

Town Council Work Session

Tuesday, July 10, 2018, 3:00 PM Council Chambers 150 Ski Hill Road Breckenridge, Colorado

I. PLANNING COMMISSION DECISIONS (3:00-3:05 pm)

Planning Commission Decisions

II. LEGISLATIVE REVIEW (3:05-3:45 pm)

BGV Development Agreement (Second Reading)

TDR Ordinance (Second Reading)

2017 National Electrical Code Adoption (First Reading)

Water Efficiency Plan Resolution

III. MANAGERS REPORT (3:45-4:30 pm)

Public Projects Update

Parking and Transportation Update

Housing and Childcare Update

Committee Reports

IV. OTHER (4:30-6:00 pm)

Ice Arena Locker Room Expansion Design Discussion

Electric Bus Acquisition

5-Year CIP Review

HR Goals and Objectives

Ironman and Breck Epic Discussion

Council Norms



Memo

To: Breckenridge Town Council Members

From: Peter Grosshuesch, Director of Community Development

Date: July 5, 2018

Subject: Planning Commission Decisions of the July 3, 2018 Meeting

DECISIONS FROM THE PLANNING COMMISSION MEETING, JULY 3, 2018:

CLASS A APPLICATIONS:

1. Ten Mile Room, PL-2018-0071, 505 S. Park Avenue: A proposal to construct a 7,859 square foot replacement conference facility that connects to the adjacent Liftside Building conference areas. *Approved.*

CLASS B APPLICATIONS:

1. Yankee Peddler Building Change of Use and Remodel, PL-2018-0099, 400 S. Main Street: A proposal to change the use of the existing building from commercial retail to commercial restaurant and to make exterior changes. Proposed exterior changes include: add a door and stair to the upper floor, modify the existing roof, modify the front door threshold, add a brick patio, add a new walkway and landscaping, and an interior remodel. There is no additional density proposed with this application. *Approved*.

CLASS C APPLICATIONS:

- 1. Harris Residence Addition and Accessory Apartment, PL-2018-0233, 84 Marks Lane: A proposal to construct a 2,168 sq. ft. addition to an existing 5,706 sq. ft. single family residence, which includes a 970 sq. ft. accessory apartment. *Approved*.
- 2. Climax Jerky Cart Renewal, PL-2018-0243, 100 S. Main Street: A proposal to renew the vendor cart permit for Climax Jerky, Inc., a retail business that sells a variety of dried meats known as "jerky." The company has operated in Breckenridge since 2008. The covered wagon cart is 8'4" long, 4'4" wide, and about 8' tall. The wagon is constructed primarily of wood and steel, with a canvas cover. *Approved.*

TOWN PROJECT HEARINGS: None

OTHER: None.









PLANNING COMMISSION MEETING

The meeting was called to order at 5:30 p.m. by Chair Mathews-Leidal.

ROLL CALL

Christie Mathews-Leidal Jim Lamb Ron Schuman

Mike Giller – Arrived at 5:42 Steve Gerard Dan Schroder Gretchen Dudney

APPROVAL OF MINUTES

With no changes, the June 19, 2018 Planning Commission Minutes were approved.

APPROVAL OF AGENDA

With no changes, the July 3, 2018 Planning Commission Agenda was approved.

PUBLIC COMMENT ON HISTORIC PRESERVATION ISSUES:

No Comments

CONSENT CALENDAR:

1. Harris Residence Addition and Accessory Apartment (CL), PL-2018-0233, 84 Marks Lane

Mr. Gerard: Has the HOA seen this plan yet? (Mr. LaChance: Can't recall. I'd have to look at my files

to confirm) (Ms. Puester: Legally, we cannot require HOA approval.)

2. Climax Jerky Cart Renewal (CK), PL-2018-0243, 100 S. Main Street

With no call-ups, the Consent Calendar was approved as presented.

FINAL HEARINGS:

1. Yankee Peddler Building Change of Use and Remodel (CL), PL-2018-0099, 400 S. Main Street

Mr. LaChance presented a proposal to change the use of the existing building from commercial retail to commercial restaurant, and to make exterior changes including adding a door and stair to upper floor, modifying the existing roof, modifying the front door threshold, adding a brick patio, adding a walkway and landscaping, and an interior remodel.

Commissioner Ouestions/Comments:

Ms. Leidal: Does the wood fence meet the historic preservation guidelines? (Mr. LaChance: Yes, it

> does. The proposed additional fence is an extension of the existing fence, and is proposed to match. The Handbook states that fences in the Historic District cannot be solid. The existing and proposed fence has gaps in between the pickets, so it meets the requirements.)

Mr. Shuman: Have they looked at using the dumpster on the Tannhauser property? (Mr. LaChance: I am

not sure, so I might refer that question to the applicant. I have spoken with Public Works and I know the applicant is working out the details with them regarding using a Town

Dumpster, but that has not been finalized.)

Mr. Matt Stais, Architect, Presented:

Most of the issues brought up by the Commission were with the landscaping so we made sure to address those issues. The front area will be taken back to lawn and the patio has been cut back. We have also increased shrubs and plantings to better screen the adjacent neighbors. I believe Mr. LaChance did a great job covering

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all the changes we made and I don't have anything further to add. Thank you.

Public Comments:

Claudia Lubaszka, 401 S. Ridge Street Unit 19:

This is the first I have heard about the roof and parking. I was under the impression that you can't change the building if you are blocking others view. I have only one window facing Main Street. How high is the new structure going up? (Ms. Leidal: They are adding a porch on the back side but the height of the building will not change.) Will they use more parking between the buildings? (Ms. Leidal: No, they won't.) Where is the outdoor sitting area? (Ms. Leidal: Highlighted the area in question.) How late will the restaurant be open? (Ms. Dudney: We don't have a right to tell them they can't have a restaurant because it was originally zoned as commercial.) Are they taking the entire building or both buildings? (Ms. Dudney: No. Just the front.) Has everything been approved? (Ms. Leidal: Nothing has been approved yet, but this is the final meeting.) Thank you for your time and answering my questions.

Buck Finley, Realtor:

This building did have use of the Tannhauser dumpster in the past. I believe the property owners are in discussions with Tannhauser as to whether or not it will work.

Commissioner Questions/Comments:

Mr. Lamb: I think it is a good looking project and I support it.

Mr. Schuman: I would have liked to see more landscaping but I realize it meets requirements.

Mr. Giller: Staff gave a great presentation and staff and the applicant have been responsive to our

concerns at the Preliminary Hearing, so I think that is why we are in agreement tonight. I

support.

Mr. Gerard: I am glad the walk way was reduced. I think that will help with sound buffering for the

neighbors now. I thank Matt for all his consideration and changes. I would have like to see

it remain a four square but understand the difficulties in doing that.

Mr. Schroder: I agree with staff analysis and think that staff has done a great job presenting the project. I

think the project is approvable.

Ms. Dudney: I agree, and think the project is approvable.

Mr. Schuman made a motion to approve with the modified conditions handed out, seconded by Mr. Gerard. The motion passed unanimously.

2. Ten Mile Room (JL), PL-2018-0071, 505 S. Park Ave

Ms. Puester presented for Mr. Lott, an application for construction of a 7,859 square foot replacement conference facility that connects to the adjacent Liftside Building conference areas. The applicant requested a few minor changes to the conditions of approval which staff was fine with. The new conditions of approval on your dias. The architect also sent over some additional clarification this afternoon which is on your dias outlining the percentages of material on each elevation in color. Staff had an issue with the CMU shown on the east elevation and although it is only a few feet away from the Liftside building, technically it would not meet code. The elevations you have in front of you also show the CMU changed to fiber cement board material which meets fire code. Most of the building is natural material of wood siding, beams and natural stone. The other main issue that staff had was the parking. None was proposed previously. The applicant has proposed that the parking runs with the Village hotel which the applicant also owns but is planning to sell. A condition has been added to require a covenant and lease to run with the two separate properties of the Ten Mile Room and Village Hotel.

Commissioner Questions/Comments:

Ms. Dudney: What would happen if they use the CMU shown? (Ms. Puester: Technically, it would get

negative points for exceeding 25% in combination with the stucco shown. We give

negative points for the material used as well. The hallway connection elevation is where the CMU block is. If you did lean toward the CMU, I would recommend a special finding to not set precedent with the application, being that it is not visible and 2 feet from an adjacent building.)

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Tim Losa, Architect, Presented:

That was a good overview from Ms. Puester. I'll address the last minute change on the siding. We have to have a firewall there. CMU is one way to construct the required fire wall. The other area is a courtyard with a fence on the front side. If we go with lap siding we have to have prefab walls so that is possible to drop in place. We also dropped the roof height on the west end. Other than that the building remains relatively similar. There was concern with using the reddish color so this picture shows the red we are trying to get to, matching the existing Village burnt red color. It is used mostly as a highlight color.

Mr. Giller: Is the fiberboard wall still a firewall? (Mr. Losa: Yes. It is fire retardant material. It will

have a wood texture on it but is nonflammable.)

Are these exterior walls visible? (Mr. Losa: They should not be visible.) So people may be Ms. Dudney:

standing out there smoking? (Mr. Losa: I guess. It is mostly used as back of the house

space and will be blocked off by a gate.)

You mentioned a gate, can you show where that is? We usually don't permit that in our Ms. Puester:

code. (Mr. Losa - Pointed out where he thought the gate would be.) I would like to have

staff review the gate separately to make sure it meets code.

The hearing was opened for Public Comment: No comments and the hearing was closed.

I would like to add a condition of approval that the applicant submit a class D minor for Ms. Puester:

approval for any gate (new #13).

Mr. Schroder: Glad to see that we were able to address the parking issues appropriately for this

application.

They solved the parking issue. Mr. Schuman: Mr. Lamb: Good compromise to the issue.

Mr. Gerard: Creative attempt at solving the problem but it is really smoke and mirrors. We took space

> from the hotel and I see this setting up as a mess because they are short 18 spaces. I don't think we really solved the parking problem. The prior issues with the building have been solved and would support the CMU. I always believe safety comes first. I think they met

all the other issues we had.

Mr. Giller: What gives you a two hour rating on that wall? (Mr. Losa: The material under the wall

surface is really how you create a fire wall. With fiber cement, it is made of nonflammable

material and metal studs.)

I am not opposed to the CMU but I think the cementitious material would be better if it Ms. Dudney:

> needs to look good on all sides and to avoid precedent. (Mr. Losa: We could use either material but we would prefer CMU.) I think it was originally the towns fault for the parking issues with buying the F lot which had the parking for the Village on it. I didn't hear about complaints when it was a conference center previously. I appreciate choosing a solution that would not become precedence by matching the other conference areas in

town. I applaud the creative solution.

Mr. Lamb: I don't have a firm opinion on the material. I don't think the hotel would ever collapse or

get knocked down to make the CMU visible. If it did, they would build to their setback.

I am in favor of using the CMU. Mr. Schuman:

Ms. Puester: Would the CMU be less than 25% of the elevation? (Mr. Losa: It is about 30%. 15%

CMU 15% stucco.) Can we have a show of hands in favor of fiber cement siding? (Four

commissioners in support of fiber cement versus CMU). Ok, fiber cement it is.

Town of Breckenridge	
Planning Commission Regular Meetin	٤

Date 07/03/2018 Page 4

Mr. Giller made a motion to approve the findings and conditions adding a new #13 regarding the gate, seconded by Mr. Schuman. The motion passed 6-1, with Mr. Gerard dissenting.

OTHER MATTERS:

1. Town Council Summary

ADJOURNMENT:

The meeting was adjourned at 6:50 pm.

Christie Mathews-Leidal, Chair



Memo

To: Breckenridge Town Council Members

From: Chris Kulick, AICP, Planner III

Date: 7/10/2018

Subject: Council Bill No. 16, East Peak 8 Parcel (1599 Ski Hill Road) - Lionheart BGV Ventures

Hotel Development Agreement Ordinance

The second reading of the Lionheart BGV Ventures Hotel Development Agreement Ordinance is attached. There are no changes to the Ordinance from First Reading approved on June 26. Changes to the Development Agreement have been marked in the attachment

Key changes to the Development Agreement Include:

- All approved temporary structures shall be removed not later than the first to occur of: (i) the
 end of 60 days after the issuance of any final certificate of occupancy for the Proposed
 Development, or (ii) 7 years after the date of initial substantial construction (as defined in the
 Town Code) of the Proposed Development.
- The applicants are now being credited, as a public benefit, for only the amount of deed restricted employee housing beyond which the proposed development is gaining positive points under Policy 24/R during the Development Permit review (x SF).
- The environmental improvement fund, dedicated to drainage and similar protection improvements in Cucumber Gulch will be funded by a fee of \$2.00 per paid room night of hotel room rentals, for a period of twenty (20) years from the date a certificate of occupancy is issued for the hotel component of the Proposed Development.
- All of the Developer's obligations in the Development Agreement will extend beyond completion of the Proposed Development in one or more restrictive covenants as conditions of approval with an approved development permit.

Staff will be available to answer any questions at the meeting.

FOR WORKSESSION/SECOND READING – JULY 10

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3	NO CHANGE TO ORDINANCE FROM FIRST READING;
4	CHANGES TO DEVELOPMENT AGREEMENT ARE MARKED
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6 7	COUNCIL BILL NO. 16
8	Series 2018
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10 11	AN ORDINANCE APPROVING A DEVELOPMENT AGREEMENT WITH LIONHEART BGV VENTURES, LLC, A COLORADO LIMITED LIABILITY COMPANY
12 13 14	BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF BRECKENRIDGE, COLORADO:
15 16 17 18	<u>Section 1</u> . <u>Findings</u> . The Town Council of the Town of Breckenridge finds and determines as follows:
19 20 21 22 23	A. Vail Summit Resorts, Inc. ("Owner") is the owner of the Remainder of Tract C, Peak 8 Subdivision according to the Third Resubdivision Plat of The Remainder of Tract C, Peak 8 Subdivision Filing No. 1 recorded September 19, 2016 at Reception No. 1121860, Summit County, Colorado (the "Property").
24252627	B. The Property is subject to the Amendment to Amended Peaks 7 & 8 Master Plan approved by Development Permit PL-2015-0444 on January 12, 2016, the Notice of Approval of Master Plan for which Amendment was recorded August 30, 2016 at Reception No. 1120265 of the Summit County, Colorado records (the "Master Plan").
28 29 30 31	C. Lionheart BGV Ventures, LLC, a Colorado limited liability company, ("Developer") is an affiliate of Lionheart Capital, LLC.
32 33 34 35 36 37	D. Owner and Lionheart Capital, LLC have entered into an agreement for the potential sale of the portion of the Property located to the east of One Ski Hill Place and representing the remainder of the developable area of Planning Area B, Peak 8 Base of the Master Plan (the "Sale Parcel") for Developer to develop a hotel, condominiums, commercial facilities, amenities and space for Owner's use (the "Proposed Development"). On February 6, 2018 the agreement was assigned by Lionheart Capital, LLC to Developer.
38 39 40 41 42 43	E. As owner of the Property, Owner has the right to authorize and has provided to the Town written authorization for the Developer to propose an amendment to the Master Plan, to request a density transfer to the Sale Parcel, to request Town approval for the gross density recommended by the Town's Land Use Guidelines ("Guidelines") to be exceeded as provided for in Subsection 9-1-19-39A:I.(2) of the <u>Breckenridge Town Code</u> , and to enter into agreements with the Town concerning such amendment to the Master Plan, such a density transfer, such

density in excess of that recommended by the Guidelines, and such other matters as the Town and the Developer may agree is appropriate.

- F. Pursuant to Chapter 9 of Title 9 of the <u>Breckenridge Town Code</u> the Town Council has the authority to enter into a development agreement. Further, in connection with a master plan amendment, there is no process in the Town's Development Code for approval of density in excess of that recommended by the Guidelines and a transfer of density to support such excess density, and, therefore, a development agreement provides a means for such an approval and transfer.
- G. In order for Developer to develop the Sale Parcel in a manner that will include a four star, flagged, luxury hotel containing approximately 150 rooms and approximately 110,000 square feet of condominiums, with the amenities and commercial services required for such a project, up to an additional 58 SFEs of density, which may include up to 2.0 SFEs of commercial density, will be required and an amendment to the Master Plan and authorization to acquire and transfer such additional SFEs will be required.
- H. Because there is no provision in the <u>Breckenridge Town Code</u> allowing site work to begin prior to issuance of a building permit, in order to facilitate the beginning of vertical construction of Developer's proposed project in the spring of 2020, the Town is prepared to authorize its Department of Community Development ("Department") to grant permission for the commencement of infrastructure improvements, including, but not limited to, demolition of Owner's administration office building and ski patrol locker building located on the Sale Parcel ("Administration Facilities"), construction of storm water management facilities, relocation of utilities, and site excavation prior to issuance of a building permit, but subject to receipt of assurances of completion deemed satisfactory by the Department.
- I. In order to accommodate Owner's administration functions necessary or appropriate for the operation of the Breckenridge Ski Resort, which currently occur in the Administration Facilities, the Town acknowledges and understands that one or more temporary structures will need to be placed in locations acceptable to the Owner, Developer, and the Town on the Sale Parcel or elsewhere within the Property as determined by Owner, Developer, and the Town and maintained in such locations until the proposed Guest Services (as defined in the Master Plan) spaces to be included in Developer's proposed development on the Sale Parcel (the "Guest Services Spaces") are completed and ready for occupancy by Owner and a temporary permit will need to be issued. Such permit must be reviewed and approved by the Town's Planning Commission and Town Council as provided for in subparagraph 1(a)(v) of the proposed Development Agreement, and nothing in the Agreement requires the Planning Commission or Town Council to approve such a permit if the permit application does not meet the applicable requirements of the Town's Development Code.
- J. The commitments encouraged to be made in connection with an application for a development agreement in accordance with Section 9-9-4 of the <u>Breckenridge Town Code</u>, Developer are set forth in the Agreement.

- K. The Town Council has received a completed application and all required submittals for a development agreement, had a preliminary discussion of the application and this Agreement, determined that it should commence proceedings for the approval of this Agreement and, in accordance with the procedures set forth in Subsection 9-9-10:C of the <u>Breckenridge Town Code</u>, has approved this Agreement by non-emergency ordinance.
- L. A proposed development agreement between the Town and the Owner addressing the topics described above has been prepared, a copy of which is marked **Exhibit "A"**, attached hereto and incorporated herein by reference ("Development Agreement").
- M. The Town Council had a preliminary discussion of the development agreement application, and the proposed Development Agreement, as required by Section 9-9-10(A) of the Breckenridge Town Code.
- N. The Town Council determined that request for a development agreement need not be referred to the Breckenridge Planning Commission for its review and recommendation.
 - O. The Town Council has reviewed the Development Agreement.

- P. The approval of the Development Agreement is warranted in light of all relevant circumstances.
- Q. The procedures to be used to review and approve a development agreement are provided in Chapter 9 of Title 9 of the <u>Breckenridge Town Code</u>. The requirements of such Chapter have substantially been met or waived in connection with the approval of the Development Agreement and the adoption of this ordinance.
 - <u>Section 2</u>. <u>Approval of Development Agreement</u>. The Development Agreement between the Town and Lionheart BGV Ventures, LLC, a Colorado limited liability company (<u>Exhibit</u> <u>"A"</u> hereto) is approved, and the Town Manager is authorized, empowered, and directed to execute such agreement for and on behalf of the Town of Breckenridge.
 - <u>Section 3</u>. <u>Notice of Approval</u>. The Development Agreement must contain a notice in the form provided in Section 9-9-13 of the Breckenridge Town Code. In addition, a notice in compliance with the requirements of Section 9-9-13 of the Breckenridge Town Code must be published by the Town Clerk one time in a newspaper of general circulation in the Town within fourteen days after the adoption of this ordinance. Such notice shall satisfy the requirement of Section 24-68-103, C.R.S.
 - Section 4. Inapplicable Code Provision. Because the Development Agreement involves constitutionally protected property rights, the Town Council finds, determines, and declares that Section 1-16-15 of the Breckenridge Town Code does not apply to the Development Agreement. If Section 1-16-15 of the Breckenridge Town Code is ever determined to apply to the Development Agreement, the Town Council irrevocably waives any right it might have to seek to void the Development Agreement based upon such determination.

1	Section 5. Police Power Finding. The Town Council finds, determines, and declares that
2	this ordinance is necessary and proper to provide for the safety, preserve the health, promote the
3	prosperity, and improve the order, comfort and convenience of the Town of Breckenridge and
4	the inhabitants thereof.
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6	Section 6. Authority. The Town Council finds, determines, and declares that it has the
7	power to adopt this ordinance pursuant to the authority granted to home rule municipalities by
8	Article XX of the Colorado Constitution and the powers contained in the Breckenridge Town
9	Charter.
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11	Section 7. Effective Date. This ordinance shall be published and become effective as
12 13	provided by Section 5.9 of the Breckenridge Town Charter.
14	INTRODUCED, READ ON FIRST READING, APPROVED AND ORDERED
15	PUBLISHED IN FULL this day of, 2018. A Public Hearing shall be held at the
16	regular meeting of the Town Council of the Town of Breckenridge, Colorado on the day of
17	, 2018, at 7:00 P.M., or as soon thereafter as possible in the Municipal Building of the
18	Town.
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20	TOWN OF BRECKENRIDGE
	TO WIT OF BREETENING OF
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23	Bv:
24	By: Eric S. Mamula, Mayor
25	Ello S. Malliala, Mayor
21 22 23 24 25 26	ATTEST:
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31	Helen Cospolich, CMC,
32	Town Clerk
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APPROVAL OF THIS DEVELOPMENT AGREEMENT CONSTITUTES A VESTED PROPERTY RIGHT PURSUANT TO ARTICLE 68 OF TITLE 24, COLORADO REVISED STATUTES, AS AMENDED

Additions To The Version of the Agreement Approved on First Reading Are Indicated By **Bold + Double Underline**; Deletions By Strikeout

DEVELOPMENT AGREEMENT

This Development Agreement ("Agreement") is made as of the day of 2018 (the "Effective Date," which shall be the date when the ordinance approving this Agreement

becomes effective) between the TOWN OF BRECKENRIDGE, a municipal corporation of the State of Colorado, (the "Town") and LIONHEART BGV VENTURES, LLC, a Colorado limited

liability company (the "Developer").

Recitals

- A. Vail Summit Resorts, Inc. ("Owner") is the owner of the Remainder of Tract C, Peak 8 Subdivision according to the Third Resubdivision Plat of The Remainder of Tract C, Peak 8 Subdivision Filing No. 1 recorded September 19, 2016 at Reception No. 1121860, Summit County, Colorado (the "Property").
- The Property is subject to the Amendment to Amended Peaks 7 & 8 Master Plan approved by Development Permit PL-2015-0444 on January 12, 2016, the Notice of Approval of Master Plan for which Amendment was recorded August 30, 2016 at Reception No. 1120265 of the Summit County, Colorado records (the "Master Plan").
- Lionheart BGV Ventures, LLC, a Colorado limited liability company, ("Developer") is an affiliate of Lionheart Capital, LLC.
- Owner and Lionheart Capital, LLC have entered into an agreement for the potential sale of the portion of the Property located to the east of One Ski Hill Place and representing the remainder of the developable area of Planning Area B, Peak 8 Base of the Master Plan (the "Sale Parcel") for Developer to develop a hotel, condominiums, commercial facilities, amenities and space for Owner's use (the "Proposed Development"). On February 6, 2018 the agreement was assigned by Lionheart Capital, LLC to Developer.
- As owner of the Property, Owner has the right to authorize and has provided to the Town written authorization for the Developer to propose an amendment to the Master Plan, to request a density transfer to the Sale Parcel, to request Town approval for the gross density recommended by the Town's Land Use Guidelines ("Guidelines") to be exceeded as provided for in Subsection 9-1-19-39A:I.(2) of the Breckenridge Town Code, and to enter into agreements

with the Town concerning such amendment to the Master Plan, such a density transfer, such density in excess of that recommended by the Guidelines, and such other matters as the Town and the Developer may agree is appropriate.

F. Pursuant to Chapter 9 of Title 9 of the <u>Breckenridge Town Code</u> the Town Council has the authority to enter into a development agreement. Further, in connection with a master plan amendment, there is no process in the Town's Development Code for approval of density in excess of that recommended by the Guidelines and a transfer of density to support such excess density, and, therefore, a development agreement provides a means for such an approval and transfer.

 G. In order for Developer to develop the Sale Parcel in a manner that will include a four star, flagged, luxury hotel containing approximately 150 rooms and approximately 110,000 square feet of condominiums, with the amenities and commercial services required for such a project, up to the total of an additional 58 SFEs of density, which may include up to 2.0 SFEs of commercial density, will be required and an amendment to the Master Plan and authorization to acquire and transfer such additional SFEs will be required.

H. Because there is no provision in the <u>Breckenridge Town Code</u> allowing site work to begin prior to issuance of a building permit, in order to facilitate the beginning of vertical construction of Developer's proposed project in the spring of 2020, the Town is prepared to authorize its Department of Community Development ("Department") to grant permission for the commencement of infrastructure improvements, including, but not limited to, demolition of Owner's administration office building and ski patrol locker building located on the Sale Parcel ("Administration Facilities"), construction of storm water management facilities, relocation of utilities, and site excavation prior to issuance of a building permit, but subject to receipt of assurances of completion deemed satisfactory by the Department.

I. In order to accommodate Owner's administration functions necessary or appropriate for the operation of the Breckenridge Ski Resort, which currently occur in the Administration Facilities, the Town acknowledges and understands that one or more temporary structures will need to be placed in locations acceptable to the Owner, Developer, and the Town on the Sale Parcel or elsewhere within the Property as determined by Owner, Developer, and the Town, and maintained in such locations until the proposed Guest Services (as defined in the Master Plan) spaces to be included in Developer's proposed development on the Sale Parcel (the "Guest Services Spaces") are completed and ready for occupancy by Owner and a temporary permit will need to be issued. The permit referenced in this paragraph must be reviewed and approved by the Town's Planning Commission and Town Council as provided for in subparagraph 1(a)(v) below, and nothing in this Agreement requires the Planning Commission or Town Council to approve such a permit if the permit application does not meet the applicable requirements of the Town's Development Code.

1 J. The commitments encouraged to be made in connection with an application for a 2 development agreement in accordance with Section 9-9-4 of the Breckenridge Town Code, 3 Developer are as hereafter set forth in this Agreement. 4 K. The Town Council has received a completed application and all required submittals 5 for a development agreement, had a preliminary discussion of the application and this Agreement, 6 determined that it should commence proceedings for the approval of this Agreement and, in 7 accordance with the procedures set forth in Subsection 9-9-10:C of the Breckenridge Town Code, 8 has approved this Agreement by non-emergency ordinance. 9 Agreement 10 1. Upon: 11 12 (a) final approval of all of the following by the Town: 13 14 such permits or approvals necessary for the transfer of density consisting of up to (i) 15 a total of 58 SFEs, including up to two (2) commercial SFEs, to the Sale Parcel by Owner from the density included under the Gondola Lots Master Plan; 16 17 18 (ii) a Class A development permit amending the Master Plan to allow for such 19 transferred density in addition to the 71.6 residential SFEs and 8.89.0 commercial 20 SFEs remaining available for the Sale Parcel under the Master Plan (the "Master 21 Plan Amendment"); 22 23 (A) The maximum height of the buildings within the Proposed Development (iii) 24 shall not exceed the elevation of the existing east cross gable of One Ski Hill Place, as shown on the Building Elevations exhibit attached hereto. This 25 maximum height will serve as an "Absolute" policy under the Town's 26 27 Development Code.

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- (B) Policy 6 (Relative) "Building Height" of the Town's Development Code shall apply to the Town's review of the Permit application. Pursuant to the Master Plan, for the purpose of assessing or awarding points under Policy 6 (Relative) the heights of the buildings to be constructed within the Proposed Development shall be evaluated against the height requirements of the Town's Development Code and the recommended heights for Land Use District 39 as they were in effect at the time the most recent amendment to the Master Plan was approved on February 26, 2013.
- (C) Pursuant to the Master Plan, the height of buildings at the Peak 8 Base area only (including the site of the Proposed Development) are to be measured "to the proposed finished grade elevation at the exterior wall below," and not to natural grade, which generally does not exist in the area, provided that such proposed finished grades shall not include artificial appearing berming or fill.

 Artificial appearing berming or fill is characterized by excessive rise and steep grades in the vicinity of building foundations. (emphasis added). The height of the buildings within the Proposed Development shall be established in accordance with the Development Code and District 39 of the Guidelines, as they are in effect at the time of the execution of this Agreement; provided, however, that the Town and Developer shall establish a method for determining the finished grades above which heights shall be measured in order to account for the lack of natural grades and the anticipated filling of the lowered and generally flat grades currently existing at the Peak 8 base area.

