# **CITY OF VICTOR, COLORADO**



500 Victor Ave. PO Box 86 Victor, CO 80860 Office (719)689-2284 Fax (719)689-2703

**Richard Mann** City Administrator Bruce Davis Mayor

Date: February 17th, 2021

To: Rachel Pittinger- CWCB

From: Richard Mann- City Administrator

Ref: Request of additional funds on loan

Good day Rachel,

I am writing to request additional \$125,000 dollars to be added to our original loan application of \$250,000 dollars. The request comes after on-site visit of the Reservoir #2 with JDS Hydro on February 12<sup>th</sup>, 2021. This visit discussed potential lining of outlet pipes estimated at \$95k, installing manhole on 12inch line to allow for videoing pipeline in future, estimated at \$15k and replacing two 12" valves at blowoff, estimated at \$15k.

The new total loan request is \$375,000 dollars.

If you have any questions, please contact myself at <u>rmann@cityofvictor.com</u> or my cell at 719-250-3817

Respectfully,

Richard Mann

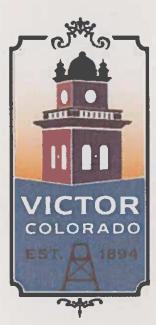
Richard Mann City Administrator

## **Loan Feasibility Study**

## Victor Reservoir #2 Outlet Control Modifications

For

# **City of Victor**



FEASIBILITY STUDY APPROVAL Pursuant to Colorado Revised Statutes 37-60-121 & 2, and in accordance with policias adopted by the Board, the CWCB staff has determined this Feasibility Study mets all applicable requirements for approval. 2/22/2021

Sig

January 2021

**Prepared By:** 



CONSULTANTS, INC.

5540 TECH CENTER DRIVE • COLORADO SPRINGS, CO • 80919 • (719) 227-0072 • FAX (719) 471-3401

# **CITY OF VICTOR, COLORADO**



500 Victor Ave. PO Box 86 Victor, CO 80860 Office (719)689-2284 Fax (719)689-2703

**Richard Mann** City Administrator Bruce Davis Mayor

Date: January 27th, 2021

To: Colorado Water Conservation Board: Finance Section

Attn. Matt Stearns, P.E.

From: Richard Mann- City Administrator

Ref: Letter of Transmittal CWCB Water Project Loan Program City of Victor Reservoir #2 Outlet Control Modifications

Dear Colorado Water Conservation Board,

Enclosed is a copy of an Application and Feasibility Study for the City of Victor in Teller County, Colorado. This study examines the feasibility of alternatives to provide new low-level outlet controls for Victor Reservoir #2; and demonstrates the technical, financial, environmental, and institutional feasibility of the alternatives. The City of Victor is requesting funding through the Colorado Water Conservation Board (CWCB) for a portion of the construction costs associated with these improvements. The study has been prepared in conformance with requirements for funding of the CWCB and the dam safety regulations of the Colorado State Engineer's Office (SEO).

If there are any questions on the application or feasibility study, please contact Richard Mann, City Administrator at 719-689-5641 or <u>rmann@cityofvictor.com</u>. **Respectfully,** 

Richard Mann

Richard Mann City Administrator

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Richard Mann

Richard Mann City Administrator

# Loan Feasibility Study

# Victor Reservoir #2 Outlet Control Modifications

For

# **City of Victor**



January 2021

Prepared By:



CONSULTANTS, INC.

5540 TECH CENTER DRIVE • COLORADO SPRINGS, CO • 80919 • (719) 227-0072 • FAX (719) 471-3401



COLORADO

Colorado Water **Conservation Board** 

Department of Natural Resources

Water Project Loan Program Projects financed by the Water Project Loan Program must align with the goals identified in Colorado's Water Plan and its measurable objectives.

Application Type					
Prequalification (Attach 3 years of financial statements) 🔽 Loan Approval (Attach Loan Feasibility Study)					
Agency/Company Information					
Company / Borrower Name: City of Victor					
Authorized Agent & Title: Richard Mann, City Administrator					
Address: 500 Victor Ave., P.O. E	ox 86, Victor,	CO 80860			
Phone: (719)689-2284	Email:rmann@	cityofvictor.com			
Organization Type: Ditch Co, District, Municipality Incorporated? YES					
other:		NO			
County: Teller		Number of Shares/Taps:435			
Water District: 12		Avg. Water Diverted/Yr1,384 acre-feet			
Number of Shareholders/Customers Ser	ved: 400	Current Assessment per Share \$ (Ditch Co)			
Federal ID Number:84-60000626		Average monthly water bill \$ 20.00/residence (Municipality)			
Contact Information		1			
Project Representative: Richard Ma	nn				
Phone: (719)-689-2284	Email:rmann@	cityofvictor.com			
Engineer: JDS-Hydro Consultant	ts, Inc.				
Phone: (719)-227-0072	Email:esteffens	s@jdshydro.com			
Attorney: Jeff Parker - Hoffman,	Parker, Wilso	n & Carberry, P.C.			
Phone: ( 303) - 951-2097	Email: jhparker(	@hpwclaw.com			
Project Information					
Project Name: Victor Reservoir #2 C	utlet Control Mo	difications			
Brief Description of Project: (Attach sep					
Replace the existing outlet tower c	ontrol with a slop	bed gate operator for both the mainline and mudline			
Project Start Date(s) Design: November 2020 Construction: May-August 2021					
General Location: (Attach Map of Area)					
Victor Reservoir #2 is located in the SW ¼ of the NW ¼ of Section 2, Township 15 South, Range 69 West of the 6th P.M., Teller County, Colorado.					
Project Costs - Round to the nearest thousand					
Estimated Engineering Costs: \$18,000	ated Engineering Costs: \$18,000 Estimated Construction Costs: \$369,000				
Other Costs (Describe Above):	Estimated Total Project Costs:\$387,000				
Requested Loan Amount: \$250,00	00.00	Requested Loan Term(10, 20, or 30 years): 20 Years			
Signature					
		Return to: Finance Section Attn: Matt Stearns			
Richard Mann		1313 Sherman St #718 Denver, CO 80203			
	01/27/2021	Ph. 303/866.3441			
Signature / Title	Date	e-mail: matthew.stearns@state.co.us			



CONSULTANTS, INC.

