



Castle Rock Water Commission Agenda - Final

David Hammelman, Chair
Tony Rathbun, Vice Chair
Angie Brown
Brian Gaddie
KiKi Miller
Melanie Penoyar-Perez
Cortland Wolfe

Wednesday, April 24, 2024

6:00 PM

Castle Rock Water
175 Kellogg Ct., Bldg. 171
Castle Rock, CO 80109

This meeting is open to the public and will be held in a hybrid format in accordance with Town Council Electronic Participation, Connected, and Hybrid Meeting Policy. The in-person meeting will be held at 171 Kellogg Ct. Castle Rock CO 80109 or this meeting can be accessed online at:

<https://crgov.webex.com/crgov/j.php?MTID=mbb0c9b49e98f85906176a47a4cf6b88e>
the Meeting password: Apr24CRWC (649597 from video systems) or phone in by calling (720) 650-7664, meeting code 2484 731 0295. One or more Council members may also attend this meeting, during which the items listed herein will be discussed.

6:00 pm CALL TO ORDER / ROLL CALL

COUNCIL UPDATE

COMMISSION COMMENTS

DOUGLAS COUNTY WATER COMMISSION MEETING UPDATE

ADMINISTRATIVE BUSINESS

1. [WC 2024-032](#) Approval of the March 27, 2024 Meeting Minutes

Attachments: [Attachment A: March 27, 2024 Mtg. Minutes.pdf](#)

ACTION ITEMS (HIGH PRIORITY / TIME CRITICAL)

2. [WC 2024-033](#) Resolution Approving a First Amendment to the Plum Creek Water Purification Facility Expansion Project Construction Agreement with Garney Companies, Inc. for Work Package One [1929 Liggett Road, Castle Rock CO]
3. [WC 2024-034](#) Resolution Approving an Intergovernmental Agreement between the Town of Castle Rock and the Silver Heights Water and Sanitation District for the Sale of Wastewater Treatment Capacity and Service [Silver Heights and Plum Creek Water Reclamation Authority at 4255 N. US Highway 85 Castle Rock]

Attachments: [Exhibit 1: Intergovernmental Agreement](#)
[Attachment B: Site Map](#)

4. [WC 2024-035](#) Resolution Approving Funding for the Town's Purchase of 2024 Option Shares in the Chatfield Storage Reallocation Project [Chatfield Reservoir in Douglas And Jefferson Counties]

Attachments: [Attachment D: Chatfield Program History](#)
 [Attachment E: Preliminary Design Alignment](#)

DIRECTOR FOLLOW-UP AND INFORMATIONAL / UPDATE ITEMS

5. [WC 2024-036](#) 2024 Capital Plan
6. [WC 2024-037](#) Resolution Approving an Amended Agreement between the Town of Castle Rock and Douglas County for the Hwy 85 Wastewater Project
7. [WC 2024-038](#) Resolution Approving an Amended Agreement between the Town of Castle Rock and Dominion Water and Sanitation Dist. for the Hwy 85 Wastewater Project
8. [WC 2024-039](#) Per-and polyfluoroalkyl (PFAS) Regulations Update
9. [WC 2024-040](#) Boxelder Project Update
10. [WC 2024-041](#) Upcoming Town Council Items

COMMISSIONER MEETING COMMENTS



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 1. **File #:** WC 2024-032

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water

Approval of the March 27, 2024 Meeting Minutes
Town Council Agenda Date: NA

Executive Summary

Attached are the meeting minutes for the March 27, 2024 Water Commission Meeting.

Proposed Motion

"I move to approval the Minutes as presented"

Attachments

Attachment A: March 27, 2024 Meeting Minutes



**Castle Rock Water Commission
Meeting Minutes - Draft**

David Hammelman, Chair
Tony Rathbun, Vice Chair
Angie Brown
Brian Gaddie
KiKi Miller
Melanie Penoyar-Perez
Cortland Wolfe

Wednesday, March 27, 2024

6:00 PM

**Castle Rock Water
175 Kellogg Ct., Bldg. 171
Castle Rock, CO 80109**

This meeting is open to the public and will be held in a hybrid format in accordance with Town Council Electronic Participation, Connected, and Hybrid Meeting Policy. The in-person meeting will be held at 1929 Liggett Rd. Castle Rock CO 80109 or this meeting can be accessed online at:

<https://crgov.webex.com/crgov/j.php?MTID=m8aa4ca953c4d694c8f0d2839fba77694> the Meeting password: Mar27CRWC (62727279 from video systems) or phone in by calling (720) 650-7664, meeting code 2499 568 0831. One or more Council members may also attend this meeting, during which the items listed herein will be discussed.

A tour of the PCWPF will be offered from 6:00 pm to 6:30 pm with the regular meeting beginning at 6:30 pm.

CALL TO ORDER / ROLL CALL

- Present** 7 - Chair David Hammelman, Vice Chair Tony Rathbun, Angie Brown, Brian Gaddie, KiKi Miller, Melanie Penoyar-Perez, and Cortland Wolfe
- Attendance** 8 - Jason Gray, Mark Marlowe, David Van Dellen, Nichol Bussey , Matt Benak, Roy Gallea, Erin Evans, and Paul Rementer

COUNCIL UPDATE

Water Commission members received a tour of the Plum Creek Water Purification Facility.

Time was allowed for Mayor Jason Gray to share a council update.

COMMISSION COMMENTS

Time was allowed for Commissioner Comments.

DOUGLAS COUNTY WATER COMMISSION UPDATE

Mr. Marlowe shared an update on the March DC Water Commission meeting.

ADMINISTRATIVE BUSINESS

- [WC 2024-020](#) Approval of the February 28, 2024 Meeting Minutes
- Town Council Agenda Date: NA

I move to approve the Minutes as presented.

Yes: 6 - Chair Hammelman, Vice Chair Rathbun, Gaddie, Miller, Penoyar-Perez, and Wolfe

Abstain: 1 - Brown

ACTION ITEMS (HIGH PRIORITY / TIME CRITICAL)

[WC 2024-021](#)

Resolution Approving a Purchase and Sale Agreement with Ranchview Investments, LLC for their interest in the Meadow Ditch Water Rights [along Indian Creek in northwest Douglas County]

Town Council Agenda Date: April 16, 2024

Mr. Benak explained that the Meadow Ditch Water Rights are located north of Sedalia on Indian Creek and Plum Creek. The water rights have an appropriation date of 1866 which makes them senior water rights. CRW has been talking with the owners for a while and finally came to an agreement. This purchase includes 20.7 Acre Feet (AF) of water, the Lambert Reservoir No. 3 and all associated easements and agreements. The purchase price is \$828,000. CRW will also pay the seller's legal and consulting fees up to a maximum amount of \$10,000.

Mr. Benak also explained that by adding this water to CRW's current water rights on Meadow Ditch the total yield is approximately 71 AF per year, on average. With the reusability of these rights the total expected yield could be as high as 135 AF.

I move to recommend to Town Council approval of the Resolution as presented.

