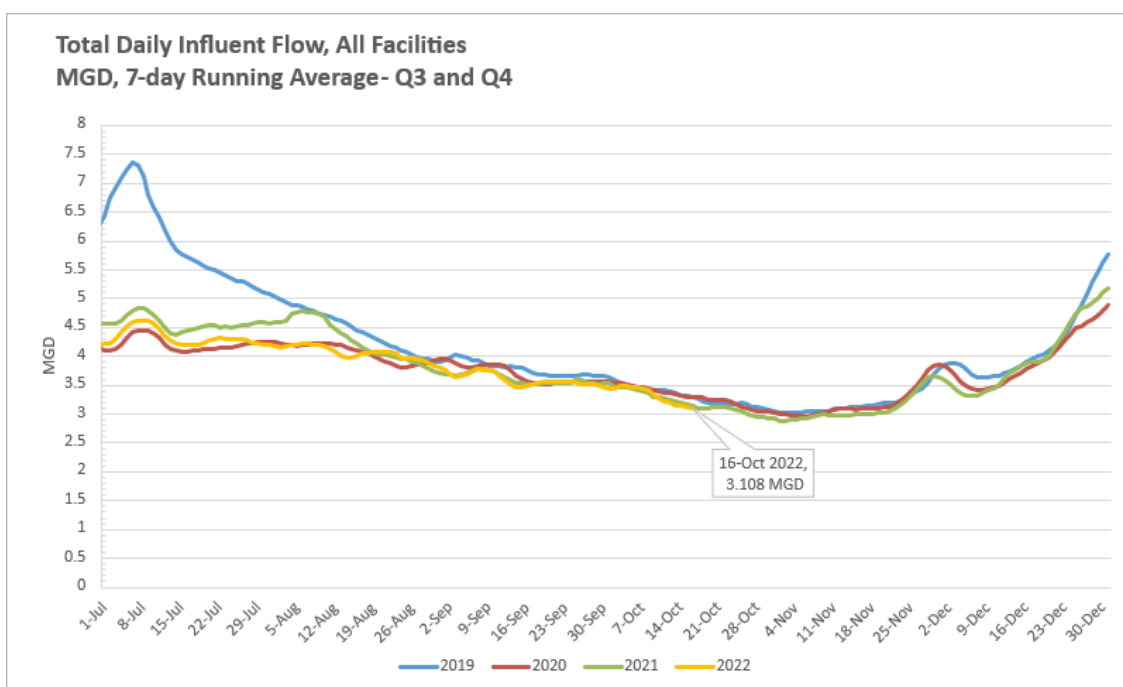
## LABORATORY & WATER QUALITY

No update.

## WASTEWATER

Rob Ringle

Influent wastewater (WW) flow and organic load typically stabilizes and gradually declines through October and early November; this year has closely matched that trend. Annual minimum influent flows and loading are expected in early November.



All WW facility staff groups are taking advantage of this time of lower loading to complete significant maintenance efforts. Vail WW staff recently dewatered and cleaned one of the large secondary process basins. This is intended to maintain optimal treatment performance and improve treatment efficiency through reduced aeration system demand. The basin will remain offline until loading increases around the holidays. Vail WW staff are involved in coordination efforts related to the Master Plan Improvements project, which broke ground in early October. Staff

are also participating in the review of the 90% progress deliverables for the phase II work, which will bring more significant operational adaptations in 2023.

Avon WW staff continue to make contributions to the ongoing Nutrient Upgrade Project construction effort. This has recently included dewatering and cleaning the equalization basins to facilitate installation of a new basin mixing system, and changes to the primary clarifier wasting operations to facilitate piping connections. Staff are preparing to commission the new equalization and aeration basin #1 systems in November.

Edwards WW continues to pilot operation in the anaerobic, anoxic, aerobic (A2O) process configuration, as intended to provide data related to enhanced phosphorus and nitrogen removal for the WW Master Plan Update effort. Staff have also successfully optimized the operation of the autothermal thermophilic aerobic digestion (ATAD) solids handling system to reduce the concentration of phosphorus in the liquid recycle stream. In addition to these process optimization efforts, staff recently completed a comprehensive cleaning of the rotary drum thickener system. Staff also rebuilt a transfer valve related to the ATAD system.



*EWV Staff replacing critical ATAD transfer valve.*

## FIELD OPERATIONS

Niko Nemcanin

Annual summer field system maintenance continues. Collection system jetting (five-year rotation) is completed.

On Sept. 20, a horizontal directional drilling contractor hired by Xcel Energy to install gas main, drilled through a section of sewer main on Metcalf Rd. The crown (top portion) of the main was damaged; all wastewater was contained in the pipe and there was no sanitary sewer overflow. A



Contractor was hired to set up sewer bypass pumping and to repair sewer main. Work on replacing 10' of sewer main was completed on Sept. 29 and all costs will be reimbursed to the District.



On Oct. 8 a contractor working on sewer service installation for 42 Red Spruce Ln in Beaver Creek damaged the water service line for 46 Red Spruce Ln. FO on-call personnel did an emergency shut down, isolated the leak, and restored the water service. This emergency was used to investigate the water main location in the area and update our maps. Since 46 Red Spruce Ln property is also being developed, FO worked with contractor to tap water services for 46 Red Spruce Ln while the road was open.

On Oct. 12 while excavating for 46 Red Spruce Ln water services, the saddle was damaged by the same contractor. FO responded, performed another emergency shut down and replaced the saddle. The next day all taps were completed and the trench was backfilled.



*Oct. 8 damage*



*Oct. 12 damage*



*Oct. 12 repair*



*Oct. 13 new water service taps completed*



FO supported various projects for other District departments, Eagle Park Reservoir improvements, R4 well electrical conduits repair, and construction review team investigations.

New technology for roots growth suppression, Root X, will be tested on Oct 21. If successful it will be purchased and used in the future. This technology should not affect wastewater treatment operations.

CIP assisted with a small valve installation near Hillcrest Drive and Lake Creek Village Drive to allow for better isolation of water mains in the area, specifically in the event of a failure beneath the Eagle River. After a protracted permitting process with Eagle County, the valve was excavated on Oct. 5 for shutdown/tie in and backfill on Oct. 6.

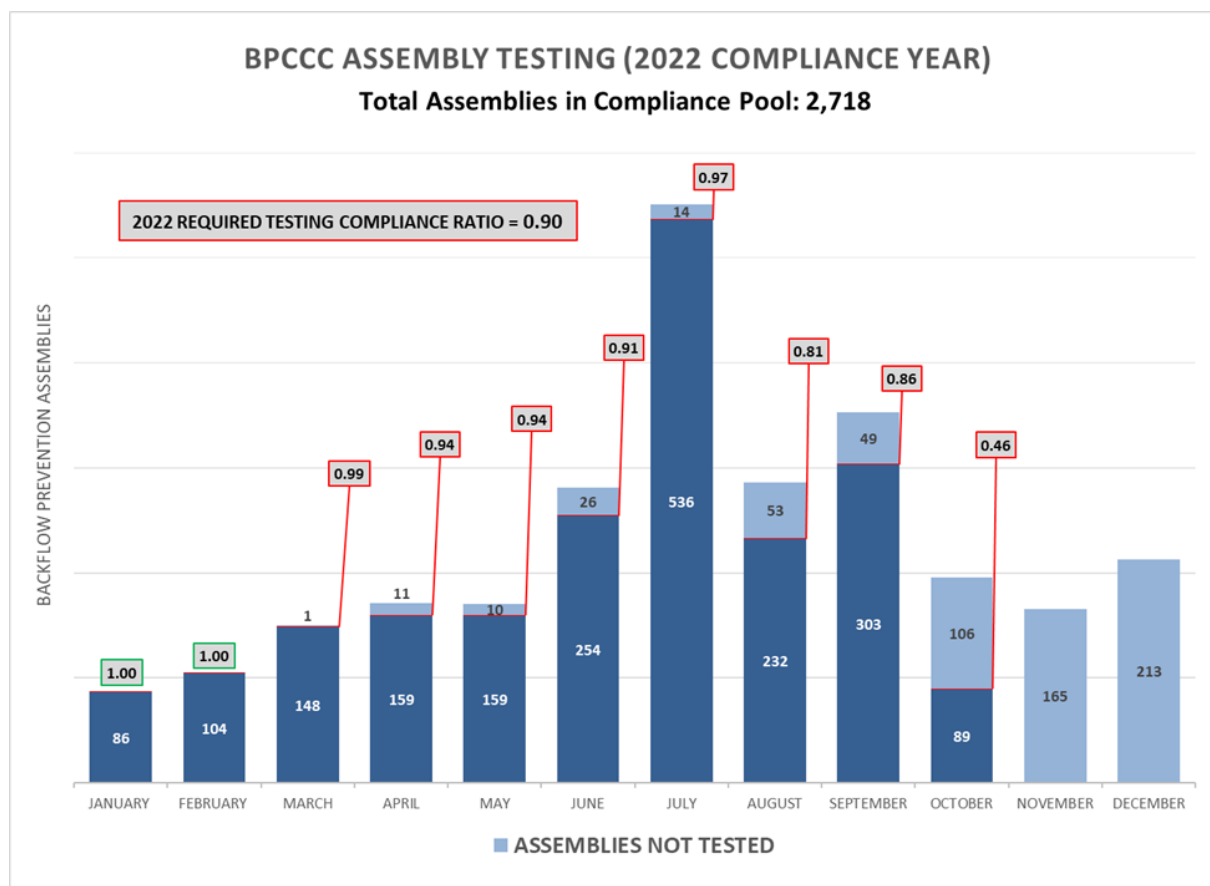
**UTILITY SERVICES**

Shane Swartwout

**BPCCC Program Compliance Status**

The BPCCC team is busy working with customers on the remaining backflow prevention assemblies that need to be tested to reach compliance by end of the year. All the past due customers are currently being fined and staff is now scheduling testing in-house of these assemblies.

Staff has recently mailed approximately 260 letters to customers who have backflow prevention assemblies that were due for testing in November and December requesting early testing, preferably by the end of October. This effort has reduced the number of assemblies that need to be tested in the last two months of the year.



### Meter Services – Advanced Metering Infrastructure Status (Updated 10-18-2022)

Report Date:	10-18-2022
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AMI SYSTEM STATUS	ERWSD	UERWA	TOTAL
(1) Total No. of Meters	3191	6829	10020
(2) No. of AMI Meters	3080	5664	8744
(3) System Percentage of AMI Meters	97%	83%	86%
Meters Remaining to Reach 100% AMI	111	1165	1276



The meter services team is steadily working on upgrading the remaining outdated meters. To date, there are currently only 111 meters left to reach 100% AMI in the District.

### **Fleet and Facilities**

The fleet team is preparing District vehicles and equipment for government surplus auction. At this time, there are currently 8 vehicles that meet replacement criteria and will be auctioned next month.

## **ENGINEERING**

Jeff Schneider

### **WATER PROJECTS**

#### **Radio Telemetry Unit (RTU) System Upgrades**

Carter Keller

General Project Scope: This project is a systematic approach to install standardized communication equipment to increase the reliability of the telemetry system throughout the distribution system (82 sites) and develop a standard (i.e., non-proprietary) telemetry platform to allow competitive pricing for upgrades, replacement, and system maintenance. Implementation is anticipated over a three-year period with a highly detailed sequence and schedule to limit distribution system disruptions.

Project Update: Fall commissioning is complete for the 2022 season. All 84 booster pump stations, tanks, and well sites that are located in the District and Authority are now communicating through the upgraded radio system. We are happy to report substantial completion of this multi-year multi-phase project that was initiated in 2013.

Currently work is underway to demo the last of the old radio system in the Cordillera area. Project closeout will continue and should be completed by the end of the 2022 year.

#### **Traer Creek Water Storage Tank**

Mark Mantua

General Project Scope: This project consists of the replacement of the Traer Creek Water Storage Tank. In addition to the tank replacement, the scope includes piping, appurtenances, and selective replacement of identified equipment including the RTUs and control cabinets.

Project Update: Repairs on the poorly consolidated concrete present in the dome roof is complete. All former leaks have exhibited no further water infiltration. Tank disinfection was completed in compliance with American Water Works Association guidelines. Earthwork and site restoration is complete, and the tank is ready for service. A walk through was conducted with Traer Creek Design Review Board representatives on Oct. 13 and all work has received final acceptance. To better align with operational conditions, District staff decided to fill the tank on Nov. 28, after the completion of the construction project at Avon Drinking Water Facility. The project is complete.

