



Date: May 2, 2017

STAFF REPORT

To: Honorable Mayor and Members of Town Council

From: Mark Marlowe, Director of Castle Rock Water
Matt Benak, Water Resources Program Manager
Sheri Scott, Water Resources Program Analyst

Title: Update: Alternative Source of Water Supply Projects

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

In August 2009, Town Council unanimously approved participation in the Denver – Aurora – South Metro Intergovernmental Agreement to identify and evaluate opportunities to address long-term water supply needs for all Denver-metro communities in the most efficient and cost-effective manner possible.

In 2011, staff was directed by Town Council to evaluate other potential water supply projects (Alternative Source of Water Supply Projects) to ensure that Castle Rock fully understood the options available in addition to WISE. The Town developed a Request for Proposals (RFP) process that could accomplish that in a public, transparent process.

Through various public meetings in 2012, Town Council considered the risks, benefits, and costs of all of the proposals submitted including a hybrid option that couples the WISE project with one of the other proposals. As a result of these meetings, Town Council directed staff to focus efforts on a scaled back (hybrid) renewable water project (2,000 - 4,000 acre-foot solution) and explore in more detail, the hybrid option. Staff has been providing Town Council regular updates to the progress of the hybrid water supply option.

On February 19, 2013, staff provided an update to Town Council on the Alternate Source of Water Supply Projects. Town Council also approved the resolution approving the Water Rights Brokerage Agreement between Stillwater Resources & Investments, Inc. and the Town of Castle Rock for a two-year agreement.

On March 27, 2013, staff provided the Utilities Commission an update of the status of the ongoing negotiations with WISE and Stillwater Resources and announced that the discussions were continuing regarding the Western Pipeline and progress of receiving the necessary signatures for the Colorado River Cooperative Agreement (CRCA).

On May 7, 2013, Town Council unanimously approved the South Metro WISE Authority Formation and Organizational Intergovernmental Agreement (IGA) which made the Town of Castle Rock one of ten members of the South Metro WISE Authority.

On June 18, 2013, staff provided an update to Town Council on the Alternative Source of Water Supply project.

On August 28, 2013, staff informed the Utilities Commission that the WISE Delivery Agreement had been executed by all parties and that internal planning for the local infrastructure was commencing. Staff also reported that meetings are continuing with municipalities north of Denver regarding the Box Elder project and that a draft option agreement is being negotiated.

On September 17, 2013, staff provided an update to Town Council on the Alternative Source of Water Supply Projects.

On September 25, 2013, staff informed the Utilities Commission that the CRCA contingency was close to being complete and that the WISE agreement deadline may be extended six months. Staff also mentioned that the Box Elder ground water modeling is being conducted to assess the flow of the alluvial wells on the property and that staff is reviewing an option agreement that would allow the Town to exercise an option for up to 3-1/2 years before purchasing the property.

On October 23, 2013, staff informed the Utilities Commission that the CRCA contingency has been met but that the WISE Authority has recommended extending the WDA by one year in order to satisfy the remaining contingencies. By general consensus, the commissioners supported this deadline extension.

On December 3, 2013, Town Council unanimously approved extension of the deadline for an additional year to meet the three contingencies in the South Metro WISE IGA.

On January 7, 2014 Town Council approved an intergovernmental agreement (IGA) with Dominion Water and Sanitation District (Dominion) which will allow Dominion to move their WISE water through the Town's distribution system. The first capacity reservation fee (\$50,000) has already been received from Dominion.

On April 1, 2014 Town Council approved the 5-1/2-year option agreement for Box Elder Creek Well Field. The Town paid \$50,000 for the 6-month option requirement of the option agreement.

On April 23, 2014, staff provided the Utilities Commission with an update of the Western Pipeline Agreement.

The draft western pipeline purchase agreement and the key deal terms for lease purchase agreement for the WISE project were brought to the Utilities Commission on May 28, 2014. Utilities Commission recommended Council proceed with approval of the purchase agreement and the related lease purchase agreement with Dominion.

On June 17, 2014, Town Council approved the Western Pipeline Purchase Agreement.

On July 22, 2014, Town Council approved a \$4.3 million Lease-Purchase Agreement with Dominion Water and Sanitation District.

Utilities Commission was updated on the Rothe Water Rights on May 28, 2014. On July 30, 2014, Utilities Commission recommended that Town Council proceed with approval of the contract assignment for the purchase and sale of land and water rights associated with the Rothe Recharge Plan.