- (iv) a Class A development permit acceptable to Developer consistent with the Master Plan Amendment and allowing for the development of the Sale Parcel to accommodate: a four star, flagged, luxury hotel containing approximately 150 rooms; approximately 110,000 square feet of residential condominiums; approximately 11,000 square feet of commercial; and approximately 10,300 square feet of Guest Services and Support Facilities (as defined in the Master Plan) space for acquisition and use by Owner (the "Permit");
- such permit as may be required by the Town to allow one or more temporary structures accommodating Owner's administration functions necessary or appropriate for the operation of the Breckenridge Ski Resort to be placed in locations acceptable to Owner-and, Developer, and Town on the Sale Parcel or elsewhere within the Property as determined by Owner-and, Developer, and Town and maintained in such locations until the proposed Guest Services Spaces are completed and ready for occupancy by Owner; provided, however, that all approved temporary structures shall be removed not later than the first to occur of: (i) the end of 60 days after the issuance of any final certificate of occupancy for the Proposed Development, or (ii) 7 years after the date of initial substantial construction (as defined in the Town Code) of the Proposed Development; and
- (vi) a Class B subdivision permit approving the subdivision of the Property to create the Sale Parcel;

and

(b) the passage of any time periods within which any referendums, appeals or other challenges to such approvals must be brought, without any such referendums, appeals or other challenges having been filed, commenced or asserted, or, if filed, commenced or asserted, after any such appeal, referendum or challenge is resolved with affirmation that this Agreement is effective,

then Developer shall:

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- (A) pay \$125,000 to the Town to be applied to the improvement and maintenance of the Town's Cucumber Gulch property or as otherwise directed by the Town Council;
- (B) prior to the issuance of a building permit for the development of the Sale Parcel as contemplated by this Agreement, cause Owner, subject to (1) Owner's satisfaction that any existing approvals associated with the property covered by the Gondola Lots Master Plan and/or Development Permit PL-2016-0003 will remain fully effective except for a reduction of the density by the amount of density transferred and (2) Developer's satisfaction of all conditions to Owner's transfer of density to the Sale Parcel under any agreement relating thereto, to enter into a density transfer covenant with the Town, in a form substantially similar to the previous density transfer covenant between Owner and the Town executed and recorded in connection with the Gondola Lots Master Plan, to transfer from the property covered by the Gondola Lots Master Plan the density required to support the total residential and commercial density authorized by the Permit minus the residential density of 71.6 SFEs and the commercial density of 9.0 SFEs remaining available for the Sale Parcel under the Master Plan; provided, however, that nothing in this Agreement requires the Town to renew the Gondola Lots Master Plan and/or Development Permit PL-2016-0003 when such documents expire.
- (C) prior to the issuance of any certificate of occupancy for the Proposed Development, provide standard form Town employee housing covenants restricting the use of 20.000 square feet of previously unrestricted residential housing units as employee housing, provided that such portion of the in an amount equal to the difference between 20,000 square feet (the total square footage as isof employee housing Developer has committed to restrict) and that square footage of employee housing applied by Developer in connection with the to obtain an allocation of up to 10 positive points under Subsection 9-1-19-24R of the Town's Development Code will be included as part of and not in addition to such 20,000 square feet;. The difference between 20,000 square feet of employee housing and that square footage of employee housing applied by Developer to obtain an allocation of up to 10 positive points under Subsection 9-1-19-24R of the Town's Development Code shall be treated as a commitment to the Town under Section 9-9-4 of the Breckenridge Town Code.
- (D) prior to issuance of a certificate of occupancy for the portion of the Proposed Development that includes the approximately 1,500 square feet of space for the BOEC, enter into a lease providing for a term of at least fifty (50) years and rent of \$1.00 per year and otherwise mutually acceptable to Developer and the BOEC;

- (E) prior to the issuance of any certificate of occupancy for the Proposed Development, establish with the Town an environmental improvement fund dedicated to drainage and similar improvements to protect the Town's Cucumber Gulch property funded by a fee of \$2.00 per paid room night to be added to the amount paid for rentals of the hotel rooms in the Proposed Development, and only those hotel rooms, for a period of tentwenty (1020) years from the date a certificate of occupancy is issued for the hotel component of the Proposed Development. Such funds shall be transferred to Town in accordance with a schedule to be established by the Finance Director of the Town;
- (F) upon issuance of the final certificate of occupancy for the Proposed Development, to provide such document as is reasonably acceptable to the Town to provide for the abandonment of any right of access to the Sale Parcel from Saw Mill Run Road. The parties understand and acknowledge that to completely eliminate any potential public right of access to the Sale Parcel from Saw Mill Run Road (and the extension thereof across what has been denominated as "County Road 709") it will be necessary for the Town to vacate County Road 709 in the manner provided by law. The Town agrees to consider a request to vacate County Road 709 pursuant to Chapter 4 of Title 11 of the <u>Breckenridge Town Code</u>;
- (G) upon and subject to completion of the Barton Landing Apartments, either to cause Peak 8 Properties, LLC, an affiliate of Developer, to comply with the terms of the Lease previously entered into by said Peak 8 Properties with Barton Creek Development, LLC for such apartments or to assume the rights and obligations under such Lease from Peak 8 Properties, LLC; and
- prior to issuance of the final certificate of occupancy for the proposed (H) development on the Sale Parcel, enter into such agreement as the Town reasonably may require to provide for the following: At the end of the first year after issuance of a final certificate of occupancy for the Proposed Development and every year thereafter for the first 5 years after issuance of such final certificate of occupancy, the Developer will provide a trip report to the Town. Trips will be defined as the number of trips into the garage plus the number of trip out of the garage on a daily basis. If during any single calendar month of each of such 5 years the number of trips exceeds an average of 1,600 trips per day, for every 100 trips in excess of 1,600 the Developer will acquire and transfer 1 additional shuttle van to the Breckenridge Mountain Master Association ("BMMA"). Until such time as the threshold described in the preceding sentence has been reached the residents and guests of the Proposed Development shall have access to the transportation (van) system operated by the BMMA in the same manner as is provided to other properties located within the boundaries of the BMMA. Prior to the issuance of a certificate of occupancy for the Proposed

Development a letter from the BMMA confirming the same shall be provided to the Town.

(c) All of the Developer's obligations set forth in this Section 1 that will extend beyond completion of the Proposed Development shall be set forth in one or more restrictive covenants to be executed by the Developer and the Town and recorded in the real property records of the Clerk and Recorder of Summit County. Colorado. The form of the restrictive covenants shall be acceptable to the Developer's counsel and the Town Attorney.

2. Pursuant to Subsection 9-1-19:39.I.(2) of the Development Code, the Town's Planning Commission is hereby authorized to review and approve, within 1 year of the Effective Date and subject to compliance with all other applicable development policies of the Town, both an application for the Master Plan Amendment and an application for the Permit allowing for the additional density and other terms and conditions provided for in this Agreement.

 3. Subject to the Department's receipt of adequate assurances of or security for completion of the authorized infrastructure improvements or return of the Sale Parcel generally to the condition it was in before the commencement of any work, the Department, after final approval of the Master Plan Amendment and the Permit, is hereby authorized to permit the demolition of Administration Facilities and the excavation for and construction of infrastructure improvements, including, but not limited to, construction of storm water management facilities, relocation of utilities, and site excavation, after issuance of the Permit but before issuance of a building permit.

 4. Except as provided in Section 24-68-105, C.R.S. and except as specifically provided for herein, the execution of this Agreement shall not preclude the current or future application of municipal, state or federal ordinances, laws, rules or regulations to the Property (collectively, "laws"), including, but not limited to, building, fire, plumbing, engineering, electrical and mechanical codes, and the Town's Development Code, Subdivision Standards and other land use laws, as the same may be in effect from time to time throughout the term of this Agreement. Except to the extent the Town otherwise specifically agrees, any development of the Sale Parcel which is the subject of this Agreement, the Master Plan Amendment and the Permit shall be done in compliance with the then-current laws of the Town.

5. Nothing in this Agreement shall preclude or otherwise limit the lawful authority of the Town to adopt or amend any Town law, including, but not limited to the Town's: (i) Development Code, (ii) Master Plan, (iii) Land Use Guidelines and (iv) Subdivision Standards.

6. Prior to any action against the Town for breach of this Agreement, Developer shall give the Town a sixty (60) day written notice of any claim by the Developer of a breach or default by the Town, and the Town shall have the opportunity to cure such alleged default within such time period.

7. The Town shall not be responsible for and the Developer shall have no remedy against the Town if the development of the Sale Parcel is prevented or delayed for reasons beyond the control of the Town.

8. Actual development of the Sale Parcel shall require the issuance of such other and further permits and approvals by the Town as may be required from time to time by applicable Town ordinances.

9. No official or employee of the Town shall be personally responsible for any actual or alleged breach of this Agreement by the Town.

Developer with respect to its interests or benefits provided for in paragraphs 1, 2, and 3 agrees to indemnify and hold the Town, its officers, employees, insurers, and self-insurance pool, harmless from and against all liability, claims, and demands, on account of injury, loss, or damage, including without limitation claims arising from bodily injury, personal injury, sickness, disease, death, property loss or damage, or any other loss of any kind whatsoever, which arise out of or are in any manner connected with such benefits under this Agreement, if such injury, loss, or damage is caused in whole or in part by, or is claimed to be caused in whole or in part by, the negligence or wrongful intentional act or omission of Developer; any subcontractor of Developer, or any officer, employee, representative, or agent of Developer or of any subcontractor of Developer, or which arise out of any worker's compensation claim of any employee of Developer, or of any employee of any subcontractor of Developer; except to the extent such liability, claim or demand arises through the negligence or intentional act or omission of Town, its officers, employees, or agents. Developer agrees to investigate, handle, respond to, and to provide defense for and defend against, any such liability, claims, or demands at the sole expense of the Developer. Developer also agrees to bear all other costs and expenses related thereto, including court costs and attorney's fees.

 11. If any provision of this Agreement shall be invalid, illegal or unenforceable, it shall not affect or impair the validity, legality or enforceability of the remaining provisions of the Agreement.

12. This Agreement constitutes a vested property right pursuant to Article 68 of Title 24, Colorado Revised Statutes, as amended.

13. No waiver of any provision of this Agreement shall be deemed or constitute a waiver of any other provision, nor shall it be deemed to constitute a continuing waiver unless expressly provided for by a written amendment to this Agreement signed by both Town and Developer; nor shall the waiver of any default under this Agreement be deemed a waiver of any subsequent default or defaults of the same type. The Town's failure to exercise any right under this Agreement shall not constitute the approval of any wrongful act by the Developer or the acceptance of any improvements.

1 14. This Agreement shall be binding upon and inure to the benefit of Town and 2 Developer, and their successors and assigns.

- 15. If and only if Developer has acquired title to the Sale Parcel, this Agreement shall be recorded in the office of the Clerk and Recorder of Summit County, Colorado promptly after Developer has acquired title to the Sale Parcel and all documents required to be recorded in connection with such acquisition of title have been recorded, and, thereafter, shall run with title to the Property.
- 16. Nothing contained in this Agreement shall constitute a waiver of the Town's sovereign immunity under any applicable state or federal law.
- 17. Personal jurisdiction and venue for any civil action commenced by either party to this Agreement shall be deemed to be proper only if such action is commenced in District Court of Summit County, Colorado. The Developer and Town expressly waive their right to bring such action in or to remove such action to any other court, whether state or federal.
- 18. Any notice required or permitted hereunder shall be in writing and shall be sufficient if personally delivered or mailed by certified mail, return receipt requested, addressed as follows:

17		
18	If to the Town:	Rick Holman, Town Manager
19		Town of Breckenridge
20		P.O. Box 168
21		Breckenridge, CO 80424
22	With a copy (which	
23	shall not constitute	
24	notice to the Town) to:	Timothy H. Berry, Esq.
25		Town Attorney
26		P.O. Box 2
27		Leadville, CO 80461
28		
29	If to the Developer:	Graham Frank
30		Lionheart BGV Ventures, LLC
31		100 S. Main Street
32		P.O. Box 6879
33		Breckenridge, CO 80424
34	With a copy (which	
35	shall not constitute	
36	notice) to:	Jessica Wasserstrom
37		Lionheart Capital, LLC
38		4218 NE 2 nd Avenue, 2 nd Floor
39		Miami, FL 33137
40	With a copy (which	

	shall not constitute	
)	notice) to:	John L. Palmquist, Esq.
;		GC Legal Strategies
-		2520 S. St. Paul Street
í		Denver, CO 80210
)		
•	With a copy (which	
}	shall not constitute	
	notice) to:	Vail Resorts Management Company
		390 Interlocken Crescent
		Broomfield, CO 80021
		Attn: Legal Department
	Notices mailed in accordance with	the provisions of this paragraph shall be deemed to have been
	given upon delivery. Notices per	rsonally delivered shall be deemed to have been given upon
	• • •	phibit the giving of notice in the manner provided for in the
	Colorado Rules of Civil Procedure	
		-
	19. This Agreement con	nstitutes the entire agreement and understanding between the
	parties relating to the subject mate	ter of this Agreement and supersedes any prior agreement or
	understanding relating to such subj	ect matter.
	20. This Agreement sha	all be interpreted in accordance with the laws of the State of
	Colorado.	
	IN WITNESS WHEREOF,	the Town and the Developer have executed this Agreement as
	of the date first above set forth.	
		TOWN OF BRECKENRIDGE
	Attest:	
		By:
	Helen Cospolich, CMC, Town Cle	rk Rick G. Holman, Manager

1	STATE OF COLORADO)	
2 3) ss. COUNTY OF SUMMIT)	
4	,	
5	The foregoing was acknowledged be	fore me this,
6	201 by Rick G. Holman as Town Manager	and Helen Cospolich, CMC, as Town Clerk of the
7	Town of Breckenridge.	
8		
9	Witness my hand and official seal.	
10	My commission expires:	_
11		
12		
13		Notary Public
14		
15		LIONHEART BGV VENTURES, LLC
16		a Colorado limited liability company
17		
18		
19		.
20		Ву:
21		, Manager
22		
23		
24		
25	STATE OF COLORADO)	
26) SS.	
27	COUNTY OF SUMMIT)	
28 29	The foregoing was calmouledged be	for me this day of
30		fore me this day of, nager of Lionheart BGV Ventures, LLC, a Colorado
31	limited liability company.	lager of Liolineart BOV Ventures, LLC, a Colorado
32	minited hability company.	
33	Witness my hand and official seal.	
34	My commission expires:	
35	wy commission expires.	_
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37		Notary Public
38		Trouity I dolle
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41 42		
→ ∠		
43	1800-508\Dev Ag Lionheart-BGV Development Agreement (07-05-1	8)(Second Reading)
44		



Memo

To: Breckenridge Town Council Members

From: Tim Berry, Town Attorney

Date: 7/2/2018

Subject: Council Bill No. 17 (Amendment to Ratio for Density Provided by Town for Attainable

Workforce Housing Projects)

The second reading of the ordinance amending the ratio of Town-owned density that is provided for attainable workforce housing from 1:4 to 1:2 is scheduled for your meeting on July 10th. There are no changes proposed to ordinance from first reading.

I will be happy to discuss this matter with you on Tuesday.

FOR WORKSESSION/SECOND READING – JULY 10

2			
3	NO CHANGE FROM FIRST READING		
4			
5	Additions To The Current Breckenridge Town Code Are		
6	Indicated By Bold + Double Underline ; Deletions By Strikeout		
7			
8	COUNCIL BILL NO. 17		
9			
10	Series 2018		
11	AN ODDINANCE AMENDING DOLIGY 2 (ADGOLUTE)("DENGITY INTENGITY") OF		
12 13	AN ORDINANCE AMENDING POLICY 3 (ABSOLUTE)("DENSITY/INTENSITY") OF SECTION 9-1-19 OF THE BRECKENRIDGE TOWN CODE, KNOWN AS THE		
13	"BRECKENRIDGE DEVELOPMENT CODE," CONCERNING THE AMOUNT OF		
15	DENSITY TO BE TRANSFERRED BY THE TOWN IN CONNECTION WITH THE		
16	DEVELOPMENT OF AN ATTAINABLE WORKFORCE HOUSING PROJECT; AND		
17	MAKING A CONFORMING AMENDMENT TO THE <u>BRECKENRIDGE TOWN CODE</u>		
18	WARRING A CONTORWING AMENDMENT TO THE <u>BRECKENRIDGE TOWN CODE</u>		
19	BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF BRECKENRIDGE,		
20	COLORADO:		
21			
22	Section 1. Section 9-1-5 of the Breckenridge Town Code is amended by the addition of		
23	the following definition:		
24			
	ATTAINABLE WORKFORCE Has the meaning provided in Section 9-1-		
	HOUSING PROJECT: 14 of this Code.		
25			
26	Section 2. Section (E)(1) of Policy 3(Absolute)("Density/Intensity") of Section 9-1-19 of		
27	the <u>Breckenridge Town Code</u> is amended to read in its entirety as follows:		
28			
29	E. Density for Attainable Workforce Housing Projects		
30			
31	(1) When new attainable workforce housing projects are developed within the		
32	corporate limits of the Town, the Town government shall transfer density it owns		
33 34	to the attainable workforce housing project at a 1:4 1:2 ratio (i.e., transfer one		
3 4 35	development right for every <u>four <u>two</u> attainable workforce housing project units permitted to be built).</u>		
36	permitted to be built).		
37	Section 3. Except as specifically amended hereby, the Breckenridge Town Code, and the		
38			
39	3.2. 3.2. 3.1. 10100 and process of reference divions, shall continue in full force and effect.		
40	Section 4. The Town Council hereby finds, determines and declares that this ordinance is		
41	necessary and proper to provide for the safety, preserve the health, promote the prosperity, and		

2	improve the order, comfort and convenience of the Town of Breckenridge and the inhabitants thereof.
3 4	Section 5. The Town Council hereby finds, determines and declares that it has the power
5	to adopt this ordinance pursuant to: (i) the Local Government Land Use Control Enabling Act,
6	Article 20 of Title 29, C.R.S.; (ii) Part 3 of Article 23 of Title 31, C.R.S. (concerning municipal
7	zoning powers); (iii) Section 31-15-103, C.R.S. (concerning municipal police powers); (iv)
8	Section 31-15-401, C.R.S.(concerning municipal police powers); (v) the authority granted to
9	home rule municipalities by Article XX of the Colorado Constitution; and (vi) the powers
0	contained in the Breckenridge Town Charter.
1	
2	Section 6. This ordinance shall be published and become effective as provided by Section
3	5.9 of the Breckenridge Town Charter.
4	
15	INTRODUCED, READ ON FIRST READING, APPROVED AND ORDERED PUBLISHED
6	IN FULL this day of, 2018. A Public Hearing shall be held at the regular meeting of
7	the Town Council of the Town of Breckenridge, Colorado on the day of, 2018, at 7:00
8	P.M., or as soon thereafter as possible in the Municipal Building of the Town.
9	TOWN OF BRECKENRIDGE, a Colorado
20	municipal corporation
22	municipal corporation
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21 22 23 24 25 26	
25	By:
26	By: Eric S. Mamula, Mayor
27	·
28	ATTEST:
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32 33	Halan Casaslish CMC
3 34	Helen Cospolich, CMC, Town Clerk
35	Town Clerk
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500-396\Attainable Workforce Housing Density Ordinance_2 (07-02-18)(Second Reading)



Memo

To: Breckenridge Town Council Members

From: Eli Johnston, Chief Building Official

Date: 7/2/2018

Subject: Request to Adopt the 2017 National Electrical Code

The Town regularly adopts updates to its various building and electric codes, after national or international model codes are updated. The Town is currently operating under the 2014 National Electrical Code (NEC). The 2017 NEC has now been released. Our Building Division staff have analyzed the 2017 NEC and have held a builder's forum in conjunction with Summit County to give the public a chance to comment prior to adoption. No substantive comments or suggestions were provided at that public forum. Therefore, staff is recommending that the Council adopt the 2017 NEC without any amendments. The attached ordinance will adopt the 2017 NEC. Staff will be available for any questions Council may have.

FOR WORKSESSION/FIRST READING – JULY 10

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3	Additions To The Current Breckenridge Town Code Are
4	Indicated By <u>Bold + Double Underline</u> ; Deletions By Strikeout
5	
6	COUNCIL BILL NO
7	
8	Series 2018
9	
10	
11	AN ORDINANCE AMENDING CHAPTER 1 OF TITLE 8 OF THE <u>BRECKENRIDGE</u>
12	TOWN CODE CONCERNING THE BUILDING CODES OF THE TOWN OF
13	BRECKENRIDGE BY ADOPTING BY REFERENCE THE <u>NATIONAL ELECTRICAL</u>
14	<u>CODE</u> , 2017 EDITION
15	
16	BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF BRECKENRIDGE,
17	COLORADO:
18 19	Section 1. Item E in the list of codes adopted by reference in Section 9.1.2 of the
20	Section 1. Item F in the list of codes adopted by reference in Section 8-1-3 of the Breckenridge Town Code is amended as follows:
21	<u>Dieckennage Town Code</u> is amended as follows.
21	F. National Electrical Code, 2014 2017 Edition, published by the National Fire
23	Protection Association.
24	Trocollon Association.
22 23 24 25	Section 2. Section 8-1-9 of the Breckenridge Town Code is amended to read as follows:
26	Section 2. Section 6.1.5 of the <u>Broomings</u> 10 mm (Section 6.1.5)
27	8-1-9: AMENDMENTS TO THE NATIONAL ELECTRICAL CODE: There
28	are no amendments to the National Electrical Code, 2014 2017 edition.
29	
30	Section 3. Except as specifically amended hereby, the Breckenridge Town Code, and the
31	various secondary codes adopted by reference therein, shall continue in full force and effect.
32	
33	Section 4. The Town Council finds, determines and declares that it has the power to
34	adopt this ordinance pursuant to: (i) Section 31-15-601, C.R.S.; (ii) Section 5.13 of the
35	Breckenridge Town Charter; and (iii) the powers granted to home rule municipalities by Article
36	XX of the Colorado Constitution.
37	
38	Section 5. This ordinance shall be published and become effective as provided by Section
39	5.9 of the Breckenridge Town Charter.
1 0	NUMBER OF VICES OF A DOLLED OF DEAD OF A DOLLED AND ORDERED
41 42	INTRODUCED, READ ON FIRST READING, APPROVED AND ORDERED
42 42	PUBLISHED IN FULL this day of, 2018. A Public Hearing shall be held at the
13 14	regular meeting of the Town Council of the Town of Breckenridge, Colorado on the day of
14 15	, 2018, at 7:00 P.M., or as soon thereafter as possible in the Municipal Building of the Town.
tJ	IUWII.

1 2		TOWN OF BRECKENRIDGE, a Colorado
3		municipal corporation
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7		By:
8 9		By: Eric S. Mamula, Mayor
10	ATTEST:	
11	TITLST.	
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15	Helen Cospolich, CMC,	
16	Town Clerk	
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44 45	500-397 2017 National Electrical Code Ordin	nance_2 (07-02-18)



Memo

To: Breckenridge Town Council

Cc: Rick Holman, Shannon Haynes

From: Jessie Burley - Sustainability Coordinator

James Phelps - Director Public Works

Date: July 5, 2018 (for July 10, 2018 meeting)

Subject: Breckenridge Water Efficiency Plan (WEP) and Blue River Regional WEP

2018 Town Council Goals and Objectives

Area of Focus: Water Sustainability

<u>Goal</u>: Develop and maintain a reliable, sustainable, clean drinking water supply for the Town of Breckenridge and the surrounding service area in the Upper Blue Planning region.

<u>Objective</u>: 1. Develop and enhance the water conservation program by educating the users about water use and develop water conservation incentives to users.

Background

In 2015, the State of Colorado adopted the <u>Colorado Water Plan</u> that outlined a "strategy roadmap" to understand where we are as a state and where we want to be with relation to our water resources. In an effort to implement the state plan, the Colorado Water Conservation Board (CWCB) allocated grant funding to communities to develop regional water efficiency plans at the local level. Although the Town of Breckenridge has remained below CWCB's threshold for retail water sales that trigger a mandatory efficiency plan (2,000 ac-ft/yr), the Town, along with neighboring water providers, looks to set an example for other mountain communities in preserving the natural environment and promoting conservation values.

Town of Breckenridge and Blue River Regional Water Efficiency Plans

The following water efficiency plans were developed in accordance with the State of Colorado's Municipal Water Efficiency Plan Guidance Document and was funded in part through a CWCB Water Conservation Planning grant. The Town's individual plan was developed in coordination with the Blue River Watershed regional water efficiency plan through a partnership that included two non-profit organizations, four municipal water providers, and more than 30 engaged stakeholders. This water efficiency plan serves to describe the Town's history of water saving activities and future plans. The Town also seeks to leverage regional partnerships to effect change and encourage all residents and visitors to reduce water use. Adoption of these plans will allow the Town of Breckenridge to be eligible for future water efficiency implementation and infrastructure state funding.

Outcome of Planning Process

WEP Water Efficiency Goals

A 10% reduction in annual demands by 2025, compared to 2016 demands.

A reduction in peak demands during the summer associated with outdoor water use.

To reach these goals, the WEP identifies future activities that were derived from multiple factors that included utility priorities, stakeholder input, opportunities for water savings, technical feasibility, and implementation capacity. When feasible, the efficiency activities were quantified in terms of their potential for water savings, customer sectors and end-uses impacted by the activities, and implementation costs. A summary of activities that the Town aims to implement over the next seven years begins on page 26 of the WEP.

Public Process

A draft of this plan was presented to Council on February 6, 2018. The Water Conservation Act of 2004 (HB04-1365) requires that water efficiency plans be made publicly available for review and comment for a period of 60 days, and that the plans be locally adopted by the appropriate governing entity. Following the public comment period, CWCB conditionally approved the plans with the following changes to the February 6th Town of Breckenridge plan draft:

- Section 6.1.1 Annual Treated Water added more data as requested.
- Section 8 Efficiency Activities revised to estimate savings and added more detail re: indoor
 efficiency program; revised outdoor efficiency to reflect participation in Slow the Flow program;
 added more detail about the land use working group.
- Section 9.2 Plan Reviews and Updates added "evidence" from public comment period.
- Appendix C Implementation Action Plans updated to represent recent activity; combined indoor and outdoor groups into 1 "technical efficiency programs" group.
- Appendix D Plan Reviews and Comments added CWCB comments and public responses.

Upon final adoption of the Breckenridge Water Efficiency Plan and the Blue River Regional Water Efficiency Plan Resolution, both plans will be submitted to CWCB for the State's final approval. Once approved by CWCB, the Town will be eligible to apply for state funding towards implementing the goals outlined in the plan.

Staff will be present to answer questions of Town Council. Staff will be seeking support of resolution adoption of the two water efficiency plans.

FOR WORKSESSION/ADOPTION – JULY 10 1 2 3 RESOLUTION NO. ____ 4 5 Series 2018 6 7 A RESOLUTION ADOPTING THE "BLUE RIVER WATERSHED REGIONAL WATER 8 EFFICIENCY PLAN" AND THE "TOWN OF BRECKENRIDGE 9 WATER EFFICIENCY PLAN" 10 11 WHEREAS, the Town of Breckenridge ("Town") is supportive of wise water 12 management and efficient use of water resources, and 13 14 WHEREAS, the Town is committed to water resources sustainability and water 15 conservation; and 16 17 WHEREAS, the Town is also supportive of regional water planning and cooperation 18 between jurisdictions in the realm of water management; and 19 20 WHEREAS, a water efficiency plan is a valuable tool to implement sustainability 21 through responsible water management and conservation measures; and 22 23 WHEREAS, the Town was a full participant and funding partner in the development of 24 the "Blue River Watershed Regional Water Efficiency Plan," dated June 2018 ("Regional Plan"); 25 and 26 27 WHEREAS, the Regional Plan was authorized and funded through a Memorandum of Understanding between the Summit County's five municipal water providers, including the 28 29 Town, which outlined the goals, objectives, and purposes of the Regional Plan; and 30 31 WHEREAS, the Town acknowledges that the "Regional Plan" has been produced in 32 conformance with the understandings and agreements among the parties to the Memorandum of 33 Understanding; and 34 WHEREAS, the Town will continue to work cooperatively with other local agencies and 35 interests to determine appropriate and timely water efficiency measures consistent with the 36 Town's responsibilities to protect, deliver, treat and otherwise manage the Town's municipal 37 water system; and 38 WHEREAS, a copy of the Regional Plan is marked Exhibit "A", attached hereto, and 39 incorporated herein by reference; and 40 41 WHEREAS, the Town Council has reviewed the Regional Plan, and is familiar with its 42 contents: and

1	WHEREAS, Town Council was previously presented with a draft water efficiency plan
2	entitled "Town of Breckenridge Water Efficiency Plan, dated June 2018" ("Town Plan"), which
3	plan was specifically created for the Town by Town staff, the High Country Conservation
4	Center, and the Brendle Group; and
5	-
6	WHEREAS, a copy of the Town Plan is marked Exhibit "B", attached hereto, and
7	incorporated herein by reference; and
8	
9	WHEREAS, the Town Council has reviewed the Town Plan, and is familiar with its
10	contents; and
11	
12	WHEREAS, the Town understands the needs and benefits of long term water
13	conservation measures and is committed to implementation of the Town Plan; and
14	
15	WHEREAS, the Town Council desires to formally adopt both the Regional Plan and the
16	Town Plan; and
17	
18	WHEREAS, the Town Council desires that both the Regional Plan and the Town Plan be
19	submitted to the Colorado Water Conservation Board for approval.
20	
21	NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF
22	BRECKENRIDGE, COLORADO:
23	
24	Section 1. The Regional Plan is adopted as a guidance document to be consulted and
25	implemented by the Town to the extent that such implementation is consistent with, and
26	supportive of, Town assets, actions, programs, ordinances, policies, and procedures, and to the
27	extent that implementation actions may be approved by the Town on a case by case basis.
28	
29	Section 2. The Town Plan is adopted, and shall be utilized as the primary resource for
30	water efficiency in the Town of Breckenridge.
31	
32	Section 3. Both the Regional Plan and the Town Plan shall be submitted to the Colorado
33	Water Conservation Board for approval.
34	
35	Section 4. This resolution is effective upon adoption.
36	DEGOLUTION ADDROLLED AND ADODEED 11. 1 C 2010
37	RESOLUTION APPROVED AND ADOPTED this day of, 2018.
38	
39	
40	

1 2			TOWN OF BRECKENRIDGE
3 4 5 6			By: Eric S. Mamula, Mayor
7 8 9 0	ATTEST:		
1 .2 .3	Helen Cospolich, CMC,	_	
14	Town Clerk		
16 17 18	APPROVED IN FORM		
.9 20 21	Town Attorney	Date	-
21 22 23 24 25 26 27 28 29 31 33 33 34 35	Town Accorney	Date	
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500-398\Water Efficiency Plans Resolution (07-04-18)



BLUE RIVER WATERSHED REGIONAL WATER EFFICIENCY PLAN

June 2018













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Developed in partnership with:



BLUE RIVER WATERSHED REGIONAL WATER EFFICIENCY PLAN EXECUTIVE SUMMARY



The Planning Process

In 2017, High Country Conservation Center and five water providers in Summit County:











partnered for the development of a regional water efficiency plan along with individual plans for four of the five providers (excluding Town of Silverthorne) to represent the unique needs and opportunities for each service area. This regional plan elevates common themes and water saving opportunities outside of the participating utility service areas and provides opportunities for partnership and collaboration among the participating utilities.

Vision Statement

The vision of the Blue River Watershed Regional Water Efficiency Plan is to continue supplying **reliable**, **high quality water** to the residents and visitors of Summit County while also:



Protecting the natural environment upon which our economy and prosperity are based.



Ensuring the sustainability of our mountain lifestyle for current and future generations.



Fostering a culture of environmental and social responsibility through education and action.



Inspiring collaboration and responsible stewardship of water resources across the State of Colorado.



Overview

The Blue River watershed is located on the western slope of the Continental Divide and its drainage boundaries are coincident with the political boundaries of Summit County.



Water supply in the Blue River watershed relies on a combination of surface water diversions, groundwater withdrawals, and reservoir releases. Surface water supplies 83% of the demands in the watershed.



There are 19 water providers in the Blue River watershed within Summit County: four municipal providers and 15 special district water providers.



Approximately 61% of the water use in the county is delivered by the 4 providers that have developed individual water efficiency plans - Town of Breckenridge, Copper Mountain Consolidated Metropolitan District, Town of Dillon, and Town of Frisco and is additionally covered by the individual water efficiency plans developed by these providers.

Each water provider in the county is unique in their raw water sources, system size, mix of residential and commercial customers served, and staffing and financial resources. However, some general observations can be made across providers.