Yes: 7 - Chair Hammelman, Vice Chair Rathbun, Brown, Gaddie, Miller, Penoyar-Perez, and Wolfe

[WC 2024-022](#)

Resolution Approving an Intergovernmental Agreement for the Construction of a WISE Pump Station at Parker Water & Sanitation District (PWSD) [PWSD's Rueter-Hess Water Purification Facility in Parker, Colorado] **DRAFT**

Town Council Agenda Date: April 16, 2024

Mr. Benak shared that this item is for a cost-sharing intergovernmental agreement with Parker Water & Sanitation District (PWSD) for the construction of the WISE pump station and associated infrastructure. This agreement includes costs associated with the construction estimate, engineering services during construction, and third-party testing. The requested authorization is \$8,797,605. At this time PWSD is waiting on the costs for gas and electric connections so CRW will bring those costs to Town Council at a later date.

I move to recommend to Town Council approval of the Resolution as presented.

Yes: 7 - Chair Hammelman, Vice Chair Rathbun, Brown, Gaddie, Miller, Penoyar-Perez, and Wolfe

DIRECTOR FOLLOW-UP AND INFORMATIONAL / UPDATE ITEMS

[WC 2024-023](#) **Resolution Approving an Amended Agreement between the Town of Castle Rock and Douglas County for the Hwy 85 Wastewater Project**

Town Council Agenda Date: April 16, 2024

Mr. Marlowe shared an update on the Hwy 85 Wastewater Project.

[WC 2024-024](#) **Resolution Approving an Amended Agreement between the Town of Castle Rock and Dominion Water & Sanitation District for the Hwy 85 Wastewater Project**

Town Council Agenda Date: April 16, 2024

Mr. Marlowe shared an update on the Hwy 85 Wastewater Project.

[WC 2024-025](#) **Resolution Approving a Purchase Agreement for the Lost Canyon Property - Including the Water Rights**

Town Council Agenda Date: April 16, 2024

Mr. Marlowe explained that the Town of Castle Rock is working on an agreement to purchase the Lost Canyon property. The property is one of the last, large-acreage properties that have not been developed. This purchase includes 681 acres of land as well as the water rights attached to the property. The purchase is a joint cooperation between the Town of Castle Rock, The Conservation Fund, Great Outdoors Colorado (GOCO) and Douglas County. The purchase price on the agreement is for \$14,126,021, plus a professional services fee of \$501,411. Castle Rock Water's portion to purchase the Water Rights is \$1,300,000.

[WC 2024-026](#) **2024 Rates & Fees Timeline and Deliverables**

Town Council Agenda Date: NA

Ms. Bussey shared an updated on the rates and fees timeline as well as the planned deliverables.

[WC 2024-027](#) **Resolution Approving a Services Agreement between the Town of Castle Rock and XXXX for the Front Street Downtown Connection, Ray Waterman Regional Water Treatment Center (RWRWTC) Pump Upgrades and Liggett Road Pipe Upsize Projects [Located in various locations throughout Castle Rock, CO] **DRAFT****

Town Council Agenda Date: April 16, 2024

Ms. Evans explained that this is a design agreement for several smaller projects that need to be completed in the CRW service area. The projects include: The Front Street Downtown Connection, Ray Waterman Regional Water Treatment Center (RWRWTC) Pump Upgrades and Liggett Road Pipe Upsize.

The purpose of the Front Street Downtown Connection is to design and construct a new 2600 Linear feet of 12” pipeline that can send water from Plum Creek Water Purification Facility (PCWPF) to the water main that connects to Elbert and Third Street.

As WISE Partnership water becomes increasingly available to Castle Rock, pumping improvements are needed at the Ray Waterman Regional Water Treatment Center (RWRWTC). The Red Zone and Green Zone pumps will undergo several phases of upgrades to keep up with increasing supplies of water to the plant.

PCWPF is currently in the design phase to double the capacity at the plant. As part of the expansion project CRW engineering has identified the need to install approximately 2,000 LF of 24-inch and 3,000 LF of 16-inch water main under Liggett Rd. to distribute the increased flows from the plant.

The proposal cost is \$405,500 plus a 10% contingency for a total requested budget of \$446,050.

[WC 2024-028](#)

2024 ColoradoScape Contest

Town Council Agenda Date: NA

Mr. Marlowe reported that CRW will again be hosting the ColoradoScape contest to give away a free \$9,000 front yard makeover. The contest is being held April 1-30. A committee will select the top 5 finalists, who will then be placed on the Towns social media to be voted on by the community. The video with the most votes will receive a front yard makeover.

[WC 2024-029](#)

Proclamation: mayor’s Challenge Supporting April as Water Conservation Month

Town Council Agenda Date: 1st Reading March 19th, 2nd Reading April 2nd

Mr. Marlowe shared that April is Water Conservation Month and that Town Council will be making a Proclamation at the April 2nd meeting.

[WC 2024-030](#)

Update on Water Commission Open Positions & Interview Process

Town Council Agenda Date: May 21, 2024

Mr. Marlowe explained that it is time for Water Commission member renewals. Tony Rathbun, Angie Brown and Cortland Wolfe are up for renewal. The application process opens April 1st and closes April 24th. Interviews are

planned for May 14th at Town Hall.
Chair David Hammelman, Mayor Jason Gray and Assistant Director David Van Dellen will participate on the interview panel.

[WC 2024-031](#)

Upcoming Town Council Items

Town Council Agenda Date: NA

This is a standing item that will be used to share information about projects that are being worked on at the time of the meeting but that staff doesn't have information ready yet.

There were no items at this time.

COMMISSIONER MEETING COMMENTS

Time was allowed for Commissioner Comments.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 2. **File #:** WC 2024-033

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water
Matt Benak, P.E., Water Resources Manager
Walt Schwarz, P.E., CIP Project Manager

Resolution Approving a First Amendment to the Plum Creek Water Purification Facility Expansion Project Construction Agreement with Garney Companies, Inc. for Work Package One [1929 Liggett Road, Castle Rock CO] *DRAFT*
Town Council Agenda Date: May 7, 2024

Executive Summary

Castle Rock Water (CRW) staff request Town Council approval of a resolution (**Attachment A**) approving a First Amendment to the Plum Creek Water Purification Facility (PCWPF) Expansion Construction Agreement (**Exhibit 1**) with Garney Companies, Inc. (Garney). PCWPF is one of the most advanced water treatment plants in the nation and has won numerous awards including XXXX.

The amount of the contract amendment is \$ [REDACTED] and represents Work Package #1 (WP#1). This portion of the construction consists of purchasing equipment packages for the advanced treatment systems as well as site work including buried filter backwash pipe installation. Equipment being purchased with WP#1 includes the ozone generation and destruct systems, liquid oxygen system, side stream ozone injection system, activated carbon adsorption filters, membrane filters, flocculation and sedimentation systems, and an emergency electrical generator for the PCWPF building. The design team is planning for a second work package to be presented to Town Council in January 2025 for the balance of project work.