On August 19, 2014, Town Council approved the Rothe Water Rights Purchase for up to 770 acre-feet of water rights to be used as augmentation water for the Box Elder Creek Well Field. This purchase closed on September 17, 2014 for a total cost of \$5,460,000.

On August 27, 2014, Utilities Commission reviewed the key terms of the Modifications Agreement and recommended to Town Council for approval.

On September 16, 2014, Town Council approved the execution of the Modifications Agreement, key terms of the Operations Agreement, key terms of the Joint Use Agreement, and associated costs for other key WISE Project components. The resulting closing of the Western Pipeline essentially satisfied the Western Pipeline contingency in the Water Delivery Agreement.

On October 1, 2014, the Town paid its second option payment for the Box Elder Well Field of \$100,000. This payment extended the due diligence period to October 1, 2015.

On October 22, 2014, staff provided the Utilities Commission with an update of the Alternate Source of Supply Projects.

On November 18, 2014, Town Council approved a resolution to participate in the Ridgeway Pipeline Participation Agreement for the design of the Ridgeway Pipeline and other local infrastructure needed to move WISE water through PWSD to the Town of Castle Rock for a cost of \$103,720. Town Council was updated on status of the Rueter-Hess Reservoir permit amendment and that a draft permit had been received, which for practical purposes, satisfied the last contingency in the Water Delivery Agreement.

On December 16, 2014, staff provided an update to Town Council on the Alternate Source of Water Supply Projects.

On February 17, 2015, Town Council approved a resolution to the amendment to extend the water rights brokerage agreement with Stillwater Resources & Investments, Inc. for another two years.

On March 17, 2015, Town Council approved additional funds (\$368,337) to implement the agreement regarding modifications to shared infrastructure of the WISE Western Pipeline by the South Metro WISE Authority.

On April 21, 2015, staff provided an update to Town Council on the Alternate Source of Water Supply Projects.

On June 24, 2015, staff provided the Utilities Commission with the details of the surface use lease agreement for the Rothe Property. Utilities Commission recommended moving forward and finalizing the lease agreement with the adjacent landowner, Sublette, Inc.

On August 18, 2015, Town Council approved Burns & McDonnell, Inc. to design approximately five miles of pipeline that will be a key piece of infrastructure in order for the Town to accept WISE supplies.

On August 18, 2015, Town Council approved a Surface Use Agreement with Sublette, Inc. to use the Rothe Property for recreation activities, while managing the property on the Town's behalf.

On December 9, 2015, staff updated the Utilities Commission on the status of the WISE and Box Elder projects, including the 1041 permit process being considered by Weld County and associated with the Box Elder project.

On January 5, 2016, staff provided an update to Town Council on the Alternate Source of Supply Projects.

On April 19, 2016, Town Council approved a resolution to execute the Intergovernmental Water Infrastructure Cost Sharing, Construction and Capacity Allocation Agreement between the Town of Castle Rock and Parker Water and Sanitation District for the Ridgeway Pipeline.

On August 16, 2016, Town Council approved a resolution to execute purchase and sale agreements for the PV, LLC Water Rights and the Keenesburg Pipeline with PV, LLC and Pioneer Metropolitan District No. 3, respectively, and a supplemental appropriation for the purpose of closing on the Box Elder well field.

On August 16, 2016, Town Council approved a resolution to execute the Intergovernmental Water Infrastructure Cost Sharing, Design, Construction and capacity Allocation Agreement for the Canyons design-build contract.

On September 6, 2016, Town Council approved an amendment to the Box Elder Option Agreement extending the closing option date from October 1, 2016, to December 1, 2016.

On October 18, 2016, Town Council approved the \$300,000 option payment which was the next installment of the option on the Box Elder well field.

On October 26, 2016, the Utilities Commission recommended Town Council approve the closing on the Box Elder well field prior to December 1, 2016.

On November 1, 2016, Town Council approved the resolution approving a construction contract with Garney Companies, Inc. for the WISE Local Infrastructure Project to construct the 36-inch, 5.1-mile pipeline from Outter Marker Road to the Ray Waterman Regional Water Treatment Center.

On November 15, 2016, Town Council approved the closing on the Box Elder well field prior to December 1, 2016.