Although the water providers are not large compared to many systems on the Front Range, they tend to be advanced in terms of metering and systemwide leak detection programs.



Outdoor water use tends to be relatively low, ranging from 15-25% of average annual demands.



The systems do experience high peak loads from outdoor irrigation in the summer months, with demands doubling compared to winter months.



The systems tend to run with a **small**, **but dedicated and engaged staff**, who cover multiple functions including water planning, operations, and efficiency.

Through the variety of activities listed below, 377 acre-feet per year of water is projected to be saved by 2025.



Billing upgrades



Advanced metering and water loss control



Institutional collaboration



Indoor and outdoor efficiency programs



Improving land use ordinances and regulations



Education and outreach

Implementation and monitoring will be conducted through standing working groups and in partnership with High Country Conservation Center. Plans will be revisited and updated every 7 years as per Colorado Water Conservation Board guidelines.



2 ACKNOWLEDGEMENTS

High Country Conservation Center would like to thank Katlin Miller at Middle Park Conservation District for her leadership in convening this project, as well as the following staff members and stakeholders who contributed to this water efficiency plan:

High Country Conservation Center

Jessica Burley Jen Schenk Troy Wineland

Middle Park Conservation District

Katlin Miller

Town of Breckenridge

Peter Grosshuesch Laura Lynch

Copper Mountain Metro District

Allison Fulton Rob Martin Ed Pankevicius

Town of Dillon

Robert Buras Scott O'Brien

Town of Frisco

Joyce Allgaier Jeff Goble Katie Kent Dave Koop

Town of Silverthorne

Susan Lee Zach Margolis Chris Shelden Julie Stennes

Brendle Group

Becky Fedak Derek Hannon Becca Stock Amy Volckens

Other Stakeholders

Alan Bacher – Summit Chamber of Commerce
Woody Bates – Summit County School District
Graeme Bilenduke - Copper Mountain Resort
Alan Blado – Liquid Descent Rafting
Abbey Browne – WoodWinds Property Management
Kevin Byrne – Vail Resorts
Mark Cassalia – Denver Water
Shellie Duplan – Buffalo Mountain Metro District
Brett Gracely – Colorado Springs Utility
Greg Hardy – Trout Unlimited
Dan Hendershott – Summit County
Stephen Hill – Snake River Water District

Jeff Leigh – Mesa Cortina

John Longhill – Friends of Lower Blue River Mike Nathan – Arapahoe Basin Ski Resort Tom Oberheide – Waterworks West

Bill Jackson - US Forest Service, Dillon District

Don Reimer - Summit County

Dave Schroeder - Colorado State University Extension

Elena Scott – Norris Design Gary Shimanowitz – Vail Resorts

Karn Stiegelmeier – Summit County Board of County

Commissioners

Ryan Taylor - Native Roots Dispensary

Ray Weller - Vail Resorts

Matt Wilits – Water Solutions Inc.

Scott Winter - Colorado Springs Utilities

Lane Wyatt - Northwest Colorado Council of Governments



3 Introduction

The Blue River watershed is one of the most critical water supply headwaters in Colorado, serving both West Slope and East Slope users. However, the water resources are stressed by a number of factors, including:

- Population growth: Since 1970, the population of the Blue River watershed within Summit
 County has grown exponentially, from a population of 2,665 in 1970 to a population of 30,367 in
 2016 (CO DOLA, 2018a). Population is expected to rise to more than 51,000 by 2050 (CO DOLA,
 2018a). As the resident population has grown, so too has the visiting population, with tourists
 taking advantage of the natural resources and recreational opportunities in the watershed.
- A changing climate: Warming temperatures, declining snowpack, and earlier snowmelt seasons are all predicted outcomes from the changing climate (CWCB 2014a). Summit County residents are already seeing adverse effects on snowpack and skiing, with local pleas to "make May great again!" to express the importance of preserving the local snow culture and landscape.
- Too many demands on the river: In dry years, most recently in 2002 and 2012, streamflows are depleted and there is not enough water in the rivers to meet all demands for recreation, snowmaking, irrigation, and other beneficial uses appropriated under Colorado's water law system (CWCB 2016). Although good progress has been achieved in some locations to maintain minimum streamflows for environmental benefits, there is much more to do. For many residents and visitors to the Blue River watershed, the purpose of water efficiency is to put more water back into the rivers.

Beyond this local context, the Blue River watershed is also critical to regional water supplies within the State of Colorado (

Figure 1) and the entire Colorado River Basin, which spans from Colorado to California. The Colorado River Compact of 1922 is a water-sharing agreement among the States of Arizona, California, Colorado, Nevada, New Mexico, Utah, and Wyoming that dictates each State's right to divert and use Colorado River water. Water conservation is one strategy that helps the State of Colorado put its share of the

Colorado River to maximum beneficial use with the intent of avoiding water shortages that could instigate legal conflicts among the signatory States.

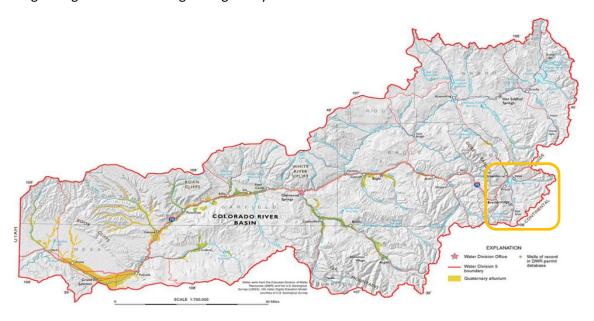


Figure 1. Map of the Colorado River Basin (Blue River watershed highlighted in yellow)

3.1 Why a water efficiency plan?

As a mountain community, home to world-class skiing, rafting, and fishing, water has long been a vital resource to the economy and culture of the Blue River watershed. The community seeks to be a leader in promoting conservation values and stewardship of natural resources. A recent study of the water supplies and demands in the Colorado River Basin lends urgency to these goals, finding that "high conservation, reuse, and linking water supply to land use are in the best interest of Colorado (CWCB 2014b)." The purpose of this regional water efficiency plan is to present the framework that residents, businesses, and communities will use to partner together to reduce water demands and to ease pressures on the natural environment.

3.2 The Planning Process

In 2017, High Country Conservation Center, Middle Park Conservation District, and five water providers in Summit County (Copper Mountain Consolidated Metropolitan District, Town of Breckenridge, Town of Dillon, Town of Frisco, and Town of Silverthorne) convened a project for the development of this regional water efficiency plan. Water efficiency plans were also developed for four of the individual water providers (excluding Town of Silverthorne) to represent the unique needs and opportunities for each service area. This regional water efficiency plan, developed for the Blue River Watershed within Summit County, elevates common themes and water saving opportunities outside of the participating service areas, and provides opportunities for partnership and collaboration amongst the participating utilities. Plan development was supported through a combination of grant funding from the Colorado Water Conservation Board (CWCB) under the Water Conservation Planning grant program, and cash and in-kind contributions from the participating providers.

The Water Conservation Act of 2004 (HB04-1365) requires all covered entities (defined as retail water providers that sell more than 2,000 ac-ft/yr) to have a State-approved water efficiency plan containing certain required minimum plan elements. While none of the water providers in Summit County currently meet the State's definition of a covered entity, they support the spirit and intent behind water conservation planning. Therefore, the water efficiency plans were developed in accordance with the State of Colorado's *Municipal Water Efficiency Plan Guidance Document* (CWCB 2012).

The plans were drafted using information and guidance provided by utility and planning staff in each community. Additionally, a diverse stakeholder group was formed to provide input on water savings goals, water efficiency activities, and implementation actions. In 2017, more than 30 stakeholders participated in a series of four planning workshops (baseline review, draft goals and efficiency activities, revised goals and efficiency activities, and implementation). Upon completion, the plans underwent a series of reviews by utility staff, the stakeholder group, the public, and CWCB staff. Finally, plans were submitted to the appropriate governing entity (town council or District board, as appropriate) for adoption.

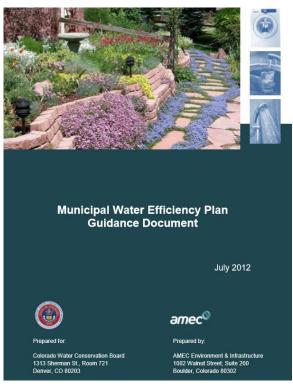


Figure 2. State of Colorado Municipal Water Efficiency Plan Guidance Document

3.3 Our Water Vision

The stakeholder group developed a vision statement to guide efforts in the Blue River Watershed towards regional water efficiency.

VISION STATEMENT

Our vision is for water providers to continue supplying reliable, high quality water to the residents and visitors of Summit County while also:

- Protecting the natural environment upon which our economy and prosperity are based.
- Ensuring the sustainability of our mountain lifestyle for current and future generations.
- Fostering a culture of environmental and social responsibility through education and actions.
- Inspiring collaboration and responsible stewardship of water resources across the State
 of Colorado.



4 RELATED STUDIES

This regional water efficiency plan builds on a number of collaborative plans that have been done previously in the Blue River Watershed within Summit County, many of which touch on water. A short description of related studies follows, starting with the most recent. The **References** section includes links to the plans that are available online.

 An Energy Action Plan for Summit County, Colorado (Xcel Energy, 2016) outlines goals and strategies for reductions in energy use and greenhouse gas emissions and increases in renewable energy sources. The plan is currently being implemented through a partnership among Xcel Energy, High Country Conservation Center, and a diverse stakeholder group.

How it relates to this plan

Several of the energy efficiency and outreach initiatives will be leveraged for water efficiency education and outreach. This approach is discussed more in **Section 8.**

• The Summit County Community Wildfire Protection Plan (Summit County, 2016) states that 99% of the County's population lives in areas adjacent to or intermingled with undeveloped lands, where the wildfire risks are much higher than in developed areas. Summit County has been heavily impacted by the pine beetle infestation, which has significantly increased the number of standing dead trees and the risk of severe wildfires.

How it relates to this plan

Water providers in Summit County have expressed concerns about the potential impacts of wildfires on water supply infrastructure and water quality. Among other goals, the wildfire protection plan recommends developing community maps that show the locations of water supplies for firefighting and implementing mitigation projects to protect water supply infrastructure.

 The Colorado Basin Implementation Plan (Colorado Basin Roundtable, 2015) evaluates water supplies and demands in the Colorado Basin and how water resources management affects ecosystem health, agriculture, safe drinking water, conservation, land use, and water administration.

How it relates to this plan

The plan concludes that the Blue River watershed will likely be facing a gap of 22,000-48,000 acre-feet per year (ac-ft/yr) between water supplies and demands by 2050, and therefore cannot be relied upon to provide increased transbasin diversions for water users on the Eastern Slope.

• The Blue River Watershed Source Water Protection Plan (The Greenlands Reserve, 2014) identifies risks to the Blue River and strategies for mitigating those risks.

How it relates to this plan

Water providers in Summit County have expressed concerns about the potential for source water contamination. Risks identified in the source water protection plan include groundwater contamination from dry cleaning chemicals and surface water contamination from hazardous waste spills along Interstate 70. Mitigation strategies include improving water sharing during emergencies, analyzing storage and supply capacities during emergency conditions, and protecting water supply infrastructure.

• The **Summit County Multi-Hazard Mitigation Plan** (AMEC, 2013) describes the risks and potential impacts of a variety of natural and manmade disasters to communities in Summit County. The risks range from avalanches to hazardous material releases. The report describes the relative risk of each hazard and the steps that can be taken to mitigate the disaster's impact.

How it relates to this plan

Identified hazards that would affect water supply include dam failures, droughts, floods, and wildfires. In response to the plan findings, several communities and water providers developed resiliency strategies:

- Summit County: Enhance flood protection of the Snake River collection system to prevent potential sanitary sewer overflows or inundation of critical facilities.
- Town of Blue River: Augment water supply with new cisterns for firefighting water capacity.
- Town of Silverthorne: Ensure continued water distribution during extended power outages.
- Buffalo Mountain Metropolitan District: Obtain backup power for water pumping stations.
- Hamilton Creek Metropolitan District: Establish a water supply interconnect.
- Multiple communities: Establish backup power connections for water treatment plants.
- The Summit County Countywide Comprehensive Plan provides guidance for policy decisions related to land use, development, environmental protection, economic development, and other topics.

How it relates to this plan

The Comprehensive Plan is currently being updated by County staff, but the 2009 version includes a number of guiding principles and strategies affecting water use and supply, as shown in **Table 1**.

Table 1. Summit County Countywide Comprehensive Plan Guidelines around Water Supply and Conservation (shown in bold) (Summit County, 2009)

Community Aspect	Goal	Strategies
Environment	Protect and enhance the quality and quantity of water resources in the County.	-Determine feasible water quality monitoring data that could be evaluated on an ongoing basis.
		-Identify opportunities to supplement stream flows and maximize water levels in Lake Dillon.
		-Work to develop and implement a countywide water conservation program.
		-Identify funding for reclamation of abandoned mines and mine tailings so that contaminant runoff into area streams and groundwater is eliminated or mitigated.
Housing	Maintain and ensure an adequate and diverse supply of local resident and affordable workforce housing in the County.	Create incentives to facilitate and spur the construction of additional accessory apartments in the County, such as working jointly with water and sewer districts to reduce the cost of water and sewer tap fees.
Community and Public Facilities	Ensure infrastructure is planned, funded, and built to support new development.	-Ensure that land uses in urban areas requiring sewer and water are served by public sewer and water systems. Urban development should be served by water systems and not by individual wells.
		-Develop stricter water conservation measures to be applied to new and existing development (e.g. xeriscape landscaping and installation of low-flow toilet requirements).
		-Develop incentives or ordinances to mitigate impacts on water resource infrastructure. These may include: receiving credit for water conservation, rain sensors, submetering, soil preparation, turf limitation, waste of water, median subsurface irrigation, or restrictive covenants ordinances.
	Development of community facilities and the extension of services should be carefully planned and coordinated with the Towns, special districts, and appropriate agencies.	-Design community and public facilities to conserve water and energy. -Continue to work cooperatively with the Northwest Colorado Council of Governments in determining water quality and quantity issues/needs.

• The White River National Forest Land and Resource Management Plan (USDA, 2002) outlines the Forest Service's goals and objectives for the management of the national forest.

How it relates to this plan

The Forest Service's goals include the protection of water resources within the national forest, including Blue River, Straight Creek, and North Ten Mile Creek:

- Ecosystem Health: Improve and protect watershed conditions to provide the water quality and quantity and soil productivity necessary to support ecological functions and intended beneficial uses.
- Multiple Benefits to People: Improve the capability of the national forests and grasslands to provide diverse, high quality outdoor recreation opportunities. This goal includes maintaining appropriate stream levels to support fishing, boating, and other water related recreation activities.
- Public Collaboration: Cooperatively work with local governments to address issues of common concern and to the extent possible maintain consistency with locally adopted master plans.

5 ABOUT THE BLUE RIVER WATERSHED

The Blue River watershed's drainage boundaries are coincident with the political boundaries of Summit County (**Figure 3**). The watershed, located on the western slope of the Continental Divide in central Colorado, is home to six municipalities (Blue River, Breckenridge, Dillon, Frisco, Montezuma, and Silverthorne) and four major ski resorts (Keystone/Vail Resorts, Breckenridge/Vail Resorts, Copper Mountain, and Arapahoe Basin). More than 80% of the watershed is public land associated with the Blue River State Wildlife Area, Arapahoe and White River National Forests, Eagles Nest Wilderness, Summit County Recreational Pathway System, and Top of the Rockies National Scenic Byway (Summit County, 2017a).



Figure 3. Map of the Blue River Watershed within Summit County (Summit County, 2017b)

5.1 Climate

The Blue River watershed within Summit County is situated at high elevations (ranging from 7,947 ft above mean sea level (amsl) at Green Mountain Reservoir to 14,270 ft amsl at Gray's Peak) on the windward side of the Rocky Mountains (Summit County, 2017a). Because of these orographic factors, the climate in the watershed is cool (average annual temperature of 38°F), experiences heavy snowfall in the winter (average annual 111 in) and receives lesser amounts of rain in the summer (average annual 17 in) (USA.com, 2017).

5.2 Population

Since 1970, the Blue River watershed within Summit County has experienced rapid population growth, though the permanent resident population remains relatively small at 30,367 people (**Figure 4**). About 53% of the population lives in unincorporated Summit County, while 47% of the population lives in incorporated areas (Summit County, 2017c). Looking forward, permanent residents in Summit County are expected to grow by 2.6% on average year-over-year through 2050 (CO DOLA, 2018a).

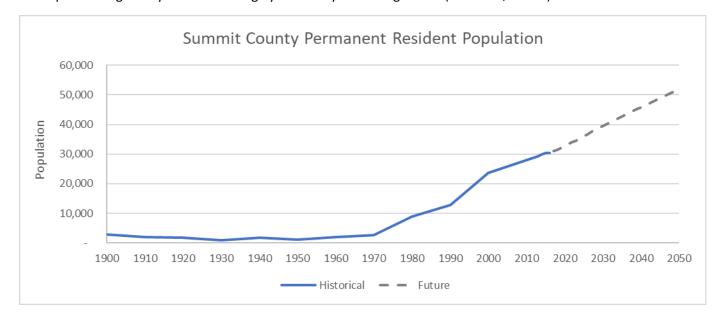


Figure 4: Summit County Permanent Resident Population Estimates (1900-2050) (CO DOLA, 2017)

In addition to the permanent residential population, the Blue River watershed within Summit County is home to many second homeowners and experiences a large influx of visitors due to the ski industry and other outdoor recreational opportunities.

5.3 Housing

Housing in the area reflects the characteristics of a recreational destination. One-third (33%) of the housing units are owner-occupied, 17% serve as long-term rental units, and 50% serve as short-term units intended for seasonal, recreational, or occasional use (ACS, 2015). Of the owner-occupied units, many are second homes that are occupied only occasionally throughout the year.

The average home age is about 30 years, with 80% of housing units built between 1979 and 1999 and 20% built from 2000 to present (ACS, 2015). Most of the housing units (57%) are designated as

multifamily properties with two or more units. The remaining 42% of housing units are designated as single-family detached and single-family attached homes.

The Summit County Planning Department analyzes the maximum number of residential housing units that are expected to be built based on current zoning and development feasibility. Current estimates are that residential development is at 73% of build-out in unincorporated areas of the County and at 83% of build-out in incorporated areas (Summit County, 2017d). These estimates are subject to change over time.

As relates to water efficiency, older buildings represent an opportunity for indoor water savings through the replacement of fixtures and appliances. The high proportion of multifamily units and the transient population characteristics represent challenges for water education and outreach efforts. To effect long-lasting water savings, the visiting population must be engaged and influenced.

5.4 Businesses and Employment

The Blue River watershed within Summit County is home to approximately 2,100 businesses and 18,600 jobs (ACS, 2015). Major employers include the four ski resorts – Keystone/Vail Resorts, Breckenridge/Vail Resorts, Copper Mountain, and Arapahoe Basin. Ski industry trends indicate continued gains in lodging revenue, summer business, and peak days boosted by holidays and special events (Summit Daily, 2015).

The remaining top ten employers include Summit County School District, Summit County, Town of Breckenridge, Breckenridge Grand Vacations, Centura Health, and Beaver Run (Bridge Hospitality LLC). There are also many food and service businesses that cater to the tourist economy.

Current estimates indicate that commercial development in unincorporated Summit County is at 62% of build-out, although the Summit County Planning Department does not currently conduct a detailed build-out analysis for the commercial sector (Summit County, 2017d).

6.1 Water Sources

Water supply in the Blue River watershed relies on a combination of surface water diversions, groundwater withdrawals, and reservoir releases (**Figure 5**). Surface water is by far the dominant source, supplying 83% of the demands in the watershed. The Blue River, Snake River, and Tenmile Creek are important tributaries in the watershed, formed by snowmelt runoff from the highest peaks of the Rocky Mountains on the western slope of the Continental Divide. These tributaries eventually discharge directly into Dillon Reservoir (see **Figure 3** for a map of these drainages). Releases from Dillon Reservoir into the Blue River channel flow downstream until entering another on-channel storage reservoir, Green Mountain Reservoir. Releases from Green Mountain Reservoir flow downstream out of Summit County and to the confluence with the Colorado River in Grand County, CO.

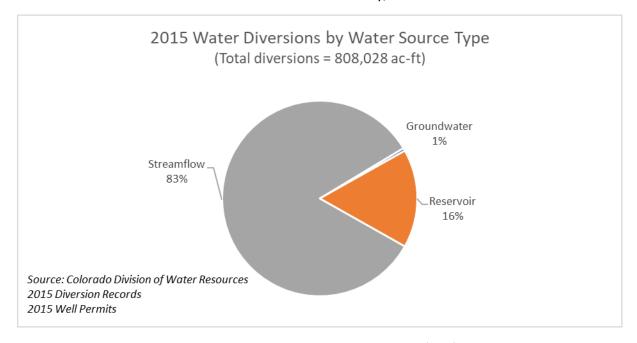


Figure 5. Water Diversions by Source Water Type (2015)

The Blue River watershed contains a number of storage reservoirs that supply water to meet 16% of the demands in the watershed. The water is used for irrigation, augmentation, snowmaking, and transbasin exports to the Front Range. The Dillon and Green Mountain Reservoirs are the largest storage reservoirs in the watershed, serving the additional purpose of hydropower generation.

Groundwater is a smaller, but still important, source of water in the watershed, supplying 1% of the total demands. The majority of groundwater supply wells are shallow alluvial wells, except in the valley where supply wells are deeper and tap into confined aquifers. Wells are classified as exempt or non-exempt, which indicates whether they are subject to administration under the prior appropriation water rights system. Owners of non-exempt wells (of which there are about 94 in the watershed) must replace out-of-priority groundwater depletions by participating in an augmentation plan. Residents in the Blue River watershed can purchase augmentation water from Summit County or from a private company

(Vidler Water). Based on the State's well permit database, there are approximately 1,800 exempt wells in the watershed that are permitted for household and domestic (indoor) use only.

6.2 Beneficial Uses

Water in the Blue River watershed is put to a variety of beneficial uses allowable under State water law, and those beneficial uses vary greatly in their impacts on watershed health. Factors that can be used to assess watershed impact are the magnitude of the diversion, the amount of water returned to the watershed after use (also referred to as the return flows or non-consumptive use), and the amount of water lost from the watershed (also referred to as the consumptive use).

Figure 6 presents a summary of beneficial uses in the Blue River watershed along with annual diversion volumes and relative impacts (low, medium, high) to the watershed as assessed by the fraction of water returned to the watershed. Hydropower generation is by far the largest use in the watershed, being served by about half of the annual diversions, but is categorized as having a relatively low impact to the watershed because almost all of the water is returned to the river. Other uses categorized as having a low watershed impact include water used for maintaining environmentally-beneficial lake levels and streamflows, fisheries, augmentation, recharge, and domestic and household only use. In these cases, the return flows are estimated to be 90-100% of the water diverted.

Uses that are categorized as having medium impact to the watershed (storage, municipal, snowmaking, industrial, commercial, and stock water) typically have return flows representing between 80-90% of the water diverted. The water that is used consumptively is primarily lost to evaporation, either from water surfaces or as a result of irrigation and snowmaking practices.

The high impact uses include transbasin exports, where water is diverted to Front Range water users and used to extinction. None of that water is returned to the West Slope. Similarly, all diversions ascribed to evaporation are considered lost from the watershed. Irrigation impacts are variable depending on the irrigation technique but can use 55-100% of the diverted water.

The "other" use category is used by the Colorado Division of Water Resources for water accounting purposes and captures a variety of potential situations, including but not limited to: return flows, exchanges, multiple uses, unauthorized uses, and winter uses such as icing. Because the "other" use category captures a number of different use scenarios, the impact to the watershed cannot be quantified.

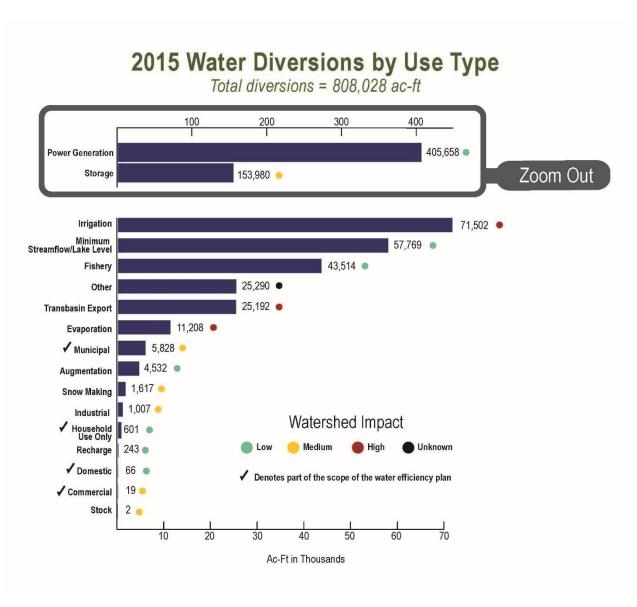


Figure 6. Water Diversions by Beneficial Use (2015)

6.3 Water Providers

There are 19 water providers in the Blue River Watershed within Summit County: four municipal providers and 15 special district water providers under Colorado Revised Statutes Title 32: Special Districts. **Figure 7** presents a map of the service areas for 13 of the water providers for which geographic data were available (CO DOLA, 2018b).

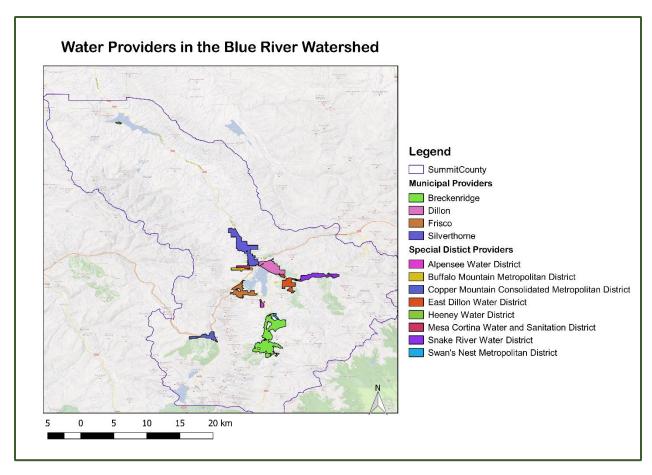


Figure 7. Map of Water Providers in the Blue River Watershed

Each water provider is unique in their raw water sources, system size, mix of residential and commercial customers served, and staffing and financial resources. However, some general observations can be made across providers:

- Although the water providers are not large compared to many systems on the Front Range, they tend to be advanced in terms of metering and systemwide leak detection programs.
- Outdoor water use tends to be relatively low, ranging from 15-25% of average annual demands.
 The systems do experience high peak loads from outdoor irrigation in the summer months, with demands doubling compared to winter months.
- The systems tend to run with a small, but dedicated and engaged, staff who cover multiple functions including water planning, operations, and efficiency.

Figure 8 presents a summary of 2015 water use by provider. All systems fall below the definition of 2,000 ac-ft/yr of retail water used by the State to determine covered entities. The water use values reflect the unique characters of each provider's system, and large values do not necessarily indicate inefficient water use. For example, the Town of Breckenridge, which is shown as the largest water provider, serves the largest population and also provides approximately 400 ac-ft of raw water annually for snowmaking to the Breckenridge Ski Resort. In other cases, the ski resorts hold their own water rights for snowmaking, and those uses are not reflected in **Figure 8**.

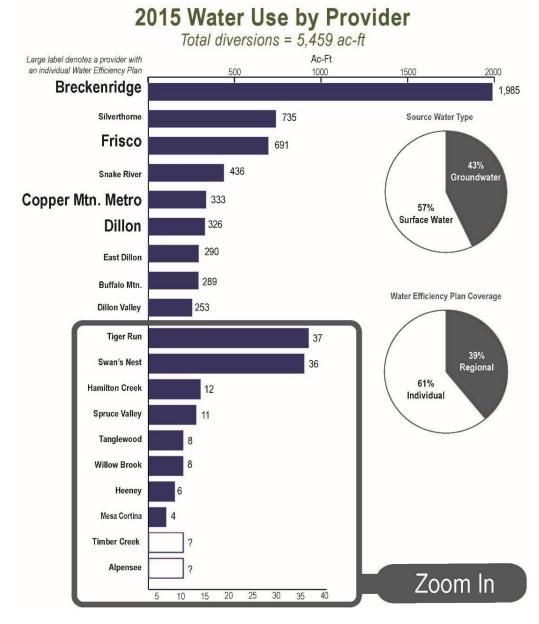


Figure 8. Water Use by Provider (2015)

The scope of this regional water efficiency plan covers the water use depicted in **Figure 8**, of which 57% is sourced from surface water and 43% is sourced from groundwater. Approximately 61% of the water use is delivered by Copper Mountain Consolidated Metropolitan District, Town of Breckenridge, Town of Dillon, and Town of Frisco. Though these four providers have developed individual water efficiency plans, this regional plan has a broader scope that covers municipal use, domestic, commercial, and household uses across all water users in the watershed.

6.4 Vulnerabilities

6.4.1 Wildfires

A common concern across the watershed is the risk from wildfires. When they do occur, wildfires create a triple threat to surface water quality:

- They increase the amount of rainfall during a storm event that is available for runoff. Wildfires burn vegetation whose canopy would normally intercept rainfall and whose roots would uptake water.
- They increase the surface runoff that occurs from subsequent storm events. Wildfires affect topsoil properties, making ground surfaces hydrophobic, so that water runs off rather than being infiltrated.
- They increase pollutant loads during subsequent storm events. Wildfires leave large amounts of debris and surface disturbances in their wake. In addition to the debris and sediment loads clogging intake infrastructure, source waters often experience spikes in turbidity, coliforms, total organic carbon, iron, manganese, and ammonia.

Wildfires can also affect the available quantity of water, if debris constricts water flow or alters the river channel.

As discussed previously in **Section 4 Related Studies**, actions that are being taken include identifying critical infrastructure, implementing mitigation projects to protect water infrastructure, and active forest management practices.

6.4.2 Droughts

Summit County has experienced significant periods of drought six times in the past 35 years, with the most recent occurring in 2002 and 2012 (AMEC 2013). While all providers in the watershed were able to meet demands during these dry period, some stream segments and groundwater supply wells ran dry. With the exception of the Town of Breckenridge, the providers in the watershed lack reservoir storage, and have to rely more heavily on demand reductions during times of drought.

As discussed previously in **Section 4 Related Studies**, actions that are being taken include establishing emergency interconnects among systems. Additionally, some providers have diversified their water supplies to include both groundwater and surface water supplies.