As previously presented to Town Council, the PCWPF Expansion construction contract will be a Guaranteed Maximum Price Construction Management (GMPCM) arrangement. Construction work is to be awarded in two separate work packages. Garney was selected as the Construction Manager and General Contractor (CM/GC) through a competitive process and has a proven track record in the water and wastewater industry. GMPCM was successfully utilized by the Town for design and construction of the PCWPF Project completed in 2014 and PCWPF Advanced Treatment (AT) Project completed in 2021 (CM/GC was Garney for AT project). Upon authorization to award WP#1, Garney will begin ordering long lead equipment packages. Garney plans to begin site mobilization in October 2024 with overall construction completion of the project planned for Spring 2028 (including startup of new facility).

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The Initial Guaranteed Maximum Price (IGMP) for WP#1 based on 30% design documents, including General Conditions (GCs) and other fees, developed by the Town and the design consultant in cooperation with Garney, was \$20,553,516. The Final Guaranteed Maximum Price (FGMP) for WP#1 is \$ [REDACTED], an increase due to changes in scope, and price increases with material and equipment packages. Staff recommends executing an Amendment to the contract with Garney for WP#1 to construct the associated components of the Project.

Current known and estimated project costs are shown below:

BMcD	Design (including \$119,444 contingency)	\$ 2,508,324
TCR Permit Fees	Est. based on PCWPF Advanced Treatment project	\$ 120,000
Garney Companies BMcD	Pre-construction services	\$ 311,022
	Constr. Phase Engineering Services (estimated at 6% of Construction cost)	\$ 3,900,000
Garney Companies	Construction costs WP#1 (FGMP) WP#2 (IGMP)	\$ 45,294,930
	TOTAL	\$72,376,770

Notification and Outreach Efforts

This is a secure facility located out of the public view. As such, the only notification and outreach associated with this project is through the budgeting process with Council where this item was identified as a major capital project for Castle Rock Water.

History of Past Town Council, Boards & Commissions, or Other Discussions

Town Council approved Resolution 2023-055 on April 18, 2023 approving a Services Agreement with BMcD for the design of the PCWPF Expansion.

Town Council approved Resolution 2023-152 on December 19, 2023 approving a Construction Contract with Garney for Preconstruction Services on the PCWPF Expansion.

Discussion

A need for a sustainable long-term water supply was identified in the Town's Water Resources Strategic Master Plan and one of the major goals of that plan is establishment of a renewable, sustainable water supply that accounts for 100% of the annual demand for water in Castle Rock by 2065. Renewable water sources include East Plum Creek alluvial wells, surface water using existing Town Water Rights, and imported surface water from outside of the Plum Creek Basin (e.g., WISE water). PCWPF also purifies a majority of Castle Rock's reusable water supplies.

PCWPF is currently a 6 Million Gallon per Day (MGD) facility receiving raw water from four main sources: Castle Rock Reservoir 1 (CRR1 - connected with diversion on Plum Creek (PCD) near

Sedalia and the source of most of CRW's reusable water), CR1 (a diversion on East Plum Creek near PCWPF), various alluvial wells along East Plum Creek (renewable) and deep (Denver Basin/nonrenewable) groundwater wells. CRW is currently working with BMcD under separate contract on the Chatfield Pump Back Project. This pump back project will supply water to CRR1 and Castle Rock Reservoir 2 (CRR2) from Chatfield Reservoir, expanding CRW's renewable water sources and providing a high quality, low total dissolved solids (TDS) water source for TDS blending and additional renewable water yield. CRW is also working on redesigns for the two surface water diversions that feed PCWPF, CR1 and PCD. Both of these diversions are unable to operate at the fully permitted intake due to design issues leading to sanding and debris shutting down the diversions during various creek conditions. These redesigns are currently scheduled for construction in 2025 through 2026.

The original PCWPF project was completed in 2014 and included 6 MGD capacity pretreatment facilities with aeration, rapid mix, flocculation, sedimentation, and greensand filtration. The greensand filtration was followed by membrane filtration and chemical addition to form chloramines for a disinfection residual in the distribution system. Other facilities constructed with the original PCWPF include a 174,000-gallon clearwell, high service pump station, chemical storage and feed systems. Where practical, areas like the chemical storage facilities were designed and constructed planning ahead for expansion to 12 MGD (no changes are needed to chemical storage with this project). Additionally, items like engineered knock-out masonry wall sections are in place to facilitate access to the new pretreatment building.

In 2021 the PCWPF AT project was completed and added 6 MGD capacity of advanced treatment systems such as pre-ozone, biologically active carbon (BAC) filtration (previously greensand filters converted to BAC), advanced oxidation with ozone and hydrogen peroxide, granular activated carbon (GAC) adsorption, and ultraviolet (UV) disinfection. The multiple barrier approach was designed to treat source waters for removal of pathogens, organics, regulated drinking water contaminants, and nonregulated contaminants of emerging concern (CECs). The primary goals of the PCWPF AT Project were to meet or exceed requirements of the US EPA Safe Drinking Water Act, as well as additional requirements from the Colorado Department of Public Health and Environment (CDPHE) and meet or exceed requirements for direct potable reuse to allow reuse of all of CRW's reusable supplies. The facility already meets the treatment requirements for the latest drinking water standards issued by US EPA, the standards for perfluoro alkyl substances (PFAS), three years ahead of the deadline for water providers across the country. This project also included a 1,250-kilowatt (kW) diesel powered generator to power the AT Building up to 12 MGD capacity.

In order to continue using and expanding renewable water sources, CRW must implement our long-term plan to expand PCWPF's current treatment capacity of 6 MGD up to 12 MGD. Expanding PCWPF will coincide with the completion of CRR2 and redesign and improvement of CR1 and PCD and provide for keeping up with growing demands as the Town adds additional residents and businesses. Once expanded, PCWPF will be the largest water treatment facility in CRW's system.

In general terms, with this project CRW will expand all treatment processes, modify the solids handling processes, install a new emergency electrical generator for the original PCWPF Building (houses high service pumping), and increased laboratory areas for additional sampling and water quality testing needs. For example, treatment system improvements will include a new building

adjacent to the existing pretreatment building to house 6 MGD capacity of a new rapid mix basin, flocculation and sedimentation treatment steps, and new BAC filter bays. The project will add membrane filtration racks with 78 modules each to match existing racks. Ozone system improvements will include additional liquid oxygen storage with vaporizers, new ozone generators with chillers, ozone injection and destruct skids, and a new ozone loop reactor made of stainless-steel piping. Ten GAC filters will also be added in an expansion of the PCWPF AT building. **Attachment B** provides a general layout of the proposed expansion of PCWPF.

CRW staff recommends using the GMPCM project delivery method for construction of the PCWPF Expansion Project. The GMPCM method involves hiring a CM/GC to perform contract administration and to guarantee a maximum price for the complete project. The owner and CM/GC agree on the price before the construction phase begins and all work is awarded through a competitive subcontractor bidding process.

The Owner, CM/GC and Engineer work collaboratively to design a project that fits a given budget and adjustments to the project design and/or budget are made during the design phase to ensure a successful project that meets the Owner's expectations regarding cost, quality and schedule. The CM/GC's expertise in construction, contracting, and estimating can influence decisions made by the design consultant to keep project costs to a minimum in a manner consistent with the owner's objectives for quality and functionality. With this end in mind, CRW selected a contractor through the process described below.