On December 1, 2016, Town of Castle Rock closed into escrow on the purchase and sale of the Box Elder well field for \$8.3 million.

On February 21, 2017, Town Council approved the amendments to the PV, LLC Water Rights and the Keenesburg Pipeline agreements to extend the closing date.

On March 7, 2017, Town Council approved the Stillwater Brokerage Agreement with Stillwater Resources & Investments, Inc. for two years.

On March 28, 2017, the Town Council approved the first reading of the Ordinance approving the farm lease agreement with Rupple Farms, LLC.

On March 31, 2017, the Town of Castle Rock closed on the purchase of the PV, LLC (\$10.4 million) water rights and the Keenesburg Pipeline (\$2.2 million).

On April 4, 2017, the Town Council approved the second reading of the Ordinance approving the farm lease agreement with Rupple Farms, LLC.

Discussion

WISE Project

The WISE Authority was formed on July 10, 2013. Including the Town, there are currently ten South Metro members comprising the Authority. The purpose of the Authority is to implement the WISE project and deliver WISE water to all members of the Authority based on their average annual subscription amount. Below is a table showing all of the participating entities and their subscription amounts and the seat they hold on the WISE Authority Executive Board.

Authority Member	Subscription Amount	Board Member
Dominion	1,325	Vice President
Parker	1,200	Assistant Secretary
Castle Rock	1,000	President
Centennial	1,000	
Pinery	500	Secretary
Stonegate	1,000	
Rangeview	500	Treasurer
Inverness	500	
Cottonwood	400	
Meridian	300	
TOTAL	7,725	

Infrastructure

The infrastructure includes two distinct parts, “core” infrastructure and “local” infrastructure. The core infrastructure will be shared by all WISE members and comprises primarily the Western Pipeline and modifications to that pipeline. More details on this infrastructure are in **Attachment B**. Local infrastructure is defined as infrastructure required by one or more of the members of the WISE Authority. Castle Rock’s strategy is to partner with as many other members as possible on each portion of the local infrastructure.

Core Infrastructure

On June 17, 2014, Town Council approved the Western Pipeline Purchase Agreement. This document has been signed by all parties. On September 16, 2014, Town Council approved the Modifications Agreement as well as the key terms of the Operations Agreement and the Joint Use Agreement, which were the remaining components of the Western Pipeline Agreement. The closing of the Western Pipeline Purchase Agreement, which includes the Operations Agreement, Modifications Agreement, and License Agreement, was on October 21, 2014.

In December 2014, the WISE Authority negotiated a design-build contract with Western Summit for the Western Pipeline modifications and the Aurora Connection of \$13,295,000. When adding other project costs including services during construction, tank land, preliminary engineering, a 5% construction contingency which was managed by the WISE Authority and \$300,000 for tank aesthetics in accordance with the requirement from Aurora City Council, the total costs for the modifications was up to \$14,751,852 and for the Aurora Connection \$1,364,838. The Town of Castle Rock’s pro-rata share was \$1.17 million. Substantial completion for this work occurred in December 2016. Final completion is expected in June 2017. The change orders for the project totaled 2% of the project budget. A high level map of the modifications is shown in **Attachment B**.

Dominion Water and Sanitation District has been making their monthly lease-purchase interest payments on the \$4,300,000 lease-purchase agreement that was approved by Town Council on June 17, 2014. This lease-purchase agreement was for a period of 60

months at a minimum 3% interest rate. The Town expects to collect \$645,000 in interest over this period with a full principal payment at the end of the term.

Local Infrastructure

A piece of infrastructure to deliver WISE water from the Western Pipeline to Parker Water and Sanitation District (PWSD) is called the Ridgeway Pipeline. This piece of the project has been designed and construction began in May 2016 by Layne Heavy Civil for \$14.3 million which includes work to construct 4.2 miles of 42-inch diameter steel pipe, a chloramination facility at the Rueter-Hess Water Purification Facility (RHWPf), and a high service pump station expansion at the RHWPf. Additional construction phase costs included cultural resource monitoring, PWSD design and construction project management costs, CH2M construction phase services, and a 10% construction contingency to help manage unforeseen changes. PWSD, Pinery, Dominion, and Stonegate entered into a cost sharing intergovernmental agreement for this infrastructure. The total costs amounted to approximately \$18 million with Castle Rock's pro-rata share being \$3.6 million. Significant progress has been made, and construction is expected to be complete by June 2017.