## **Avon Drinking Water Facility (ADWF) PLC Upgrades**

Jenna Beirsto

General Project Scope: This project includes replacement of two of the programmable logic controllers (PLCs) at ADWF. Additionally, a new server room will be constructed within the facility. All programming and PLC logic will be reverse engineered to determine required updates and improvements associated with the modification and replacement of the existing PLCs.

Project Update: Hensel Phelps has been contracted to complete this work. . Construction of the server room is expected to start after the first of the year. Procurement and submittal review is underway. The installation of the new PLCs and testing and commissioning is scheduled for Fall of 2023.

## **Fenno Wellhouse and Raw Water Conveyance**

Jeffrey Schneider/Carter Keller

General Project Scope: The project consists of complete replacement of a small treatment facility in Cordillera that treats water from seven groundwater wells and pumps into the distribution system. The previous facility did not meet electrical code, had some safety concerns, and was generally at the end of its useful life. Improvements to the wells and raw water piping are also included in this project.

### Project Update:

We are currently working with homeowners, a local HOA, and golf course staff on acquisition of additional easements at wells F5 and F7. After easements are obtained the wells will be pulled and inspected in a similar fashion. Well F3 has been assessed and it was found that the pump, motor, and wire need to be replaced. The equipment was ordered and installed on Oct. 7 and was put back into production after checkout was completed. Following the well assessment and repair work, permanent improvements to the raw water conveyance consisting of piping, controls, and electrical will be designed based on the findings of the current effort.

## **Water Production and Treatment Masterplan**

Jenna Beirsto

General Project Scope: The Masterplan will be a wholistic look at all production and treatment facilities system-wide including treatment plants and wells. The goal is to do a thorough risk-based analysis and provide a roadmap for future capital project implementation in light of threats from climate change, low stream flows, wildfires, etc. along with a detailed condition assessment of existing assets.

Project Update: Carollo is working on revisions to chapter 1 and drafting of chapters 2 and 3 of the masterplan report. The master planning team has begun building a specialty model (Blue Plan It) to better analyze the entire water system between the District and Authority. A risks and threats workshop was held on Sept. 27 where the team discussed vulnerabilities to the water system. The district is working on collecting additional water quality data on some of the wells in the system.

## **Avon Wastewater Treatment Facility (WWTF) Fire Flow Improvements** Woodson Spring

General Project Scope: The Avon WWTF Fire Flow Improvements consist of two major components. The first is installation of 1,100 linear feet of 12" water main down Millie's Lane and into the Avon WWTF site. The second is modifications within the Avon Drinking Water Facility (DWF) to transfer water from the high zone to the low zone. The project will bring the Avon WWTF into compliance with fire flow requirements and address a long-standing deficiency.

Project Update: Pipeline work resumed the week of Sept. 19, with some interruptions due to constrained site conditions and utility conflicts. The 10" hydrant line was tested the first week of Oct. An additional 285 feet of water main was installed across the northern AWWTF property, and is currently under testing. A shutdown for water main tie-in is scheduled for the week of Oct.24. Demolition has begun for installation of the new pressure relief valve (PRV) in the ADWF.

### **WASTEWATER PROJECTS**

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## **Avon Wastewater Treatment Facility (AWWTF) Nutrient Upgrades** Melissa Marts

General Project Scope: The Avon WWTF requires upgrades to meet Regulation 85, which requires a reduction of the concentrations of nitrogen and phosphorus in the effluent. The scope of this project includes the following: addition of 0.6 million gallons of aeration basin capacity, a new secondary clarifier, structural modifications to the existing aeration basins to remove the existing double-tees and replace with a building structure, a new odor control study and system, and other improvements throughout the facility. This project also includes improvements identified in a 2017 condition assessment in other process areas throughout the facility.

Project Update: The tower crane was disassembled and removed from site after the completion of the building structure in Sept. Moltz tied in the return primary sludge line to the new sewer line on the north side of the aeration basins. Asphalt is being removed from the front of the building in preparation for grading and paving. Work is progressing on upgrades to the equalization basin mixing, pumping, and access. The Town of Avon Planning and Zoning unanimously approved the materials and variance requested to install a Trex fence around the entire facility perimeter. We are working on designing some 'post completion' activities such as a retaining wall replacement above the bike path and sand oil separator for the mechanic shop drain, both are scheduled for winter installation along with the Laboratory Improvements project.

## **Dowd Junction Collection System Improvements** Jenna Beirsto

General Project Scope: The project consists of four major components, all of which are at the end of their useful lives: the aerial interceptor crossing at Dowd Junction; Lift Station 4, which conveys all of Minturn's wastewater; the aerial interceptor crossing at the Minturn Road bridge; and the force main downstream of Lift Station 4. The project will also include capacity for growth in its respective service areas, most notably the Minturn area improvements.



**Project Update: West Vail Interceptor Aerial Crossing:** The new sewer line is actively flowing. The Contractor successfully demolished the existing pipe and piers in September. The Contractor is working on site restoration, final punch list and decommissioning from the site. All work will be complete by the end of the month.

**Lift Station 4 and Force Main Replacement:** This project combines three packages of work into one large project. Package A includes the lift station 4 replacement, package B is replacement of the exiting force main with two 8" HDPE force mains, and package C in partnership with Eco Trails (Eagle County) to connect the bike trails from the lift station to the West Vail Interceptor crossing. Gould completed paving and striping on Highway 6/24 for the gravity sewer line work that was completed this year. Gould and their subcontractor finished shoring installation for the new wet well. The wet well base slab was placed October 13. The Contractor is working on forms and rebar for the wet well walls.



*Setting forms for the wet well walls*



*Gould placing concrete for the wet well slab on grade*



*Site restoration progress looking northwest   Site restoration progress looking southwest*

## **Avon Lab Improvements**

Melissa Marts

General Project Scope: A new inductively coupled plasma mass spectrometer (ICP-MS) purchased by the District will be installed in the lab. This will provide improved analytical capability to our internal and external customers. This device enables District staff to perform in-house metals analyses that are normally outsourced. Lab and architectural modifications will be constructed, including a new gas cabinet, duct chase, and fume hood. During design, the makeup air unit (MAU) serving the lab was identified to be at the end of its useful life; the HVAC system for the lab and lab offices will also be replaced.

Project Update: A design review application for a minor exterior modification to the Admin building has been submitted to the Town of Avon for staff approval.

## **Vail Wastewater Treatment Facility (VWWTF) Master Plan Improvements** Mark Mantua/Melissa Marts

General Project Scope: A condition assessment of the Vail WWTF conducted as part of the 2017 Master Plan identified various upgrades required to keep the facility in reliable and operable condition. The scope includes a new, larger diesel generator and associated electrical, structural repairs in the aeration basin, equalization, and clarifier rooms, replacement of the aging ultraviolet (UV) system, and construction and installation of an external facility bypass.

Project Update: PCL has broken ground and is occupying the lower parking lot of at Vail WWTF preparing to form and pour the generator pad and install the electrical duct bank. The 90% design submittal for phase II was delivered and is being reviewed by the District and PCL. PCL will develop the phase II cost proposal to be submitted to the District. CDPHE issued the In-Kind Replacement Acknowledgement on October 11, allowing for the District and PCL to proceed with procurement of long lead items including diffusers and UV equipment.

## **GENERAL CAPITAL**

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### **Fleet Maintenance Facility**

Mark Mantua


General Project Scope: The 2020 Overall Facilities Master Plan indicated an opportunity to relocate the fleet maintenance facility, along with large vehicle and equipment storage and water meter testing and storage, to the property known as “Hillcrest” at the corner of Hillcrest Drive and U.S. Highway 6. We are moving forward with that concept but located on a parcel of land immediately east of the Edwards Wastewater Treatment Facility on Lake Creek Village Drive.

Project Update: The project architectural consultant, D2C, has begun the data collection phase of the project. D2C is currently reviewing existing survey and engineering reports conducted on the existing property. To better understand the District's needs at the new facility, D2C facilitated site visits, interviews and questionnaires. Three local fleet facilities were toured by multiple District and D2C members. Two separate meetings were conducted and a written questionnaire about fleet needs was completed by District staff. After data collection is complete in early Nov., D2C will

begin developing preliminary site concepts. Preliminary site concepts are expected from D2C in early Dec.



## MEMORANDUM

**TO:** District and Authority Boards of Directors  
**FROM:** Jason Cowles, P.E.   
**DATE:** October 19, 2022  
**RE:** Engineering & Water Resources Report

### Authority Unallocated Water Update

The Authority's unallocated water projection remains at 227.31 acre feet. This includes 51.19 acre feet of unrestricted Eagle Park Reservoir water, which includes the 25 acre feet pledged to the Authority by the District. It also includes 78.13 acre feet of Eagle Park Reservoir water committed to workforce housing, and 97.98 historic irrigation season consumptive use credits.

It should be noted that the Authority has very few Brett Ditch HCU credits available in August and September and must use in-basin storage releases to augment depletions for cash in lieu of water rights customers in August in September per the Authority's decreed global augmentation plan. Thus, the limiting factor for the Authority's ability to serve new developments will be the 51.19 acre feet of remaining unrestricted Eagle Park Reservoir water. We will discuss the impact this will have on the water dedication policy in the work session planned for the Board meeting.

### Bolts Lake

Field investigations for the preliminary design of Bolts Lake reservoir are underway. LRE Water obtained work plan approval from CDPHE and EPA for the installation of soil moisture probes and data loggers in the Old Tailings Pile (OTP) area and completed the installation of the equipment the week of October 10. Data collected from this effort will further calibrate our groundwater model and improve our understanding of groundwater recharge rates in the area following the planned reclamation of the OTP.

Authentic Drilling also mobilized their core rig to the site the week of October 10 and completed the first borehole in bedrock on the south abutment of the main dam alignment. Bedrock cores taken from the borehole will be used to evaluate bedrock properties for dam foundation design. A piezometer was also installed to monitor level and flow patterns of groundwater in the subsurface for design purposes. Authentic mobilized their sonic drill rig to the site this week in an effort to complete all six planned boreholes by the first week of November before winter conditions set in.



Finally, a grading permit application had been submitted to Eagle County for the excavation of several exploratory test pits at the District's 25-acre Biosolids Containment Facility property adjacent to the Eagle County landfill. The test pits will be used to evaluate the quality and quantity of clay material on the site to determine if it will be a suitable borrow source for clay material for the reservoir's dam core and liner.

### **Homestake Creek Transit Loss Study Update**

LRE Water has prepared and submitted a revised study and response memorandum to the Division Engineer in response to comments we received on the initial submittal. We will update the boards on the Division Engineer's response once it is received.

### **Update on Water Budget Program Development**

The primary goals of implementing a water budget program are to improve water use efficiency and reduce water consumption. In real numbers, the water savings goal for the District and Authority is to save between 300 and 500 acre feet of augmentation water per year across the entire service area. With our limited water supply at the headwaters of the Eagle River coupled with increasing pressure to reduce water use in the Upper Colorado River Basin, the need for reducing water use is stronger than ever. The District and Authority already have implemented a tiered rate structure to help incentivize efficiency, but this can be improved further by establishing volumetric limits customized for each customer. Direction to pursue implementing a water budget program was provided by the Water Supply Planning Subcommittee at the recommendation of staff in late 2019 before the start of the pandemic. Since that time, staff has been working on various elements of a water budget program. The main elements to implementation include:

- Defining the water budget
- Designing and testing the billing system
- Determining water budget rates
- Obtaining approval from board
- Soliciting public input
- Communicating with customers
- Billing according to water budget volumes
- Maintaining and adjusting program as needed

The primary focus of staff has been on defining a water budget for the various communities within the service area and determining the basis for establishing water budget volumes for each customer class. Indoor water use is less variable than outdoor water use and can usually be set at a fixed volume or established based on average monthly consumption during winter months for each account. This becomes the indoor water budget and is billed at the lowest volumetric rate.

Outdoor usage on landscaping is where the majority of water efficiency can be improved, and residential accounts comprise the majority of the customer base (89%) and total water usage (55%). Outdoor water usage for residential customers is assumed to be about half of this usage.