6.4.3 Flows and Lake Levels

Given the strong culture around outdoor recreation, for many the purpose of water efficiency is to put more water back into the rivers. There are two mechanisms by which environmentally-beneficial streamflows and lake levels are maintained in the watershed:

The State of Colorado's Instream Flow Program: The Colorado Water Conservation Board is the
only entity in the State authorized to hold water rights to protect streamflows and lake levels
(CWCB 2005). When CWCB exercises an instream flow right, the water is left in the river or lake.
Before this program was authorized, all appropriations were required to divert water out of the
natural system.

Currently, there are approximately 260 miles of river in the watershed that are protected by instream flow rights (**Figure 9**). All of the principal drainages (including the Upper Blue, Lower Blue, Snake, and Tenmile) have seasonal, minimum instream flow values established. However, these water rights were typically appropriated in 1986-87, which makes them fairly junior water rights (Colorado Division of Water Resources, personal communication). This means that all water rights with more senior appropriation dates need to be satisfied before the instream flow rights can be exercised.

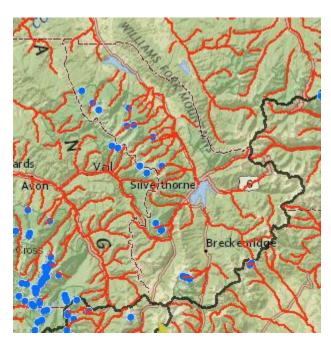


Figure 9. CWCB Instream Flow Rights (red lines = streams, blue dots = lakes) (CWCB 2018)

Voluntary Changes to Operations: The second mechanism used to protect streamflows and lake levels includes voluntary operational changes. Recognizing the importance of maintaining healthy streamflows for a variety of reasons, several entities – including Town of Breckenridge, Town of Frisco, and Summit County – have voluntarily modified their water operations to maintain minimum streamflows.

7 Perceptions of Water Efficiency

7.1 Motivations

In 2016, High Country Conservation Center and Alpine Insights conducted a survey to better understand local perceptions of water efficiency (HC3, 2016). The key findings were:

- Environmental concerns were cited as the primary motivating factor (46%) for current water conservation efforts, followed by concerns about future water shortages (37%).
- The most commonly cited conservation activities included user behaviors (e.g., turning the
 water off while brushing teeth or washing dishes, taking shorter showers). Replacing indoor
 fixtures (13%), replacing landscaping (12%), and automatically-timed irrigation systems (7%)
 were less common.
- About one-half of respondents (52%) were aware that most residential water waste occurs
 outside the home from outdoor water use (HC3, 2016). Forty percent of respondents stated
 they would be willing to change their landscaping practices if the need for water conservation
 increases.
- For future conservation efforts, respondents overwhelming stated (72%) that awareness of future water shortages would increase their likelihood to conserve water.
- Less than 1% of respondents stated they were not motivated to conserve water.

7.2 Opportunities

During the planning process, stakeholders identified unique qualities and resources within the Blue River watershed that will be leveraged to achieve success with this regional water efficiency program:

- A youthful population motivated to protect the natural environment and economic vitality of the region.
- A history of regional collaboration, including sharing resources and ideas. Together, the region
 will be able to develop water efficiency programs and initiatives that could not be achieved
 individually.
- Engaged non-governmental organizations including High Country Conservation Center, Middle Park Conservation District, Blue River Watershed Group, and Friends of the Lower Blue River have the interest and the capacity to support implementation of this water efficiency plan and education and outreach efforts.

7.3 Challenges

Water efficiency programs rely on people to change their behaviors and to take actions to reduce their water use. During the planning process, the stakeholders identified a number of barriers that need to be recognized and overcome to achieve the vision of this plan:

• **Visiting population and seasonal housing:** The resident population in the Blue River watershed is small compared to the visiting population. Water conservation values need to be promoted in a positive way without adversely affecting tourism. In many cases, rental units are managed by property management companies that employ landscape companies for outdoor irrigation and

- maintenance. Water conservation efforts need to target the appropriate decisionmakers with the right kind of messaging.
- **Use-it-or-lose it:** A common question that providers ask is whether water conservation efforts will affect their water rights. Colorado law recognizes the responsibility that providers have to serve customers and plan for the future, and in fact, water providers are the only entities in the State that are allowed to hold water rights in excess of their historical consumptive uses.
- Lost revenues: For water providers that rely heavily on volumetric water rates for operating funds, reduced water use can mean less revenue. Most water providers minimize this risk by conducting rate studies on a regular basis to assess their pricing structures and maintain financial stability while still encouraging water conservation.

8 WATER EFFICIENCY ACTIVITIES

During the stakeholder planning process, water efficiency activities were identified using multiple factors that included provider priorities, stakeholder input, opportunities for water savings, technical feasibility, and implementation capacity. When feasible, the efficiency activities were quantified in terms of their potential for water savings, customer sectors and end-uses impacted by the measure, and implementation costs. A summary of activities that are planned for implementation over the next seven years is shown in **Table 2**.

Table 2. Summary of Planned Water Efficiency Activities

Water Efficiency Activity	Provider-Led Program	Regional Program	Projected Water Savings in 2025	
Foundational Activities				
Billing Upgrades	✓		2 ac-ft/yr	
Advanced Metering Infrastructure and Enhanced Water Loss Control	✓		184 ac-ft/yr	
Conservation-Oriented Rates	✓		168 ac-ft/yr	
Institutional Collaboration		✓	Not Quantified	
Targeted Technical Assistance and Incentives				
Indoor Water Efficiency		\checkmark	6 ac-ft/yr	
Outdoor Water Efficiency		✓	17 ac-ft/yr	
Ordinances and Regulations				
Land Use Planning	✓		Not Quantified	
Education Activities				
Education and Outreach		✓	Not Quantified	
		Total Savings in 2025	377 ac-ft/yr	

The following sections summarize the efficiency activities. Some of the activities will be programs that are internal to participating providers, in which case more detail can be found in the individual water efficiency plans for the participating providers:

- Copper Mountain Consolidated Metropolitan District (CMCMD, 2018)
- Town of Breckenridge (TOB, 2018)
- Town of Dillon (TOD, 2018)
- Town of Frisco (TOF, 2018)

Other activities will be accomplished through collaboration in regional programs that are designed through three working groups (education and outreach; technical efficiency programs; and integrated water and land use planning). **Appendix C** contains implementation action plans for the three working groups.

8.1 Foundational Activities

8.1.1 Billing Upgrades

Billing upgrades are a provider-led program. Providers will partner with a contractor to provide customers with the WaterSmart Report Card. The report card will give customers more detailed information about their water usage, how their usage compares to similar customers, and suggestions for improving their efficiency. To estimate water savings, the top 5% of customers (in terms of annual water use) are assumed to reduce consumption by 1%. Program costs vary based on number of accounts that will receive the report card. In addition to water savings, the customer engagement associated with the report card will be extremely valuable.

8.1.2 Advanced Metering Infrastructure and Enhanced Water Loss Control

Metering and water loss control programs are specific to each provider. Water savings estimates are a function of current metering technology and water loss control programs:

- Potential water savings are estimated to be 7% of annual demands for new AMI implementations.
- Potential water savings are estimated to be 5% of annual demands for providers that have advanced meters installed but have the opportunity to improve leak detection programs.
- Potential water savings are estimated to be 2% of annual demands for existing AMI systems that have the opportunity to provide customers with direct access to their water use data.

8.1.3 Conservation-Oriented Rates

Pricing structures are specific to each provider. Although each participating provider has adopted inclining block rate structures, they vary in terms of how well the structure incentivizes conservation. Each provider intends to review their existing pricing structures as part of their next rate study, which entails an upfront cost (estimated at \$20,000) but no ongoing costs. Water savings estimates are a function of how well the current pricing structures incentivize conservation but are typically estimated at 7.5% of annual demands for small- and medium-sized utilities (Green and Maddaus, 2010).

8.1.4 Institutional Collaboration

During the planning process, High Country Conservation Center convened an "executive committee" that included representatives from each participating provider, Summit County, the Board of County Commissioners, Middle Park Conservation District, and Northwest Colorado Council of Governments, among other entities. Members of the executive committee will continue to meet as part of the implementation of this plan to exchange information.

8.2 Targeted Technical Assistance and Incentives

8.2.1 Indoor Water Efficiency

High Country Conservation Center intends to lead an indoor water efficiency program. The program is envisioned to include two components:

 Residential indoor water audits that include direct installation of some water-saving fixtures, specifically showerheads and faucet aerators, as well as customized recommendations for additional water savings. Commercial outreach through High Country Conservation Center's Resource Wise sustainable business program (Figure 10). In addition to providing recommendations on opportunities to save water, High Country Conservation Center can provide direct installs of toilet bricks and prerinse spray valves and rebates covering 50% of the cost of water-saving projects up to \$400/business.

Additional information about the indoor water efficiency program is included in **Appendix C** in the implementation plan for the technical efficiency programs working group.



Resource Wise is a *free* program designed to help Summit County businesses decrease their environmental impacts.
Services provided include:

- Energy and sustainability assessments
- Coaching
- Rebates for business improvements
- Local recognition
- NEW FOR 2018: Installation of LED tubes, occupancy sensors, watersaving devices, and air sealing work

To enroll, call the High Country Conservation Center at (970) 668 - 5703 and ask to speak with Jess.







Figure 10. Resource Wise Advertisement

8.2.2 Outdoor Water Efficiency

For at least the first two years of implementation, participating providers anticipate working with Resource Central's "Slow the Flow" program to conduct outdoor irrigation assessments (Figure 11). An irrigation assessment consists of a 90-minute consultation that includes:

- A customized watering schedule
- Efficiency tests that measure water usage and coverage
- A visual inspection to check for problem areas that waste water
- Minor adjustments to sprinkler heads

For year 1 of implementation,
Resource Central is providing 120 free
outdoor irrigation assessments for
customers of the five participating
providers. The costs of these
assessments are covered by a grant
that Resource Central received from
the Gates Family Foundation. In year
2 of implementation, the cost of the
assessments will be cost-shared



Get a **FREE** Sprinkler Check-Up!

Just like a car, your sprinklers need an occasional check-up to make sure they re working as efficiently as possible. Take advantage of a free sprinkler consultation to save thousands of gallons of water every year! Brought to you by the Town of Silverthorne, High Country Conservation Center, and Resource Central, a non-profit with 40+ years of conservation experience. Appointments are limited and are scheduled on a first-come, first-served basis, so act quickly!



90-Minute Consultation Includes:

- A customized watering schedule that could save thousands of gallons of water per year
- Efficiency tests measuring water usage and coverage
- A visual inspection to check for any problem areas that waste your water

ResourceCentral.org/sprinkler

• Minor adjustments to sprinkler heads

Sign Up Today:

(303) 999-3824

Benefits Include:

- Reduce water usage and waste
- · Save money on your water bill
- Gain practical, DIY sprinkler maintenance skills during the consultation
- Maintain a beautiful, healthy landscape while saving water







Figure 11. Silverthorne Slow the Flow Flyer

between the grant (50%) and the participating providers (50%).

In year 3 of implementation and beyond, the participating providers will evaluate whether to continue participation in the Slow the Flow program or to develop a new regional program based on estimated program costs and staff resources.

Additional information about the outdoor water efficiency program is included in **Appendix C** in the implementation plan for the technical efficiency program working group.

8.3 Ordinances and Regulations

In 2017, as part of the planning process, a regional land use planning group convened with the intent of reviewing design guidelines and landscaping codes for existing incentives and barriers to water savings. Working group members include representatives from Summit County, the municipalities, and the Northwest Colorado Council of Governments (NWCCOG). As such, the code reviews are intended to be conducted at multiple (county, local, regional) levels of government.

The working group will benefit from collaboration with NWCCOG, which was awarded a State Water Plan grant from the CWCB to develop model codes that incentivize water quality and water conservation objectives as well as funding to help five communities in the NWCCOG regional jurisdiction to amend their existing codes.

Additional information is included in **Appendix C** in the implementation plan for the integrated water and land use planning working group.

8.4 Educational Activities

High Country Conservation Center will lead the regional educational and outreach efforts. The top priorities for this group in 2018 include:

- Developing or assembling water conservation materials that are targeted to priority sectors in support of implementation efforts under this plan.
- Developing strategies for engaging the visiting and second homeowner population in Summit County.
- Promoting awareness around joint energy-water savings opportunities.
- Identifying key events and outreach channels for education and awareness efforts.

Additional information is included in **Appendix C** in the implementation plan for the education and outreach working group.

9 IMPLEMENTATION AND MONITORING PLANS

9.1 Implementation

The general approach to implementing the water efficiency programs described in **Section 8** included the following steps:

- Determine the organization responsible for leading the activity.
 - Water providers are responsible for the implementation of the foundational activities (billing upgrades, AMI and enhanced water loss control, and conservation-oriented rates) and participation in Resource Central's Slow the Flow program.
 - Land use planners at the local, County, and regional scale are responsible for initiating changes to ordinances and regulations.
 - High Country Conservation Center is responsible for leading institutional collaboration, the indoor water efficiency program, and education and outreach efforts.
- Work with other organizations and partners to develop implementation action plans, define funding needs, and exchange information about best practices and lessons learned.
- Determine funding needs and sources for the activity.
 - For activities to be funded entirely or in part by Town operating budgets, work within the annual budgeting cycle. This approach requires identifying budget priorities and estimates a year before the activity is to be implemented.
 - For activities to be funded by external sources, look for grant and other funding opportunities. Appendix B includes a summary of implementation resources that were identified during the planning process.

Three working groups were formed to guide implementation of the regional water efficiency activities:

- Education and outreach
- Technical water efficiency programs (indoor and outdoor)
- Integrated water and land use planning

As previously described, **Appendix C** includes implementation action plans that were developed for each working group to help transition from planning to implementation. The action plans will evolve as the working groups meet and take action.

9.2 Plan Reviews and Updates

The Water Conservation Act of 2004 (HB04-1365) requires that water efficiency plans be made publicly available for review and comment for a period of 60 days and that the plans be locally adopted by the appropriate governing entity. High Country Conservation Center complied with these requirements by posting the water efficiency plans on-line (**Figure 12**; HC3, 2018) and providing public notice of the plans in the February 1, 2018 newsletter. The public comment period lasted through April 4, 2018.

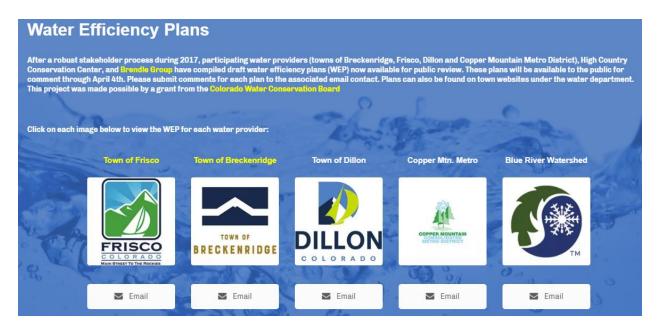


Figure 12. Screen Capture from the High Country Conservation Center website (HC3, 2018)

Concurrently with the public review and comment period, the draft plans were submitted to the Colorado Water Conservation Board for review. Review comments and responses to comments are included in **Appendix D**.

After the plan has been adopted by High Country Conservation Center's Board of Directors, **Appendix E** will contain copies of the resolutions.

High Country Conservation Center intends to update this plan every seven years as required by The Water Conservation Act of 2004. Plan updates will incorporate new data and may include revisions to the planned activities, as appropriate.

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APPENDIX A: PLAN DATA

Provided in a separate document.

APPENDIX B: IMPLEMENTATION RESOURCES

Organization / Individual	Implementation Resource	Resource Type	Additional Information
Aaron Clay	Water Law in a Nutshell Workshop	Education and Training	Contact High Country Conservation Center or Middle Park Conservation District
American Water Works Association	Topics area: water conservation programs, water loss control	Technical guidance	<u>Website</u>
American Water Works Association Rocky Mountain Section	Topics: water conservation, tap fees	Training	<u>Website</u>
Colorado Water Conservation Board	Water Conservation Implementation Grants	Grant Funding Source	<u>Website</u>
Colorado Water Conservation Board	Water Resource Conservation Public Education and Outreach Grants	Grant Funding Source	<u>Website</u>
Colorado Water Conservation Board	Water Plan Grants	Grant Funding Source	<u>Website</u>
Colorado WaterWise	Live Like You Love It	Education and outreach materials	<u>Website</u>
Irrigation Association	Topics: landscape water management	Training	Contact Northern Water (2018 training host)
Rural Communities Assistance Program	Topic areas: Water loss control, managerial, financial	Training and technical assistance	Website Contact Jeff Oxenford (720-353-4242)
Sonoran Institute	Land Use and Water Planning Workshop	Education and Training	<u>Website</u>
WaterNow	Project Accelerator Program	Technical and program assistance	<u>Website</u>

APPENDIX C: IMPLEMENTATION ACTION PLANS

Education and Outreach Working Group

Last Updated: May 25, 2018

Working Group Role	Name and Organization
Group coordinators (responsible for scheduling meetings and communications)	Jessie Burley, High Country Conservation Center Hallie Jaeger, High Country Conservation Center
Team members (responsible for helping with action items)	Robert Buras, Town of Dillon Jed Callen, Resident Greg Hardy, Trout Unlimited Katlin Miller, Middle Park Conservation District Barry Rubenstein, High Country Conservation Center Dan Schroder, CSU Extension Julia Stennes, Town of Silverthorne

GOALS

• Initiate a coordinated education and outreach program for water conservation, including promoting all implementation activities

STRATEGIES TO ACHIEVE GOALS

Strategy 1: Develop targeted materials by sector

- Identify top priorities for education and outreach
 - Landscaper
 - o Indoor
 - o Outdoor
 - o Commercial
 - Residential
- Inventory existing materials and resources
 - Water utility websites (Denver Water, Town of Breckenridge, etc.)
 - Colorado WaterWise (Live Like You Love It)
 - o EPA Water Sense
 - Water audit and related service providers
- Adapt existing materials and develop new materials
- Identify outreach channels
 - o Bill enclosures
 - Social media
 - Websites
 - o Events
 - Summit Daily
 - Water Warriors program
 - HC3 Resource Wise sustainable business program
- Disseminate materials

Strategy 2: Engage the visiting population and second homeowners

- Come up with a message and then keep delivering the message because it's a changing population
- Compile a list of HOAs and contact information
- Prioritize 10 HOAs where working group members have personal connections

Strategy 3: Leverage High Country Conservation Center's Energy Programs

Anytime talk about water, talk about energy, and vice versa

Strategy 4: Aggregate and push out related information and events from other organizations

• For example: EPA's Fix-a-leak week

SUMMARY OF ACTION ITEMS

	Responsible	
Action Item	Team Member	Status
Compile contact list for HOAs	Dan	Complete
Prioritize 10 HOAs	All	In progress
Promote EPA's Fix-a-Leak Week	Hallie/HC3	Complete
Promote HC3's Resource Wise Sustainable Business Program	All	In progress
Promote participation in Resource Central's Slow the Flow	HC3 and	In progress
program for outdoor audits for customers served by	participating	
participating providers	towns	
Promote participation in Resource Central's Slow the Flow	Katlin/Dan	In progress
program for outdoor audits for customers NOT served by		
participating providers		
Work on marketing piece on water efficiency and leaks to	All	In progress
supply during residential energy audits		
Find a list of contractors/plumbers as a resource guide	Jed	In progress
Promote Blue River Explorer Hike	Greg	In progress

Technical Water Efficiency Programs Working Group

Last Updated: May 25, 2018

Working Group Role	Name and Organization
Group coordinator (responsible for scheduling meetings and communications)	Laura Lynch, Town of Breckenridge
Team members (responsible for helping with action items)	Robert Buras, Town of Dillon Jeff Goble, Town of Frisco Jess Hoover, HC3 Hallie Jaeger, HC3 Cody Jensen, HC3 Zach Margolis, Town of Silverthorne Mike Nathan, A-Basin
	Ed Pankevicius, Copper Mountain Metro Karn Stiegelmeier, Board of County Commissioners Lane Wyatt, NWCCOG

GOALS

- Pilot a residential indoor audit program
- Expand the HC3 Resource Wise sustainable business program to include more emphasis on water efficiency, including allowing water projects to qualify for rebates
- Promote Xcel Energy's multi-family buildings program
- Reduce outdoor water use while maintaining aesthetics for visitor and resident appeal
- Focus on low-cost/no-cost water savings opportunities and customer education and outreach
- Design, pilot, and implement regional programs aimed at outdoor water efficiency, including outdoor water audits, irrigation system optimization, and landscaper certification

STRATEGIES TO ACHIEVE GOALS

Goal: Pilot a residential program that includes educational materials, audits, direct installs, and/or rebates/incentives.

- Leverage HC3's Energy Smart Colorado program for indoor energy efficiency.
 - At a minimum, assess energy program for best practices and lessons learned to inform water efficiency program design.
 - Consider leveraging energy program as an education and outreach channel (e.g., leave materials on water efficiency with residents when conducting an energy assessment).
- Research existing residential information and audit programs
 - Evaluate existing residential programs, with an emphasis on comparable mountain communities. For example, Resource Central has a "Slow the Flow" program that includes a residential indoor audit program.
 - Evaluate rebate structures/incentives. Find biggest water savings potential for each potential rebate measure.
 - Evaluate types of direct installs needed. At a minimum, include direct installs of showerheads and faucet aerators.
 - Compile effective educational materials.
- Design a pilot program

- o Identify water providers interested in participating in the pilot program.
- Determine funding needs and sources for pilot program.
- Execute the pilot program.
- Assess performance of the pilot program to inform larger-scale implementation.

Goal: Develop a commercial outreach channel

- Leverage HC3's Resource Wise green business program to connect with businesses and find water savings opportunities.
 - Use the program as an education and outreach channel
 - Leave sector-specific materials on water efficiency with businesses as part of engagement.
 - Hold a Business Lunch n' Learn workshop on water in 2018.
 - Expand the program in offering and implementing recommendations for improving water efficiency based on the results from the sustainability assessment.
 - Add information about the energy-water nexus on summary reports
 - Provide water efficiency recommendations to businesses with low water scores
 - Use available funding (\$400/business) towards water-saving upgrades and projects
 - Direct installs of toilet bricks and pre-spray rinse valves

Goal: Focus on low-cost/no-cost water savings opportunities and customer education and outreach

- Identify largest users (for example, HOAs) and work with customers to better schedule their water use
- Work with landscape companies
 - Create a list of water-efficiency minded landscapers
 - o Educate additional landscape companies
- Identify educational events, for example one county-wide meeting
 - o Annual State of the River
 - NWCCOG QQ meetings
- Educate about joint energy-water savings opportunities
- Develop water budgets using GIS and irrigated lands analysis for customer outreach about the amount of water customers should be using
- Work with City Parks staff on water savings opportunities
- Send out a mailer to contract holders about metering and plantings

Goal: Design, pilot, and implement regional programs aimed at outdoor water efficiency, including outdoor water audits, irrigation system optimization, and landscaper certification

- Years 1-2 of implementation: Take advantage of grant funding available from Resource Central to make Slow the Flow outdoor irrigation assessments available to 120 customers
- Years 3 and beyond: Determine continued participation in the Slow the Flow program versus developing a separate regional program. Expand services beyond audits to system optimization and landscaper certification.
 - Evaluate existing programs for best practices and lessons learned (for example, Denver Water)
 - Identify potential service providers (for example, Resource Central Slow the Flow program)
 - Design and implement a pilot program
 - Implement a regional program

Goal: Reduce outdoor water use while maintaining aesthetics for visitor and resident appeal

• Coordinate efforts with the land use planning working group to evaluate municipal code for updates regarding vegetation requirements

SUMMARY OF ACTION ITEMS

	Responsible Team	1
Action Item	Member	Status
Identify fixtures/appliances to target for incentives	Mike	In progress
based on water savings potential		
Research existing residential water efficiency	Laura	In progress
programs		
Flesh out potential to leverage existing HC3	Jen	In progress
programs, resource needs, etc.		
Evaluate opportunities for leveraging Resource Wise	Jess and Jessie	In progress

Integrated Water and Land Use Planning

Last Updated: May 17, 2018

Working Group Role	Name and Organization
Group coordinator (responsible for scheduling meetings and communications)	Joyce Allgaier, Town of Frisco
Invited team members	Joyce Allgaier, Town of Frisco Graeme Bilenduke, Copper Mountain ski resort Robert Buras, Town of Dillon Jed Callen, Resident Allison Fulton, Copper Mountain Metro Jeff Goble, Town of Frisco Peter Grosshuesch, Town of Breckenridge Torie Jarvis, NWCCOG Katie Kent, Town of Frisco Susan Lee, Town of Frisco Zach Margolis, Town of Silverthorne Mike Nathan, A-Basin Pete Oltman, North Line GIS Ed Pankevicius, Copper Mountain Metro Don Reimer, Summit County Elena Scott, Norris Design Ned West, Town of Dillon Lane Wyatt, NWCCOG

GOALS

• Conserve water through collaboration and actions that support all agencies in our region

STRATEGIES TO ACHIEVE GOALS

Strategy 1: Code Amendments

- Engage and/or stay informed about NWCCOG efforts under their Colorado State Water Plan grant.
- Audit codes and additional regulations to identify existing barriers and incentives to water conservation (Joyce and regional planners)
- Amend water standards, codes (require certain irrigation materials and systems) Jeff
- Look at tap fees and tying to/paying more for landscaping (Mark)
 - See Castle Rock and Aurora programs, to be presented at June 14 RMSAWWA conservation committee meeting
 - Schedule an educational workshop
 - Share literature
- Look at stormwater management regulations (bioswales, tree gardens)
- Land use typology
 - Apply budgets to different types of land uses (e.g. ballfields vs. aesthetic landscape areas) – for example, Denver Water

Strategy 2: Collaboration and Engagement

- Evaluate learning opportunity through Sonoran Institute.
- Engage all special and metro districts to implement plan
- Set common goals among towns, districts, others to coalesce efforts (even if done at different times)
- Tap informational and regulation resources to raise the bar, give guidance, help share information and information about grants and capacity building (NWCCOG)
- Engage large water users

Strategy 3: Advance water reuse programs, especially for golf courses and snowmaking parks (Lane Wyatt and Torie Jarvis from NWCCOG QQ)

SUMMARY OF ACTION ITEMS

	Responsible		
Action Item	Team Member	Date	Status
Evaluate learning opportunity through Sonoran Institute.	All	June 1, 2018	In progress
Convene planners to initiate code audits	Joyce	Summer 2018	Not started
Schedule an educational session on tap fees	Mark	June 14, 2018	Complete (Scheduled through AWWA RMS conservation committee)

APPENDIX D: PLAN REVIEWS AND COMMENTS

REVIEW COMMENTS FROM THE COLORADO WATER CONSERVATION BOARD

Conservation Plan Submittal Required Plan Elements Checklist

Name of Entity: Blue River Regional WEP

Date Submitted: 3/16/18

Required Conservation Plan Elements Complete		Completed?	Response to Comments
1.	Name and contact information	Yes Nox Comment: Put final cover letter	Cover letter added
2.	Organizations and individuals assisting with plan development	Yesx_ No Comment: pg. 6	No action required
3.	Quantified annual retail water delivery?	Yes_x No Comment:	No action required
4.	Identified population served by retail water delivery?	Yes_x_No_ Comment: Summit County 2016- 30,367; 2050- 51,000 state demographer; permanent residents	No action required
5.	Public comment period completed? (60 days or local regulation)	Yes No_x Comment: after review	Section 9.2 (Plan Review and Updates) and Appendix D (Plan Reviews and Comments) updated after public comment period was completed
6.	Signature with authority to commit resources of the submitting entity?	Yes Nox Comment: Put in final cover letter	Cover letter added
7.	All required water saving measures and programs considered?	Yesx_ No Comment:	No action required
	I. Fixtures and appliances – toilets, urinals, showerheads, faucets, etc.?	Yes_x_ No Comment: HCC will lead indoor residential audits with install of fixtures	No action required
	II. Waterwise landscapes, drought resistant vegetation, removal of phreatophytes, efficient irrigation, etc.?	Yes_x No Comment: Outdoor water audit program to evaluate system efficiencies and implement fixes through rebates	No action required

Red	quired C	Conservation Plan Elements	Completed?	Response to Comments
	III.	Water efficient industrial and commercial processes?	Yes_x_ No_ Comment: Commercial outreach through HCC sustainable business program and will put financial resources towards upgrades	No action required
	IV.	Water reuse systems?	Yes No Comment: N/A	No action required
	V.	Distribution system leak ID and repair?	Yesx No Comment: Individual plans will detail	No action required
	VI.	Information, public education, audits, demos?	Yes_x_No_ Comment: Priorities in 2018 are to: Develop or assemble water conservation materials that are targeted to priority sectors in support of implementation efforts under this plan. Develop strategies for engaging the visiting and second homeowner population in Summit County. Promote awareness around joint energy-water savings opportunities. Identify key events and outreach channels for education and awareness efforts.	No action required
	VII.	Conservation oriented rate structure and billing system?	Yes_x_ No Comment: All providers have inclining block rates but will evaluate all of them through rate studies. Individual plans will detail	No action required
	VIII.	Regulatory measures designed to encourage water conservation?	Yes_x No Comment: See land use and comments below	No action required
	IX.	Incentives, rebates to encourage conservation implementation?	Yesx No Comment: See below	No action required
8.		water conservation plan in water supply planning?	YesxNo Comment: Section 3.3 Vision statement; Section 4 shows nexus between the water efficiency plan and other plans/studies	No action required

Re	quired Conservation Plan Elements	Completed?	Response to Comments
9.	Steps to implement, monitor, review, and revise conservation plan including time period not to exceed 7 years?	Yes_x No Comment: pg. 29; Great idea for the working groups!	No action required
10	Estimates of water saved through previous conservation efforts AND water saved through plan implementation?	Yesx No Comment: 371 af through regional and individual planning efforts; 17 af coming from regional; much of regional efforts are not quantified due to nature of programs and initiatives	No action required
11	Best management practices for water demand management, water efficiency, and water conservation that may be implemented through land use planning efforts	Yes_x_No Comment: Ordinances: Convened a regional land use planning group in 2017 to review design guidelines and landscaping codes for existing incentives and barriers to water savings; one of four working groups formed for the plan is an "Integrated water and land use planning" group	No action required

Plan Review Findings		
	_ Approved	
x	Conditional Approval	
	_ Disapproval with Modifications	

Plan review comments:

This plan review was completed by Kevin Reidy of the Colorado Water Conservation Board. Questions about the review, comments provided, the plan review process and the statutory requirements can be directed to Kevin.