Additionally, PWSD plans to complete their chloramine conversion by Fall 2017. The preliminary wheeling fees, which include operation and maintenance costs, are anticipated to be around \$1.53 per 1,000 gallons of water delivered through PWSD's system. Intergovernmental Agreements to set these fees are in the process of being developed. The depiction of this infrastructure is shown on **Attachment B**.

The Town performed an alignment and preliminary design study to convey WISE water from the Ridgeway Pipeline. The study compared two main alignment options to convey the WISE water to the Town, one alignment option being around the west side of Rueter-Hess Reservoir (RHR) and the other proposed alignment was around the eastern side of RHR (using some existing infrastructure owned by PWSD). AECOM was awarded the design in July 2014, and completed the work for \$93,498. Dominion Water & Sanitation District paid for 50% of these costs. The most economical option was to utilize existing infrastructure owned by PWSD (around the eastern side of RHR), construct the Canyons pipeline through the Canyons Development, and construct the Outer Marker Road pipeline from Canyons pipeline to Ray Waterman Regional Water Treatment Center (RWRWTC).

Additionally, the Town partnered 50/50 with PWSD to study the hydraulics of the flow of WISE water through Parker's system to identify possible bottlenecks and to evaluate the timing of when certain infrastructure expansions will need to be made. AECOM completed the work for \$19,715 in February 2016. The Town is currently working with PWSD to coordinate the timing of infrastructure expansions which includes additional pipelines, a pump station, and pump station expansions.

The Town plans to partner with PWSD, Dominion, and the Canyons Development on shared infrastructure around the east side of Rueter-Hess Reservoir. This infrastructure is referred to as the Canyons Pipeline which was also included as part of PWSD's design-build request for proposal package issued in March 2016. The other items included in this package included are the chloramination conversion (previously

mentioned), iron and manganese removal system (previously mentioned), a pump station expansion, and a new pump station. Proposals were received by PWSD in April 2016, and PWSD awarded the design-build contract to Stantec/Western Summit team for a total contract authorization of \$13.642 million. Additional costs were needed for cultural resource monitoring, project management, and a 10% contingency managed by PWSD. In August 2016, the Town entered into an IGA with PWSD to complete this work. Castle Rock's pro-rata share was \$10.5 million. Dominion will be paying for \$4.7 million of the cost in a separate license capacity agreement with the Town of Castle Rock. Subsequently, PWSD took the off-ramp for the design-build contract because they were not able to reach agreeable negotiated prices with Western Summit. PWSD is in the process of negotiating new construction costs with Layne. While negotiations with Layne are showing a cost savings over Western Summit's costs, the costs are likely still going to exceed what has been budgeted. More will be known about the cost and schedule in May 2017. A revised agreement will have to be brought back to Town Council at that time.

Burns & McDonnell provided the design of the Outter Marker Road Pipeline which includes 5.1 miles of 36-inch PVC water lines from Outter Marker Road (PWSD infrastructure) to RWRWTC. The total cost for this work was \$290,260 and Dominion partnered 50/50 on the cost. Additional cultural resource inventory work was needed and a new contract was issued to Burns & McDonnell in the amount of \$14,303 to complete this work. The design work was completed in August 2016 and the project bid for construction Fall 2016. Garney was awarded the construction contract for \$14.1 million. Burns & McDonnell is providing construction engineering services for the Outter Marker Road project for a cost of about \$240,000. The project is on schedule to be completed by August 2017.

The good news is that as the WISE project has become clearer, the estimated and actual costs projected for the WISE capital improvements are tracking closely to the financial evaluation done by Castle Rock Water at the time of approval of the Hybrid Long-Term Water Solution in 2013. The costs for pipelines and infrastructure modifications at that time were estimated at \$42 million, and the costs are tracking at approximately \$40 million. Construction costs increased across the board since initial project budgets were developed (Construction Cost Index has increased from 194.6 to 207.3 since 2012) but partnerships are keeping the project within budget. The schedule is to bring WISE water to the Town by late 2017 or early 2018.

In December 2014, the Town entered into an intergovernmental agreement with PWSD to utilize their Cherry Creek Diversion Structure to pump the Town's water rights within that basin into Rueter-Hess Reservoir for storage. According to PWSD staff on April 13, 2017, the Town had 66 acre-feet of water stored in Rueter-Hess.