In July 2023 CRW advertised for contractors using BidNet, an online platform that advertises government requests for qualifications (RFQs) and requests for proposals (RFPs). Six contracting firms responded by submitting Statements of Qualifications (SOQs) in August. The SOQs were reviewed by the project design team (staff from CRW & BMcD) and two contractors were shortlisted. The shortlisted contractors included:

- Garney Companies, Inc
- PCL Construction, Inc.

An RFP with BMcD's 30% complete design documents was then issued on September 7, 2023 to the short-listed contractors and a mandatory pre-proposal meeting was conducted. Proposals were received on October 18, 2023 from the two contractors. A selection committee comprised of CRW and BMcD staff reviewed the proposals. The firms were ranked and Garney was unanimously ranked as the top firm.

CRW then worked with Garney and BMcD to refine the proposal cost estimate and finalize the IGMP at \$65,848,446 (included WP#1 & WP#2). This cost includes preconstruction services, general conditions, overhead and profit and the cost to do the work. This IGMP represents the most the Town can expect to pay for construction of the PCWPF Expansion Project, barring any changes in scope. However, during the pre-construction period, the Town will work with the contractor and designer to adjust the design so that construction fits within the budget. Under the construction agreement for preconstruction work, Garney will provide services that include, but are not limited to; project management, budgeting, estimating, scheduling, constructability reviews, value analysis of all systems and components, determination of sequencing the work, information and reporting systems,

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subcontractor bid strategies and procurement throughout the construction document design phase. Garney attends all regularly scheduled project meetings during the design phase.

A value engineering phase was completed as costs continued to be updated based on development of additional project detail. One implemented value engineering idea by Garney that improved the schedule was to include excavation work and installation of new backwash piping with WP#1. Plan is to complete excavation and piping work with the facility off line during winter of 2024 / 2025. Leaving this work in WP#2 would have pushed it out to following winter adding time and associated costs to the project.

The following table lists the total contract amount for WP#1 with CM/GC fees (see **Exhibit 1** with Agreement for detail of CM/GC fees).

Total Cost WP#1 with CM/GC Fees	
Garney WP#1 Direct Work	\$ 916,105
Concrete 1 MG Tank	\$ 1,624,303
Advanced Treatment Equipment	\$ 6,464,789
CM/GC Fees	\$ 1,069,777
Allowance for buried pipeline	\$ 175,000
Total WP#1	\$ 10,249,971

Approving WP#1 allows Garney to purchase equipment systems with long lead times and to maximize earthwork and piping activities beginning later this year. WP#2 will also be advertised publicly by Garney and includes the remaining work needed to complete the project (including construction of a new building and expansions to the pretreatment and GAC buildings). Garney will award WP#2 with multiple subcontracts broken out into specialties, for example electrical, masonry, and heating ventilation and air conditioning.

The schedule for constructing the facility proposed by Garney fits within the Town's expectations and requirements. Assuming mobilization and construction activities begin in October 2024, final construction completion of the project is scheduled for spring 2028. This completion schedule will be on time for when water from the facility will be needed to meet the summer demands of 2028.

Budget Impact

Funding for this project was included in the 2024 budget in the project fund shown below. Current account balance in this account is approximately \$ [REDACTED]. A budget amendment will be completed in 2024 to fully fund the project.

Project	Account Number	This Contract
Advanced Oxidation Facility	211-4375-443-77-75	\$

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Proposed Motion

"I move to recommend to Town Council approval of the Resolution as presented"

Attachments

Attachment A: Resolution (Not Attached)
Exhibit 1: Agreement (Not Attached)
Attachment B: Location Map (Not Attached)



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 3. **File #:** WC 2024-034

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water
Roy Gallea, P.E., Engineering Manager

Resolution Approving an Intergovernmental Agreement between the Town of Castle Rock and the Silver Heights Water and Sanitation District for the Sale of Wastewater Treatment Capacity and Service [Silver Heights and Plum Creek Water Reclamation Authority at 4255 US Highway 85 Castle Rock, CO]
Town Council Agenda Date: May 7, 2024

Executive Summary

The purpose of this memorandum is to seek Town Council approval of the attached resolution (see **Attachment A**) approving an Intergovernmental Agreement (IGA) for a wastewater capacity reservation between the Town of Castle Rock (Town) and the Silver Heights Water and Sanitation District (Silver Heights). The agreement identifies the terms by which the Town will provide Silver Heights with additional wastewater treatment capacity of approximately 1,320 gallons per day (gpd) in the Plum Creek Water Reclamation Authority (PCWRA) wastewater treatment plant. The purpose of the additional capacity is to allow Grace Chapel Church and a Resident at 1161 Evalena Road to construct additions to their property located in Silver Heights. There are two key conditions to the Town providing the additional wastewater treatment capacity. First, Silver Heights will pay the Town's system development fees for the additional capacity including a 25 percent surcharge for extraterritorial service. This will result in over \$41,715 in revenue to Castle Rock Water's wastewater enterprise. The second condition is for the new development to pay operation and maintenance charges on the use of Castle Rock Water's sewer collection system.

Discussion

Silver Heights currently has 48,740 gpd of capacity in the PCWRA wastewater treatment plant through a Special Connector's Agreement. Silver Heights uses approximately 26,000 gallons of this capacity per day and a new senior living facility currently under construction will use the remaining capacity. Therefore, there is not adequate excess capacity to serve the additions to the Church and residential properties. An additional 1,320 gpd is needed. This is equivalent to approximately 6 single family equivalents. Based on our current 2024 system development fee and a 25 percent extraterritorial surcharge, system development fees for this additional capacity will be \$41,715.

The two properties will have two years to move forward with the additions under 2024 fees. If they

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have not moved forward after two years, the fees will be based on the then current fees plus the 25 percent surcharge.

As a result of needing the additional capacity, Castle Rock Water has been able to negotiate having the new development pay operational and maintenance charges for use of CRW's sewer collection system. The current capacity of 26,000 gpd used by Silver Heights in CRW's sewer collection system is at no cost based on agreements with Silver Heights done in the 1990s. Silver Heights will pay operation and maintenance charges for all of the sewer discharged beyond this capacity at an estimated annual cost of \$\$.

Budget Impact

Castle Rock Water will collect \$41,715 in system development fees and annual operations and maintenance revenue as part of this IGA. Over a ten-year period, this revenue is estimated to be \$\$\$ and has the potential to provide a significant boost to future capital replacement of the sewer mains used by Silver Heights and the Town.

Proposed Motion

"I move to recommend to Town Council approval of the Resolution as presented"

Attachments

Attachment A: Resolution (Not Attached)
Exhibit 1: Intergovernmental Agreement
Attachment B: Site Map

WASTEWATER CAPACITY RESERVATION AGREEMENT

This WASTEWATER CAPACITY RESERVATION AGREEMENT (hereinafter this “Agreement”) is made and entered into as of this _____ day of _____, 2024, between the Town of Castle Rock, Douglas County Colorado, a municipal corporation and political subdivision of the State of Colorado (the “Town”), and the Silver Heights Water and Sanitation District a special district of the State of Colorado (the “District”).