Details on programs: In the body of the plan, refer to the Appendix C where the working group plans are. I didn't see it until Section 9 and when I read through the plan the first time, I was wanting more details on each program but didn't find it until I got to the Appendix C with the working group plans. I really like the working group plans though. Not sure if you want to have a blanket statement at the beginning of Section 8 directing readers to Appendix C or in each activity where it is relevant.

Response to Comment: Added references to Appendix C in Section 8 when discussing regional efficiency programs.

Ordinances and Regulations: Are those county landscape codes and regs you identify in section 8.3? It would be good to describe them as such so that the reader knows they apply across all providers/communities and also state that all the individual communities have their own ordinances that do not translate across all the other communities.

Response to Comment: Clarified section 8.3 to make clear that county, local, and regional representatives are participating in the working group and that the proposed code audit will target multiple levels of government.

Indoor/Outdoor Water Efficiency: Would like to see more detail on the rebates, incentives and fixtures that will be implemented in the Indoor and Outdoor water efficiency sections.

Response to Comment: Edited section 8.2.1 to clarify that the residential indoor audit program will include direct installs of showerheads and faucet aerators. The initial program incarnation will not include rebates or incentives. Edited section 8.2.1 to clarify that the commercial audit program includes direct installs of toilet bricks and pre-rinse spray values and rebates covering 50% of the cost of water-saving projects up to \$400/business.

Why isn't the indoor water efficiency programs quantified? That would seem to be the easiest to do so. If not sure of the total scope of this, put in a placeholder savings amount that would act as a baseline.

Response to Comment: Agreed. Quantified the estimated water savings based on the direct installs and assumed program participation. Edited the executive summary and Table 2 to reflect updated water savings estimates.

PUBLIC REVIEW COMMENTS

From Katlin Miller:

- Should we mention Summit County's involvement as a stakeholder and executive committee member?
 - Response to Comment: Thanks for your comments. Stakeholder participation from Summit County representatives is included in Section 2 Acknowledgements.
 Participation as an executive committee member is described in Section 8.1.4.
- Section 6.2, Figure 6 what does the other category represent?
 - Response to Comment: Added a paragraph to Section 6.2 explaining the "other" use category.
- Do we say anything in the plan about the bigger picture and the importance of saving water as
 an insurance policy for the Colorado River Compact? I think it would be good to have a
 paragraph or two in the introduction about the Colorado River Compact and why we need to be
 conscientious about water conservation relevant to the Compact.
 - Response to Comment: Agree. Added a paragraph on the Compact to Section 3 Introduction.

APPENDIX E: RESOLUTION TO ADOPT PLAN



WATER EFFICIENCY PLAN

June 2018





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Developed in partnership with:







1 EXECUTIVE SUMMARY

In 2017, High Country Conservation Center and five water providers in Summit County (Copper Mountain Consolidated Metropolitan District, Town of Breckenridge, Town of Dillon, Town of Frisco, and Town of Silverthorne) partnered for the development of water efficiency plans. A diverse stakeholder group developed a vision statement to guide efforts in the Blue River Watershed towards regional water efficiency:

Our vision is for water providers to continue supplying reliable, high quality water to the residents and visitors of Summit County while also:

- Protecting the natural environment upon which our economy and prosperity are based.
- Ensuring the sustainability of our mountain lifestyle for current and future generations.
- Fostering a culture of environmental and social responsibility through education and actions.
- Inspiring collaboration and responsible stewardship of water resources across the State of Colorado.

The Town of Breckenridge's water efficiency plan is an update to the Town's 2004 water conservation plan and documents the Town's existing and planned actions to ensure system reliability and the efficient use of available water supplies.

1.1 WHERE WE ARE NOW

The Town of Breckenridge receives its water supplies from the Blue River and its tributaries. The Town is committed to maintaining flows in the Blue River that are environmentally beneficial, while continuing to serve customers efficiently and effectively.

The Town sells potable water to residential and commercial customers and raw water to the ski resort. Non-revenue water uses include firefighting, municipal uses (golf course and park irrigation, Town projects, street sweeping), hydrant flushing, system leaks, construction water, and other bulk water that is metered but not billed.

Outdoor water use represents a relatively small percentage (15%) of total annual demands, but results in high demand peaks during summer months. The Town also experiences a slight increase in demands from November - March due to the influx of transient residents and day visitors during ski season.

Historically, the Town has had issues with system leaks, which, in combination with hydrant flushing, non-metered use, and malfunctioning meters, have led to relatively high amounts of non-revenue water. For example, in 2015-2016, estimates of non-revenue water ranged from 13-21% annually.

In 2016, the Town produced 1,815 ac-ft of potable water. Almost three-quarters of the annual potable water sales served the residential sector, while 20% served commercial customers and the remaining sales served government and irrigation accounts. Since 2000, the Town has experienced an average decline of 1.4% year-over-year in annual water production volumes. Normalizing for population growth, the Town has seen a 3.1% decline on average year-over-year, with systemwide water use of 146 gallons per single family equivalent in 2016. Non-potable sales for snowmaking are relatively constant at 400 ac-ft/yr.

The Town has achieved past reductions in water use through the implementation of various demand management activities, including:

- An automatic meter reading system installed in 2005
- A system water loss and management control program, including leak detection audits



- An inclining block rate structure that provides some incentive for conservation
- An outdoor water conservation ordinance
- Indoor efficiency through local plumbing codes and State fixture requirements
- Conservation efforts at Town facilities, including turf replacement at the recreation center
- A business recognition program that encourages sustainable actions by local businesses
- Public outreach and education efforts

1.2 WHERE WE WANT TO GO

This water efficiency plan was developed using a 2025 planning horizon, providing enough time to gain traction on new efficiency activities, and with an emphasis on successful implementation. Over the period 2018-2025, the Town aims to implement additional water efficiency activities to supplement existing activities to achieve the following goals:

- A 10% reduction in annual demands by 2025, compared to 2016 demands.
- A reduction in peak demands during the summer associated with outdoor water use.

1.3 How We WILL GET THERE

New water efficiency activities were selected using multiple factors that included utility priorities, stakeholder input, opportunities for water savings, technical feasibility, and implementation capacity. When feasible, the efficiency activities were quantified in terms of their potential for water savings, customer sectors and end-uses impacted by the measure, and implementation costs.

Water Efficiency Activity	Sectors Impacted	Implementation Period	Projected Water Savings in 2025			
Foundational Activities						
Billing Upgrades	All Customers	2018-Ongoing	2 ac-ft/yr			
Advanced Metering Infrastructure and	All Customers	2020-Ongoing	115 ac-ft/yr			
Enhanced Water Loss Control						
Conservation-Oriented Rates	All Customers	2019-Ongoing	123 ac-ft/yr			
Institutional Collaboration	Utility	2017-Ongoing	Not Quantified			
Targeted Technical Assistance and Incentives						
Indoor Water Efficiency	Residential	2018-Ongoing	1 ac-ft/yr			
Outdoor Water Efficiency	Residential & HOA	2019-Ongoing	10 ac-ft/yr			
Ordinances and Regulations						
Land Use Planning	All Customers	2017-Ongoing	Not Quantified			
Education Activities						
Education and Outreach	All Customers	2018-Ongoing	Not Quantified			
		Total Savings in 2025	251 ac-ft/yr			

1.4 How WE WILL STAY ON TRACK

This water efficiency plan includes implementation action plans for the planned water efficiency activities to help the Town achieve its goals. The action plans specify goals, strategies, action items, timelines, and resources for each activity.





2 ACKNOWLEDGEMENTS

The Town of Breckenridge would like to thank the following staff members and stakeholders who contributed to this water efficiency plan:

Town of Breckenridge

Peter Grosshuesch Laura Lynch

High Country Conservation Center

Jessica Burley Jen Schenk Troy Wineland

Middle Park Conservation District

Katlin Miller

Copper Mountain Metro District

Allison Fulton Rob Martin Ed Pankevicius

Town of Dillon

Robert Buras Scott O'Brien

Town of Frisco

Joyce Allgaier Jeff Goble Katie Kent Dave Koop

Town of Silverthorne

Susan Lee Zach Margolis Chris Shelden Julie Stennes

Brendle Group

Becky Fedak Derek Hannon Becca Stock Amy Volckens

Other Stakeholders

Alan Bacher – Summit Chamber of Commerce Woody Bates – Summit County School District Graeme Bilenduke - Copper Mountain Resort Alan Blado – Liquid Descent Rafting

Abbey Browne – WoodWinds Property Management

Kevin Byrne – Vail Resorts Mark Cassalia – Denver Water

Shellie Duplan – Buffalo Mountain Metro District

Brett Gracely - Colorado Springs Utility

Greg Hardy – Trout Unlimited

Dan Hendershott – Summit County

Stephen Hill – Snake River Water District

Bill Jackson – US Forest Service, Dillon District

Jeff Leigh - Mesa Cortina

John Longhill – Friends of Lower Blue River Mike Nathan – Arapahoe Basin Ski Resort Tom Oberheide – Waterworks West

Don Reimer – Summit County

Dave Schroeder - Colorado State University Extension

Elena Scott – Norris Design Gary Shimanowitz – Vail Resorts

Karn Stiegelmeier – Summit County Board of County Commissioners

Ryan Taylor - Native Roots Dispensary

Ray Weller - Vail Resorts

Matt Wilits – Water Solutions Inc. Scott Winter – Colorado Springs Utilities

Lane Wyatt - Northwest Colorado Council of Governments





3 Introduction

Water has long been a vital resource to the economy and the culture of the Town of Breckenridge (Town) and surrounding areas:

- In 1859, gold was discovered along the Blue River, kicking off the gold rush in Summit County.
- In 1961, the Breckenridge Ski Area officially opened.
- In 2004, the Town developed its first water conservation plan (TOB 2004).
- In 2011, the Town adopted the SustainableBreck Plan to "further the goals of the Town's Vision Plan through developing recommendations for environmental, economic, and social sustainability (TOB 2017a)". For water, the Town seeks to conserve water, maintain high standards of water quality, and increase its ability to fully store available water rights to ensure an adequate water supply for future generations.
- In 2014, the Town Council identified water conservation as one of five top priorities for the year.

This water efficiency plan is an update to the previous water conservation plan in documenting the Town's existing and planned actions to ensure system reliability and the efficient use of available water supplies. Related planning efforts for the Town include:

- A feasibility study for a new water treatment plant that included examination of the Town's
 current and expected water demands compared to the capacity of the existing system. A second
 water treatment plant and distribution system upgrades were recommended for the Town from
 this study (HDR 2014).
- A five-year capital improvement plan that includes infrastructure improvements for the water system (TOB 2017b).
- A Water Master Plan that the Town's Water Division updates each year to document water production and changes to the service population.

3.1 WHY A WATER EFFICIENCY PLAN?

The Water Conservation Act of 2004 (HB04-1365) requires all covered entities, defined as retail water providers that sell more than 2,000 ac-ft/yr, to have a State-approved water efficiency plan. Although the Town of Breckenridge has remained below that threshold in recent years, the Town, along with neighboring water providers, looks to set an example for other mountain communities in preserving the natural environment and promoting conservation values. This water efficiency plan serves to describe the Town's history of water saving activities and future plans. The Town also seeks to leverage regional partnerships to effect change and encourage all residents and visitors to reduce water use.

3.2 THE PLANNING PROCESS

In 2017, High Country Conservation Center, Middle Park Conservation District, and five water providers in Summit County (Copper Mountain Consolidated Metropolitan District, Town of Breckenridge, Town of Dillon, Town of Frisco, and Town of Silverthorne) convened a project for the development of a regional water efficiency plan. Water efficiency plans were also developed for four of the individual water providers (excluding Town of Silverthorne) to represent the unique needs and opportunities for each service area. The regional water efficiency plan, developed for the Blue River Watershed within Summit County, elevates common themes and water saving opportunities outside of the participating service areas, and



provides opportunities for partnership and collaboration amongst the participating utilities. Plan development was supported through a combination of grant funding from the Colorado Water Conservation Board (CWCB) under the Water Conservation Planning grant program, and cash and in-kind contributions from the participating providers.

The water efficiency plans were developed in accordance with the State of Colorado's Municipal Water Efficiency Plan Guidance Document (CWCB 2012). The plans were drafted using information and guidance provided by utility and planning staff in each community. Additionally, a diverse stakeholder group was formed to provide input on water savings goals, water efficiency activities, and implementation actions. In 2017, more than 30 stakeholders participated in a series of four planning workshops (baseline review, draft goals and efficiency activities, revised goals and efficiency activities, and implementation). Upon completion, the plans underwent a series of reviews by utility staff, the stakeholder group, the public, and CWCB staff. Finally, plans were submitted to the appropriate governing entity (town council or District board, as appropriate) for adoption.

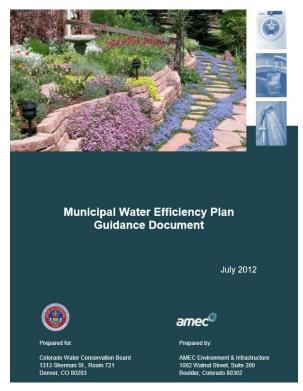


Figure 1. State of Colorado Municipal Water Efficiency Plan Guidance Document





3.3 OUR WATER VISION

The stakeholder group developed a vision statement to guide efforts in the Blue River Watershed towards regional water efficiency.

VISION STATEMENT

Our vision is for water providers to continue supplying reliable, high quality water to the residents and visitors of Summit County while also:

- Protecting the natural environment upon which our economy and prosperity are based.
- Ensuring the sustainability of our mountain lifestyle for current and future generations.
- Fostering a culture of environmental and social responsibility through education and actions.
- Inspiring collaboration and responsible stewardship of water resources across the State of Colorado.



4 SERVICE AREA CHARACTERISTICS

4.1 BOUNDARIES

The Town of Breckenridge was founded as a small mining camp in 1860 during the gold rush but has since evolved into a popular destination for skiers and summer recreationalists. The Town encompasses 5.3 sq mi in the Upper Blue River watershed on the west slope of the Continental Divide.

The Town provides water services to its incorporated area and adjacent unincorporated areas (including Summit County High School). In December 1995, the Blue River Water District was consolidated into the Town of Breckenridge. The District's water rights, facilities, and service area were transferred to the Town at that time (NWCCOG 2004). **Figure 2** shows a map of the current water service area.

Due to the proximity of federal lands, and the high degree of buildout on the surrounding unincorporated areas, there is limited potential for the Town to expand its borders. Projected growth is expected from infill and redevelopment more than expansion.



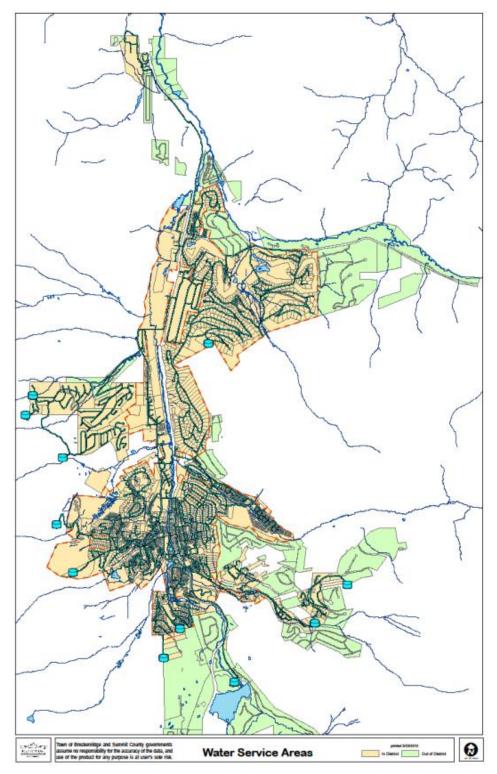


Figure 2: Town of Breckenridge Water Utility Service Area



4.2 POPULATION

Breckenridge is best known for the ski resort and attracts many visitors. As such, tourism in the area introduces a high degree of seasonality and variability into the service population. The Town estimates three service population pools:

- The permanent service population, which includes Town residents plus people living outside Town limits but served by the municipal water supply system.
- Day visitors, which are defined as visitors that do not stay overnight.
- The transient population, which is defined as visitors that stay overnight.

It is difficult for the Town to estimate the visiting population served. **Figure 3** presents a breakdown of the 2010 estimated service population of 42,547 into these three population pools. Looking forward, the Town anticipates that the permanent service population and transient population will grow on average by 2.2% each year (HDR 2014). The Town assumes 0.3% average annual growth in the day visitor population served.

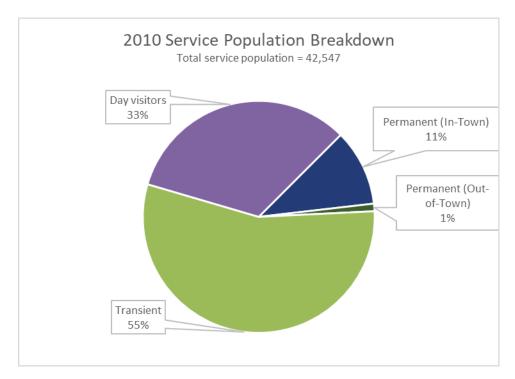


Figure 3. 2010 Service Population Breakdown

The Town also uses Single-Family Equivalents (SFE) as the basis for utility capacity planning efforts and as another measure of service area growth. For the residential sector (including single-family homes and duplexes), 1 SFE covers up to 2,000 sq ft. Each additional square foot adds 0.00016 SFE. In the residential sector, a good rule of thumb is 3 people/SFE to approximately convert between population and SFE. In the commercial sector, buildings are assigned SFE values based on a variety of factors depending on the business type (TOB 2017d). Since 2003, total SFE values in the Town have increased by 1.8% on average year-over-year (**Figure 4**).



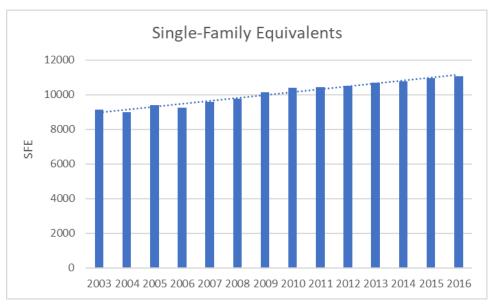


Figure 4. Total (Residential and Commercial) Single-Family Equivalents (2003-2016)

4.3 RESIDENTIAL SECTOR

Housing in the Town reflects the characteristics of a recreational destination. Approximately 69% of the available housing units are designated as multifamily housing (ACS 2015). The remaining housing units are single-family detached (22%) and single-family attached (9%) homes. The average home age is about 30 years old.

Older buildings in the Town represent an opportunity for indoor water savings through the replacement of indoor fixtures and appliances. The high proportion of multifamily units and the transient population represent challenges for water education and outreach efforts. The Town aims to engage and influence the visiting population to effect long-lasting water savings.

4.4 COMMERCIAL AND INDUSTRIAL SECTOR

The largest employment sectors in Breckenridge are the entertainment, food services, and accommodations associated with the ski resort, which provides about 40% of the 2,819 jobs in the Town (ACS 2015).



5 EXISTING WATER AND WASTEWATER SYSTEM

5.1 RAW WATER SUPPLIES

The Town of Breckenridge has a diverse portfolio of water rights that includes direct streamflow rights, storage rights, and augmentation water. All water supplies come from the Blue River and its tributaries. The Town has three points of diversion:

- Water diverted from the Blue River at Goose Pasture Tarn (an 800 ac-ft reservoir located on the Blue River upstream of Town) is sent to the primary water treatment plant and serves most of the service area demands, including snowmaking deliveries to the ski area. The Town has senior water rights dating back to 1885 to divert 4.87 cfs at this location.
- The Town has junior rights to divert water from South Barton Gulch to the Peak Seven Water Treatment Plant, which was acquired from the Blue River Water District and serves the former District's service area. The plant has been inactive since 2004 but can be operated to provide water in an emergency if needed.
- Water diverted from the Swan River near its confluence with the Blue River is used for irrigation water for the Town's golf course.
- The Town will have an alternate point of diversion on the Blue River near Swan Mountain Road for the new water treatment plant that will be online in 2020.

For storage rights, the Town owns (NWCCOG 2004):

- 400 ac-ft of storage in the Goose Pasture Tarn
- 50 ac-ft of water in the Upper Blue River Reservoir, upstream of the Tarn, that is available for use between April and November
- 12 ac-ft in Sawmill Reservoir
- 800 ac-ft in Green Mountain Reservoir
- 130 ac-ft in Clinton Reservoir
- 100 ac-ft in Windy Gap Reservoir

Based on current development projections, the Town estimates that treated water demands at buildout will be 3,506 ac-ft/yr and that raw water demands will be continue at current levels of approximately 520 ac-ft/yr for snowmaking and golf course irrigation (NWCCOG 2004). The Town's current water rights portfolio is sufficient to meet demands through buildout.

The Town of Breckenridge is committed to maintaining flows in the Blue River that are environmentally beneficial and has signed an agreement with the CWCB to establish minimum instream flow levels. To help the Town meet the instream flow requirements, while still being able to maximize use of water rights during low flow periods, the Town obtained a conditional decree for 2 cfs that allows water to be diverted from the Miners Creek Ditch to the Blue River upstream of the instream flow gage.



5.2 TREATMENT AND DISTRIBUTION

5.2.1 Potable Water

The Town's primary water treatment plant (Gary Roberts WTP) was built in the 1970s and has the capacity to produce 5 MGD. Conventional treatment processes are used to produce water that meets drinking water standards. This plant is expected to meet the needs of the Town through at least 2026 (HDR 2014).

The Peak Seven WTP has historically been used to provide water to the Peak Seven neighborhood, but the water source is unreliable during low flows. As a result, the plant has been inactive since 2004 but can be operated to provide water in an emergency if needed. The plant's capacity is 0.5 MGD, although production is generally limited to 0.25 MGD from October-April based on streamflow availability (NWCCOG 2004).

The water system is gravity fed from the Goose Pasture Tarn Reservoir, with the option to pump into the Gary Roberts WTP from the reservoir spillway pool. The distribution system comprises 100 miles of pipeline in 16 pressure zones (**Figure 5**). The pressure zones are served by 10 pumping stations, eight of which are associated with storage tanks and two of which are used to augment system pressures. Each of the pumping stations has operational redundancy. Because of the elevation change, the system can have some issues with high pressures in the lower valley neighborhoods. The distribution mains are equipped with pressure-reducing valves. All customers in these areas are required to have pressure-reducing valves as well.

The Town has a total treated water storage capacity of 7.5 MG in eight storage tanks. The combined storage is sufficient to meet system needs for 24 hours on a peak day with fire demand and to meet peak hourly demands (TOB 2004).

5.2.2 Non-Potable Water

The Town distributes raw (non-potable) water for snowmaking and municipal golf course irrigation. Snowmaking is limited to 400 ac-ft/yr and by water rights can only be used between October 1st and January 31st of each year.



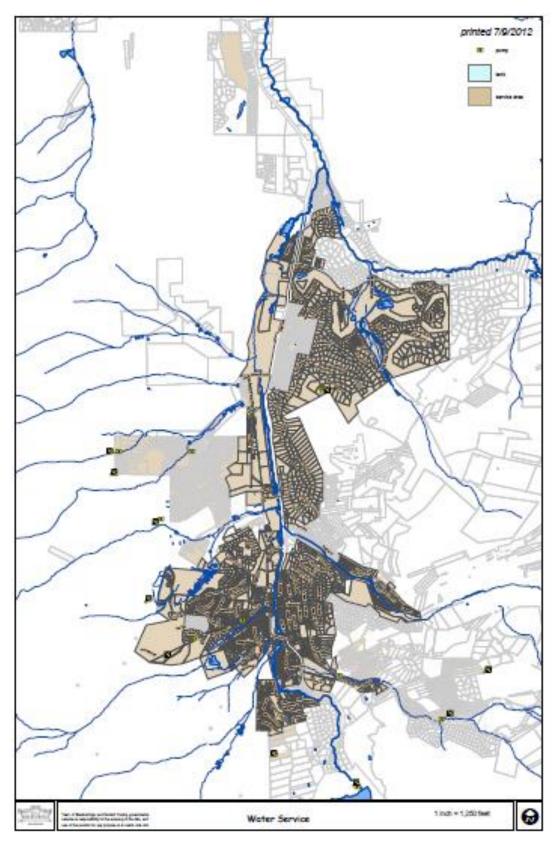


Figure 5: Water Distribution System



5.3 WATER SALES AND NON-REVENUE WATER USES

The Town of Breckenridge sells potable water to residential and commercial customers and raw water to the ski resort. Non-revenue water uses include firefighting, municipal uses (golf course and park irrigation, Town projects, street sweeping), hydrant flushing, system leaks, construction water, and other bulk water that is metered but not billed. More information on non-revenue water is included in **Section 0** as part of the discussion on historical system demands.

5.4 WATER RATES AND BILLING

In 2001, the Town adopted an inclining block rate structure to discourage excessive water use. The water pricing structure was last adjusted in 2014 to reduce the base usage allotment (from 12,000 gal to 10,000 gal) and to increase the price for use above the base allotment. Both changes were intended to encourage water conservation.

The price that customers pay for their water is a function of customer type (residential or non-residential), building size, and service location. The pricing structure is based on SFE values. Non-residential (commercial) rates and usage allowances are defined additionally by the water tap size. Customers outside of Town limits pay more than customers within Town limits. The 2017 water rates for residential and commercial customers are shown in **Table 1** and **Table 2**, respectively. Customers are billed every two months for their water use. Rates are adjusted each year based on debt, operations, and capital obligations.

Table 1: 2017 Residential Water Rates

	Pricing Rate (per SFE per billing period)		
Pricing Tier	In-Town	Out-of-Town	
Base Rate (Use < 10 kgal)	\$36.17	\$54.26	
Use > 10 kgal	\$5.51/kgal	\$8.27/kgal	

Table 2: 2017 Non-Residential (Commercial) Water Rates

			Pricing Rate (per SFE per billing period)	
Pricing Tier	Tap Size	Usage allowance	In-Town	Out-of-Town
Base Rate	<1"	13 kgal	\$41.43	\$62.15
(based on tap size)	1"	20 kgal	\$62.15	\$93.23
	1.5"	35 kgal	\$108.45	\$162.68
	2"	54 kgal	\$170.77	\$256.16
	3"	105 kgal	\$328.36	\$492.54
	4"	162 kgal	\$507.60	\$761.40
	6"	318 kgal	\$997.33	\$1,493.00
Use over allowance			\$3.11/kgal	\$4.66/kgal

The Town has a contractual agreement with the Breckenridge ski area that sets the terms for storage of 100 ac-ft and delivery of an additional 300 ac-ft of snowmaking water, for a total of 400 ac-ft. The contract expires in 2025.



5.5 WASTEWATER COLLECTION AND TREATMENT

Most of the Town's wastewater flows are treated by the Upper Blue Sanitation District (formerly the Breckenridge Sanitation District), a special district that is independent of the Town of Breckenridge.

5.6 System Reliability, Limitations, and Future Needs

5.6.1 Reliability

The Town's water system is highly reliable. The Town has never suffered from a loss of water supply or a failure to meet system demands, even during the significant droughts that occurred in 2002 and 2012. The Town's water rights portfolio and current treatment and distribution system have the capacity to serve 104% of the projected system demands at buildout during a dry year in the winter at peak population (TOB 2004). The pumping stations and treatment plant have redundancy with the pumps and other mechanical equipment.

5.6.2 Vulnerabilities

5.6.2.1 Wildfire

The Town's sole source of water is surface water, which is vulnerable to the effects of wildfires. When they do occur, wildfires create a triple threat to surface water quality:

- They increase the amount of rainfall during a storm event that is available for runoff. Wildfires burn vegetation whose canopy would normally intercept rainfall and whose roots would uptake water.
- They increase pollutant loads during subsequent storm events. Wildfires leave large amounts of debris and surface disturbances in their wake. In addition to the debris and sediment loads clogging intake infrastructure, source waters often experience spikes in turbidity, coliforms, total organic carbon, iron, manganese, and ammonia.
- They increase the surface runoff that occurs from subsequent storm events. Wildfires affect topsoil properties, making ground surfaces hydrophobic, so that water runs off rather than being infiltrated.

Wildfires can also affect the available quantity of water, if debris constricts water flow or alters the river channel.

The WTP feasibility study conducted for the Town recommended the development of a wildfire response plan (HDR 2014). A follow-up study found that two factors may help protect the Town's water supply system in the event of a wildfire (Tetra Tech 2015):

- There is generally enough time between wildfire season and spring runoff season to implement measures that mitigate runoff and erosion.
- The availability of a second WTP downstream of the current WTP may allow for additional sediment and debris settling in the river channel, reducing influent contamination.

In 2017, the Town entered into a memorandum of understanding with the US Forest Service for the development and implementation of a pre-fire vegetation management plan (TOB 2017e). The plan will identify forest health and restoration treatments aimed at reducing wildfire risks and protecting source water quality.

5.6.2.2 Drought

Summit County has experienced significant periods of drought six times in the past 35 years, with the most recent occurring in 2002 and 2012 (AMEC 2013). While the Town has been able in the past to



provide sufficient water supplies to meet demands, droughts have highlighted the need for utility planning to avoid shortages in the future, particularly if a severe, multi-year drought were to occur.

The Town feels confident using Blue River as the sole source of water due to its reliability. Even in recent drought years, the flow rate in the Blue River has been sufficiently high to provide a reliable water source. If needed, the Town of Breckenridge does have raw water storage that serves as a drought mitigation measure. The Town has not had to draw upon these reserves since the WTP was built in the 1970s.

During the 2002 drought, the Town was concerned that low flows in the North Fork of the South Barton Creek would drop too low to continue operating the Peak Seven WTP. Due to this concern, the Town added a pumping station that allows the Peak Seven service area to be served by the Gary Roberts WTP. The Peak Seven WTP was shut down and has been designated as an emergency plant in case of a main break interrupting water delivery from the Roberts WTP.

5.6.3 Future Needs

The Town's capital improvement plan includes several projects to maintain and improve the water system. These projects include:

- **Repairing the Goose Pasture Tarn dam.** Concerns about the dam's safety have reduced the working capacity of the reservoir from 800 ac-ft to 567 ac-ft. Dam repairs are the highest priority for the Town and should be completed by 2022.
- **Repairing storage tanks.** In 2017-2021, the Town will work to rehabilitate several storage tanks.
- **Building a second water treatment plant.** The Town intends to build a second WTP to augment the Gary Roberts WTP to improve system redundancy. The new plant is expected to be completed by 2020. The treatment plant will be located downstream of the Gary Roberts WTP and also downstream of the confluences of several tributaries with the Blue River. This location is expected to provide additional resilience to the system in response to drought and climate change impacts. The new plant will have a capacity of 3 MGD, with the possibility of increasing to 4.5 MGD in the future and can serve the needs of the entire system if needed during certain times of the year. As the new treatment plant comes online, potential customers outside of the current service area who are near water mains will be able to apply to be on the Town's water service. Petitions will be considered by Town Council on a case-by-case basis.
- **Rehabilitating the existing water treatment plant.** The Gary Roberts WTP is currently being serviced to repair a leaking flocculation chamber. After the new WTP begins operating, the Town intends to shut down the plant for a full rehabilitation that will take approximately five years, estimated to take place from 2021-2025.
- **Replacing cast iron mains.** When the Town took over Blue River Water District, part of the acquisition included cast iron water mains that were installed without proper bedding. The Town typically experiences 3-5 leaks per year from these mains. The Town has already replaced or lined some of these mains and intends to continue replacing the mains over a five-year period starting in 2022.