Another component to residential landscaping is determining the allowable irrigated area based on land use restrictions and/or water right assumptions for irrigated use by community and reconciling that with what is being irrigated in the field. Staff has researched and compiled this information for each development in the Authority, which will be utilized to set budgets in areas that have such restrictions or assumptions. As an example, Cordillera is only allowed 5,000 square feet (SF) of irrigated area per single-family lot per the Planned Unit Development (PUD), but many lots have greater than 5,000 SF of irrigated area.

The next largest outdoor water usage occurs with irrigation only accounts (e.g., HOA irrigated turf). To determine an outdoor water budget volume, utilities typically calculate the outdoor water budget for a given month based on irrigated area with an assumed plant material (e.g., Kentucky bluegrass) multiplied by the evapotranspiration (ET) rate. This yields the plant water requirement and is converted to thousands of gallons allowed within a billing period (i.e., outdoor water budget). This volume varies each month within the growing season and is billed at the next tier rate. Customers should be able to stay within this billing rate when applying irrigation water efficiently and at the proper rate. Water applied more than the budgeted amount during the irrigation season would be billed at the third tier.

Typically, the third tier rate is capped at a fixed volume (e.g., 30,000 gal/month for residential customers) and anything used above that would be considered excessive and a surcharge would apply. This helps discourage excessive water use. Revenue associated with excessive water use often is used to help fund rebate programs for water-saving efforts such as turf replacement or smart irrigation controllers.

Progress has been made on defining the water budget and, with support from the GIS team during 2022, irrigated areas have been delineated based on aerial imagery collected in 2021 and 2022 for all residential (RES) accounts (8,863) as well as irrigation (IRR) only accounts (160). These accounts comprise 91% of the customer base and account for approximately 60% of the total water use within the service area. For the District and Authority's service areas, the ET rate varies based on elevation and aspect. Analysis currently is being performed by the District's water resources consultant (LRE Water) to determine irrigation water requirements for the Eagle Valley by water right service area. This comprehensive analysis will consider variations in elevation and aspect for each water right service area to support more robust and defensible ET rates. This analysis should be completed by mid-November 2022.

Using the irrigated area information for each customer class coupled with the ET rates, staff will determine outdoor water budgets for each account. Further work is needed to determine outdoor water usage on the remaining customer classes (commercial, mixed use, and sprinkler).

The next major step is to evaluate our billing software and customer information system. Staff currently is looking at existing system capabilities to determine if customizing water budgets for each customer each month is feasible. If not, then research will need to be done to determine what billing software is available and at what cost. Concurrent with this work, water budget rates will be evaluated based on financial models built using output from the water budgets defined for all the accounts.

Engaging the community probably is the single most important aspect for successfully implementing a water budget program. Initial messaging from the Board (Valley Voices) and General Manager (e-mail to customers) was the beginning of customer engagement and more is planned for 2023. A comprehensive communication plan will be developed that will include public meetings with community stakeholders throughout the service area, individual contact through emails/mailings as well as telephone calls to customers as needed. Lastly, before implementing actual water budget billing, mock bills with water budget information will be generated and provided to each customer for a 12-month period prior to going live with water budget-based billing. This has been used effectively by other utilities resulting in better understanding on the customer side and very few inquiries or complaints. Clear communication is key to success.

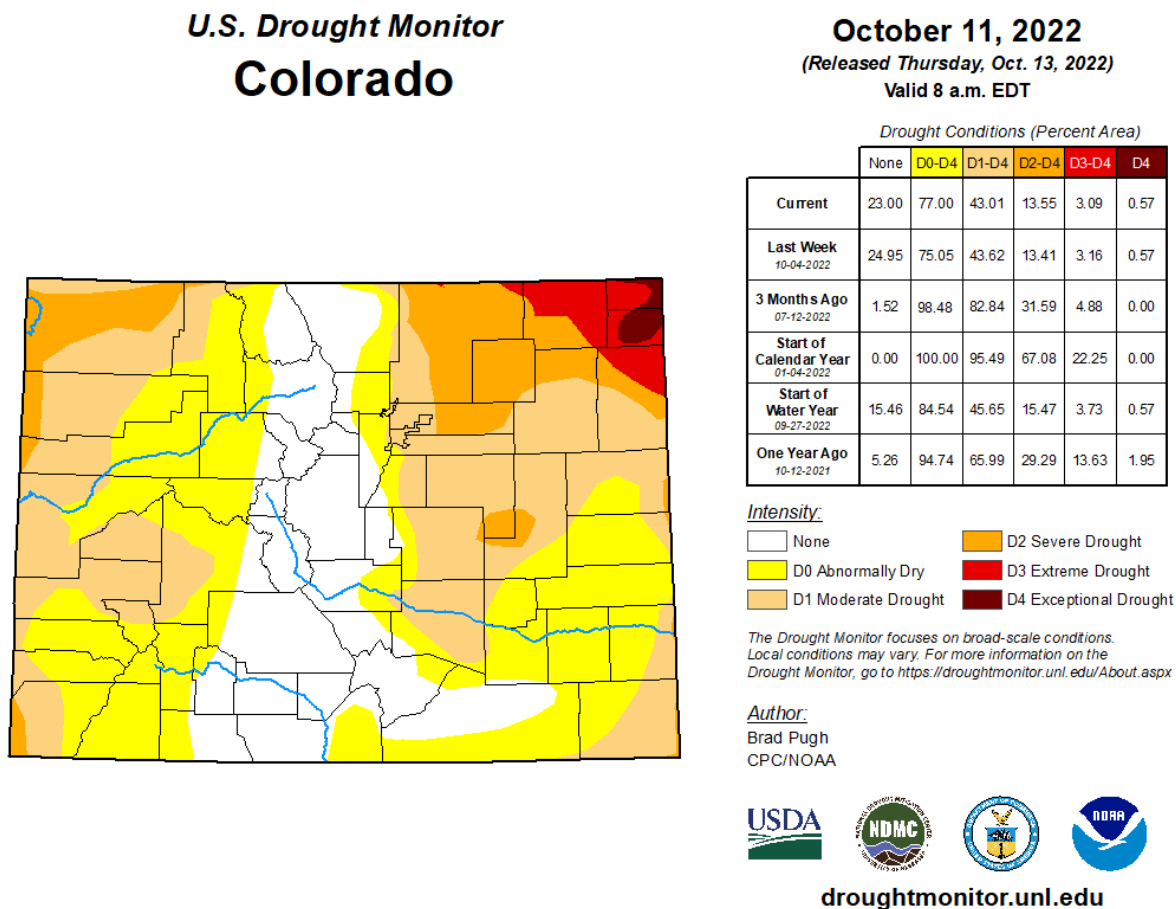
We plan to further discuss our progress with the Boards and present a more detailed schedule and plan for implementation early in the new year. In addition, further analysis of customer accounts is needed to subdivide the residential customer class to distinguish between hotel/lodging, apartments, condominiums, etc. and breakout indoor water use compared to outdoor water use for all customer classes. We also should be able to evaluate our existing billing software and customer information system by the end of 2022 and determine if it is feasible for preparing customized water budgets for each account.



## Water Resources Update

The latest U.S. Drought Monitor map for Colorado is shown below in Figure 1. Drought conditions continue to show improvement in the higher elevation regions of the state. Portions of eastern Eagle County and nearly all of Summit County have been removed from drought status in the past month.

Figure 1: US Drought Monitor, Colorado October 11, 2022 (National Drought Mitigation Center).



Unfortunately, the relief from drought conditions may be short lived, as the NOAA Climate Prediction Center's seasonal drought outlook in Figure 2 indicates a likelihood that drought conditions are likely to develop and/or persist throughout the state in December. The Climate Prediction Center's seasonal outlook for temperature and precipitation indicates a high probability that Colorado will see above average temperatures (Figure 3) and below normal precipitation (Figure 4) through December. The seasonal outlook is also consistent with the latest El Niño-Southern Oscillation (ENSO) forecast which favors a 75% chance of La Niña persisting from December through February.

Figure 2: US Seasonal Drought Outlook through December 31, 2022 (NOAA Climate Prediction Center).

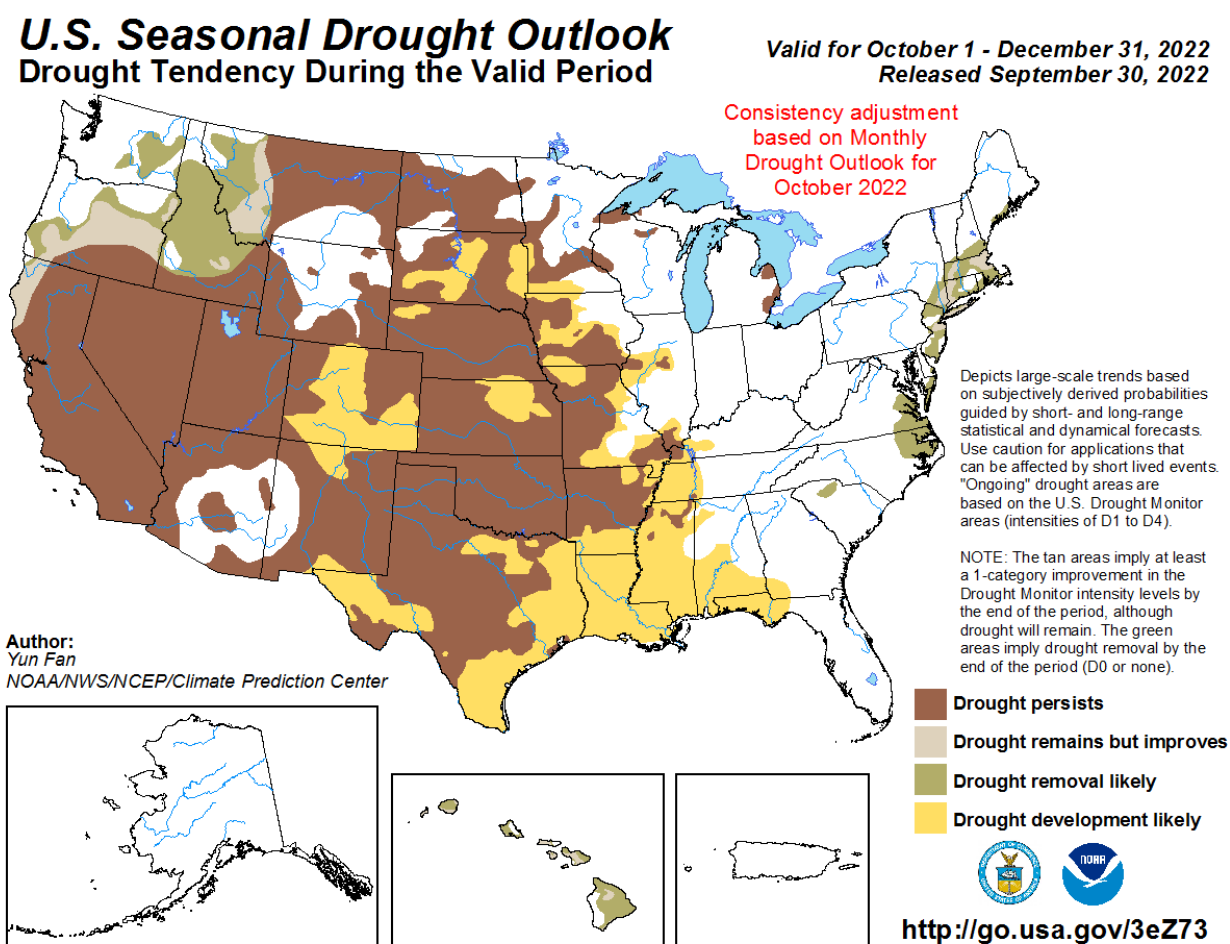


Figure 3: Seasonal Temperature Outlook September 15, 2022 (NOAA Climate Prediction Center).