RECITALS

A. This Agreement is made with respect to the following facts (initially capitalized terms used below as defined in Section 1):

B. The District is a Special District organized under Title 32 Colorado Revised Statutes for the purpose of providing water and sanitation services to residential and commercial entities located within its service area.

C. The Town is a member of the Plum Creek Water Reclamation Authority, formerly known as the Plum Creek Wastewater Authority (the “Authority”) pursuant to the Plum Creek Water Reclamation Authority Establishing Agreement dated December 14, 1989 by and among the Town, Castle Pines Metropolitan District and Castle Pines North Metropolitan District.

D. As a member of the Authority, the Town is entitled to wastewater treatment services on a volume basis at the Authority’s Plum Creek Wastewater Treatment Plant (the “Plant”).

E. The District receives wastewater treatment services on a volume basis from the Authority pursuant to (i) the Special Connector's Agreement between the District and the Authority, dated July 23, 1991 (the “Special Connector’s Agreement”), and (ii) the Agreement Concerning Wastewater Treatment with the Town and Castle Pines Holdings, Inc., dated July 26, 1991 (collectively, the “Plum Creek Agreements”).

F. Under the Plum Creek Agreements, the Authority is the exclusive provider of wastewater treatment services to the District.

G. The District is currently entitled to 48,740 gallons per day capacity in the Town's wastewater collection system and the Plant.

H. The District currently uses an average of 26,000 gallons per day, and it is expected a new senior living facility being built within the District’s service area will use the remaining capacity.

I. Grace Chapel Castle Rock, a church located within the District's service area at 935 Evalena Road (the “Church”), wishes to construct an addition to their existing building

(the “Development”).

J. A residential lot located within the District’s service area at 1161 Evalena Road (the “Resident”), wishes to construct an addition to their home.

K. The volume of wastewater treatment capacity allocated to the District by the Plum Creek Agreements is insufficient to serve the Development's and Resident’s anticipated demands for wastewater treatment services.

L. The Town has unused wastewater treatment capacity in the Plant that it desires to reserve for later sale to the District to serve the Development and Resident.

N. The Town agrees to reserve a portion of its unused wastewater treatment capacity in the Plant for future sale to the District in accordance with the terms of this Agreement.

AGREEMENT

The District and the Town hereby enter this Agreement for the above-described purpose, subject to the terms, conditions, and agreements set forth herein.

1. **Definitions.** In this Agreement, the following defined terms have the meanings indicated:

1.1. “Additional Capacity” means the wastewater treatment capacity needed to serve the Development and Resident in excess of the District's Current Allocation . At this time, the amount of Additional Capacity is estimated to be 1,320 gallons per day of conveyance and treatment capacity, or 6 equivalent residential units (“EQR”), where one EQR equals 220 gallons per day (average day generation rate), subject to adjustment in accordance with paragraph 2.1 of this Agreement.

1.2. “Current Allocation” means the wastewater treatment capacity of 48,740 gallons per day, 45,000 gallons of which is allocated to the District under the Special Connector's Agreement and 3,740 gallons of which is the additional capacity purchased from the Town pursuant to the Wastewater Capacity Allocation Agreement between the District and the Town, dated July 21, 2020.

1.3. “Effective Date” means the date on which this Agreement has been executed by both parties.

1.4. “Initial Reservation Period” means the period of time during which the Town will reserve the Additional Capacity. The Initial Reservation Period is two years commencing on the Effective Date.

2. **Reservation of Additional Capacity.** The Town agrees to reserve the Additional Capacity for an initial period of two years from the Effective Date of this Agreement. Within 30 days of expiration of the Initial Reservation Period, either party may

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terminate this Agreement upon written notice to the other party. Otherwise, this Agreement will automatically renew for additional six-month terms until Closing on the Additional Capacity or written notice of termination by either Party.

2.1. Amount of Additional Capacity. The Additional Capacity is currently estimated to be approximately 1,320 gallons per day of conveyance and treatment capacity, or 6 EQRs. The amount of Additional Capacity may increase if the District's demand for wastewater treatment services increases prior to Closing on the Additional Capacity. The District will provide written notice to the Town of any anticipated increase in the amount of Additional Capacity.

3. **Payment for Additional Capacity.** Payment for the Additional Capacity shall occur before the Development or Resident is connected to the District's water and sewer infrastructure. If Closing occurs within the Initial Reservation Period, the purchase price for the Additional Capacity will be based on Castle Rock Water's 2024 System Development Fee for wastewater, or \$5,562/EQR, plus a 25% surcharge for extraterritorial service, for a total of \$41,715 (6 EQR x \$5,562 x 1.25) for Development and Resident. If Closing does not occur within the Initial Reservation Period, the purchase price for the Additional Capacity will be based on the System Development Fee in effect at the time of the Closing, plus a 25% surcharge for extraterritorial service.

4. **Operations and Maintenance Cost.** Wastewater from the District must travel through the Town's wastewater collection system in order to reach the Plum Creek Wastewater Treatment Plant. There are significant costs to the Town associated with operating and maintaining the Town's wastewater collection system. The Town charges its customers for wastewater service using the Wastewater Volumetric Rate set forth in the Town's annual Utility Administrative Fee Schedule. A portion of the Wastewater Volumetric Rate contributes to the cost of operation, maintenance, and capital replacements for the Town's wastewater collection system (hereinafter, "Town Operations and Maintenance Cost").

4.1. Conveyance of Additional Capacity in Town's Wastewater Collection System. As a condition of the Town's agreement to reserve and sell the Additional Capacity to the District to meet the increase in demand caused by the Development, the District agrees to charge the Development the Town Operations and Maintenance Cost for the volume of wastewater generated by the Development in addition to any charges, rates or fees collected by the District. If necessary, the District agrees to use shut-off of water service as a means to ensure that the Town Operations and Maintenance Costs are paid timely by the Development.

4.2. Annual Rate. The Town Operations and Maintenance Cost will be based on the Wastewater Volumetric Rate established annually by the Town. As of the date of this Agreement, the Town's Wastewater Volumetric Rate is \$6.07 (per 1,000 gallons), of which approximately \$2.67 (or 44%) is the Town Operations and Maintenance Cost. The Wastewater Volumetric Rate is adjusted annually based on the Town's annual rates and fees study and Town Council direction. Subject to annual confirmation of amount, the Town Operations and Maintenance Cost will be calculated annually as approximately 44% of the

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Town's then-current Wastewater Volumetric Rate.

4.3. Billing and Amount. Subject to paragraph 4.3.1. below, the monthly Town Operations and Maintenance Cost will be determined according to an average winter median consumption (“AWMC”) established each year by averaging the Development's water usage during November through February. The AWMC is used as the monthly charge for one year until a new AWMC is established the next year. The Town Operations and Maintenance Cost will be collected by the District on a monthly basis and paid to the Town as a condition of continued wastewater service to the Development.