6 HISTORICAL WATER DEMANDS AND DEMAND MANAGEMENT

6.1 HISTORICAL WATER DEMANDS

The Town tracks several measures of system production, system efficiency, and water use patterns. The following sections present information that describes historical systemwide demands. All readily available information is presented; it should be noted that the period of available data varies among metrics. **Appendix A** contains a summary of all data presented in this plan.

6.1.1 Annual Water Use

Annual water production volumes for the period 2000-2016 are shown in **Figure 6** (TOB 2017c). The values have not been normalized for weather or other factors that affect water demands from year to year. The Town has experienced an average decline of 1.4% year-over-year in annual water production volumes over this period. Peak annual production occurred in 2008 at about 2,400 ac-ft and has been consistently lower since then.

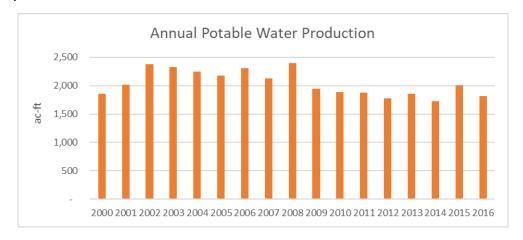


Figure 6. Annual Potable Water Production (2000-2016)

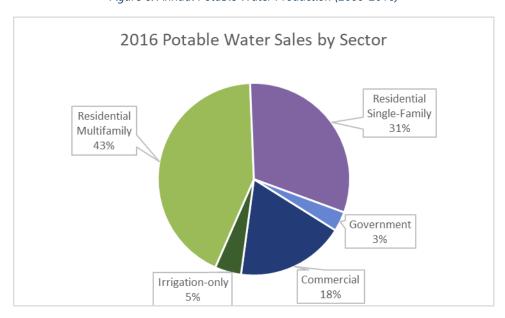


Figure 7: 2016 Potable Water Sales by Sector



Figure 7 presents a breakdown of water production by customer type for 2016. The Town tracks water uses in six sectors:

- Residential Single-Family: Total residential use represents 74% of the total water use in Breckenridge. Water use in the single-family sector accounts for 31% of the total use.
- **Residential Multi-Family:** Water use in the multifamily sector accounts for 43% of the total use. Condominiums and the resorts at the base of the ski mountain are billed under the multi-family residential rates, even though there may be small commercial spaces included on the water meter. The largest water users in the residential sector tend to be multi-family buildings, especially if the buildings are mixed use and include restaurants.
- Irrigation-only: The irrigation-only sector (5% of total water use) represents outdoor use that is on a separate irrigation meter, including the Town's irrigation and some irrigation demands from multifamily housing. While the Town encourages all developments to install separate irrigation meters, most irrigation use is captured in the residential and commercial sector values.
- **Commercial:** Commercial customers account for about 18% of the total water use. The largest water users in the commercial sector include multi-use or multi-tenant commercial buildings, especially those that include restaurants, laundry facilities, or public restrooms. Other top commercial users include stand-alone restaurants and laundry facilities.
- Government: The Town tracks government use separately (3% of total water use). This sector includes use by the Town of Breckenridge and Summit County.

Annual production volumes, potable water sales, and potable sales by sector for the period 2011-2016 are summarized in **Table 3**. Additional data are included in **Appendix A: Plan Data**.

Residential Residential **Total Total** Single-**Multi-Family** Irrigation-Commercial Government **Production** Sales **Family Sales** Sales only Sales Sales Sales Year (ac-ft) (ac-ft) (ac-ft) (ac-ft) (ac-ft) (ac-ft) (ac-ft) 1,196 2011 1,878 n/a n/a n/a n/a 2012 1,779 n/a 1,226 n/a n/a n/a 2013 1,853 1,310 n/a n/a n/a n/a 2014 747 478 1,731 1,596 63 308 0 2015 1,582 654 566 0 2,006 63 299 2016 1,640 701 54

73

300

Table 3: Summary of Production, Total Potable Sales, and Potable Sales by Sector

1.815

512

6.1.2 **Seasonal Water Use Patterns**

Since 2014, outdoor water use has represented a relatively small percentage (15%) of annual demands. This estimate includes billed use from dedicated irrigation meters plus a seasonal analysis of combined meters to estimate outdoor use (Figure 8). Small increases in water use that occur November-March (7% of annual demands) are driven by the influx of transient residents and day visitors during ski season. More than 77% of annual demands represent indoor water use by commercial and residential customers.

^{*}n/a = data not available

^{**}only combined residential sales data are available for the period 2011-2013

^{***}The Town also provides 400 ac-ft/yr of raw water for snowmaking.



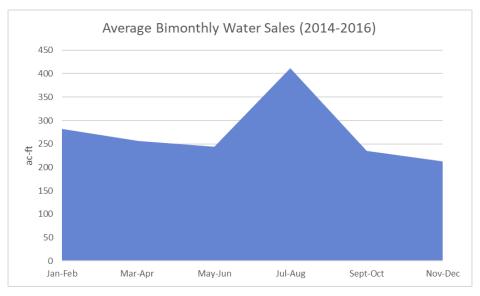


Figure 8: Average Bimonthly Water Sales (2014-2016) - Excluding Snowmaking

6.1.3 System Consumptive Uses and Return Flows

Consumptive use represents the portion of the water demands that are removed from available supplies without returning to the watershed. Examples of consumptive use include evapotranspiration from irrigated lands and evaporation from indoor appliances. **Table 4** presents a summary of monthly consumptive use estimates for the Town's water supply (NWCCOG 2004).

Table 4. Monthly Consumptive Use (CU) and Return Flow (RF) Estimates (NWCCOG 2004)

Month:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
% CU	5%	5%	5%	5%	17%	21%	23%	22%	14%	5%	5%	5%
% RF	95%	95%	95%	95%	83%	79%	77%	78%	86%	95%	95%	95%

Consumptive uses and relative impacts to the watershed were considered during the planning process when selecting future efficiency activities.

6.1.4 Non-Revenue Water

Historically, the Town has had trouble with system leaks, including multiple main breaks each year and a long-running line leak under one of the pumping stations that was repaired in October 2017. These leaks, the Town's hydrant flushing program, and other contributors have led to relatively high amounts of non-revenue water, which is the portion of the water produced but not sold to customers. In 2015-2016, monthly estimates of non-revenue water have ranged from 5-30% per billing period (**Figure 9**), with annual losses of 13-21%. Other contributors to non-revenue water include hydrant flushing, non-metered water use, and malfunctioning meters that don't properly record water use.



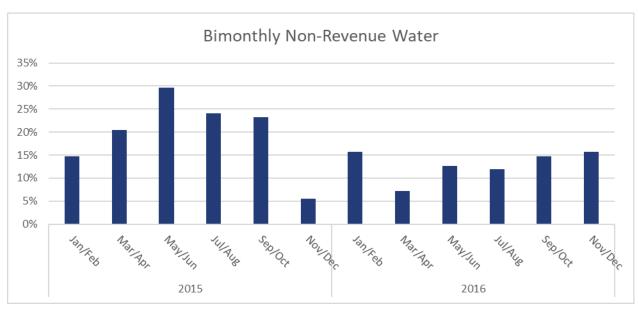


Figure 9: Bimonthly Non-Revenue Water (2015-2016)

6.1.5 System-Wide Water Use Metrics

The Town uses system-wide water use metrics to inform water savings estimates and demand forecasts. The Town's primary metric for assessing system-wide water use is water produced per single-family equivalent per day. As the metric is currently calculated, it includes non-revenue water. Over the period 2003-2016, system-wide per SFE water use in the Town has declined by 3.1% on average year-over-year (**Figure 10**). The declines experienced in total production and system-wide per SFE water use, having occurred during a time of service population growth, indicate improved water efficiency trends.

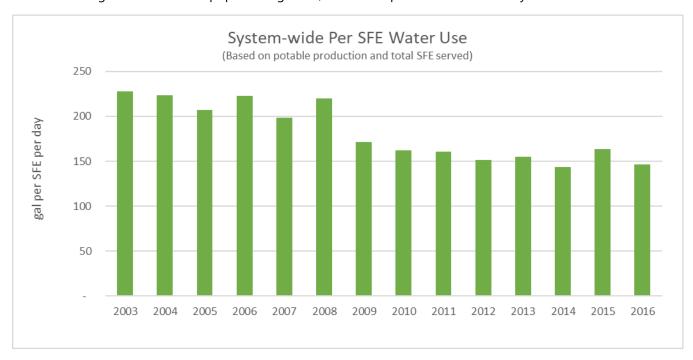


Figure 10: System-wide Per SFE Water Use (2003-2016)



It's worth noting that normalized water use metrics are most useful for assessing trends internal to a system rather than comparing across water providers. As noted in the Municipal Water Efficiency Plan Guidance document (CWCB 2012):

[Normalized water use metrics] should not be used as a means to compare water usage between other providers. This is partially attributed to [...] the fact that there are many other factors that can skew the data, negating an "apples-to-apples" comparison. Such factors include large commercial and industrial sectors that can significantly influence system-wide per capita water demands. Additionally, resort communities can experience difficulties in developing representative annual per capita water demands. The numbers of visitors often vary seasonally (e.g. ski season) and are also impacted by economic conditions and weather.

6.1.6 Residential Water Use Metrics

The Town's primary metric for assessing residential water use is per capita water use. The Town calculates per capita water use values using residential sales (including both the single-family and multifamily sectors) and the average residential population served, which is estimated at twice the permanent service population to account for the visiting population.

Figure 11 presents the per capita water use values for the period 2011-2015, which have averaged 104 gpcd during this period.

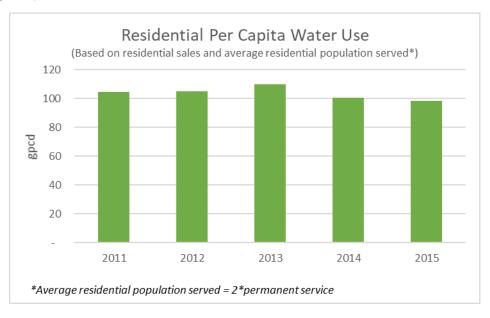


Figure 11: Residential Per Capita Water Use (2011-2015)

6.2 PAST AND CURRENT DEMAND MANAGEMENT ACTIVITIES

6.2.1 Metering and Data Collection

In 2005, the Town installed an automatic meter reading (AMR) system and replaced all water meters. The meters are read bimonthly to align with the billing cycle.

The Town encourages residential and commercial developments to install separate meters for indoor and outdoor water use to better monitor irrigation use, but only a small number of properties currently have a separate meter. Separate meters for separate uses are also encouraged for mixed-use buildings.



6.2.2 System Water Loss Management and Control

Since 1978, the Town has conducted annual system-wide leak detection audits (TOB 2004). Many of these leaks can be difficult to address. Depending on the time of year, ground heaters must be deployed before the pipe can be accessed and repaired. There are also smaller leaks in inaccessible areas (e.g., under pumping stations), that may take several months to access and repair. Because of the relatively high system losses from leaks, the Town invests significant resources in leak detection and upgrading the water mains through linings and replacements. This effort has resulted in fewer leaks – the Town used to get 5-7 leaks per year but now experiences about 3 leaks per year.

Since 2005 when the AMR system was installed, the Town has evaluated customer leaks every two months based on abnormally high bills. Leaking toilets are the most common source of customer leaks.

6.2.3 Efficiency-Oriented Rates and Fees

As discussed in Section 5.4, the Town has adopted an inclining block rate structure to encourage water efficiency.

The Town also charges a Plant Investment Fee (PIF) anytime a new structure is built, or an existing structure is substantially remodeled. This fee represents the cost to connect to the Town's water system. The PIF for 2017 is \$7,703 per SFE within Town limits, or \$9,629 per SFE outside of Town limits. The Town's PIF is structured to encourage water efficiency by using building size to determine the total fee. As an additional water-saving incentive, fees for self-service car washes that use recirculating systems are one-half the regular fee (TOB 2004).

6.2.4 Water Use Regulations

6.2.4.1 Outdoor Water Use

In 2014, the Town of Breckenridge adopted a water conservation ordinance governing outdoor water use (TOB 2014a):

- Outdoor watering for non-drip systems is limited to three days per week at night (during the hours of 5 pm-9 am).
- Car and pavement washing is permitted anytime as long as a hose with a shutoff nozzle is used.
- Exceptions include outdoor watering:
 - o By drip irrigation, watering can, or hose with a shutoff nozzle.
 - o Of new lawns and landscaping within two years of installation.
 - o Of public school property, including athletic fields.
 - Within the Town's public parks.
 - o At the Town's municipal golf course.
- Violations of these policies will result in the following fines:
 - 1st violation: Warning only (no fine)
 - o 2nd violation: \$250 fine
 - o 3rd violation: \$500 fine
 - o 4th & each additional violation: \$750 fine

Additionally, the Town's landscape policy in the development code includes incentives for landscaping with native species that can tolerate high-altitude conditions and require little irrigation once established (TOB 2018a). Some of the policy guidelines include:

• Landscaping materials should consist of native species appropriate for the high altitude.



- Landscaping materials should consist of those species that need little additional water (beyond natural precipitation) to survive.
- Native species are the most drought tolerant after establishment. Xeriscaping with native species is encouraged.
- At least 50% of the site area not being used for buildings or other impervious surfaces should be kept in a natural/undisturbed state. Native grasses, wildflowers, and native shrubs are desirable features to maintain.

The Town discourages the use of large areas of sod or other nonnative grasses that require excessive irrigation and do not fit the character of the area, the use of excessive amounts of exotic landscape species, and the removal of specimen trees that could be avoided with an alternative design layout.

6.2.4.2 Indoor Water Use

The Town encourages indoor water use efficiency through local and State regulations:

- In March 2014, the Town adopted the 2012 Edition of the International Plumbing Code, International Building Code, and International Residential Code (TOB 2014b). The International Plumbing Code specifies maximum flow rate requirements for water fixtures installed during new construction or major redevelopment. The Town has adopted the plumbing codes to apply to any alternation, repair, or replacement of existing systems.
- Additionally, in 2016, the State of Colorado passed SB14-103, also known as Colorado's Indoor WaterSense Fixture Requirement, requiring that only certified WaterSense fixtures be sold in the State of Colorado.

6.2.5 Turf Replacement

In 2013, the Town replaced the turf on the athletic fields at the Town's recreation center with artificial turf. While the motivation was to make the fields more resilient to heavy use, the replacement also reduced irrigation use at the recreation center.

6.2.6 Business Recognition Program

In 2013, as part of the SustainableBreck initiative, the Town started a voluntary business certification program to help local businesses become more sustainable while also saving money (TOB 2013). To participate, interested businesses conduct a self-assessment around water use (in addition to energy, waste, transportation, etc.) and then apply to the Town to become a Certified Green Business. In 2016, 38 businesses were actively participating in the program, and 24 businesses had been certified, with six achieving Gold Level certification (TOB 2017a).

6.2.7 Public Outreach and Education Activities

The Town's website provides water conservation tips including resource links to help customers understand and reduce their water footprint, check for water leaks, and reduce outdoor water use. The Town's Water Division staff also help educate customers about ways to reduce their water use when contacted, usually after receiving a high bill.

6.2.8 Historical Water Savings

In 2007, the Town conducted an extensive capacity analysis to establish baselines for a number of indicators, including water production. Since the 2007 baseline, the Town has experienced an average reduction of almost 2% on average each year in water production, for a total water savings of 15% over the period 2007-2016 (TOB 2017a).



7 WATER EFFICIENCY GOALS AND DEMAND FORECASTS

The Town of Breckenridge is currently using two planning horizons: through 2025 (for the purposes of this water efficiency plan), and through the period 2019-2040, when buildout is expected to occur (HDR 2014).

As part of the preparation of this water efficiency plan, three demand forecasts were developed (**Figure 12**):

- *High growth.* This is a high growth forecast developed using the following assumptions:
 - System-wide per SFE water use of 160 gal/SFE/day.
 - o Growth in the service population by 159 SFE/year.
- **Business-as-usual.** This forecast accounts for population growth as well as the trend of historically declining water demands.
- Active efficiency measures. With additional efficiency activities implemented in the future, the
 Town anticipates that a reduction in demands could be achieved, on the order of -2% on average
 year-over-year.

The demand forecasts diverge in 2018, when implementation of new efficiency activities is assumed to begin. **Appendix A: Plan Data** includes tabular summaries of the demand forecasts.

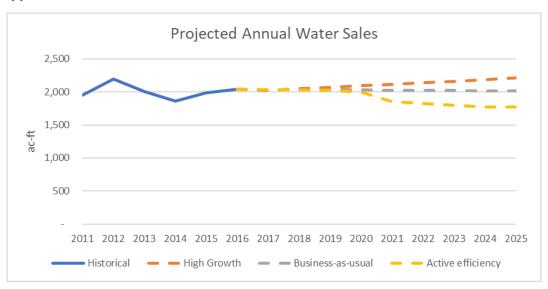


Figure 12: Projected Annual Water Sales (through 2025)

TOWN OF BRECKENRIDGE WATER EFFICIENCY GOALS

Over the period 2018-2025, the Town aims to implement additional efficiency activities that will build on the downward trend in water use to achieve:

- A 10% reduction in annual demands by 2025, compared to 2016 demands.
- A reduction in peak demands during the summer associated with outdoor water use.

While explicit water quality goals have not been set in relation to these water conservation goals, the Town aims to maintain or enhance existing water quality.



8 SELECTION OF ADDITIONAL WATER EFFICIENCY ACTIVITIES

The Town plans to implement additional water conservation measures to supplement current activities and achieve the water efficiency goals presented in **Section 7**. Future activities were identified using multiple factors that included utility priorities, stakeholder input, opportunities for water savings, technical feasibility, and implementation capacity. When feasible, the efficiency activities were quantified in terms of their potential for water savings, customer sectors and end-uses impacted by the measure, and implementation costs. A summary of activities that the Town aims to implement over the next seven years is shown in **Table 5**.

Table 5. Summary of Planned Water Efficiency Activities

Water Efficiency Activity	Sectors Impacted	Implementation Period	Projected Water Savings in 2025	
	Foundational Activities	•		
Billing Upgrades	All Customers	2018-Ongoing	2 ac-ft/yr	
Advanced Metering Infrastructure and Enhanced Water Loss Control	All Customers	2020-Ongoing	115 ac-ft/yr	
Conservation-Oriented Rates	All Customers	2019-Ongoing	123 ac-ft/yr	
Institutional Collaboration	Utility	2017-Ongoing	Not Quantified	
Targeted Technical Assistance and Incentives				
Indoor Water Efficiency	Residential	2018-Ongoing	1 ac-ft/yr	
Outdoor Water Efficiency	Residential & HOA	2019-Ongoing	10 ac-ft/yr	
	Ordinances and Regulation	ons		
Land Use Planning	All Customers	2017-Ongoing	Not Quantified	
	Education Activities			
Education and Outreach	All Customers	2018-Ongoing	Not Quantified	
		Total Savings in 2025	251 ac-ft/yr	

8.1 FOUNDATIONAL ACTIVITIES

8.1.1 Billing Upgrades

The Town intends to partner with a contractor to provide customers with the WaterSmart Report Card. The report card will give customers more detailed information about their water usage, how their usage compares to similar customers, and suggestions for improving their efficiency. The Town assumes that the top 5% of customers (in terms of annual water use) will reduce consumption by 1%. The program is expected to start in 2018 with an estimated cost of \$12,000 per year. Once fully implemented, it is expected to help the Town conserve 2 ac-ft/yr of water. In addition to the quantified water savings, public engagement associated with the report card will be extremely valuable.

8.1.2 Advanced Metering Infrastructure and Enhanced Water Loss Control

Upgrades from AMR to AMI meters are included in the Town's list of capital improvement projects. Once all meters have been upgraded, the Town should be able to realize additional revenues and to identify customer leaks more effectively. The Town assumes that the program will lead to annual water savings representing 7% of residential and commercial use (115 ac-ft/yr). Most of these savings will be realized



through improved leak detection, while the remainder will be through enhanced customer engagement. The program is expected to cost approximately \$365,000 per year from 2020 to 2025. These costs include capital expenditures as well as increased staff costs associated with customer engagement.

8.1.3 Conservation-Oriented Rates

In 2019, the Town will evaluate potential changes to the pricing structure to better incentivize water conservation. The rate study is estimated to cost \$20,000 as an upfront cost with no ongoing costs. Updates to the pricing structure are expected to have the potential to help the Town conserve 123 ac-ft/yr of water. These water savings estimates assume that customers will reduce consumption by an average of 7.5% per year. The Town will only adjust the pricing structure if the changes won't jeopardize revenues or affect financing for the new water treatment plant. Changes to the pricing structure, if made, would take effect in 2020.

8.1.4 Institutional Collaboration

This planning process offered an opportunity for Town departments to align around water supply and water conservation planning. In the future, the Town seeks to continue interdepartmental communications and will continue to participate in a regional water conservation committee convened by High Country Conservation Center. Additionally, the Town will work with the Water Task Force to evaluate the impact of water conservation activities.

8.2 TARGETED TECHNICAL ASSISTANCE AND INCENTIVES

8.2.1 Indoor Water Efficiency

The Town intends to promote a regional indoor water efficiency program being developed by a working group and led by High Country Conservation Center. The program is envisioned to include two components:

- Residential indoor water audits that include direct installation of some water-saving fixtures, specifically showerheads and faucet aerators, as well as customized recommendations for additional water savings.
- Commercial outreach through High Country Conservation Center's Resource Wise sustainable
 business program (Figure 13). In addition to providing recommendations on opportunities to
 save water, High Country Conservation Center can provide direct installs of toilet bricks and prerinse spray valves and rebates covering 50% of the cost of water-saving projects up to
 \$400/business.

Additional information about the indoor water efficiency program is included in **Appendix C**. Once implemented, the indoor water efficiency programs are expected to save the Town 1.2 ac-ft/yr of water.





Resource Wise is a *free* program designed to help Summit County businesses decrease their environmental impacts.
Services provided include:

- Energy and sustainability assessments
- Coaching
- Rebates for business improvements
- Local recognition
- NEW FOR 2018: Installation of LED tubes, occupancy sensors, watersaving devices, and air sealing work

To enroll, call the High Country Conservation Center at (970) 668 - 5703 and ask to speak with Jess.







Figure 13. Resource Wise Advertisement

8.2.2 Outdoor Water Efficiency

For at least the first two years of implementation, the Town anticipates working with Resource Central's "Slow the Flow" program to conduct outdoor irrigation assessments. An irrigation assessment consists of a 90-minute consultation that includes:

- A customized watering schedule
- Efficiency tests that measure water usage and coverage
- A visual inspection to check for problem areas that waste water
- Minor adjustments to sprinkler heads

For year 1 of implementation, Resource Central is providing 120 free outdoor irrigation assessments for Summit County residents. The costs of these assessments are covered by a grant that Resource Central received from the Gates Family Foundation. In year 2 of implementation, the cost of the assessments will be cost-shared between the grant (50%) and the Town (50%).

In year 3 of implementation and beyond, the Town will evaluate whether to continue participation in the Slow the Flow program or to develop a new regional program based on estimated program costs and staff resources. To achieve the estimated water savings of 10 ac-ft/yr, the outdoor water efficiency program will need to be expanded to offer audits to more customers or to include additional services such as irrigation optimization and/or a landscaper certification program.



Additional information about the outdoor water efficiency program is included in **Appendix C**.

8.3 ORDINANCES AND REGULATIONS

In 2017, as part of the planning process, the Town began participating in a regional land use planning group convened with the intent of reviewing design guidelines and landscaping codes for existing incentives and barriers to water savings. Working group members include representatives from Summit County, municipalities, and the Northwest Colorado Council of Governments (NWCCOG). As such, the code reviews are intended to be conducted at multiple (county, local, regional) levels of government.

The working group will benefit from collaboration with NWCCOG, which was awarded a State Water Plan grant from the CWCB to develop model codes that incentivize water quality and water conservation objectives as well as funding to help five communities in the NWCCOG regional jurisdiction to amend their existing codes.

As the working group is only now being convened, the opportunities for water savings have not yet been identified or quantified. Additional information is included in **Appendix C**.

8.4 EDUCATIONAL ACTIVITIES

Educational efforts are being led regionally by High Country Conservation Center. The top priorities for this group in 2018 include:

- Developing or assembling water conservation materials that are targeted to priority sectors in support of implementation efforts under this plan.
- Developing strategies for engaging the visiting and second homeowner population in Summit County.
- Promoting awareness around joint energy-water savings opportunities.
- Identifying key events and outreach channels for education and awareness efforts.

Additional information is included in **Appendix C**. Water savings from the planned educational programs have not been quantified and are not relied upon to meet the Town's water conservation goals.



9 IMPLEMENTATION AND MONITORING PLANS

9.1 IMPLEMENTATION

The Town's approach to implementing the new water efficiency activities described in **Section 8** includes the following steps:

- Determine the organization responsible for leading the activity.
 - The Town is responsible for the implementation of the foundational activities (billing upgrades, AMI and enhanced water loss control, and conservation-oriented rates) and participation in Resource Central's Slow the Flow program.
 - Land use planners at the local, County, and regional scale are responsible for initiating changes to ordinances and regulations.
 - High Country Conservation Center is responsible for leading institutional collaboration, the indoor water efficiency program, and education and outreach efforts.
- Work with other organizations and partners to develop implementation action plans, define
 funding needs, and exchange information about best practices and lessons learned. The Town has
 already begun this collaboration in working with the High Country Conservation Center's
 executive committee during this water efficiency planning process and by participating on several
 implementation working groups that formed near the end of the planning process.
- Determine funding needs and sources for the activity.
 - For activities to be funded entirely or in part by the Town's operating budget, work within the annual budgeting cycle. This approach will require identifying budget priorities and estimates a year before the activity is to be implemented.
 - For activities to be funded by external sources, look for grant and other funding opportunities. **Appendix B** includes a summary of the implementation resources that were identified during the planning process.

At the end of the water efficiency planning process, three working groups were formed to guide implementation of the regional activities:

- Education and outreach
- Technical water efficiency programs (indoor and outdoor)
- Integrated water and land use planning

Appendix C includes implementation action plans that were developed for each working group to help transition from planning to implementation. The action plans will evolve as the working groups meet and take action.

9.2 PLAN REVIEW, MONITORING, AND UPDATES

The Water Conservation Act of 2004 (HB04-1365) requires that water efficiency plans be made publicly available for review and comment for a period of 60 days, and that the plan be locally adopted by the appropriate governing entity. The Town complied with these requirements by posting the water efficiency plan on-line (**Figure 14**, **Figure 15**) and providing public notice of the plans through the Town's Facebook page, Twitter feed, and High Country Conservation's newsletter (**Figure 16**, **Figure 17**). The public comment period lasted from February 2, 2018 through April 4, 2018.



Breckenridge Water Efficiency Plan 2018 The Water Conservation Act of 2004 (HB04-1365) requires all covered entities, defined as retail water providers that sell more than 2,000 ac-ft/yr, to have a State-approved water efficiency plan. Although the Town of Breckenridge has remained below that threshold in recent years, the Town, along with neighboring water providers, looks to set an example for other mountain communities in preserving the natural environment and promoting conservation values. This water efficiency plan serves to describe the Town's history of water saving activities and future plans. The Town also seeks to leverage regional partnerships to effect change and encourage all residents and visitors to reduce water use.

The Water Division works to provide quality water that meets or exceeds the drinking water standards in sufficient quantities for domestic, commercial, irrigation and fire protection uses.

After a robust stakeholder process during 2017, participating water providers (towns of Breckenridge, Frisco, Dillon and Copper Mountain Metro District), High Country Conservation Center, and Brandle Group have compiled draft water efficiency plans (WEP) now available for public review. These plans will be available to the public for comment through April 4th. Please submit comments for each plan to the associated email contact. Plans can also be found on town websites under the water department. This project was made possible by a grant from the Colorado Water Conservation Board

Click on each image below to view the WEP for each water provider:

Town of Frisco

Town of Breckenridge

Town of Dillon

Copper Mtn. Metro

Blue River Watershed

Figure 1 Town of Breckenridge

Town of Dillon

Copper Mtn. Metro

Blue River Watershed

Email

Email

Email

Figure 14. Screen Capture from the Town's Website (TOB, 2018b)

Figure 15. Screen Capture from the High Country Conservation Website (HC3, 2018)





Figure 16. Screen Capture from the Town's Facebook Page (TOB, 2018c)



Figure 17. Screen Capture from the Town's Twitter Feed (TOB, 2018d)

Concurrently with the public review and comment period, the water efficiency plan was submitted to the Colorado Water Conservation Board for review. Review comments and responses to comments are included in **Appendix D**.

After the plan has been adopted by the Town Council, **Appendix E** will contain a copy of the resolution.



The Town intends to monitor the success of the water efficiency programs using the metrics presented in **Section 6.1 (Historical Water Demands)**. The Town will use **Appendix A** to track the metrics annually. If the Town finds that any of the water efficiency programs are not effective in achieving water savings, or are not cost effective, the programs may be discontinued.

The Town will update this plan every seven years, as required by The Water Conservation Act of 2004. Plan updates will incorporate the new data accumulated from the annual monitoring process and may include revisions to the Town's water efficiency goals and planned activities, as appropriate.



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APPENDIX A: PLAN DATA

Provided in a separate document.