Douglas County Option

In an effort to help reduce the reliance on non-renewable groundwater supplies in Douglas County, the County, Denver Water and Aurora have signed a Memorandum of Understanding for the County to obtain an option to secure an additional 2,675 AF of WISE water (on average) each year for rural users or for existing WISE Authority members. Initially, Stonegate accessed this reserved water and had taken down an

additional 500 acre-feet from this option for a total subscription amount of 1,000 acre-feet. The caveat with using Douglas County's option was that the water would not be available for use until 2021. Stonegate would be able to fully utilize any additional water available immediately. Further discussions revealed that Dominion does not need WISE water until 2018 or 2019 and based on the terms of the Water Delivery Agreement, Dominion would have to take-or-pay for its WISE water beginning in 2017 even though it was unable to use the water. After Stonegate and Dominion discussed their matters, Stonegate elected to take down 500 acre-feet of Dominion's take-or-pay subscription amount so they can utilize the additional WISE water immediately and when Dominion needs their full subscription of water, they will take down a portion of the Douglas County option to utilize in 2021. Dominion will continue to pay capital costs based on their full subscription amount.

Rueter-Hess Reservoir 404 Permit Amendment

In October 2014, the draft permit was issued and in August 2015, the Corps issued the final permit with signatures from the Native American tribes.

Colorado River Cooperative Agreement

Denver Water's participation in the WISE Partnership – Water Delivery Agreement includes providing water from reusable return flows, which originate on the West Slope. To resolve longstanding disputes with the West Slope, Denver Water has entered into the Colorado River Cooperative Agreement (CRCA), which authorizes use of Denver Water's reusable return flows in the WISE Partnership under certain terms and conditions. The CRCA was executed at the end of 2013.

Box Elder Project

Box Elder Well Field

The first piece of the puzzle for the alternate northern water supply is the diversion system for future water supply rights that the Town may obtain in the South Platte River basin and this piece of the puzzle is complete. The Box Elder Well Field is located approximately six miles east of Lochbuie, CO in southern Weld County as shown on **Attachment C**. The well field contains eleven existing permitted alluvial wells, 850 acres of property, 5 shares of FRICO-Barr water rights, and approximately 300 acre-feet of consumptive use HID water rights.

On April 1, 2014 Town Council approved a resolution for the Town to enter into a 5-1/2 year option agreement on the well field with the Box Elder owners. The Town made four option payments totaling \$650,000 between April 2014 and October 2016. The Town closed into escrow on December 1, 2016 for \$8.3 million saving \$1.1 million on base purchase price by closing one year early. Funds were transferred out of escrow on December 30, 2016.

Initially, there were few drawbacks to the current option. The primary risk was the securing of appropriate water rights and the water court requirements to put these rights to municipal use. The staff has been working very hard to secure water rights in a timely manner so that we can close early and save our customers a very significant sum of

money. This savings would have the impact of reducing the amount of future projected needed rate increases.

Town staff is performing additional work on the Box Elder Well Field in preparation for design and construction of infrastructure and a future water court case. This additional work includes developing a plan to engage the local community, doing further testing of the hydrogeology of the aquifer, monitoring stream flow of Box Elder Creek quarterly, and preparing a groundwater modeling plan with our consultants to gather key data in preparation for Water Court.

Securing Water Supply

Staff continues to work with Stillwater on water rights that may be available for the Town to secure. Potential supplies include recharge credits that are already decreed for augmentation and potential exchanges from rights downstream of the confluence of Box Elder Creek and the South Platte River. To date, the Town has acquired up to 1,805 acre-feet of water rights for the project. The total of potential water rights that were being evaluated is in excess of the 2,500 AF that the Town is seeking as a part of the hybrid solution.

The Town's purchase of the Rothe Property was a major step forward towards renewable water rights acquisition. On August 19, 2014, Town Council approved the contract assignment and subsequent purchase of the Rothe Recharge water rights which can be used as an augmentation water source in conjunction with the Box Elder Creek Well Field for the Alternate Source of Water Supply Project hybrid solution. The Rothe Recharge water rights could potentially account for 770 acre-feet of augmentation water which is approximately 30% of the total water that is to be acquired for the project. The purchase price for the agreement was \$5,200,000 which included an existing well, 640 acres of property, and an existing easement. A 5% brokerage fee of \$260,000 was also paid as part of this agreement to Stillwater in accordance with the Town's brokerage agreement. This purchase closed on September 17, 2014.