4.3.1. Separate Meters. If indoor use is metered separately from metered outdoor use, then the indoor use meter value shall be used to calculate the Town Operation and Maintenance Cost

5. Conditions Precedent to Closing.

5.1. Payment to District for Additional Capacity by the Church and Resident. The Town acknowledges that; (i) the District is entering this Agreement for the sole purpose of meeting the anticipated increase in demand created by the Development and Resident; (ii) the District has no need for or obligation to acquire the Additional Capacity but for the request to do so by the Development and Resident; and (iii) the Church and Resident are responsible for the cost of the Additional Capacity. Accordingly, payment to the District for the cost of the Additional Capacity shall be a condition precedent to Closing.

5.2. Amendment of Special Connector's Agreement. The Special Connector's Agreement must be amended to account for the District's acquisition of the Additional Capacity. Accordingly, an Amendment to Special Connector's Agreement in the form attached hereto as *Exhibit A* (or substantially similar thereto) shall be executed by the Authority at or before Closing. The Town agrees to support the District's request for approval of the Amendment to the Special Connector's Agreement from the Authority's Board of Directors at its first regularly scheduled meeting following execution of this Agreement.

6. **Closing.** At the Closing, the District will pay the Town for the Additional Capacity; the Town will deliver a Bill of Sale transferring the Additional Capacity to the District; and the Authority will deliver to the District the Amendment to Special Connector's Agreement.

7. **Notices.** Any notices required or allowed to be delivered hereunder shall be in writing and addressed to a party as set forth below:

Town of Castle Rock

Town of Castle Rock

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c/o Mark Marlowe, Director of Castle Rock Water
175 Kellogg Court
Castle Rock, Colorado 80109
Email: mmarlowe@crgov.com

Town of Castle Rock
c/o Michael Hyman, Town Attorney
100 Wilcox Street
Castle Rock, Colorado 80104
Email: mhyman@crgov.com

Silver Heights Water & Sanitation District

Silver Heights Water & Sanitation District
c/o Rich Rasmussen, President
1027 Harvey Street
Castle Rock, Colorado 80104
(303) 688 5597
Email: rtrasmussen@comcast.net

With a copy to:
Mason H. Brown
Katrina B. Fiscella
Carlson, Hammond & Paddock, LLC
1900 Grant Street, Suite 1200
Denver, Colorado 80203
(303) 861-9000
Email: mbrown@chp-law.com; kfiscella@chp-law.com

(Signature page to follow)

IN WITNESS WHEREOF, the parties hereto have caused their respective representatives to execute this Agreement on their behalf, as of the date set forth above.

ATTEST:

TOWN OF CASTLE ROCK

Lisa Anderson, Town Clerk

Jason Gray, Mayor

Approved as to form:

Approved as to content:

Michael J. Hyman, Town Attorney

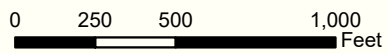
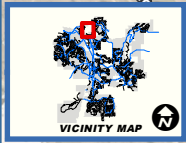
Mark Marlowe, Dir. of Castle Rock Water

**SILVER HEIGHTS WATER &
SANITATION DISTRICT**

By: _____
Title: _____

EXHIBIT A

Amendment to Special Connector's Agreement between the District and the Authority
(to be inserted)



Date: 4/10/2024 1 inch = 600 feet



- Parcel in Agreement
- Town of Castle Rock

Disclaimer: The data presented has been compiled from various sources, each of which introduces varying degrees of inaccuracies or inconsistencies. Such discrepancies in data are inherent and in supplying this product the Town of Castle Rock assumes no liability for its use or accuracy. Questions or comments regarding the cartographic composition of this map including, but not limited to, errors, omissions, corrections, and/or updates, should be directed to the Utilities Department, Town of Castle Rock, (720) 733-6000. Copyright 2024, Town of Castle Rock Utilities Mapping.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 4. **File #:** WC 2024-035

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water
Matt Benak, P.E., Water Resources Manager

Resolution Approving Funding for the Town's Purchase of 2024 Option Shares in the Chatfield Storage Reallocation Project [Chatfield Reservoir in Douglas and Jefferson Counties]

Town Council Agenda Date: May 21, 2024

Executive Summary

The purpose of this memorandum is to request Town Council approval of a resolution (**Attachment A**) approving the funding of the Town's purchase of our 2024 option in the Chatfield Reservoir Reallocation Project. Renewable water storage is a key component of the Town of Castle Rock's long-term water plan and participation in the Chatfield Storage Reallocation Project gives the Town unique access to additional renewable water sources. The purpose of this memorandum is to request Town Council approval to authorize funding for the purchase of an additional 129 acre-feet (AF) of storage shares from the Colorado Water Conservation Board (CWCB). Castle Rock currently owns 719 AF of storage and has the right to purchase 1,281 AF of storage in accordance with our 2015 agreement with CWCB over the next 10 years.

First storage of reallocation pool water started in May 2020 and Castle Rock currently has approximately 2,000 AF of water in storage. The purchase of these additional shares will give the Town a total of 848 AF of water storage space with the ability to store additional water (up to 2,000 AF) under a storage lease agreement that we have in place with the CWCB.

The cost to purchase 129 AF of storage from CWCB is \$1,070,825.13 and the Assumption Agreement and Water Provider Agreement with CWCB related to this purchase are provided in **Attachments B and C**, respectively. Funding for this purchase was included in the approved 2024 budget. Funding for the purchase of the remaining storage shares under our 2015 agreement with CWCB is included in Castle Rock Water's multi-year financial plan.

History of Past Town Council, Boards & Commissions, or Other Discussions

For a comprehensive summary of Castle Rock's participation in the Chatfield Storage Reallocation Project, please see **Attachment D**.

Item #: 4. File #: WC 2024-035

On April 27, 2022 Castle Rock Water Commission recommended that Council approve the purchase of 129 AF of additional shares from the Colorado Water Conservation Board.

On May 17, 2022, Town Council approved the purchase of 129 AF of additional shares from the CWCB per resolution 2022-058.

Discussion

The Chatfield Storage Reallocation Project (Project) is a water storage project to reallocate flood storage space in the existing Chatfield Reservoir located in northwest Douglas County to space that can be used for storing renewable water supplies. The Town of Castle Rock is currently, and has been since 2004, a participant in this Project.

The Town entered into a multi-year agreement with the CWCB in July 2015 to purchase shares in the Chatfield Storage Reallocation Project. This agreement allowed the Town to spread out the project costs over time while the Project was undergoing design and construction activities.

Construction for the Chatfield Storage Reallocation Project was substantially completed in December 2019. The final Project construction costs were \$167,016,960, which was \$3.97 million less than the last official Project estimate. The Chatfield Reservoir Management Company (CRMC) was directed to utilize the remaining funds to pay for the first five years of post-construction Project obligations, such as vegetation and habitat monitoring, erosion monitoring, weed management and new vegetation irrigation.