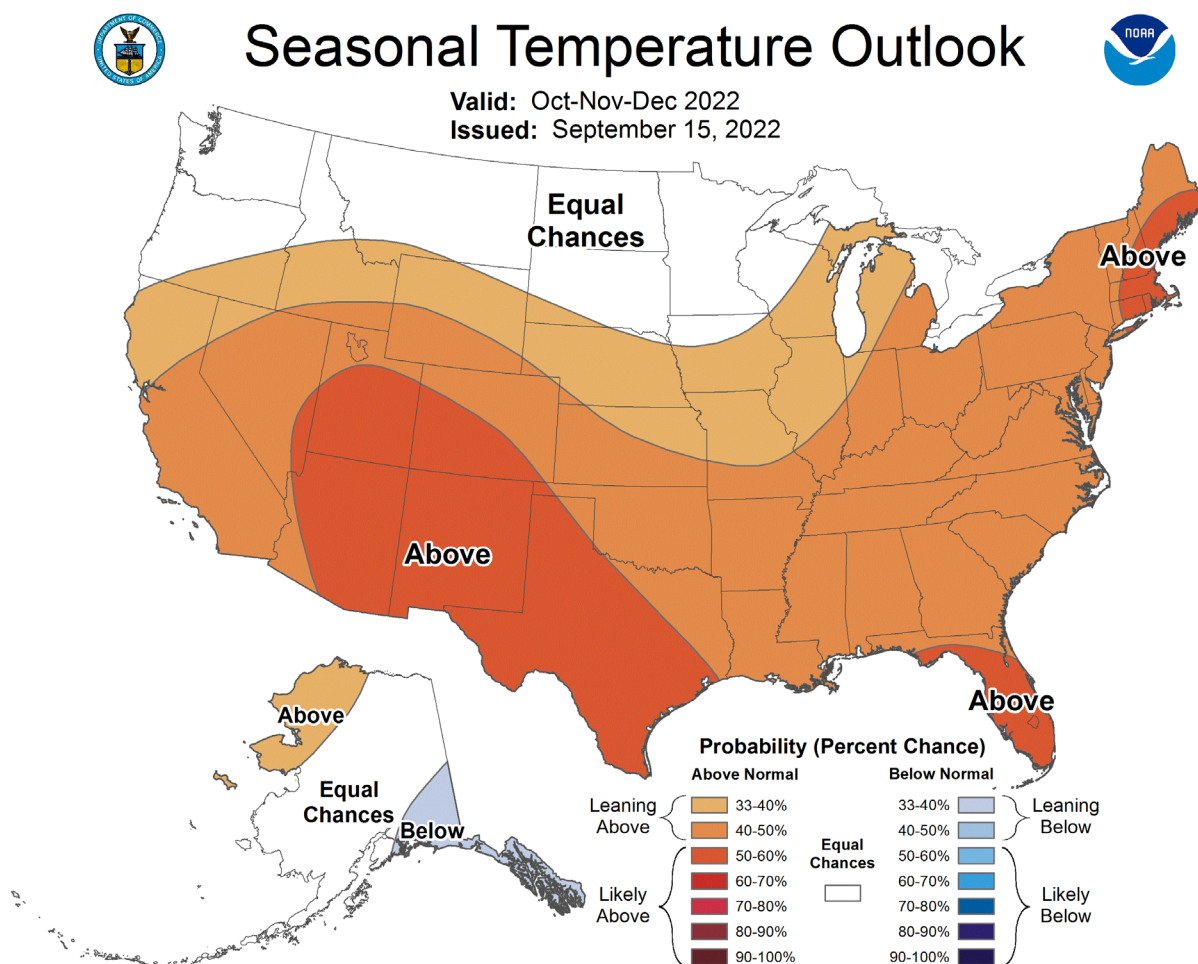
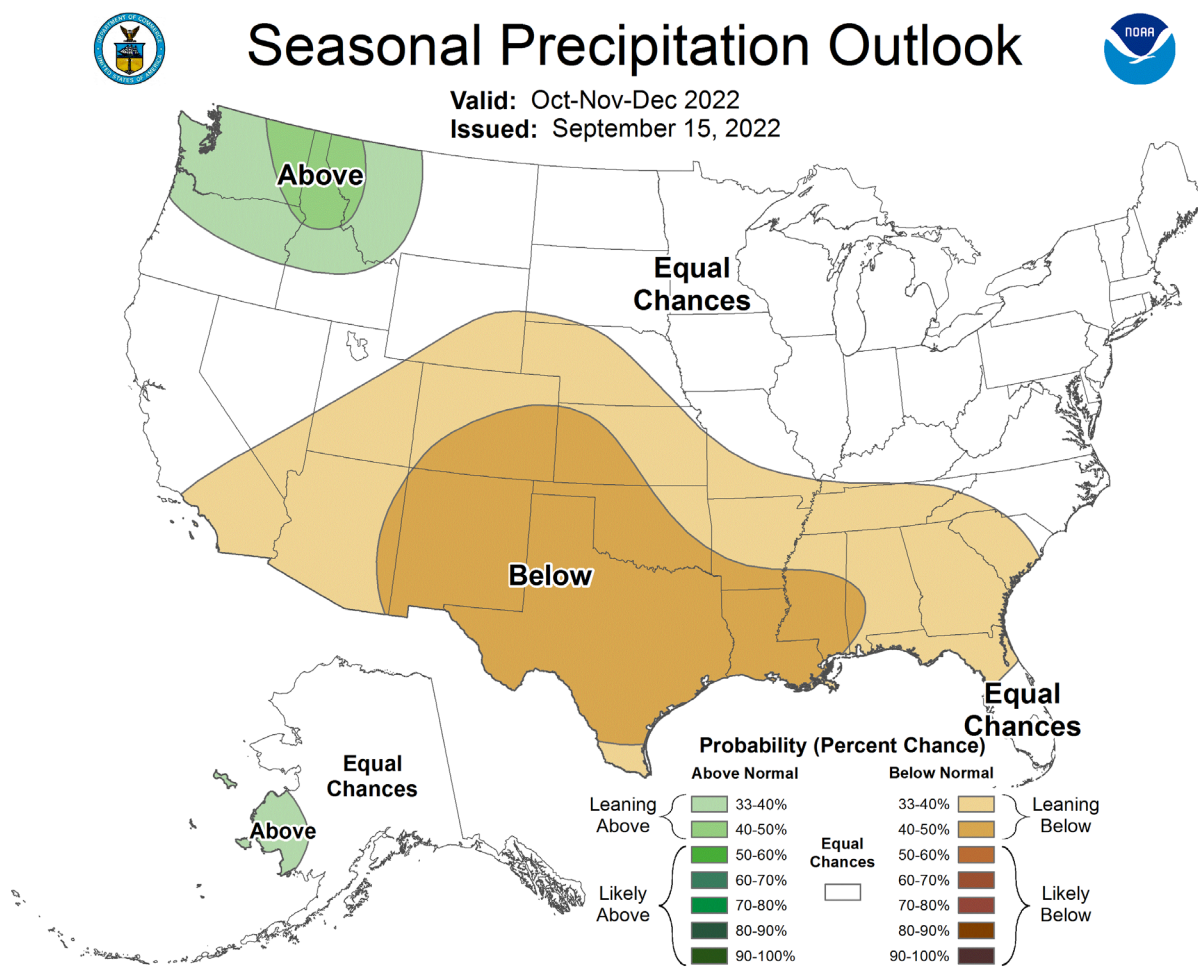


Figure 4: Seasonal Precipitation Outlook September 15, 2022 (NOAA Climate Prediction Center).



Cumulative precipitation at the Vail Mountain Snotel site shown by the purple line in Figure 5 finished the 2021-2022 water year at 28.3 inches, which was 6.3 inches below the median year end value of 34.6 inches, or 82% of normal. Cumulative precipitation at Freemont Pass shown by the amber line on Figure 6 finished 1.9 inches above the annual median at 31.2 inches. Hopefully, I will be able to report on snow water equivalent readings next month at these two sites.

Figure 5: Cumulative Precipitation, Vail Mountain SNOTEL, October 17, 2022 (USDA).

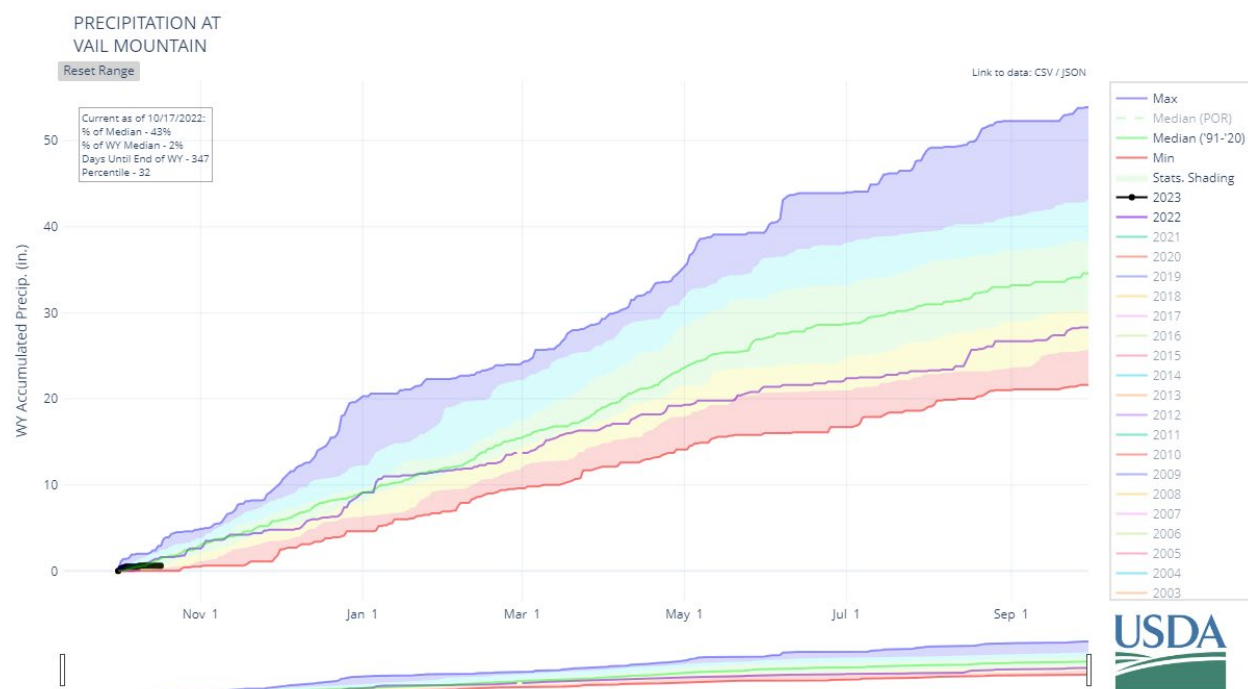
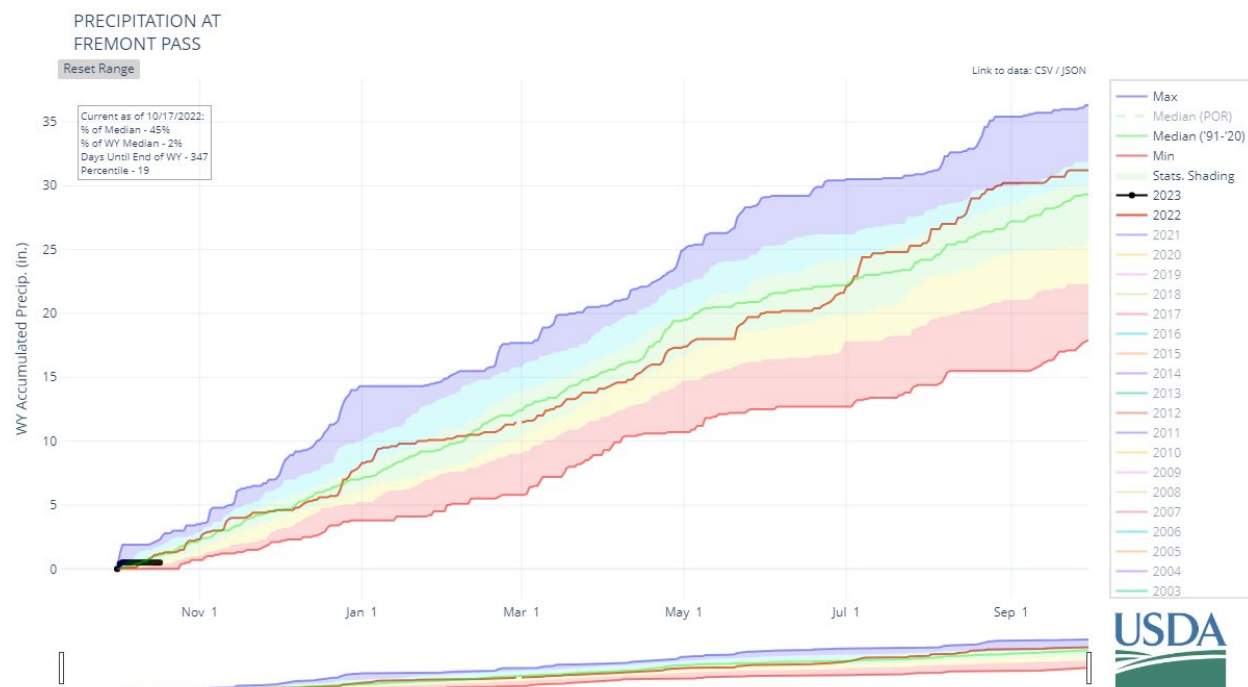


Figure 6: Cumulative Precipitation, Fremont Pass SNOTEL, October 17, 2022 (USDA).