APPENDIX B: IMPLEMENTATION RESOURCES

Organization /		Resource	
Individual	Implementation Resource	Туре	Additional Information
Aaron Clay	Water Law in a Nutshell Workshop	Education and Training	Contact High Country Conservation Center or Middle Park Conservation District
American Water Works Association	Topics area: water conservation programs, water loss control	Technical guidance	<u>Website</u>
American Water Works Association Rocky Mountain Section	Topics: water conservation, tap fees	Training	<u>Website</u>
Colorado Water Conservation Board	Water Conservation Implementation Grants	Grant Funding Source	Website
Colorado Water Conservation Board	Water Resource Conservation Public Education and Outreach Grants	Grant Funding Source	<u>Website</u>
Colorado Water Conservation Board	Water Plan Grants	Grant Funding Source	<u>Website</u>
Colorado WaterWise	Live Like You Love It	Education and outreach materials	<u>Website</u>
Irrigation Association	Topics: landscape water management	Training	Contact Northern Water (2018 training host)
Rural Communities Assistance Program	Topic areas: Water loss control, managerial, financial	Training and technical assistance	Website Contact Jeff Oxenford (720-353-4242)
Sonoran Institute	Land Use and Water Planning Workshop	Education and Training	Website
WaterNow	Project Accelerator Program	Technical and program assistance	<u>Website</u>



APPENDIX C: IMPLEMENTATION ACTION PLANS

EDUCATION AND OUTREACH WORKING GROUP

Last Updated: May 25, 2018

Working Group Role Group coordinators (responsible for scheduling meetings and communications)	Name and Organization Jessie Burley, High Country Conservation Center Hallie Jaeger, High Country Conservation Center
Team members (responsible for helping with action items)	Robert Buras, Town of Dillon Jed Callen, Resident Greg Hardy, Trout Unlimited Katlin Miller, Middle Park Conservation District Barry Rubenstein, High Country Conservation Center Dan Schroder, CSU Extension Julia Stennes, Town of Silverthorne

GOALS

• Initiate a coordinated education and outreach program for water conservation, including promoting all implementation activities

STRATEGIES TO ACHIEVE GOALS

Strategy 1: Develop targeted materials by sector

- Identify top priorities for education and outreach
 - o Landscaper
 - o Indoor
 - o Outdoor
 - Commercial
 - Residential
- Inventory existing materials and resources
 - Water utility websites (Denver Water, Town of Breckenridge, etc.)
 - o Colorado WaterWise (Live Like You Love It)
 - EPA Water Sense
 - Water audit and related service providers
- Adapt existing materials and develop new materials
- Identify outreach channels
 - o Bill enclosures
 - Social media
 - Websites
 - o Events
 - Summit Daily
 - Water Warriors program
 - HC3 Resource Wise sustainable business program
- Disseminate materials



Strategy 2: Engage the visiting population and second homeowners

- Come up with a message and then keep delivering the message because it's a changing population
- Compile a list of HOAs and contact information
- Prioritize 10 HOAs where working group members have personal connections

Strategy 3: Leverage High Country Conservation Center's Energy Programs

• Anytime talk about water, talk about energy, and vice versa

Strategy 4: Aggregate and push out related information and events from other organizations

• For example: EPA's Fix-a-leak week

SUMMARY OF ACTION ITEMS

Action Item	Responsible Team Member	Status
Compile contact list for HOAs	Dan	Complete
Prioritize 10 HOAs	All	In progress
Promote EPA's Fix-a-Leak Week	Hallie/HC3	Complete
Promote HC3's Resource Wise Sustainable Business Program	All	In progress
Promote participation in Resource Central's Slow the Flow program for outdoor audits for customers served by participating providers	HC3 and participating towns	In progress
Promote participation in Resource Central's Slow the Flow program for outdoor audits for customers NOT served by participating providers	Katlin/Dan	In progress
Work on marketing piece on water efficiency and leaks to supply during residential energy audits	All	In progress
Find a list of contractors/plumbers as a resource guide	Jed	In progress
Promote Blue River Explorer Hike	Greg	In progress



TECHNICAL WATER EFFICIENCY PROGRAMS WORKING GROUP

Last Updated: May 25, 2018

Working Group Role	Name and Organization
Group coordinator (responsible for scheduling meetings and communications)	Laura Lynch, Town of Breckenridge
Team members (responsible for helping with action items)	Robert Buras, Town of Dillon Jeff Goble, Town of Frisco Jess Hoover, HC3 Hallie Jaeger, HC3 Cody Jensen, HC3 Zach Margolis, Town of Silverthorne Mike Nathan, A-Basin Ed Pankevicius, Copper Mountain Metro Karn Stiegelmeier, Board of County Commissioners Lane Wyatt, NWCCOG

GOALS

- Pilot a residential indoor audit program
- Expand the HC3 Resource Wise sustainable business program to include more emphasis on water efficiency, including allowing water projects to qualify for rebates
- Promote Xcel Energy's multi-family buildings program
- Reduce outdoor water use while maintaining aesthetics for visitor and resident appeal
- Focus on low-cost/no-cost water savings opportunities and customer education and outreach
- Design, pilot, and implement regional programs aimed at outdoor water efficiency, including outdoor water audits, irrigation system optimization, and landscaper certification

STRATEGIES TO ACHIEVE GOALS

Goal: Pilot a residential program that includes educational materials, audits, direct installs, and/or rebates/incentives.

- Leverage HC3's Energy Smart Colorado program for indoor energy efficiency.
 - At a minimum, assess energy program for best practices and lessons learned to inform water efficiency program design.
 - o Consider leveraging energy program as an education and outreach channel (e.g., leave materials on water efficiency with residents when conducting an energy assessment).
- Research existing residential information and audit programs
 - Evaluate existing residential programs, with an emphasis on comparable mountain communities. For example, Resource Central has a "Slow the Flow" program that includes a residential indoor audit program.
 - Evaluate rebate structures/incentives. Find biggest water savings potential for each potential rebate measure.
 - Evaluate types of direct installs needed. At a minimum, include direct installs of showerheads and faucet aerators.
 - Compile effective educational materials.
- Design a pilot program
 - o Identify water providers interested in participating in the pilot program.
 - o Determine funding needs and sources for pilot program.



- Execute the pilot program.
- Assess performance of the pilot program to inform larger-scale implementation.

Goal: Develop a commercial outreach channel

- Leverage HC3's Resource Wise green business program to connect with businesses and find water savings opportunities.
 - Use the program as an education and outreach channel
 - Leave sector-specific materials on water efficiency with businesses as part of engagement.
 - Hold a Business Lunch n' Learn workshop on water in 2018.
 - Expand the program in offering and implementing recommendations for improving water efficiency based on the results from the sustainability assessment.
 - Add information about the energy-water nexus on summary reports
 - Provide water efficiency recommendations to businesses with low water scores
 - Use available funding (\$400/business) towards water-saving upgrades and projects
 - Direct installs of toilet bricks and pre-spray rinse valves

Goal: Focus on low-cost/no-cost water savings opportunities and customer education and outreach

- Identify largest users (for example, HOAs) and work with customers to better schedule their water use
- Work with landscape companies
 - Create a list of water-efficiency minded landscapers
 - o Educate additional landscape companies
- Identify educational events, for example one county-wide meeting
 - o Annual State of the River
 - NWCCOG QQ meetings
- Educate about joint energy-water savings opportunities
- Develop water budgets using GIS and irrigated lands analysis for customer outreach about the amount of water customers should be using
- Work with City Parks staff on water savings opportunities
- Send out a mailer to contract holders about metering and plantings

Goal: Design, pilot, and implement regional programs aimed at outdoor water efficiency, including outdoor water audits, irrigation system optimization, and landscaper certification

- Years 1-2 of implementation: Take advantage of grant funding available from Resource Central to make Slow the Flow outdoor irrigation assessments available to 120 customers
- Years 3 and beyond: Determine continued participation in the Slow the Flow program versus developing a separate regional program. Expand services beyond audits to system optimization and landscaper certification.
 - Evaluate existing programs for best practices and lessons learned (for example, Denver Water)
 - Identify potential service providers (for example, Resource Central Slow the Flow program)
 - Design and implement a pilot program
 - Implement a regional program

Goal: Reduce outdoor water use while maintaining aesthetics for visitor and resident appeal

• Coordinate efforts with the land use planning working group to evaluate municipal code for updates regarding vegetation requirements



SUMMARY OF ACTION ITEMS

	Responsible Team	
Action Item	Member	Status
Identify fixtures/appliances to target for incentives	Mike	In progress
based on water savings potential		
Research existing residential water efficiency programs	Laura	In progress
Flesh out potential to leverage existing HC3 programs,	Jen	In progress
resource needs, etc.		
Evaluate opportunities for leveraging Resource Wise	Jess and Jessie	In progress



INTEGRATED WATER AND LAND USE PLANNING

Last Updated: May 17, 2018

Working Group Role	Name and Organization
Group coordinator (responsible for scheduling meetings and communications)	Joyce Allgaier, Town of Frisco
Invited team members	Joyce Allgaier, Town of Frisco Graeme Bilenduke, Copper Mountain ski resort Robert Buras, Town of Dillon Jed Callen, Resident Allison Fulton, Copper Mountain Metro Jeff Goble, Town of Frisco Peter Grosshuesch, Town of Breckenridge Torie Jarvis, NWCCOG Katie Kent, Town of Frisco Susan Lee, Town of Frisco Zach Margolis, Town of Silverthorne Mike Nathan, A-Basin Pete Oltman, North Line GIS Ed Pankevicius, Copper Mountain Metro Don Reimer, Summit County Elena Scott, Norris Design Ned West, Town of Dillon Lane Wyatt, NWCCOG

GOALS

Conserve water through collaboration and actions that support all agencies in our region

STRATEGIES TO ACHIEVE GOALS

Strategy 1: Code Amendments

- Engage and/or stay informed about NWCCOG efforts under their Colorado State Water Plan grant.
- Audit codes and additional regulations to identify existing barriers and incentives to water conservation (Joyce and regional planners)
- Amend water standards, codes (require certain irrigation materials and systems) Jeff
- Look at tap fees and tying to/paying more for landscaping (Mark)
 - See Castle Rock and Aurora programs, to be presented at June 14 RMSAWWA conservation committee meeting
 - Schedule an educational workshop
 - Share literature
- Look at stormwater management regulations (bioswales, tree gardens)
- Land use typology
 - Apply budgets to different types of land uses (e.g. ballfields vs. aesthetic landscape areas) – for example, Denver Water

Strategy 2: Collaboration and Engagement

• Evaluate learning opportunity through Sonoran Institute.



- Engage all special and metro districts to implement plan
- Set common goals among towns, districts, others to coalesce efforts (even if done at different times)
- Tap informational and regulation resources to raise the bar, give guidance, help share information and information about grants and capacity building (NWCCOG)
- Engage large water users

Strategy 3: Advance water reuse programs, especially for golf courses and snowmaking parks (Lane Wyatt and Torie Jarvis from NWCCOG QQ)

SUMMARY OF ACTION ITEMS

	Responsible		
Action Item	Team Member	Date	Status
Evaluate learning opportunity through Sonoran Institute.	All	June 1, 2018	In progress
Convene planners to initiate code audits	Joyce	Summer 2018	Not started
Schedule an educational session on tap fees	Mark	June 14, 2018	Complete (Scheduled through AWWA RMS conservation committee)



APPENDIX D: PLAN REVIEWS AND COMMENTS

COLORADO WATER CONSERVATION BOARD

Conservation Plan Submittal Required Plan Elements Checklist Name of Entity: Breckenridge WEP (Blue River Regional WEP)

Date Submitted: 3/23/18

Re	quired Conservation Plan Elements	Completed?	Response to Comments
1.	Name and contact information	Yes Nox Comment: Put final cover letter	Cover letter added
2.	Organizations and individuals assisting with plan development	Yesx_ No Comment: pg. 4	No action required
3.	Quantified annual retail water delivery?	Yes No Comment: treated water demand: 3506 af/yr demand at buildout with 250 af/yr raw water for snowmaking and golf course irrigation. I would like to see a table with distributed and metered consumption for the years listed in Figure 6 or at least the last 5 years	Added a new table (table 3) to section 6.1.1 showing available data. Also included reference to Appendix A: Plan Data.
4.	Identified population served by retail water delivery?	Yes_x_ No Comment: Population 2010- 4680 permanent population; 14,040 day visitors; 23,400 transient (overnight) Total 2010 annual service population 42,547	No action required
5.	Public comment period completed? (60 days or local regulation)	Yes No_x Comment: after review	Section 9.2 (Plan Review, Monitoring, and Updates) and Appendix D (Plan Reviews and Comments) were updated after public comment period was completed
6.	Signature with authority to commit resources of the submitting entity?	Yes No_x Comment: Put in final cover letter	Cover letter added
7.	All required water saving measures and programs considered?	Yes_x_ No Comment:	No action required



Required	l Conservation Plan Elements	Completed?	Response to Comments	
I.	Fixtures and appliances – toilets, urinals, showerheads, faucets, etc.?	Yes_x_ No Comment: Breck will participate in the HCC led indoor residential audits with install of fixtures	No action required	
II.	Waterwise landscapes, drought resistant vegetation, removal of phreatophytes, efficient irrigation, etc.?	Yes_x No Comment: Outdoor water audit program to evaluate system efficiencies and implement fixes through rebates; replaced athletic fields with artificial turf at recreation center	No action required	
III.	Water efficient industrial and commercial processes?	Yes_x_ No Comment: SustainableBreck initiative: voluntary green business program; Commercial outreach through HCC sustainable business program and will put financial resources towards upgrades	No action required	
IV.	Water reuse systems?	Yes No Comment: N/A	No action required	
V.	Distribution system leak ID and repair?	Yes_x No Comment: Upgrading AMR to AMI leading to improved leak detection and engagement; annual system- wide leak detection audits; water main replacement and rehab through lining	No action required	



Required	Conservation Plan Elements	Completed?	Response to Comments
VI.	Information, public education, audits, demos?	 Yes_x_ No	No action required
VII.	Conservation oriented rate structure and billing system?	Yes_x_ No Comment: Two tier inclining block rate structure. Under 10Kgals fixed base rate with all other water above 10kgals 5.51/kgal in-town. More out of town. Commercial based on tap size with varying amounts depending on tap size and 3.31/kgal about allowance. Rate study scheduled in 2019.	No action required
VIII.	Regulatory measures designed to encourage water conservation?	Yes_x No Comment: Ordinance for water restrictions and no irrigation between 9 am-5pm; waterwise landscape code	No action required
IX.	Incentives, rebates to encourage conservation implementation?	Yes_x_ No Comment: See below	No action required



Rec	quired Conservation Plan Elements	Completed?	Response to Comments		
8.	Role of water conservation plan in overall water supply planning?	Yesx_ No Comment: Section 3.3 Vision statement pg. 7; Section 5.6 discusses relationship between supply reliability and demand activities as well as vulnerabilities	No action required		
9.	Steps to implement, monitor, review, and revise conservation plan including time period not to exceed 7 years?	Yes_x No Comment: pg. 29-30 Great idea for the working groups!	No action required		
10.	Estimates of water saved through previous conservation efforts AND water saved through plan implementation?	Yesx_ No Comment: 250 af feet/yr demand reduction by 2025; 10% reduction from 2016; a few activities are not quantified due to nature of programs and initiatives; See Below for comments	No action required		
11.	Best management practices for water demand management, water efficiency, and water conservation that may be implemented through land use planning efforts	Yes_x No Comment: Part of regional land use planning group in 2017 to review design guidelines and landscaping codes for existing incentives and barriers to water savings; one of four working groups formed for the plan is an "Integrated water and land use planning" group	No action required		

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	Approved
x_	Conditional Approval
	Disapproval with Modifications

Plan review comments:

This plan review was completed by Kevin Reidy of the Colorado Water Conservation Board. Questions about the review, comments provided, the plan review process and the statutory requirements can be directed to Kevin.

More detail on retail water delivery: I would like to see demand broken down by year, distributed water, metered usage and customer class in a table. Its hard to tell how much water is being used by just the bar chart on pg. 18.

Response to Comment: Added a new table (table 3) to section 6.1.1 to show production, total sales, and sales by sector for the period of 2011-2016. Added a reference to Appendix A for additional data.



Future demands and demand reductions: It would be good to have the data in the line graph (figure 12) on pg. 25 laid out in a table over time. This helps assess how much demand reduction there will be in each scenario.

Response to Comment: Added a reference to Appendix A for the demand forecast data.

Details on programs: In the body of the plan, refer to the Appendix C where the working group plans are. I didn't see it until Section 9 and when I read through the plan the first time, I was wanting more details on each program but didn't find it until I got to the Appendix C with the working group plans. I really like the working group plans though. Not sure if you want to have a blanket statement at the beginning of Section 8 directing readers to Appendix C or in each activity where it is relevant.

Response to Comment: Added references to Appendix C in Section 8 when discussing regional efficiency programs.

Indoor/Outdoor Water Efficiency: Would like to see more detail on the rebates, incentives and fixtures that will be implemented in the Indoor and Outdoor water efficiency sections. I realize you are creating them still but anything more would be great.

Response to Comment: Edited section 8.2.1 to clarify that the residential indoor audit program will include direct installs of showerheads and faucet aerators. The initial program incarnation will not include rebates or incentives. Edited section 8.2.1 to clarify that the commercial audit program includes direct installs of toilet bricks and pre-rinse spray values and rebates covering 50% of the cost of water-saving projects up to \$400/business.

Why isn't the indoor water efficiency programs quantified? That would seem to be the easiest to do so. If not sure of the total scope of this, put in a placeholder savings amount that would act as a baseline estimate. Estimates are OK to have in the plan.

Response to Comment: Agreed. Quantified the estimated water savings based on the direct installs and assumed program participation. Edited the executive summary and Table 5 to reflect updated water savings estimates.

PUBLIC REVIEW COMMENTS

- From Breckenridge Town Council: Will water conservation efforts affect revenue needed for development of the new water treatment plant?
 - Response to Comment: Reduced water consumption has the potential to impact revenues if rates are not adjusted on a regular basis and if the Town does not evaluate forecasted revenues against budget needs through rate studies. To mitigate these factors:
 - The Town proposes to conduct a rate study in 2019 (addressed in Section 8.1.3),
 - The Town adjusts rates each year based on debt, operations, and capital obligations. Edited Section 5.4 to include this information.

Additionally, the Town has successfully navigated declines in water use of more than 1% each year since 2002.

- From Breckenridge Town Council: This plan lacks water quality information.
 - Response to Comment: Edited Section 7 to state: "While explicit water quality goals have not been set in relation to these water conservation efforts, the Town aims to maintain or enhance existing water quality."



APPENDIX E: RESOLUTION TO ADOPT PLAN



Memo

To: Breckenridge Town Council Members

From: Shannon Smith, Capital Projects Manager

Date: 7/4/2018

Subject: Public Projects Update

River Park

<u>Schedule:</u> Construction continues on the restroom building and pavilion at River Park. Recently, Hyder has completed water and sewer line installation, and excavated and placed the building foundation. Over the next couple weeks, Hyder will finish the utility and foundation work and begin framing the structure. Hyder is scheduled to complete the restrooms in August, while the installation of playground equipment, landscaping, and concrete sidewalks is scheduled to be completed by October.

The Phase 1 improvements are scheduled to be completed in fall 2018, while Phase 2 is schedule for summer 2020 (pending a GOCO grant). Construction is expected to have minimal impacts to vehicle and pedestrian traffic. The pedestrian bridge across the Blue River has been completed and is currently open to rec path and trail users.



Foundations for the restroom/pavilion building are being formed.



Sewer and water lines are being installed to the restroom building.

Budget:

Project Funding	2017	2018	2019	2020	Total
CIP Funds		1,050,000	0	245,000	1,295,000
Open Space Funds	240,000	210,000	0	105,000	555,000
GOCO Grant		350,000	0	350,000	700,000
Total Budget	240,000	1,610,000	0	700,000	2,550,000

Kingdom Park Shade Structure

<u>Schedule:</u> Staff has contracted with Hyder for the construction of the Kingdom Park Shade Structure. Construction is scheduled to begin on July 10th with the excavation of the building foundations. The project is scheduled to be completed in late August. Construction activity is expected to have minimal impacts to users of the skate park, playground, or the turf field.

Budget:

Project Funding	2018
CIP Funds	78,000
Fundraising Donations	10,000
Total Budget	88,000

Broadband

<u>Schedule:</u> Foresite group is preparing for a meeting with staff and Council representatives on July 18th. They will update us on the business/implementation plan progress as well as how survey feedback has been incorporated. We are still on track for an August presentation to the entire Council at worksession.

CIP projects with no updates:

Ski Hill Wall (updated 6-26-18)

North Water Treatment Plant (updated 6-26-18)

Sawmill Creek Culvert Repair (updated 6-26-18)

Asphalt Overlay (updated 5-8-18)

Rec Center Renovation and Tennis Center Construction (updated 5-8-18)

Ski Hill Road Reconstruction by Alpine Metro District (updated 5-8-18)

Broadband Update (updated 5-8-18)

Golf Clubhouse Remodel (updated 4-24-18)

Turf Installation on Outdoor Ice Sheet (updated 4-24-18)

Warrior's Mark Paving and Turnaround

Ball Field LED Lights

Indoor Ice Rink Lights

Blue River Habitat and Landscaping (updated 11-28-17)

Pool Area Lights and Window Replacement (updated 9-26-17)

Morning Star Culvert Repair (updated 8-8-17)

Outdoor Ice Rink Bleacher Heating (updated 4-25-17)

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Memo



To: Breckenridge Town Council Members

From: Shannon Haynes, Assistant Town Manager

Date: 7/5/2018

Subject: Breck Forward Update

Below is a brief update on Parking and Transportation projects. Staff will add new projects to this list as they are developed and discussed with Council.

Active Projects - New Updates

Dynamic Parking Wayfinding (Work Session 7-10-18)

<u>Schedule:</u> Staff received one bid for the Dynamic Wayfinding Project. We have reviewed the bid and the contractor, Schlosser Signs, meets the qualifications and the bid is within the budget. Staff proposes to award the work for the first digital sign on the north end of Town, as it can be installed this year utilizing the existing power source. This project was not included in the 2018 CIP budget and would need approval for an appropriation of \$300,000 to proceed with construction of the first sign. Staff seeks direction from Council on moving forward with the initial phase of this project.

Bus Storage Expansion (Work Session 7-10-18)

<u>Schedule</u>: Design is underway on the new bus storage barn to be located at the Public Works campus. The building will provide storage for 6 buses as well as charging stations for new electric buses. Staff is working with Xcel to determine the total number of charging stations that can be accommodated, within Xcel's existing infrastructure on Airport Rd., for incorporation into this project as well as future expansion of the electrified fleet. Construction is slated to begin this fall.

Budget:

	2018	Total
P&T Fund	\$1.75M	\$1.75M
Total Budget		\$1.75M

No updates:

Riverwalk Garage (Work Session 4-10-18)

Bus Storage Expansion

Dynamic Parking Wayfinding (Work Session 5-22-18)

Village Road and Park Ave Roundabout

Transit Enhancements (Work Session 10-24-17)

Transit Stop Shelters (Work Session 9-26-17)

Purple B Route Improvements (Work Session 11-28-17)

Riverwalk Pedestrian Improvements (Work session 6-26-18)

Sidewalk Master Plan Implementation (Work Session 6-26-18)



DATE: July 2, 2018

TO: Breckenridge Town Council

CC: Rick Holman, Shannon Haynes, James Phelps, Mark Johnston, Jennifer Pullen

FROM: Free Ride

RE: Free Ride Ridership Numbers – June 2018

June ridership is up 21.5% over last June with 60,635 passengers. Year to date is up 4.8% compared to 2017. Trolley numbers are up over 2017 due to the addition of a second Trolley route. In 2017, we operated a construction route which combined Yellow and Brown using French to get to the South end of town. In 2018, Yellow and Brown merged to form the Gray route. Yellow and Brown ridership numbers are derived from the Gray using the same methodology as in 2017 with the construction route. The North side of Gray was entered into the Yellow count and the South side was considered Brown route numbers.

	20	017	20	18	Month YTD			Γ D
	June Mthly	June YTD	June Mthly	June YTD	#'s	%	#'s	%
Black	4,392	27,182	4,780	26,341	388	8.8%	-841	-3.1%
Brown	7,175	156,457	12,749	194,092	5,574	77.7%	37,635	24.1%
Trolley	5,946	29,981	12,422	43,411	6,476	108.9%	13,430	44.8%
Purple	9,501	80,697	10,237	80,219	736	7.7%	-478	-0.6%
Yellow	22,804	306,427	20,447	281,428	-2,357	-10.3%	-24,999	-8.2%
Shuttle Lots	0	3,685		6,239	0		2,554	69.3%
Special Event	71	4,469	0	6,322	-71		1,853	41.5%
Construction & Gray	29,979	49,243	33,196	53,367	3,217	10.7%	4,124	8.4%
TOTAL	49,889	608,898	60,635	638,052	10,746	21.5%	29,154	4.8%



June 4, 2018

TO: Breckenridge Town Council

CC: Rick Holman, Shannon Haynes, James Phelps, Mark Johnston, Jennifer Pullen

FROM: Free Ride

RE: Free Ride Ridership Numbers - May 2018 - Corrected

May ridership is up 20.5% over last May with 34,354 passengers. Year to date is up 4% compared to 2017. Trolley numbers are up over 2017 due to the addition of a second Trolley route. In 2017 we operated a Construction Route which combined Yellow and Brown using French to get to the South end of town. Historical Yellow stops on the South side were added to the Yellow count. In 2018 Yellow and Brown merged to form the Gray route. Yellow and Brown ridership numbers are derived from the Gray. The North side of Gray was entered into the Yellow count and the South side was considered Brown route numbers, this added a few stops to the Brown calculations for 2018. Corrections to the May 2017 YTD numbers were made on 7/5/18

	20	017	20	18	M	Month		Γ D
	May Mthly	May YTD	May Mthly	May YTD	#'s	%	#'s	%
Black	4,427	22,790	5,329	21,561	902	20.4%	-1,229	-5.4%
Brown	6,467	148,462	6,151	181,343	-316	-4.9%	32,881	22.1%
Trolley	2,516	24,035	5,678	30,989	3,162	125.7%	6,954	28.9%
Purple	6,365	71,196	7,870	69,982	1,505	23.6%	-1,214	-1.7%
Yellow	8,735	280,381	9,326	260,981	591	6.8%	- 19,400	-6.9%
Shuttle Lots	0	3,685		6,239	0		2,554	69.3%
Special Event	0	4,398	0	6,322	0		1,924	43.7%
Construction & Gray	15,202	19,194	15,477	20,171	275	1.8%	977	5.1%
TOTAL	28,510	554,947	34,354	577,417	5,844	20.5%	22,470	4.0%



To: Breckenridge Town Council Members

From: Jennifer McAtamney

Date: 6/18/2018

Subject: June 6, 2018 Child Care Advisory Meeting Report

The Child Care Advisory Committee held a regular meeting on June 6, 2018. Committee members present included, Greta Shackelford, Jay Homola, Laura Amedro, Scott Perlow, Bradley Ragan, and Joyce Ruderman and Mary Jo Zweig. Johanna Gibbs had a conflict and was out of town, Heather had staffing issues and was unable to join us. . Town staff present were Jennifer McAtamney and Peter Grosshuesch. Dick Carlton our next Town Council Representation will be joining us at our next meeting.

The report for our May 2^h Meeting was approved.

The following topics were covered.

Child Care Study and Needs Assessment Update

BBC Research has sent us a draft of the Assessment that is being reviewed by staff. We will be reviewing that draft report at our next meeting.

Carriage House Refresh Update

We shared the creative concept board that the group has been working with. They are currently working through priorities and fleshing out the phasing of the project so they can go out to bid on the first phase. The Grant funds the Town has allocated will be used for the first phase with priority around of building the wall to create the additional classroom and refreshing fixtures/permanent furnishing and updates to restrooms and work spaces to assure ADA compliance.

Annual Tuition Increases/Fiscal Year

Jennifer and Greta are scheduled to meet with the directors and work on this. The goal is to have equitable tuition between schools and to have tuition increases coincide with our Tuition Assistance cycle.

Early Milestones Presentation on Cost Modeling for Universal Pre-K

Local leaders from Summit County, Summit School District, ECO, FIRC and The Summit Foundation hired a team of consultants with experience & expertise in early childhood policy and program development to determine the best way to structure a *locally funded program* to provide *universal Pre-Kindergarten* for all *4-year-olds* in the County and those residing outside the county whose parents work in Summit. Lucinda Burns from Early Childhood Options made a presentation based on the outcome of the study.

Contact Jennifer if you would like a copy of the slide deck. This is a plan that is still in development and final details of how this type of program would be delivered are still being determined.

OUTREACH & PARTNERSHIP UPDATES

Jennifer will be visiting Estes Park for a day of working with their public official and economic development group on the topics of child care on June 15th

The Workforce Innovation Grant (Moonshot Grant) that we are partners with Summit County Govt and ECO will kick off with the other 5 successful grantees Breckenridge on June 19-20.

Early Childhood Professional Development Advisory group on Recruitment & Retention

Jennifer had her first meeting for this group and we are working on sorting through priorities on previously identified strategies.

EC Cares Update. We recently met with Helen Royale at the Summit County Care Clinic to update the EC Cares program. Starting July 1 in addition to free access to the Clinic for Acute, Well Care and Behavioral Healthy we are be adding wellness classes delivered by the care clinic staff as well as an annual dental exam including x-rays and cleaning. Additional dental services are available via their sliding scale. If you have not had a chance you should check out their dental suites – the facility is beautiful and staffed by top-notch local dentist from the area. To further increase usage of this program the staff from the Care Clinic will be attending staff and director meetings at our local child care centers to brief staff on the incredible array of services provided at the clinic by local familiar doctors and nurses.

Our meeting adjourned at 4:40 pm

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To: Breckenridge Town Council Members

CC: Rick Holman & Shannon Haynes

From: Jennifer McAtamney, Program Administrator

Date: 7/2/2018

Subject: Town Council Goal - Childcare and Early Learning

Centers

In preparation for budget time staff thought it would be helpful to touch base with the Town Council and confirm our goals and objectives around this program. Below you will find the program goals which were created back in 2007 and affirmed by the Town Council as well as the Town Council Goals for Child Care and Early Child Care Centers which are strategies and activities to achieve the program goals. These have been updated for activities through June. Staff will be available during the Housing and Child Care Update to discuss and answer any questions.

The Breckenridge Child Care Program Goals are:

- 1. Improve accessibility and affordability of quality early child care for local families and workforce.
- 2. Ensure families are not cost-burdened regardless of their income and amount of care.
- 3. Help Centers achieve sustainable budgets, while providing quality care, maintaining sufficient reserves, and retaining and compensating teachers.
- 4. The public investment should result in positive impact on child outcomes.