In early 2020, CRMC staff worked diligently to finalize the remaining U.S. Army Corps of Engineers (USACE) submittals that were a requirement prior to first storage. These final submittals were officially approved by USACE on May 13, 2020 who indicated that all recreation modifications, compensatory mitigation features, real estate interests, and other modifications to the Project had been satisfactorily completed. Payment for first storage was made by CRMC on May 14, 2020 to USACE. Given these final two critical path items, first storage of water into the reallocated storage space occurred on May 15, 2020, with Castle Rock Water being the first entity to store water.

Presently, Castle Rock has approximately 2,000 AF of water in storage. With the purchase of this additional block of storage space the Town will own 848 AF of storage with the option to store water up to 2,000 AF in our optioned pool owned by CWCB. Additionally, during the wet spring period of 2023, Castle Rock was able to fill all 2,000 AF of its 1989 Chatfield storage water right and subsequently made this conditional water right into an absolute water right by submitting this documentation through Water Court.

Currently, Castle Rock Water uses its stored supplied in Chatfield Reservoir by exchanging the water back to our Plum Creek Diversion or CR-1 Diversion structures. The longer-term plan is to construct pump stations and a pipeline from Chatfield Reservoir back to our Castle Rock Reservoirs #1 and #2 near Sedalia (known as the Chatfield Pump Back Project). A large portion of this pipeline would follow the same alignment as the existing Ravenna Pipeline that Castle Rock purchased in 2017. The Chatfield Pump Back Project is currently in the preliminary design stage (see **Attachment E**) and we are continuing to work with Denver Water on permitting, engineering and cost sharing

discussions. Preliminary costs to fully implement this project range from \$85 million to \$102 million depending on the final pipeline size/capacity that is selected for the project. Castle Rock Water has approximately \$90 million in the current long term financial plan for this work.

Budget Impact

The cost for the 129 AF storage space purchase is \$1,070,825.13. The Town has \$1,097,596 in the project budget (Account Number 211-4375-443.77-29, CIP/Chatfield Reallocation) for 2024.

Staff Recommendation

Staff recommends approval of funding for 129 AF of additional storage shares for the 2024 option in the Chatfield Reservoir Reallocation Project.

Proposed Motion

“I move to recommend to Town Council approval of the Resolution as presented”

Attachments

- Attachment A: Resolution (Not Attached)
- Attachment B: Assumption Agreement (Not Attached)
- Attachment C: Water Provider Agreement (Not Attached)
- Attachment D: Chatfield Program History
- Attachment E: Preliminary Design Alignment for the Chatfield Pump Back Project

Attachment D

Comprehensive Program History for the Chatfield Storage Reallocation Project

In 2004, the Town Council approved a resolution consenting to the South Metro Water Authority (currently the South Metro Water Supply Authority) reserving 1,400 acre-feet of the storage capacity on behalf of its members. The Town's current share of that capacity is 34.8 percent (34.8%) or 487.2 acre-feet.

In 2005, the Town signed a Letter of Commitment between the Town of Castle Rock and the Colorado Water Conservation Board (CWCB) to reserve permanent storage space in Chatfield Reservoir if the storage became available as a result of this project. The Town's reserved capacity stood at 1,013.2 acre-feet.

In September 2012, Town Council approved a resolution to submit a letter to the US Army Corps of Engineers in support of the Chatfield Reallocation Project.

Utilities Commission was updated on the status of the project on June 26, July 24, and October 22, 2013.

Town Council was updated on the status of the project in October 2013.

The Water Resources Committee reviewed this project on May 6, 2014.

On May 28, 2014, Utilities Commission was updated on the status of the recommended reduced participation level of 200 AF. Utilities Commission voted 5-1 approving the recommended reduced participation level with one Commissioner stating that participation at a higher level was preferred. The primary reason for a reduction in participation was the financial impact that full participation would have had to our customer's water rates.

On June 17, 2014, Town Council approved a resolution to reduce participation in the Chatfield Reallocation Project from 1,500.3 AF to 200 AF.

On November 18, 2014, Town Council approved a resolution to approve the Execution of the Articles and Bylaws of the Chatfield Reservoir Mitigation Company, Water Storage Agreement, Escrow Agreement, and Water Provider Agreement for the project.

On April 21, 2015, the Town Council was provided with a discussion of the salient points of a draft option agreement with CWCB.

On May 27, 2015 the Utilities Commission unanimously supported the recommendation to Town Council to proceed with entering into an agreement with CWCB for the acquisition of additional project shares over a multi-year period.

On June 16, 2015, Town Council approved the option agreement for acquisition of additional Chatfield Reservoir project shares from the State of Colorado over time.

On October 5, 2015, the Mayor was presented with execution instructions and original forms for the:

- Articles of Incorporation and Bylaws of Chatfield Reservoir Mitigation Com., Inc.
- Water Provider Agreement
- Escrow Agreement

The Chatfield Storage Reallocation Project refined cost estimate was presented to Utilities Commission on April 27, 2016. The commissioners unanimously recommended that the Town continue its participation in the project.

On May 17, 2016, Town Council was provided with an update on the progress of the Chatfield Reallocation Project.

On May 25, 2016, Utilities Commission was provided with a discussion of the key points for an amendment to the CWCB Option Agreement to buy 1,713 AF of storage shares over the next nineteen years. The commissioners unanimously recommended that staff work with CWCB to develop an amendment to the existing CWCB Option Agreement.

In December 2016, the Town closed on an additional 87 AF of storage space, bringing our current total to 374 AF.

On October 25, 2017, Castle Rock Water Commission was provided with a discussion of the Chatfield Storage Reallocation Project updated cost estimate and off-ramp option, and unanimously recommended the Town continue its participation in the project.

On November 14, 2017, Town Council was provided with a discussion of the Chatfield Storage Reallocation Project updated cost estimate and off-ramp option, and approved the Town's continued participation in the project.

On March 28, 2018, the Castle Rock Water Commission unanimously recommended support of the purchase of 87 AF of additional shares.

On April 17, 2018, Town Council approved the purchase of 87 AF of additional shares. The Town closed on this tranche of storage space before the end of 2018.

On September 26, 2018 the Castle Rock Water Commission unanimously recommended Town Council approval for entering into the Modified Agreement for Acquisition of Chatfield Reservoir Reallocation Project Shares with the State of Colorado.

On October 2, 2018, Town Council approved Resolution 2018-093, a Modified Agreement for Acquisition of Chatfield Reservoir Reallocation Project shares from the State of Colorado, ultimately increasing our optioned amount of storage by 500 AF, eventually allowing the Town to reach 2,000 AF of storage.

On August 27, 2019, Castle Rock Water staff informed the Colorado Water Conservation Board of its intent to defer the purchase of an additional 129 AF of optioned shares.

On January 22, 2020, Castle Rock Water Commission unanimously recommended Council approve the purchase of 129 AF of additional shares from the Colorado Water Conservation Board in 2020.