Streamflows on Gore Creek were aided by precipitation in late September and have been trending above the Colorado Water Conservation Board's (CWCB) minimum instream flow of 16 cfs during October but are expected to drop below 16 cfs before the end of the week based on the Colorado Basin River Forecast Center's forecast shown in Figure 7. The CWCB minimum instream flow on the Eagle River segment between Gore Creek and Lake Creek dropped from 85 cfs to 35 cfs on October 1 and flows forecast in Figure 8 are expected to trend well above the instream flow.

Figure 7: Streamflow for the USGS station on Gore Creek above Red Sandstone Creek (CBRFC).

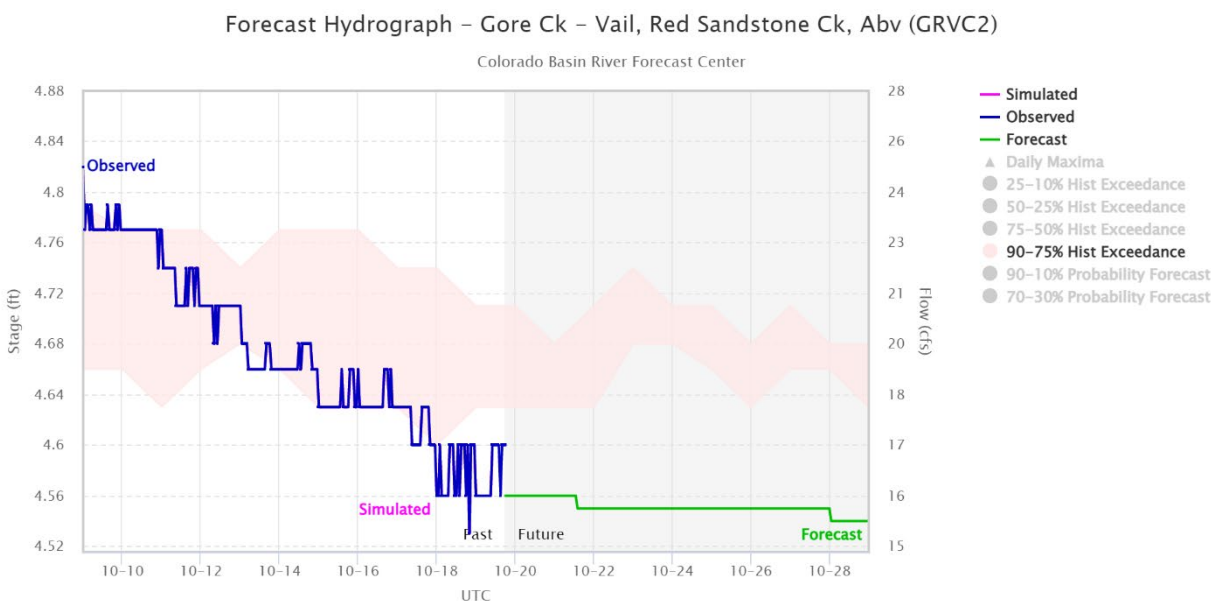
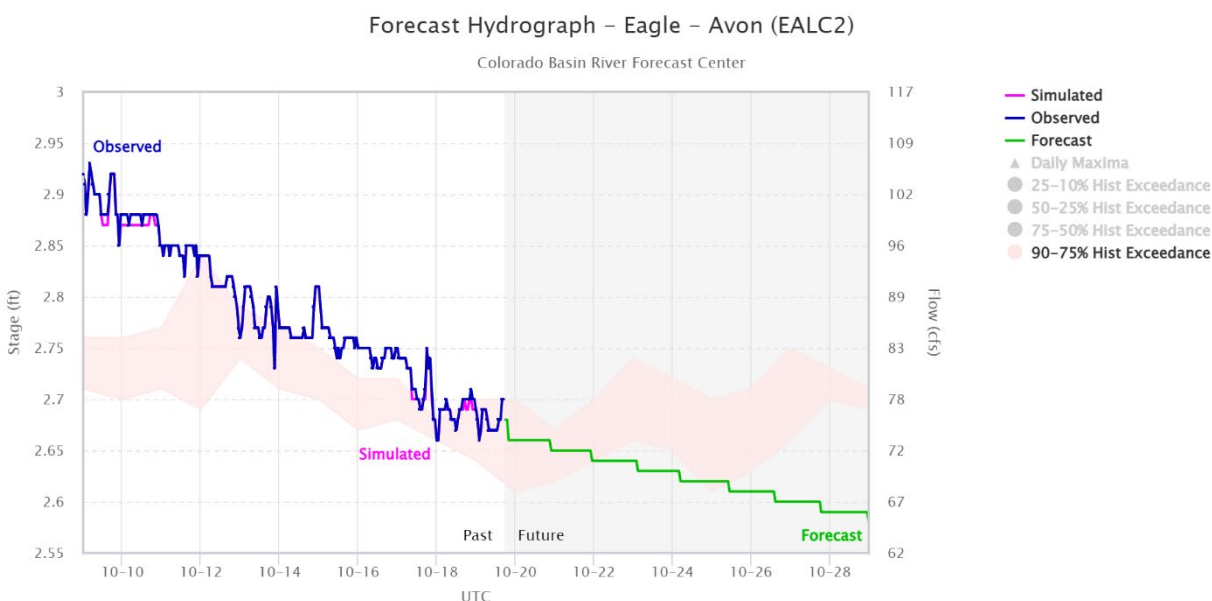




Figure 8: Streamflow for the USGS station on the Eagle River at Avon (CBRFC).



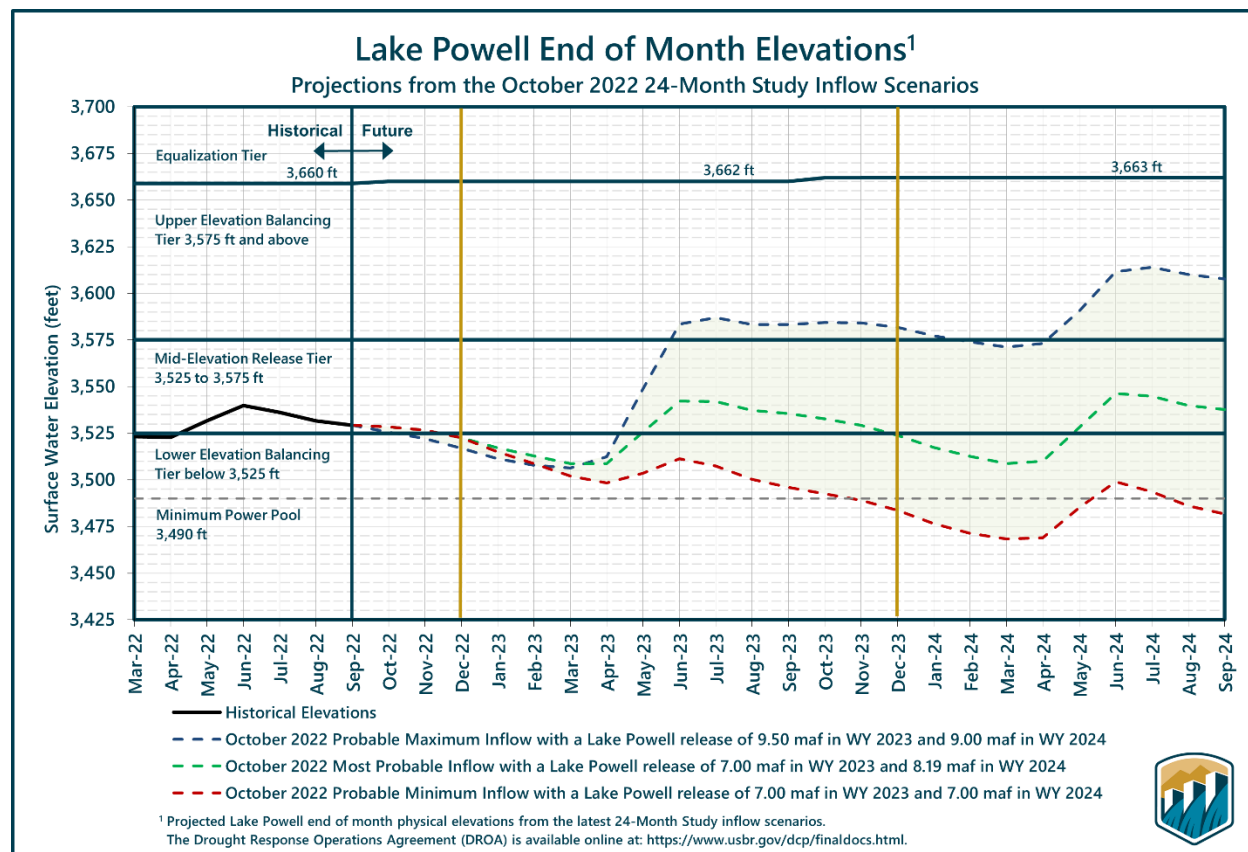
ERWSD and UERWA storage accounts as of October 1, 2022 are shown in Table 1. The Authority's Eagle Park reservoir account sits at 85% full after releasing 93.62 acre-feet during the month of September due to the instream flow call placed on the Eagle River. Green Mountain Reservoir totals reflect September values and will be updated next month when I receive values from Helton and Williamsen.

Table 1: ERWSD and UERWA Storage accounts as of October 1, 2022 (Helton and Williamsen).

October 1, 2022 Volumes in Storage and Percentages of Full:						
Reservoir	ERWSD		UERWA		Total	
Green Mountain	934.00	100%	518.00	95%	1452.00	98%
Black Lakes	425.00	100%	300.00	100%	425.00	100%
Eagle Park	421.37	99.7%	544.94	85.1%	1113.5	86.8%
Homestake Res	250.00	100%	256.50	100%	506.50	100%
Wolford Mtn	500.00	100%	683.70	96%	1183.70	98%

The Bureau of Reclamations 24-Month Study elevation projections for Lake Powell have been updated for October and are shown below in Figure 9. The projections show that Lake Powell levels are most likely to match current elevations by this time next year based on the most probable inflow scenario. The 24-Month Study will be updated monthly throughout the water year based upon spring runoff forecasts that become more precise as actual snow water equivalent values inform the forecasts.

Figure 9: Lake Powell End of Month Elevation Projections from the October 2022 24-Month Study Inflow Scenarios (Bureau of Reclamation).



# Authority Surplus Augmentation Supply

Updated: 3/16/2022 by JEC

	HCU, acft	In-basin Reservoir Storage, acft	In-basin Reservoir Storage, acft	Out-of-basin Reservoir Storage, acft	Total HCU & In-Basin Storage, acft
	Summer only	Affordable Housing Reserve	Unrestricted		
<b>Modeled Augmentation Surplus<sup>1</sup></b>	105.70	87.40	127.30		320.40
<b>Projects with Ability to Serve Letters</b>					
Club Residences at CVC	0.04		1.04	0.03	1.08
<b>Current Augmentation Surplus<sup>2</sup></b>	<b>105.66</b>	<b>87.40</b>	<b>126.26</b>		<b>319.32</b>
<b>Augmentation Projections for Projects in Land Use Entitlement Process</b>					
Edwards River Park PUD	5.52	9.27	53.54	1.89	68.32
Mountain Hive	1.27		13.56	0.39	14.83
NorthStar PUD Amendment	0.45		3.16	0.09	3.61
Warner Building Dormitories	0.02		0.02	0.01	0.04
Riverwalk PUD Guide Amendment	0.07		1.67	0.05	1.74
Brown PUD	0.35		3.12	0.09	3.47
<b>Total Pending Augmentation</b>	<b>7.68</b>	<b>9.27</b>	<b>75.06</b>	<b>2.52</b>	<b>92.01</b>
<b>Projected Augmentation Surplus</b>	<b>97.98</b>	<b>78.13</b>	<b>51.19</b>		<b>227.31</b>

## Notes:

1) Modeled Augmentation Surplus based on June 25, 2020 unallocated model runs adjusted for Edwards River Park changes.