AREA of FOCUS: Childcare and Early Learning Centers				
GOAL: Ensure access to affordable quality care for local working families				
OBJECTIVES – ACTION	SLT LEAD/ Others			
Initiate an update to our needs assessment to study the current and future levels of demand and supply.	Peter			
Ongoing. Staff has contracted Brown, Bortz and Coddington to conduct an annual update to the 2016 needs assessment in first quarter of 2018 when enrollment is at its peak. This will provide the Town Council with additional data to ensure we are addressing capacity needs for our workforce. The needs assessment is being finalized will be presented to Town Council in August.				
Maintain and enhance the childcare tuition assistance program through ensuring adequate financial assistance is being provided to families that are cost burdened	Peter			

Ongoing. For the 2017/2018 cycle there has been a 20% increase in applications received. The Advisory Committee conducted their annual review of the program guidelines in April and Open Enrollment for the 2018/2019 cycle has just closed.	
Collaborate with childcare centers to identify and implement best practices in the areas of center operations, fiscal management, and quality of care.	Peter
Ongoing. Partner schools are adopting the Early Learning Ventures Platform for data management, which is funded through Right Start Funds. In addition to data management, this platform provides access to discounted supplies and an optional tuition collection system for a fee. We delivered our first Board of Directors class in the fall of 2017 and that class is now being used county wide as a training platform for new Board members. We are developing a financial best practices class for Presidents, Treasurers and Directors which will roll out later this year. We are also partners with ECO and Summit County Govt on a Workforce Innovation Planning Grant to develop a pilot plan and legal structure to deliver Essential Services Support including HR, Finance, and benefit management to local centers.	
In 2018, staff is planning to contract with a grant writer to seek collective impact grants focused on professional development and contract services for all four non-profit centers. For our first grant we are going to apply for funds to reduce the Town contribution to the Carriage House expansion and remodel.	
Coordinate a public education campaign on the benefits of early learning	Peter
Ongoing. In 2018 in addition to general community outreach, staff will focus on local families and employers to ensure they are aware of the extent of the town's investment in child care and our local working families. New Assistance	
letters providing more info on family awards have been implemented for this cycle. In addition to regular outreach to local community groups staff will be attending back to school nights to share the benefits of the program to families currently in care.	
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letters providing more info on family awards have been implemented for this cycle. In addition to regular outreach to local community groups staff will be attending back to school nights to share the benefits of the program to families currently in care. Expand the capacity at Carriage House to add 8 new infant/toddler spots and	Peter
letters providing more info on family awards have been implemented for this cycle. In addition to regular outreach to local community groups staff will be attending back to school nights to share the benefits of the program to families currently in care. Expand the capacity at Carriage House to add 8 new infant/toddler spots and remodel the interior of the school. Ongoing. Carriage House has hired an owner's rep & designer and is preparing a final budget and plans for this project. Staff will seek capital grants to offset the requested budget of \$300,000. Flooring has been replaced. Plans and material selections are being finalized and bidding is underway for the Town	Peter

number of Full-time Equivalents required to fully staff their program. Updated Provider Agreements were issued to all schools and funds were dispersed upon the completion of those agreements. Participation in Invest in Teachers requires schools to raise their minimum FT teaching salaries to \$15/hour with the remaining funds dispersed to their teaching staff to meet their school's recruitment and retention goals.	
Identify a sustainable funding model for the childcare centers.	Peter
In late March the Town hired APA Consulting to complete this project. We held a formal kick off with the Town Council at their first meeting in April and extensive focus groups and interviews were conducted through April and May with additional outreach to other programs across the country following in June. This work is in the process of being wrapped up and will be presented to the Child Care Advisory Committee and Town Council in August.	



To: Breckenridge Town Council Members

From: Rick Holman, Town Manager

Date: 7/3/2018

Subject: Committee Reports

SUMMIT STAGE ADVISORY BOARD

June 27, 2018

James Phelps

Ridership Summary May 2018

- Total May 2018 fixed-route ridership was 91,159, a 2.8% decrease from May 2017 fixed-route ridership of 93,786.
 - Largest drops in ridership by route were; Swan Mountain Flyer by 25.2% and Wildernest Loop by 24.9%.
 - Reasons discussed were; lack of snow at A-Basin, workers leaving the county earlier due to warm weather and more workers moving out to Leadville.
- Ridership on the Lake County Commuter Route for May 2018 was 1,979 an increase of 12.0% from May 2017 ridership of 1,767.
- May 2018 ridership on the Blue River Commuter Route was 600, a decrease of 7.3% from May 2017 ridership of 647.
- May 2018 paratransit ridership was 631 trips, compared to 647 trips in May 2017, a decrease of 2.5%.

Summary of Operating Costs May 2018

- Operating expenses and listed encumbrances in the budget report for May 2018 were \$793,723. A year over year comparison was not available due to new software.
- Total maintenance costs in May 2018 were \$78,728 compared to \$136,108 in May 2017.
 - Last year in general there were more maintenance costs to due engine repairs and replacements.
- May 2018 fuel costs were \$46,745 compared with \$38,320 in May 2017.
 - Increase due to rising fuel prices

Summit County Mass Transit Sales Tax Receipts

April 2018

 April 2018 Mass Transit Sales Tax collections were \$619,679, down 2.19% or \$27,637 under April 2017 (\$647,316). YTD 2018 Mass Transit Sales Tax collections were \$4,607,234, up 7.04% or \$303,130 over 2017 (\$4,304,103).

Other Business

- Summit Stage is currently demoing a 40' Proterra electric bus with a newer version battery.
- Transit Technology (Double Map) sill having issues with the AVA and APC functions not

sure when issues will be resolved. Currently withholding payment from Double Map.

- July 18th retreat potential topics discussed; capital projects, service levels, ridership, hiring, housing, ballot initiatives and transit funding.
- Grants recently submitted an application for 5339 No/Low emission buses and waiting to hear about their 5304 planning grant application.

Committees*	Representative	Report Status
CAST	Mayor Mamula/ Erin Gigliello	No Meeting/Report
CDOT	Rick Holman	No Meeting/Report
CML	Rick Holman	No Meeting/Report
I-70 Coalition	Rick Holman	No Meeting/Report
Mayors, Managers & Commissioners	Mayor Mamula/ Rick Holman	No Meeting/Report
Liquor and Marijuana Licensing Authority	Helen Cospolich	No Meeting/Report
Summit Stage Advisory Board	James Phelps	Included
Police Advisory Committee	Chief Jim Baird	No Meeting/Report
CMC Advisory Committee	Rick Holman	No Meeting/Report
Recreation Advisory Committee	Jenise Jensen/Scott Reid	No Meeting/Report
Workforce Housing Committee	Laurie Best	No Meeting/Report
Child Care Advisory Committee	Jennifer McAtamney	Included as a separate agenda item
Breckenridge Events Committee	Shannon Haynes	No Meeting/Report
Transit Advisory Committee	Shannon Haynes	No Meeting/Report
Communications	Haley Littleton	Included as a separate item

Note: Reports provided by the Mayor and Council Members are listed in the Council agenda.



To: Breckenridge Town Council

From: Haley Littleton, Communications

Date: 7/3/2018

Subject: Committee Report – July 10

Facebook: 7,943 followers, 159 page likes and 170 page follows in June, reach was up 52%, impressions were up 98%, which could be attributed to several fire/fireworks related posts that were widely shared. **Twitter:** 5,505 followers (+135 in June), 45.2k tweet impressions with 30% increase of profile visits. **Instagram:** 1,097 followers, still getting good engagement.

Staff continues to work on a social media content strategy to grow engagement, map out weekly content, and to determine the type, frequency, and quality of content for the Town of Breckenridge while setting analytics goals. The document is currently in a drafted state.

Campfire/LNT Communication

Staff is working with the County to promote their wildfire/chipping program push. Staff is also working with BTO to link up with their messaging to visitors. Staff will continue to share information regarding campfire safety, defensible space, evacuation preparation, and other emergency preparedness resources. Staff will heavily communicate information about Stage 2 fire ban and fire safety.

Staff has also created between 15-20 digital ads that promote trail etiquette, proper disposal of dog waste, camping safety, and Leave No Trace principles. These will be distributed widely through digital ads. The goal is to provide our visitors with fun, educational materials on how to be a better neighbor while in Town. Staff is working with Police Department to promote a "be a good neighbor" campaign that focuses on slowing down while driving in town.

Transit App Campaign

Staff continues to work with Public Works and other organizations to promote the Transit App. Street Media has been sent designs for bus card slot. Staff will be heavily promoting the app through Everything Summit who will re-target digital ads to visitors while in town.

Breck Bag Social Media Contest

In an effort to promote the Breck reusable bag, staff will be rolling out a social media campaign to encourage locals and guests to take creative pictures of how and where they use their bag. The bag committee will choose the top three winners to receive prizes. The first place winner will receive a custom pair of RMU skis designed with the bag graphics.

Breckenridge Lodging Association Meeting

Staff presented to the Breckenridge Lodging Association meeting on Thursday, June 28. Staff shared information about the reusable bag, transit app, and fire safety messaging. The lodging association was sent a Google Drive file loaded with marketing content for each campaign in an effort to distribute widely to guests. Staff specifically highlighted how the "My Free Ride" app works and the ease of use for visitors.



To: Town Council

From: Kevin Zygulski, Assistant Director of Recreation

Date: 7/5/2018

Subject: Stephen C. West Ice Arena Locker Room Addition Feasibility Study

Summary

Staff seeks Council's consideration of a potential 2019 CIP expenditure of \$75,000 to evaluate the need, feasibility, preliminary design, and cost estimate for a locker room addition to the Stephen C. West Ice Arena. The potential addition would be designed to address two primary needs: new lockers rooms to accommodate the growing use at the Ice Arena and administrative offices for Summit Youth Hockey. If approved, the 2019 study would provide Council better information for deciding whether to pursue a 2020 capital expense and addition to the Stephen C. West Ice Arena.

Background

The original outdoor ice sheet was constructed in 1996 with the indoor Stephen C. West Ice Arena constructed in 2000. The primary building was designed to accommodate existing demand from the year 2000, and the facility has served as a valuable community amenity during the ensuing years. Overall facility visitation at the Stephen C. West Ice Arena has increased annually and in 2017 the facility welcomed over 63,000 customers.

As part of the continued growth at the ice arena, men's, women's and mixed hockey leagues, summer hockey camps, figure skating programs, and annual community fundraisers (e.g. Summit Foundation Hockey Classic) have tested the facility's limits. During these events and programs, locker room space has proven particularly limited, with game changeovers resulting in different teams interacting in the same group shower space, and men's and women's locker rooms being separated by a non-locking door. These challenges have been addressed temporarily via curtains and signage, but the space itself has proven inadequate for the increasing demand for gender-separated locker rooms. The Summit High School hockey teams and higher level adult teams (e.g. Breckenridge Vipers) often dress 18 skaters and two goalies, requiring the use of two locker rooms by one team. This scenario happens multiple times per year and requires staff to displace other paying customers to the outdoor rink locker rooms.

Summit Youth Hockey (SYH), with whom the Town has partnered for over 20 years, has played an integral role in contributing to this growth at the ice arena. SYH currently offers eleven teams of multiple ages, leases one of the former "meeting rooms" for indoor training space, and uses the former first aid room for administrative office space for multiple staff members.

Recreation Department staff has been approached repeatedly by SYH representatives and other patrons to improve the locker room situation. Specifically, customers seek two additional locker rooms in the facility, which would allow for better game changeovers and ensure the appropriate separation and privacy for men, women's, and mixed teams. Adding a dedicated administrative office area for SYH staff would also meet their needs and free up existing spaces for their intended purposes (i.e. first aid room). This proposed SYH office space expenditure has previously been discussed by Council and is currently listed in the 5-year CIP plan for \$50,000 in 2020.

To address this growing need, staff is proposing the expenditure of 2019 CIP funds not to exceed \$75,000 to evaluate the need for locker rooms, develop a preliminary design (presumably on the western side of the existing building), and estimate potential construction costs. If approved, this 2019 study could lead to a potential 2020 CIP expense that would combine the locker room addition with the development of SYH administrative space.

Conclusion

Staff seeks direction from Town Council regarding the potential expenditure of CIP funds not to exceed \$75,000 to evaluate a potential locker room expansion at the Stephen C. West Ice Arena.

I will be available at the July 10th Council meeting to discuss this topic further and answer any questions from Council.

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To: Breckenridge Town Council

Cc: Rick Holman, Shannon Haynes

From: James Phelps, Public Works Director

Jennifer Pullen, Assistant Director Public Works

Date: 7/5/2018 (for July, 10th 2018)

Subject: Electric Bus Acquisition Plan

2018 Town Council Goals and Objectives

Area of Focus: Parking & Transportation Comprehensive Plan Implementation

<u>Goal</u>: Develop and implement a balanced parking and multi-modal transportation plan that preserves the character of the community.

Objective: Establish a plan for adding electric buses to the Free Ride Fleet.

Action (to date): Leased (1 month) of an electric bus in March of 2018. Staff is currently discussing/negotiating the purchase or lease of two electric buses for the winter of 2018-2019.

The goal of this memo is to provide Town Council members with information on electric bus acquisition and seek council approval to move forward with the purchase or lease of electric buses.

This past spring we demoed a 40' electric bus from Proterra with favorable results. Proterra is currently one of the main manufacturers of electric buses in the U.S. Staff additionally partnered with Proterra on a recent federal grant application for two (2) electric buses. We anticipate the notification of funding late fall. Due to the competitive nature of these grants there are limited funds available. Staff wanted to seek Town Council approval to continue our efforts for the purchase or lease of electric buses.

Initial Costs for an (1) Electric Bus:

Bus Unit Cost	\$619,968
Batteries	\$200,000
60 kW Charger Equipment	\$42,500
Charger Installation	\$15,000

There are funding options such as; leasing the batteries through Proterra, leasing the buses or leasing the charging station. Depending on what option we chose, Proterra would help us find financing through a financial institution.

We have been working with Proterra over the last few months and have recently finalized a specification list for two buses that would meet our operational needs. If we determine to purchase electric buses, the timeframe of delivery would be February 2019.

Staff will be seeking Town Council input for achieving Town Council goals and objectives.



To: Breckenridge Town Council Members

From: Shannon Smith, Capital Projects Manager

Brian Waldes, Director of Finance

Date: 7/5/2018

Subject: Five Year CIP Review & Reserve Analysis

Five Year Capital Improvement Plan

During the April 3rd Budget Retreat meeting, Staff presented the draft Five Year Capital Improvement Plan to Council for review and discussion. Projects added to the five year plan during the retreat included:

- Breckenridge Campground (\$1M)
- Airport Rd Improvements (\$7.75M)
- McCain School District Parcel preparation (\$5.3M)
- Broadband (\$20M)
- Dynamic Wayfinding (\$3M)
- Transit Center (\$5M)

Additional projects proposed to be added to the CIP by Staff include:

- Sand Storage, as recommended in the HR Green report, (\$110,000)
- River Walk Extension & Utility Relocation (\$250,000)
- Infrastructure Improvements-Culverts, to repair aging culverts, (\$1.75M)
- F-Lot Pedestrian Improvements, as proposed prior to the Riverwalk Garage, (\$2.2M)

The current draft of the Five Year CIP summary is attached to this memo. The Excise Fund transfer line has been highlighted as this is the funding required for projects after other funding sources (grants, Open Space Funds, etc) have been calculated.

Fund Reserve Analysis

Finance Staff have recalculated the projected fund balances and fund reserve based on the updated CIP as shown in the tables below. It is current Council policy to obligate funding for three years of the CIP plan.

	Capital Reserve Calculation							
	2019 2020 2021 Total							
Capital	\$ 3,537,000	\$	6,472,000	\$	12,177,000	\$	22,186,000	
P&T	\$ 867,500	\$	7,946,100	\$	6,273,272	\$	15,086,872	
Base Funding	\$ (2,750,000)	\$	(2,750,000)	\$	(2,750,000)	\$	(8,250,000)	
Policy Total	\$ 1,654,500	\$	11,668,100	\$	15,700,272	\$	29,022,872	

The required reserves shown below include amounts that are non-discretionary, such as the TABOR and debt service reserves. The Parking & Transit and Capital fund reserves reflect funds appropriated for capital projects.

	Fund Balance Calculation							
	Projected Fund Balance 12/31/18	Required Reserves	Council Policy	TOTAL Reserves	Net Balance			
General Fund	\$ 27,869,851	\$ (1,510,714)	\$ (7,316,951)	\$ (8,827,665)	\$ 19,042,186			
Excise Fund	\$ 10,893,588	\$ (267,465)	\$(29,561,087)	\$ (29,828,552)	\$ (18,934,964)			
Capital	\$ 11,142,479	\$ (11,142,479)	-	\$ (11,142,479)	-			
Marketing	\$ 401,546	-	-	-	\$ 401,546			
Spec. Projects	\$ 170,420	-	-	-	\$ 170,420			
P&T	\$ 1,380,688	\$ (514,326)		\$ (514,326)	\$ 866,362			
	\$ 51,858,572	\$ (13,434,984)	\$(36,878,038)	\$ (50,313,022)	\$ 1,545,550			

Following this policy, the projected total reserve balance has decreased to \$1,545,550. Prior to adding projects at the retreat and the new projects proposed by Staff, the Reserve balance was calculated at approximately \$12M as reported at the retreat.

Three basic strategies exist to increase the projected reserve balance. Projects can be removed from the CIP, projects can be moved beyond the 3-year horizon to reduce the capital reserve, or projects can be moved to the "B-List" and only be completed if projected revenues exceed budgeted.

Staff is requesting direction on the proposed Five Year Capital Improvement Plan to be included in the 2019 budget. If needed, Staff can schedule additional time at future work sessions to review specific projects with the Council.

DRAFT

Five Year Capital Improvement Plan Summary 2019 to 2022 Capital Fund Projects

2020

2021

2022

2023

TOTAL

2019

River Park	-	700,000	-	-	-	700,000
Breckenridge Campground	1,000,000	-	-	-	-	1,000,000
Outdoor Ice Rink Office Addition	-	50,000	-	-	-	50,000
Total	1,000,000	750,000	-	-	-	1,750,000
Public Works			•			
Undergrounding of Overhead Utilities	200.000	_	200.000	-	200.000	600,000
Roadway Resurfacing	850,000	850,000	850,000	850,000	850,000	4,250,000
McCain Property Improvements- School Parcel	350,000	1,000,000	3,750,000	150,000	43,000	5,293,000
Blue River Crossing at Coyne Valley Road	-	2,200,000	-	-	-	2,200,000
Airport Road Improvements	250,000	3,750,000	3,750,000	-	-	7,750,000
Riverwalk Center Lobby Improvements	400,000	, , <u>, </u>	5,000,000	-	-	5,400,000
Child Care Facility #2	-	-	250,000	-	-	250,000
River Walk Extension & Utility Relocation	250,000	-	-	-	-	250,000
Infrastructure Improvements- Culverts	350,000	350,000	350,000	350,000	350,000	1,750,000
Sand Storage	110,000	-	-	-	-	110,000
Broadband	10,000,000	10,000,000	-	-	-	20,000,000
Total	12,760,000	18,150,000	14,150,000	1,350,000	1,443,000	47,853,000
100% Renewable Energy					-	
Town Facilities Engergy Upgrades	100,000	100,000	90,000	85,000	0	375,000
Solar Connect Purchase	40,000	30,000	20,000	20,000	0	110,000
Small Scale Wind & Hydro Power	0	50,000	50,000	50,000	50,000	200,000
Total	140,000	180,000	160,000	155,000	50,000	685,000
GRAND TOTAL						
GRAND TOTAL	13,760,000	18,900,000	14,150,000	1,350,000	1,443,000	49,603,000
<u>-</u>						
Capital Funding Sources	13,760,000	18,900,000	14,150,000	1,350,000	1,443,000	49,603,000
Capital Funding Sources Excise Fund Transfer	13,760,000 3,537,000	18,900,000 6,472,000	14,150,000	1,350,000	1,443,000	49,603,000 24,783,000
Capital Funding Sources Excise Fund Transfer McCain Rents	13,760,000	18,900,000 6,472,000 43,000	14,150,000	1,350,000	1,443,000	49,603,000 24,783,000 215,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park)	3,537,000 43,000	6,472,000 43,000 105,000	14,150,000 12,177,000 43,000	1,350,000 1,252,000 43,000	1,443,000	24,783,000 215,000 105,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park	3,537,000 43,000 - -	6,472,000 43,000 105,000 350,000	14,150,000 12,177,000 43,000 -	1,350,000 1,252,000 43,000	1,443,000	24,783,000 215,000 105,000 350,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements)	3,537,000 43,000 - 125,000	6,472,000 43,000 105,000 350,000 1,875,000	14,150,000 12,177,000 43,000 - - 1,875,000	1,350,000 1,252,000 43,000 - - -	1,443,000 1,345,000 43,000 - -	24,783,000 215,000 105,000 350,000 3,875,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer	3,537,000 43,000 - - 125,000 55,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000	14,150,000 12,177,000 43,000 -	1,350,000 1,252,000 43,000	1,443,000	24,783,000 215,000 105,000 350,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project	3,537,000 43,000 - 125,000 55,000 10,000,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000	12,177,000 43,000 - - 1,875,000 55,000	1,350,000 1,252,000 43,000 - - - 55,000	1,443,000 1,345,000 43,000 - - - 55,000	24,783,000 215,000 105,000 350,000 3,875,000 275,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer	3,537,000 43,000 - - 125,000 55,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000	14,150,000 12,177,000 43,000 - - 1,875,000	1,350,000 1,252,000 43,000 - - -	1,443,000 1,345,000 43,000 - -	24,783,000 215,000 105,000 350,000 3,875,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project	3,537,000 43,000 - 125,000 55,000 10,000,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000	12,177,000 43,000 - - 1,875,000 55,000	1,350,000 1,252,000 43,000 - - - 55,000	1,443,000 1,345,000 43,000 - - - 55,000	24,783,000 215,000 105,000 350,000 3,875,000 275,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project	3,537,000 43,000 - 125,000 55,000 10,000,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000	12,177,000 43,000 - - 1,875,000 55,000	1,350,000 1,252,000 43,000 - - - 55,000	1,443,000 1,345,000 43,000 - - - 55,000	24,783,000 215,000 105,000 350,000 3,875,000 275,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total	3,537,000 43,000 - 125,000 55,000 10,000,000 13,760,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000	1,350,000 1,252,000 43,000 55,000 1,350,000	1,443,000 1,345,000 43,000 - - - 55,000	24,783,000 215,000 105,000 350,000 3,875,000 275,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Parking a	3,537,000 43,000 - 125,000 55,000 10,000,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000	1,350,000 1,252,000 43,000 55,000 1,350,000	1,443,000 1,345,000 43,000 - - 55,000 1,443,000	24,783,000 215,000 105,000 350,000 3,875,000 275,000 49,603,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Parking a Village Road Roundabout	3,537,000 43,000 - 125,000 55,000 10,000,000 13,760,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000	1,350,000 1,252,000 43,000 55,000 1,350,000	1,443,000 1,345,000 43,000 - - 55,000 1,443,000	24,783,000 215,000 105,000 350,000 3,875,000 275,000 49,603,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Village Road Roundabout French St Roundabout	3,537,000 43,000 - 125,000 55,000 10,000,000 13,760,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000 ortation F	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000 und Project 4,000,000	1,350,000 1,252,000 43,000 55,000 1,350,000	1,443,000 1,345,000 43,000 - 55,000 1,443,000	49,603,000 24,783,000 215,000 105,000 350,000 275,000 49,603,000 4,400,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Village Road Roundabout French St Roundabout S.Park Ave & Main Street Roundabout	3,537,000 43,000 - 125,000 55,000 10,000,000 13,760,000 - 400,000 100,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000	1,350,000 1,252,000 43,000 55,000 1,350,000	1,443,000 1,345,000 43,000 - - 55,000 1,443,000	49,603,000 24,783,000 215,000 105,000 350,000 275,000 49,603,000 4,400,000 7,500,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Village Road Roundabout French St Roundabout S.Park Ave & Main Street Roundabout Transit Stop Shelters	3,537,000 43,000 - 125,000 55,000 10,000,000 13,760,000 - 400,000 100,000 150,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000 ortation F 3,500,000 - 400,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000 4,000,000 - 4,000,000	1,350,000 1,252,000 43,000 55,000 1,350,000 1,350,000 - 7,000,000	1,443,000 1,345,000 43,000 - 55,000 1,443,000 - - - - - - - - - - - -	49,603,000 24,783,000 215,000 105,000 3,875,000 275,000 49,603,000 4,400,000 7,500,000 150,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Village Road Roundabout French St Roundabout S.Park Ave & Main Street Roundabout Transit Stop Shelters Pedestrian Corridor Lighting	3,537,000 3,537,000 43,000 125,000 10,000,000 13,760,000 400,000 100,000 150,000 200,000	18,900,000 6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000 ortation F 3,500,000 - 400,000 - 100,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000 - 4,000,000 - 4,000,000 -	1,350,000 1,252,000 43,000 55,000 1,350,000 1,350,000 7,000,000 - 100,000	1,443,000 1,345,000 43,000 - 55,000 1,443,000 - 1,0000	49,603,000 24,783,000 215,000 105,000 3,875,000 275,000 49,603,000 4,400,000 7,500,000 150,000 600,000
Capital Funding Sources Excise Fund Transfer McCain Rents Open Space Funds (River Park) GOCO Grant for Oxbow Park Housing Fund (50% for Airport Rd. Improvements) Conservation Trust Transfer COP Funding for Broadband Project Total Village Road Roundabout French St Roundabout S.Park Ave & Main Street Roundabout Transit Stop Shelters	3,537,000 43,000 - 125,000 55,000 10,000,000 13,760,000 - 400,000 100,000 150,000	6,472,000 43,000 105,000 350,000 1,875,000 55,000 10,000,000 18,900,000 ortation F 3,500,000 - 400,000	14,150,000 12,177,000 43,000 - 1,875,000 55,000 14,150,000 4,000,000 - 4,000,000	1,350,000 1,252,000 43,000 55,000 1,350,000 1,350,000 - 7,000,000	1,443,000 1,345,000 43,000 - 55,000 1,443,000 - - - - - - - - - - - -	49,603,000 24,783,000 215,000 105,000 350,000 275,000 49,603,000 4,400,000 7,500,000 150,000

Parking and Transportation Funding Sources

Village Road Pedestrian Improvements

Sidewalk Master Plan Implementation

F-Lot Pedestrian Connection Improvements

Dynamic Wayfinding

River Walk Repairs

Transit Center

Recreation

- animing and manapertation i animing count						
Lift Tax Agreement	1,570,000	1,641,400	1,714,228	1,788,513	1,864,283	8,578,423
Excise Fund Transfer	867,500	7,946,100	6,273,272	5,561,487	3,485,717	24,134,077
Total	2.437.500	9 587 500	7 987 500	7 350 000	5 350 000	32 712 500

1,000,000

250,000

200,000

137,500

2,437,500

Total

300,000

1,500,000

250,000

137,500

2,000,000

9,587,500

3,000,000

500,000

250,000

137,500

7,987,500

250,000

7,350,000

3,300,000

3,000,000

5,000,000

1,250,000

2,200,000

32,712,500

412,500

5,000,000

250,000

5,350,000



To: Breckenridge Town Council Members

From: Dana Laverdiere, Human Resources

Shannon Haynes, Assistant Town Manager

Date: 7/10/18

Subject: Town Council Goal – Culture and Employee Engagement

Human Resources would like to take this opportunity to review the current 2018 Town Council Goal, "*Creating and sustaining a culture to support employee engagement and retention.*" This has been a Council goal for the past few years and the HR Department has taken the lead on the below accomplishments related to this goal:

Total Compensation – Human Resources evaluates our compensation and benefit packages against benchmarks, and the rapidly changing market throughout the year to ensure we are competitive. Human Resources is currently revising the part-time and seasonal pay plan, and working with Hays to compare our benefits against benchmarks. In 2016 we completed an indepth market study relative to compensation and made the necessary adjustments to keep our positions competitive in our comparison market.

Retention- The Town fosters productivity, learning and growth, and promotes an environment that attracts and retains highly qualified and motivated employees. The Town offers training and career development, leadership opportunities, and rewards outstanding employee behavior.

Health and Wellness - MindBodyBreck continues to grow and expand as part of our wellness culture. The Town has been recognized by Interactive Health and Health Links two years in a row, as a leader in employee wellness. Additionally the Town is enhancing the annual biometric testing in 2018 to better serve our employees and spouses. In 2018 we enhanced our wellness program with the addition of a free recreation center pass to all full-time employees, and a price reduction for family members.

We'd like to reevaluate Council's preference for keeping this goal active. We feel considerable accomplishments have been made on this goal and the Town continuously strives to create and sustain a workplace culture of excellence and high engagement while promoting diversity and respect.

I will be available at the work session, should you have any questions related to this memo.

AREA of FOCUS: Employee Culture, Human Resources and Talent Management

GOAL: Creating and sustaining a culture to support employee engagement and retention

OBJECTIVES – ACTION	SLT LEAD/ Others
Continue follow up and evaluation of pay and benefits to assess our total compensation in comparison to benchmarks.	Dana
Staff has completed a review of sustainable living wage calculators and compared to current Town of Breckenridge pay rates and will continue work from the TOB 2017 pay study including a review of internal incumbent pay. Review and evaluate part-time and seasonal pay plans. Continue to participate in other community and MSEC surveys and evaluations. Current evaluations	
appear to show the Town is on track with benchmarks. Staff is working with UMR and United Healthcare to evaluate our current benefit plans against industry standards. Some coverage changes have been made to conform as needed. Staff is considering additional recommendations.	
Evaluate Town leave benefits	Dana
Staff has evaluated leave benefits and determined no changes are needed at this time. The Human Resources staff will regularly evaluate all employee benefits.	
Implement a new performance management system to encourage a shared mindset and reflect the Town's <u>Leadership Values & Philosophies</u> .	Dana, Mistay & Shanno
HR Director is evaluating current process to gain understanding of strengths and opportunities. NeoGov could potentially provide an online tool for evaluations in the future.	
Design a process for developing talent and linking professional interests with Town Vision, Mission and Goals (2 year goal).	Dana
Evaluating for process development.	
Deliver and facilitate benefit roundtables and training to support and educate employees.	Dana
Variety of training and roundtables are being scheduled for 2018 to include sessions on: Sexual Harassment, EEO Training, Town Values and Philosophies, and ICMA Lunch and Learns. The 2018 Breck U supports employees at all levels and interests with sessions to include: Emotional Intelligence, Social Media Training, Excel Classes, as well as Workplace Generational Training.	
Health and Wellness Initiatives	Dana
Staff has branded the Town of Breckenridge's Wellness Program – MindBodyBreck. The Town of Breckenridge has been recognized as a Healthy Business, and strives to maintain those recognitions and certifications. Staff is evaluating our services from Interactive Health, to ensure the Town has a well-rounded biometric testing program in place. Town implemented employee wellness passes at the Recreation, Ice and Nordic Centers.	

● Page 2 160

Recognize employee accomplishments in meetings w/department staff, town leaders and others.	ALL SLT
Ongoing work in this area to accomplish satisfied and engaged employees' town-wide. SLT members continue to work on recognition that supports and engages employees and in turn creates a positive Town culture throughout the organization.	

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