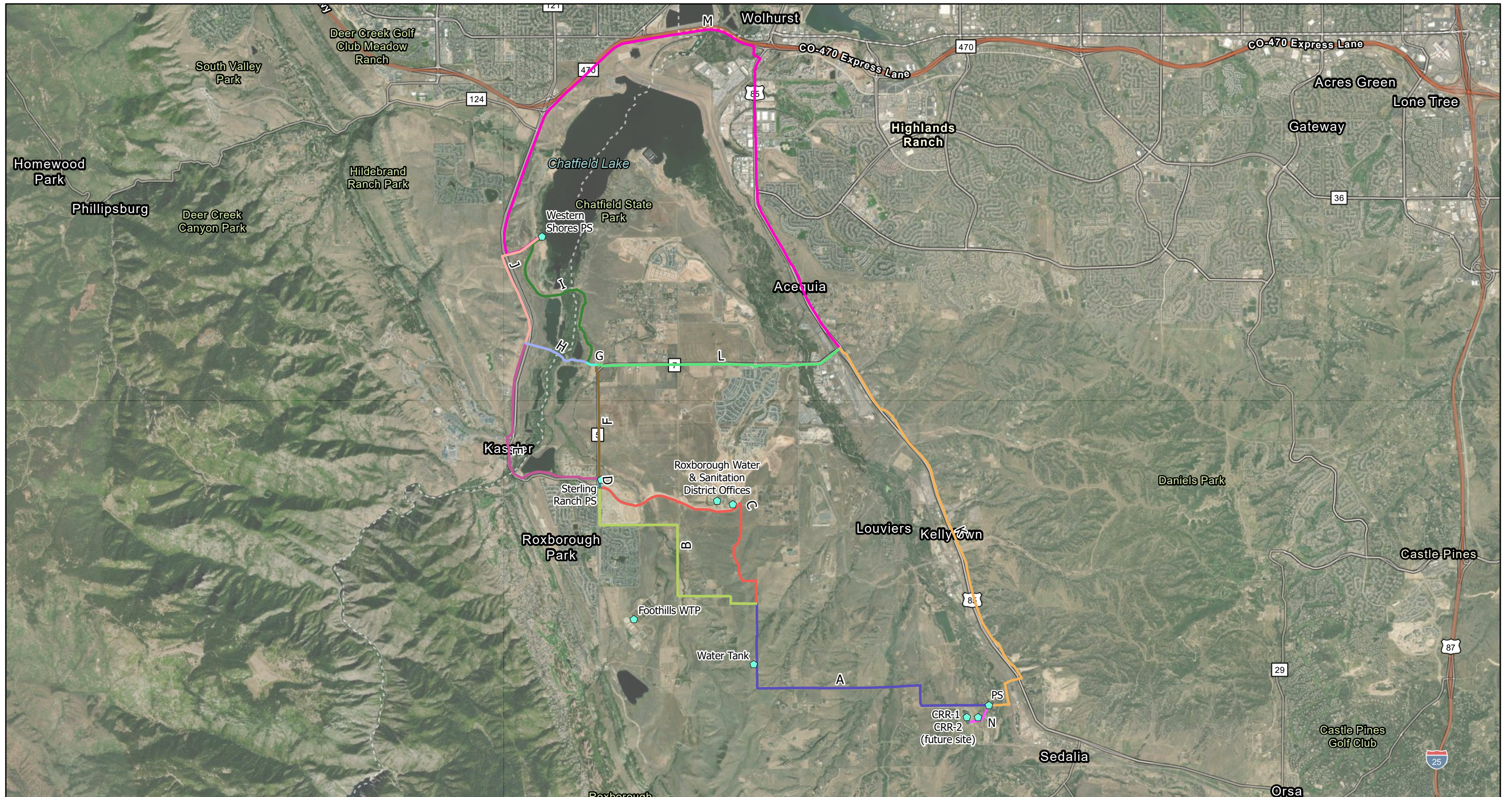
On February 4, 2020, Town Council approved the purchase of 129 AF of additional shares from the CWCB per resolution 2020-016. The CWCB acknowledged the receipt of the Town's wire transfer of the funds for this additional storage space on April 30, 2020.

On July 7, 2020, Castle Rock Water staff provided an update to Town Council on the Chatfield Storage Reallocation Project.

On March 24, 2021, Castle Rock Water Commission was informed of the Lease Agreement with the CWCB for Use of Storage Space in the Chatfield Storage Reallocation Project and unanimously recommended Town Council approval.

On April 6, 2021, Town Council unanimously approved Resolution 2021-037 approving the Lease Agreement Between the CWCB and the Town of Castle Rock Water Enterprise for the Use of Storage Space in the Chatfield Storage Reallocation Project.

ATTACHMENT E

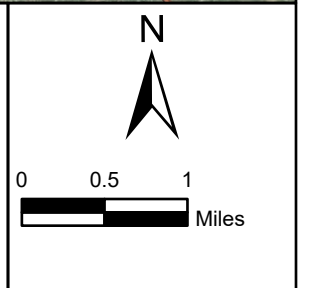


Legend		
Existing Facilities	C	I
Alignment Alternatives - PCA Nodes	D	J
A	E	K
B	F	L
	G	M
	H	N

Preliminary Alignment Alternatives Map Book
Client: Town of Castle Rock
Project: Chatfield Pump Back Project
Date: 1/18/2023
Overview of PCA Alignment Nodes

Notes:

1. This exhibit shows how the proposed alignment alternatives were divided into alignments nodes in order to completed the Paired Comparison Analysis (PCA).





Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 5. **File #:** WC 2024-036

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water
Nichol Bussey, Business Solutions Manager
Paul Rementer, Enterprise Fund Analyst

2024 Capital Plan
Town Council Agenda Date: NA

Executive Summary

This will be a presentation only item.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 6. **File #:** WC 2024-037

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water

Resolution Approving an Amended Agreement between the Town of Castle Rock and Douglas County for the Hwy 85 Wastewater Project

Town Council Agenda Date: May 21, 2024

Executive Summary

This will be an update only item.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 7. **File #:** WC 2024-038

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water

Resolution Approving an Amended Agreement between the Town of Castle Rock and Dominion Water & Sanitation District for the Hwy 85 Wastewater Project

Town Council Agenda Date: May 21, 2024

Executive Summary

This will be an update only item.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 8. **File #:** WC 2024-039

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water
Hannah Branning, Water Quality & Regulatory Compliance Manager

Per-and polyfluoroalkyl (PFAS) Regulations Update
Town Council Agenda Date: NA

Executive Summary

This will be an update only item.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 9. **File #:** WC 2024-040

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water

Boxelder Project Update
Town Council Agenda Date: NA

Executive Summary

This will be a discussion only item.



Town of Castle Rock

Agenda Memorandum

Agenda Date: 4/24/2024

Item #: 10. **File #:** WC 2024-041

To: Members of the Castle Rock Water Commission

From: Mark Marlowe, P.E., Director of Castle Rock Water

Upcoming Town Council Items
Town Council Agenda Date: NA

Executive Summary

This item is an informational update only, and is designed to give Commission a preview of time critical items that may need to go to Council prior to review at a Commission Meeting.

Items for this month include:

- Amended Agreement with LSI for the Screen Development Project