2) Current Augmentation Surplus Projection considers all projects with Ability to Serve Letters to be allocated.

3) Projects in Land Use Entitlement Process have Conditional Capacity to Serve Letters but have not yet received land use approvals or completed the Authority's water rights dedication process.

3) Affordable Housing Reserve In-basin Reservoir Storage is Eagle Park water transferred to UERWA by Eagle County and can only be used for affordable/workforce housing projects.

4) Unrestricted In-basin Reservoir Storage includes 25 acft pledged by ERWSD.

5) Out-of-basin Reservoir Storage supplies include 711 acft Wolford Mtn. Res. Contracts and 475 acft Green Mtn. Res. Contracts.

6) The Authority's existing commitment of 34.3 acft of augmentation for the West End PUD is included in the modeled augmentation surplus.



## MEMORANDUM

**TO:** Boards of Directors  
**FROM:** Diane Johnson, Communications & Public Affairs Manager  
**DATE:** October 27, 2022  
**RE:** Communications and Public Affairs Report

### Colorado Water Plan

The Colorado Water Conservation Board's 90-day [public comment period](#) for the [updated Colorado Water Plan](#) ended Sept. 30. The District and Authority submitted written comments, as did [more than 1,300 other individuals and agencies](#). The CWCB team is now in the process of reviewing submitted comments and the final Water Plan is set to be released in January 2023.

### Eagle River Water Festival

Sarah Crawford coordinated district involvement in the Eagle River Watershed Council's Eagle River Water Festival held Sept. 23 at Colorado Mountain College. More than 400 fifth graders from throughout the Eagle River valley attended the festival to learn from all the organizations providing a water-related learning station. Five district staff members provided two different activities at the festival.

### Safe Drug Disposal Program – National Drug Take Back Day is Oct. 29

The U.S. Drug Enforcement Administration's 23<sup>rd</sup> ["National Take Back Initiative"](#) is set for 10 a.m. to 2 p.m. Saturday, Oct. 29, when local law enforcement personnel will host collection sites at Vail Municipal Building, Walmart in Avon, and City Market in Eagle for disposal of prescription and over-the-counter medications and supplements, including controlled substances. Local agencies accept expired, unwanted, or unused pharmaceuticals that are then disposed of via an environmentally friendly incineration process. The event is free of charge and no personal information is collected.

The District actively coordinates local efforts as part of the existing Safe Drug Disposal Program community partnership that involves the Vail Police Department, Eagle County Sheriff's Office, Avon Police Department, Eagle River Water & Sanitation District, Eagle County, and Vail Health. The District's involvement helps to protect water sources by keeping drugs out of wastewater and the landfill.

If you are unable to make it to the DEA Take Back Event, there are six permanent medication take back receptacles in the Eagle River valley hosted by the Vail Police Department, Avon Police Department, Eagle County Sheriff's Office, Vail Health (2), and Vail Valley Pharmacy.

These drop boxes can accept both controlled substances (narcotics) – such as oxycodone, codeine, phenobarbital, valium and others – and non-controlled medications during regular business hours. The year-round disposal service is free, and items may be deposited anonymously with no questions asked.

For more information, visit [www.takemededback.org](http://www.takemededback.org).

### Attachments (or hyperlinks):

1. Oct. 19 Colorado Sun: How two big Denver suburbs are approaching the reality that they're running out of water
2. Oct. 14 Aspen Journalism: [Recreation groups ask for more inclusion in state Water Plan](#)

Clean Water. Quality Life.™

846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 Fax (970) 476-4089 [erwsd.org](http://erwsd.org)

3. Oct. 12 Fresh Water News: Colorado OKs drinking treated wastewater; now to convince the public it's a good idea
4. Oct. 5 Colorado Sun: [Gross Dam opposition gets new legal life in fight against massive Boulder County reservoir expansion](#)
5. Sept. 30 KUNC: [Federal officials set their sights on Lower Colorado River evaporation to speed up conservation](#)



## ENVIRONMENT

## How two big Denver suburbs are approaching the reality that they're running out of water

Fast-growing Castle Rock starts with a turf ban, while Arvada doubles connection fees. Water prices are now part of the affordable housing equation.



Michael Booth

4:08 AM MDT on Oct 19, 2022



New homes are seen under construction near the Montaine community on Oct. 17, 2022, in Castle Rock. (Olivia Sun, The Colorado Sun via Report for America)

**G**rowth is good. But hold the sod. And have the checkbook handy. Colorado's population growth and the swelling stress on state water resources amid climate change and drought are sending Front Range suburbs in a scramble to shore up sustainable supplies.

Castle Rock is banning traditional grass turf in front yards of new homes and offering developers steep fee discounts for water-saving



“Coloradoscaping” yards. The Douglas County town that is a center for housing sprawl in Colorado foresees dwindling aquifer resources and ever-higher prices to secure new surface water from the state’s overtaxed mountain river basins.

Arvada, on the opposite corner of the Denver metro area to the northwest, is more than doubling homebuilders’ water and sewer connection fees and sharply raising existing homeowners’ utility rates. The city has so far avoided turf bans or other strong conservation measures on development, while a debate builds on whether the its new \$54,000 connection fees are making homes even less affordable.

The two cities’ big moves, combined with Aurora’s recent decision to restrict new lawns and ban new golf courses, reflect the strains on high-growth Colorado cities confronted by higher water prices and dwindling supply, older collection and treatment systems hitting capacity, and everyday inflation. Arvada says it is paying 30% more for water treatment chemicals, and triple for piping, amid worldwide price increases.



New homes are seen under construction near the Montaine community Oct. 17, 2022, in Castle Rock. (Olivia Sun, The Colorado Sun via Report for America)

“Water is a critical resource here,” Castle Rock Water Director Mark Marlowe said. “These are the things we can do to make that resource go further.”

“We are at capacity, and parts of our system are full in places that we expect that growth is going to pay for itself,” said Sharon Israel, Arvada’s director of utilities.

Aurora sent water messages loud and clear over the summer by moving to ban new golf courses and sharply limit the amount of traditional thirsty lawn grass installed in the yards of new homes.

Now comes fast-growing Castle Rock, which Tuesday night was expected to give final passage to a ban on front yard grass in new homes and a limit on backyard grass to 500 square feet. The new rules also demand that developers oversee all water-wise landscaping if they want to qualify for discounts off steep tap fees.

City water agencies are ramping up those tap fees charged to developers to link to local water systems to pay for higher water acquisition and distribution costs amid the historic Western drought. The tap fees have risen so high that homebuilders are arguing — out of self-interest, but also reflecting concerns of town officials — that water fees are a major contributor to the lack of affordable housing on the Front Range.

Castle Rock's utility system fees for a newly built single-family home in 2023 will be \$42,097, up from \$37,067 this year. Developers who agree to oversee landscape installation themselves using certified conservation contractors can trim more than \$16,000 from that total under the new rules, officials said.

Arvada's vote Monday night boosted charges for water, sewer and stormwater connections that it calls "system development fees" to \$54,000, more than double the previous \$25,000 fee, according to city officials and the Home Builders Association of Metro Denver.

Builders know water conservation is crucial now more than ever, and agree with the gist of the Aurora and Castle Rock initiatives, HBA's Morgan Cullen said. They did seek concessions, not wanting to be responsible for overseeing all the landscaping.



## The rich history of Colorac

Oct 21 • The Daily Sun-Up

But the rapid increase in new home tap fees, in Arvada and to a lesser extent in places like Castle Rock, is exacerbating crushing affordability problems for new buyers, Cullen said. "Water is getting prohibitively expensive," he said. At current median home prices, the rising tap, storm and wastewater fees represent about 10% of the overall price, he noted.

The stress on water resources and homebuyer resources will only worsen. Castle Rock expects to grow from 81,000 people to 140,000 in the next couple of decades. The city wants to cut per capita water use by 18% in the next 10 to 20 years, Marlowe said.

Castle Rock gets its drinking water from a combination of withdrawals from aquifers under Douglas County, which are depleting and can't continue to be used at current rates, and buying from Denver and Aurora. Water law allows much of Castle Rock's water to be reused — withdrawals from aquifers and transmountain diversions can be recycled "to depletion." The town is working on recycling more aquifer water back into the system after it is spread on landscapes and flows back to local creeks.

Restricting water use in new development also helps keep costs lower for existing Castle Rock homeowners, Marlowe said, a key consideration as electric, water and other utility rates soar. On a winter day, Castle Rock uses 4 million to 5 million gallons of water, while summer days peak at 19

million gallons. The city must build out enough infrastructure to handle the peaks, and charge ratepayers for the capacity and upkeep.



Tennis courts and amenities surround Montaine, a resort-style neighborhood of luxury homes, in Castle Rock. Turf restrictions were not in effect when these portions of Montaine were built, but landscape designs use water-saving plants and limit grass lawns. (Olivia Sun, The Colorado Sun via Report for America)

Avoiding new infrastructure through keeping the summer peaks lower “will help on rates” over the long term, Marlowe said.

Castle Rock calls its alternative home landscaping models “Coloradoscaping,” and Marlowe said such water-saving designs will be part of many new developments up and down the Front Range. “We certainly think it’s a good thing for the state as a whole,” he said.

Arvada’s steep increases to both development fees and rates for existing water and sewer users will shore up existing systems and allow growth that supports future city budgets, **council members said in approving the increases unanimously Monday night.**

“Development has to pay its own way,” Arvada Mayor and Councilmember Marc Williams said. “We’re not going to do it on the backs of existing ratepayers. Yes, we recognize this is going to have an impact on housing costs.” Like other council members, Williams said Arvada now needs to redouble efforts on both utility support programs for lower-income customers, and creating more affordable housing units.

“We invite all of you to work with us on that,” Councilmember Lauren Simpson told developers and community members in the audience.

“As much as I hate to do it, it’s a necessary evil. I hope this doesn’t deter development in our community,” Councilmember David Jones said.

Developers speaking at Monday night’s public hearing said the connection fees were high, but praised the council for agreeing to delay higher payments until July 2023 to allow them to line up permits and financing before the new fees take effect.

“I hope that with the modification, developers will still see Arvada as a great place to be,” Jones said.

Arvada purchases most of its water from Denver Water. The Jefferson County community is paying for one-sixth of the controversial expansion of Denver Water’s Gross Reservoir Dam in Boulder County, and will receive one-sixth of the new water supply from that, Israel said.

The city and consultants spent the past three years studying water supply and capacity for water treatment, stormwater and sewage, Israel said. Council members mentioned their tours of the aging sewage treatment facilities reaching their limits, and having helped neighbors shovel sewage out of basements after the 2013 floods on the northern Front Range.

Denver Water, meanwhile, is raising its raw water charges to Arvada by 15%, Israel said. Every stage of utility handling is undergoing massive inflation, from water cleaning chemicals to pipelines to fuel and equipment. Arvada needs to issue \$100 million in bonds for its water and sewage utility systems, and interest rates on that new borrowing will be far higher than the rates contemplated three years ago.

At the same time the new development fees were passed, the council approved a 12.3% increase in existing water rates and a 9.8% boost to sewage rates. Both systems will also charge higher fixed monthly service fees.

“So all of that together we estimate it would be about \$9 more a month for a typical single-family residence,” Israel said. “We are still in the bottom third of the metro area in terms of fees for water and sewer services. So it sounds like a big jump, but it’s a big jump on a relatively smaller number.”

Israel acknowledged Arvada has not made the same push that Castle Rock and Aurora have made to reduce thirsty grass lawns.

**Landscape watering typically makes up about 50% of municipal water use in arid states that are thick with traditional turf grass.** Arvada customers have access to consultation on creating a more water-wise landscape, she said, and the city is gradually installing smart water meters in homes that alert customers to leaks and their overall use.