The general concept of the Rothe Recharge Project is that water can be diverted from the South Platte River at the Riverside Canal which is located east of Greeley under a water right with an effective 1988 priority date (see **Attachment C**). This water is delivered from the Riverside Canal into several recharge ponds which then makes its way through the alluvial sands as groundwater return flow to the South Platte River approximately 16 miles downstream of the point where Box Elder Creek theoretically enters the South Platte River. The hydrogeologic transport of this water through the alluvium takes a number of years. The decree in Colorado Water Court Case No. 89CW027 defines the terms and conditions for operation of this project, including the specific timing of the recharge credits.

On March 30, 2017, the Town closed on 1,035 acre-feet of the PV Water Rights located in the Lost Creek Basin for \$10.4 million. This purchase included the purchase of seven wells from PV, LLC. The water quality from each well has been tested. The final selection criteria for the wells was set to achieve a blended water quality that is economically feasible to treat to drinking water standards. The water has already been changed from agricultural use to municipal use. This purchase brings the total

augmentation water for the Box Elder project to 1,805 acre-feet or approximately 72% of the amount desired for the project.

Town Council approved a lease agreement with the Town of Wiggins in January 2016 for the Town of Wiggins to lease excess Rothe Recharge credits. This allows the Town to recoup a portion of the purchase price, thus, decreasing the overall financial impact to the Town. In April 2017, we expanded this agreement to 600 acre-feet per year for five years.

The Town is preparing information for an augmentation plan that will be submitted to water court at the end of 2017 or early 2018. The information will include well locations, recharge pond location, letter of intent from various partnership entities, can and will use letter for extending the Keenesburg pipeline, water storage rights in nearby reservoirs, and plans on how we can move the water to Town.

Infrastructure

Major pieces of infrastructure need to begin design and construction over the next decade to be able to deliver water from this project to Town. These pieces of infrastructure include new municipal alluvial wells on the Box Elder well field and PV well field, possible recharge basin on the Box Elder property, extensions to the Keenesburg pipeline, additional capacity in the existing East Cherry Creek Valley (ECCV) pipeline (we currently own 1.4 MGD capacity), treatment capacity in the ECCV water treatment plant, new pipelines from the Box Elder well field to a water treatment facility, potential reservoir storage capacity.

The model for the well field continues to be revised and optimized. To date, Miller Groundwater Engineering LLC has been able to identify the sustainable yield of the well field under both a constant year round pumping scenario and a municipal curve pumping scenario (i.e. timing water demands and pumping at the well field with actual demands in our system including increased summer usage and decreased winter usage).

The results of these analyses indicate that sustainable yields under constant pumping are 2,100 to 3,100 AF/year. Under our municipal demand curve, sustainable yields are 2,300 to 2,700 AF/year. The original response to the RFP from Stillwater indicated an estimated capacity of 4,000 AF/year. The Town's current hybrid solution seeks 2,500 AF/year of water from the other northern supplies and 1,000 AF/year from WISE. As such, this well field capacity is adequate to meet the needs of the Town's hybrid solution, but staff will continue to collect data and improve this model in preparation for a future water court case and also to assist with the design of the infrastructure.

On March 30, 2017, the Town closed on the Keenesburg pipeline capacity purchase. The Keenesburg pipeline was identified as a potential key piece of existing infrastructure that can be used to make Box Elder project work. This pipeline gives us the ability to move water (800 gpm) that we have rights to in Weld County (the PV, LLC water). Specifically, this pipeline provides the ability to deliver augmentation water close to Box Elder Creek at a reasonable price. The total cost for this 67% capacity purchase was \$2.3 million.

The negotiations for additional capacity in ECCV's Northern Pipeline will begin soon since a significant portion of the augmentation supply has been acquired and the Town plans to submit the augmentation plan to Water Court by the end of the year. If Box Elder project continues, the Western Pipeline will also be part of the infrastructure that will be needed for the Box Elder project to transport water from that area. Castle Rock currently owns 1.4 million gallons per day capacity in the Northern Pipeline but will need to secure up to 3 million gallons per day additional capacity to move the water from the Box Elder Well Field to Castle Rock.

Attachments

- Attachment A: Schedule
- Attachment B: Water Plan
- Attachment C: Rothe Location Map