“We haven’t gone the same route as some other communities,” she said.

#### READ MORE

**PHOTOS: It's rutting season at Rocky Mountain National Park, so here's some fun elk facts**

4:04 AM MDT on Oct 21, 2022

**Castle Pines addresses sewage spills after negotiations with Parker Water failed**

4:15 AM MDT on Oct 20, 2022

**50,000 southeast Colorado residents will finally get clean drinking water thanks to federal infrastructure funding**

4:00 AM MDT on Oct 19, 2022

# Colorado OKs drinking treated wastewater; now to convince the public it's a good idea

by **Jerd Smith** | Oct 12, 2022 | **Conservation and Efficiency, Drinking Water, Infrastructure, Major River Basins, Technology, Water Supply** |



*The Colorado Department of Public Health and Environment. Credit: Jerd Smith*

Colorado regulators, after years of study, negotiations and testing, approved a new rule that clears the way for drinking treated wastewater this week, one of only a handful of states in the country to do so.

The action came in a unanimous vote of the Colorado Water Quality Control Commission Oct. 11.

Direct potable reuse (DPR) involves sophisticated filtering and disinfection of sewage water for drinking water purposes, with no environmental buffer, such as a wetland or river, between the wastewater treatment plant and drinking water treatment plant. That water is then sent out through the city's drinking water system.

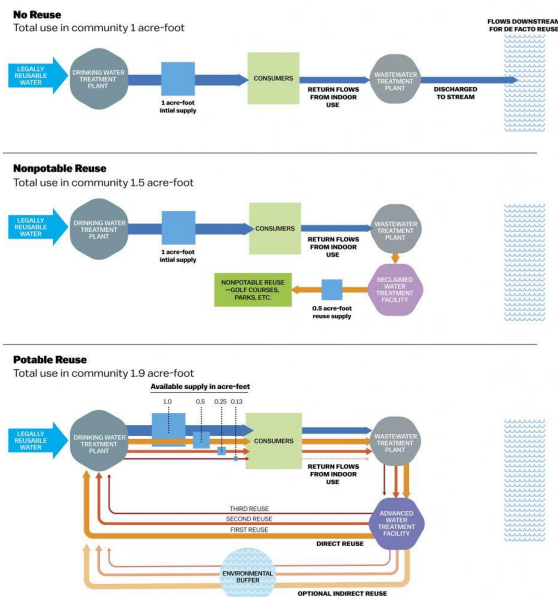
Colorado joins Ohio, South Carolina and New Mexico in setting up a regulated DPR system, with California, Florida and Arizona working to develop a similar regulatory scheme, according to Laura Belanger, a water reuse specialist and policy advisor at Western Resource Advocates.

Ron Falco, safe drinking water program manager for the Colorado Department of Public Health and Environment (CDPHE), said the new regulation would provide communities across the state important access to a new, safe source of drinking water, a critical factor in a water-short state.



"This is going to be a need in Colorado and we want to be prepared," he said. "Can DPR be done safely? Our answer to that is yes."

Aurora has had a reuse system in place for more than a decade that also uses treated wastewater. But Aurora's water is treated and released from the wastewater treatment plant into the South Platte River, where it flows through the river's alluvial aquifer, before Aurora pumps it out through groundwater wells. Aurora then mixes it with raw mountain water before treating it and distributing it to customers. That practice is known as indirect potable reuse – there's an environmental buffer between the wastewater plant and the drinking water plant, in Aurora's case, that's the river. Indirect potable reuse is used by several big cities nationwide, including San Diego.



Graphic by Chas Chamberlin, Source: Western Resource Advocates

Under Colorado's new regulation, water providers will be required to show they have the technical, managerial and financial

resources needed to successfully treat wastewater.

Communities will also be required to show how they will remove contaminants in their watersheds before the water reaches rivers and streams.

Wastewater intended for drinking will require extensive disinfection and filtration, among other techniques, all of which are intended to eliminate pathogens like viruses and bacteria, and remove drugs and chemicals to safe and/or non-detectable levels, according to CDPHE.



And any community that seeks to add treated wastewater to its drinking water system will have to set up extensive public communication programs to show the public its process and to help educate residents about this new water source.

Communities will also have to collect a year's worth of wastewater samples and prove that they can be successfully treated to meet the new standards.

Western Resource Advocates' Belanger, who has long advocated for the use of DPR, said the approval has been a long time coming and is cause for celebration.

"We believe DPR is a very important water supply for our communities now and into the future. We feel [this new regulation] is robust and protective of public health."

But key to tapping the new water source will be helping the public get over the "ick factor," officials said.

Jason Rogers, vice chair of the Water Quality Control Commission who is also Commerce City's director of community development, said public outreach should be carefully monitored to ensure it is actually reaching people in all communities and that it is being well-received.

"When thinking about that public meeting, where does it occur? People in some of these communities may have a high reliance on multi-modal transportation, it may not allow for that meaningful engagement," Rogers said. "And if it isn't being well received, we need to have them go out and do more public engagement."

With a mega drought continuing to grip the Colorado River Basin and other Western regions, Colorado's multi-year process to develop a sturdy new drinking water regulation drew widespread attention, said Tyson Ingels, the head drinking water engineer at the state's Water Quality Control Division.

Ingels said Utah and Arizona participated in Colorado's work sessions, demonstrating the interest in what could become an important new water source in the West. Arizona is just now kicking off its own rulemaking process, Ingels said, and Utah, while not yet regulating DPR, has seen a handful of communities proposing to use DPR.

<b>DISTRICT COURT, WATER DIVISION 5 STATE OF COLORADO</b>  109 8 <sup>th</sup> Street, Suite 104 Glenwood Springs, CO 81601 (970) 928-3065	DATE FILED: September 19, 2022 4:42 PM FILING ID: 4718F9551142C CASE NUMBER: 2022CW3092
<b>CONCERNING THE APPLICATION FOR WATER RIGHTS OF</b>  <b>EAGLE RIVER WATER &amp; SANITATION DISTRICT</b>  <b>IN EAGLE COUNTY, COLORADO</b>	<b>▲ COURT USE ONLY ▲</b>
<i>Attorneys for Applicant Eagle River Water &amp; Sanitation District:</i> Kristin H. Moseley, #28678 Michael W. Daugherty, #49074 Somach Simmons & Dunn, P.C. 1155 Canyon Blvd, Suite 110 Boulder, CO 80302 Telephone: (303) 449-2834 Email: kmoseley@somachlaw.com; mdaugherty@somachlaw.com	Case No. <b>22CW3092</b>  (16CW3010; 08CW72; 00CW259)  Division: 5
<b>APPLICATION TO MAKE CONDITIONAL WATER RIGHTS ABSOLUTE AND FOR FINDING OF REASONABLE DILIGENCE</b>	

1. Name and address of Applicant:

Eagle River Water & Sanitation District (the “District”)  
c/o Manager  
846 Forest Road  
Vail, Colorado 81657

Please direct all communications regarding this Application to:

Kristin H. Moseley  
Michael W. Daugherty  
Somach Simmons & Dunn, P.C.  
1155 Canyon Blvd, Suite 110  
Boulder, CO 80302

2. Names of structures: The Town of Vail Whitewater Park (the “Park”)

3. Description of decreed conditional water rights:

3.1 Date of original decree: June 5, 2002, Case No. 00CW259, District Court, Water Division 5, State of Colorado.

3.2 Legal description of structures: The Park is located within the channel of Gore Creek in the NW 1/4 NW 1/4 of Section 8, Township 5 South, Range 80 West of the 6th P.M., Eagle County, Colorado, as shown on the map attached as Exhibit A. The locations of the three (3) structures comprising the Park are as follows:

3.2.1 Structure 1. A rock structure located within the channel of Gore Creek at a point which bears S. 55°54'49" E., a distance of approximately 1,248 feet from the NW corner of Section 8, Township 5 South, Range 80 West, 6th P.M. The structure is 680 feet from the north Section line and 1,030 feet from the west Section line.

3.2.2 Structure 2. A rock structure located within the channel of Gore Creek at a point which bears S. 51°15'12" E., a distance of approximately 1,190 feet from the NW corner of Section 8, Township 5 South, Range 80 West, 6th P.M. The structure is 725 feet from the north Section line and 935 feet from the west Section line.

3.2.3 Structure 3. A rock structure located within the channel of Gore Creek at a point which bears S. 45°20'44" E., a distance of approximately 1,128 feet from the NW corner of Section 8, Township 5 South, Range 80 West, 6th P.M. The structure is 775 feet from the north Section line and 805 feet from the west Section line.

3.3 Source: Gore Creek, tributary to the Eagle River, tributary to the Colorado River.

3.4 Appropriation date: October 10, 2000

3.5 Amounts decreed: The following monthly flow rates were decreed conditional at each of the structures in the Park in the quantities set forth below:

Mar	Apr	May	Jun	Jul	Aug	Sept	Oct
54 cfs	227 cfs	400 cfs	400 cfs	400 cfs	218 cfs	67 cfs	48 cfs

3.6 Use: Recreational boating purposes.

4. Prior diligence and absolute decrees. In Case Nos. 08CW72 and 16CW3010, this Court found that portions of the water rights decreed to the Park had become absolute and found that the District had exercised reasonable diligence as to the remaining conditional portions.

4.1 The following table displays the monthly flow rate that has been made absolute and the monthly flow rate that remains conditional for the Park since this Court entered its decree in Case No. 16CW3010:

	Mar	Apr	May	June	July	Aug	Sept	Oct
Total absolute (cfs)	54	174	400	400	400	91	0	0
Remaining conditional (cfs)	0	53	0	0	0	127	67	48

5. Claim to make additional water rights absolute for the Town of Vail Whitewater Park. All of the structures comprising the Park have been constructed, maintained, and used for recreational boating purposes during the diligence period. Consistent with the terms of the original decree, the District is entitled to make absolute those flow rates put to beneficial use in any given month within the structures comprising the Park. Examples of documented beneficial uses include use for competitions and showcase demonstrations, use by youth as part of the “Kids Adventure Race” series, and consistent recreational use by residents and visitors. The District claims additional amounts absolute based on beneficial use that occurred while flows exceeded the amount previously made absolute, as summarized in the table below. A photo of the Park being used by recreational kayakers on August 1, 2019, which was included in the August 25, 2019, issue of the *Vail Daily*, is attached to this Application as Exhibits B. A photo of the Park being used by recreational tubers on September 2, 2019, is attached to this Applications as Exhibit C. The amounts not yet made absolute are noted as remaining conditional. The District reserves the right to make additional portions of the water right absolute based upon flows and use that occur while this application is pending.

	Mar	Apr	May	June	July	Aug	Sept	Oct
Total decreed (cfs)	54	227	400	400	400	218	67	48
Total currently absolute under 08CW72 and 16CW3010 (cfs)	54	174	400	400	400	91	0	0
Additional claimed absolute (cfs)	0	2	0	0	0	54	35	0

6. Outline of work done to complete project and apply water to beneficial use. With respect to any remaining portion of the conditional water rights decreed to the Park that are not made absolute in this matter, the District seeks to retain the conditional status thereof by demonstrating its reasonable diligence. During the past six (6) years, the District has been diligent in the

continued use and development of its conditional water rights. The structures in the Park use mechanized bladders that are linked to a computer system and can be inflated and deflated in coordination with the current flow rate in order to control, concentrate, and direct the stream flow for beneficial use. During the diligence period, the Park underwent a major overhaul that included the installation of a new dryer, new compressor, and completely new solenoid valves in order to prevent water from entering the bladder system, where such moisture can cause damage by freezing and thawing. Such maintenance and improvement efforts ensure that the Park's features are consistently operational and the Park is thereby a reliable attraction for local and visiting boaters. Other activities include marketing and hosting the annual Vail Whitewater Series, Mountain Games (sponsored by GoPro), and Kids Adventure Games, all of which raise the Park's visibility and popularity, increasing the likelihood that the Park will be beneficially used throughout the decreed months, and thus ensuring that the right will be perfected in a reasonable time. Other evidence of reasonable diligence includes beneficial use of the amounts claimed absolute herein; monitoring the Water Resume to determine whether any applications may require opposition in order to protect the subject water rights; and other actions that demonstrate reasonable diligence with respect to the subject conditional water rights.

7. Names and addresses of owners of land on which structures are or will be located, or upon which water is or will be placed to beneficial use: The structures which constitute the Park are located on land owned by the Town of Vail, 75 S. Frontage Road, Vail, CO 81657.

WHEREFORE, the District seeks a decree of the Court ruling that the conditional water rights described at paragraph 3 above have been made absolute for recreational boating purposes in the amounts identified in paragraph 5 above; that the District has demonstrated reasonable diligence with respect to any remaining portions of said conditional water rights thus retaining the conditional status thereof; and such other and further relief as this Court deems just and proper.

Dated this 19<sup>th</sup> day of September, 2022.

SOMACH SIMMONS & DUNN, P.C.



Kristin H. Moseley (#28678)

Michael W. Daugherty (#49074)

*Attorneys for the Eagle River Water & Sanitation  
District*

**VERIFICATION**

STATE OF COLORADO     )  
                                  *Arapahoe*     ) ss.  
COUNTY OF ~~SUMMIT~~     )

I, Daniel J. Gillham, water engineer for the Eagle River Water and Sanitation District, state under oath that I have read the foregoing Application to Make Water Rights Absolute and for a Finding of Reasonable Diligence, and that the contents thereof are true to the best of my knowledge and belief.

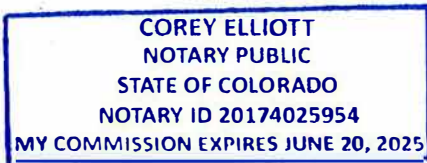
*Daniel J. Gillham*

Daniel J. Gillham, P.E.

Subscribed and sworn to before me this 19<sup>th</sup> day of September, 2022, by Daniel J. Gillham.

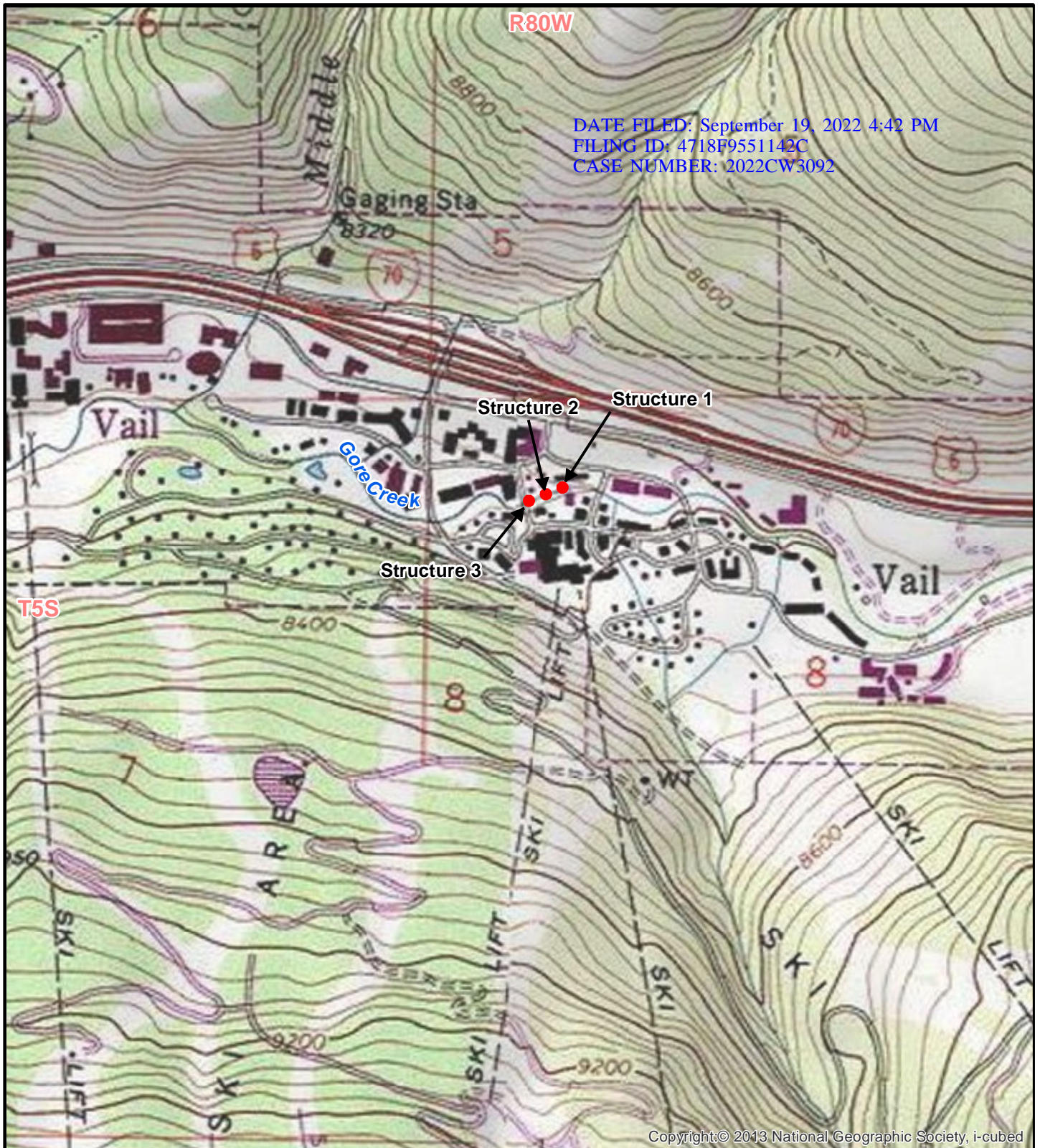
My commission expires June 20, 2025.


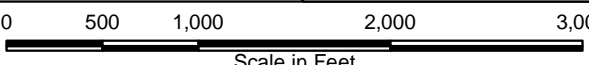
[SEAL]



*[Signature]*  
\_\_\_\_\_  
Notary Public





Helton & Williamsen, P.C.			<b>LOCATION MAP</b> <b>Town of Vail Whitewater Park</b>  <b>EXHIBIT A</b> <b>Case No 22CW3092 (16CW3010)</b>
Drawn by: ACO	Job No. V101		
File: Whitewater_Structures.mxd	Date: 11/30/2015	Checked by:	
 Scale in Feet		Rev. Date:	



# TOWN TALK

## LIVE STREAMING

DATE FILED: September 19, 2022 4:42 PM  
FILING ID: 4718F9551142C  
CASE NUMBER: 2022CW3092



Steve Beane, center, pops out of the wave at the Vail Whitewater Park on Aug. 1, while Caitlyn Ngam, left, and Pete Wadden, right, wait to take advantage of this summer's sustained high streamflows in Gore Creek.

**Helton & Williamsen, P.C.**

Drawn by: ACO

File: Exhibit\_B.mxd

Job No. V111

Date: 9/14/2022

Checked by:

Rev.  
Date:

Photo Date: August 1, 2019

Case No. 22CW3092 (16CW3010)

**EXHIBIT B**





DATE FILED: September 19, 2022 4:42 PM  
 FILING ID: 4718F9551142C  
 CASE NUMBER: 2022CW3092

**Helton & Williamsen, P.C.**

Drawn by: ACO

File: Exhibit\_C.mxd

Job No. V111

Date: 9/14/2022

Checked by:

Rev.  
Date:

Photo Date: September 2, 2019

Case No. 22CW3092 (16CW3010)

**EXHIBIT C**



**22CW3092 (16CW3010; 08CW72; 00CW259) EAGLE COUNTY - APPLICATION TO MAKE CONDITIONAL WATER RIGHTS ABSOLUTE AND FOR FINDING OF**

REASONABLE DILIGENCE. 1. Name and address of Applicant: Eagle River Water & Sanitation District (the "District"), c/o Manager, 846 Forest Road, Vail, CO 81657. Please direct all communications regarding this Application to: Kristin H. Moseley, Michael W. Daugherty, Somach Simmons & Dunn, P.C., 1155 Canyon Blvd, Suite 110, Boulder, CO 80302. 2. Names of structures: The Town of Vail Whitewater Park (the "Park"). 3. Description of decreed conditional water rights: 3.1 Date of original decree: June 5, 2002, Case No. 00CW259, District Court, Water Division 5, State of Colorado. 3.2 Legal description of structures: The Park is located within the channel of Gore Creek in the NW 1/4 NW 1/4 of Section 8, Township 5 South, Range 80 West of the 6th P.M., Eagle County, Colorado, as shown on the map attached as Exhibit A. The locations of the three (3) structures comprising the Park are as follows: 3.2.1 Structure 1. A rock structure located within the channel of Gore Creek at a point which bears S. 55°54'49" E., a distance of approximately 1,248 feet from the NW corner of Section 8, Township 5 South, Range 80 West, 6th P.M. The structure is 680 feet from the north Section line and 1,030 feet from the west Section line. 3.2.2 Structure 2. A rock structure located within the channel of Gore Creek at a point which bears S. 51°15'12" E., a distance of approximately 1,190 feet from the NW corner of Section 8, Township 5 South, Range 80 West, 6th P.M. The structure is 725 feet from the north Section line and 935 feet from the west Section line. 3.2.3 Structure 3. A rock structure located within the channel of Gore Creek at a point which bears S. 45°20'44" E., a distance of approximately 1,128 feet from the NW corner of Section 8, Township 5 South, Range 80 West, 6th P.M. The structure is 775 feet from the north Section line and 805 feet from the west Section line. 3.3 Source: Gore Creek, tributary to the Eagle River, tributary to the Colorado River. 3.4 Appropriation date: October 10, 2000. 3.5 Amounts decreed: The following monthly flow rates were decreed conditional at each of the structures in the Park in the quantities set forth below:

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# #VailLive

» Submit your photos on Instagram using #VailLive



@laceyryyan: "Big big fan of leaf peepin' hikes. #VailLive"



@mikebeltracchi: "A very nice afternoon for a ride to the Cordillera Summit. #VailLive"



@papaskipples: "@briggsbeard is excited to have his dog buddy, Brooks, stay with us for a while. #VailLive"

# Town Talk

» Email a photo and caption to [towntalk@vaildaily.com](mailto:towntalk@vaildaily.com)

## 'THE NUTCRACKER' CAST



A Vail Valley icon Colin Meiring guest stars again this year in "The Nutcracker" ballet in the role of Drosselmeyer. Meiring is well known for being a producer, teacher, choreographer and mentor to the youth in our community who are involved in performing arts. Return guest artist Michael Stone, a talented professional dancer, will bring the Nutcracker Prince to life. Joining a cast of 75 students who attend Vail Valley Academy of Dance, Luca Isom, a Battle Mountain sophomore, will make his debut as Fritz, Mouse King and dance the Spanish pas de deux. "The Nutcracker" is Dec. 16-18 at the Vilar Performing Arts Center in Beaver Creek. Photo by Brian Maloney.

## MASTER GARDENER PROGRAM APPLICATION DEADLINE NEARS

The Colorado Master Gardener Program is currently accepting applications. Colorado gardening and landscaping takes grit ... and knowledge of our unique soils, climates and plants.

CSU Extension has been helping people grow in our great state for 150 years. Learn from Colorado horticulture experts through the Green School program and become a Colorado Master Gardener to give back to the community.

Initial training includes 15 classes focused on botany, soils, trees, lawn care, vegetables, entomology, plant pathology, Colorado gardening challenges and more. Visit [ColoradoMasterGardener.org](http://ColoradoMasterGardener.org) and click "About," then "Become a Colorado Master Gardener" to learn more about the program and apply. Applications due Sunday. If you have questions, contact Denyse Schrenker at 970-328-8633 or [denyse.schrenker@eaglecounty.us](mailto:denyse.schrenker@eaglecounty.us).

## WHITE WATER WARRIORS



Early October rain gave 9-year-old friends Sawyer Roman and Hayden Hutto the perfect chance to enjoy some late-season tubing at Vail Whitewater Park on Oct. 3.

## WANT TO MENTOR YOUTH?



Do you ski or snowboard and want to support local youth? Become a mentor for SOS Outreach! The local nonprofit is currently recruiting mentors for the winter season (late September-April). Mentors work with a group of 4-5 youth throughout the season and participate in ski/ride days, community service projects, leadership development activities and more. Please contact Courtney Walters at [cwalters@sosoutreach.org](mailto:cwalters@sosoutreach.org) or 970-446-6214 for more information.