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#### **Executive Summary**

This study examines the feasibility of alternatives to provide new low-level outlet controls for Victor Reservoir #2; and demonstrates the technical, financial, environmental, and institutional feasibility of the alternatives. The City of Victor (Victor) is requesting funding through the Colorado Water Conservation Board (CWCB) for a portion of the construction costs associated with these improvements. The study has been prepared in conformance with requirements for funding of the CWCB and the dam safety regulations of the Colorado State Engineer's Office (SEO).

Victor Reservoir #2's outlet system consists of two service outlets which include: a 20-inch cast iron pipeline which serves as a low-level outlet and a 12-inch cast iron pipeline that serves as a water supply line and flows directly into the Victor's water treatment facility. Both outlet pipes are controlled by valves operable from the top of an inlet structure tower constructed from reinforced concrete cylinders stacked vertically. The inlet tower is located about 30 feet measured perpendicular into the reservoir from the crest and located near the center of the dam. A metal catwalk provides access to the inlet structure.

The outlet tower at Victor Reservoir #2 required emergency stabilization in Spring 2020 due to lateral movement caused by ice action. The emergency stabilization of the tower allowed Victor to evaluate the existing tower and determine whether to repair the valve tower or replace the outlet controls with upstream slide gates.

Three alternatives for the low-level outlet controls were developed. The recommended alternative is to replace the outlet tower with a sloped gate operator. In order to construct the low-level intake structure, the water surface elevation must be lower than the intake elevation for the low-level outlet to avoid an extensive and costly cofferdam system. The purpose of this report is to gain funding for construction of new low-level outlet control system.

The total capital expenses for the recommended alternative, including construction and construction engineering services, with 15 percent contingency is \$387,000 for the sloped gate operator system. Victor is applying for a loan from the CWCB in a maximum amount of \$250,000 to accommodate 65% of the estimated project cost. The remaining 35%, or \$137,000 will be provided by Victor from City Capital Reserve Funds. Final design is expected to be completed in April 2021 with construction beginning in May 2021 and completion by September 2021.



#### **Section 1 – Introduction**

#### 1.1 Purpose

Victor, located in Teller County, owns and operates Victor Reservoir #2 as a water storage reservoir for the city, surrounding rural customers and the Cripple Creek & Victor Gold Mine. The reservoir is fed from East Fork of West Beaver Creek. The reservoir has storage rights appropriated in 1897 and adjudicated in 1954. These rights allow Victor to store 202.77 acre-feet of water in the reservoir. The dam was constructed in 1897. Figure 1-1 is a vicinity map which presents the general location of the dam.

The outlet tower at Victor Reservoir #2 required emergency stabilization in Spring 2020 due to lateral movement caused by ice action. The emergency stabilization of the tower allowed Victor to evaluate the existing tower and determine whether to repair the valve tower or replace the outlet controls with upstream slide gates. The purpose of this feasibility study is to determine the most viable method of improving the outlet controls at Victor Reservoir #2. Three alternatives are examined for financial, technical, and institutional feasibility. Alternative 1 is a partial tower replacement, Alternative 2 is a sloped gate operator, and Alternative 3 is one of no action.

The project will be financed through the water project loan program from the CWCB and Victor Capital Reserve Funds. Repayment will be accomplished by raw and treated water revenues. A financial analysis is presented showing the funding and repayment for the preferred alternative. A copy of the CWCB loan application is included in Appendix A.

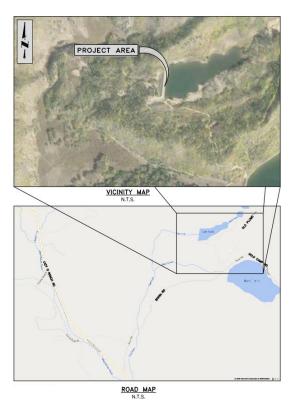


Figure 1-1 Vicinity Map



#### 1.2 Sponsor

Victor is a statutory city located in Teller County. The city was founded in 1891, platted in 1893, and officially became a city on July 16, 1894. Gold was discovered in the area in 1890 and the city reached its peak around the turn of the century when there were approximately 18,000 residents. Depleted ore in mines, labor strife, and the exodus of miners during WW1 caused a steep decline in the city's economy. In 1976 the Cripple Creek & Victor Gold Mining Company formed as a joint venture to restart the mining district. Mining continues today at the Cripple Creek & Victor (CC&V) Gold Mine under the ownership of Newmont Mining Corp. The population of Victor was 397 at the 2010 census down from 445 in 2000.

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Victor, also known as the "City of Mines", is located on the western side of Pikes Peak and is situated next to Pike National Forest. The City overlooks the Wet Mountains to the south, while the Mosquito Mountain Range is visible to the west. Victor is situated at 9,708 feet above sea level. Highway 67 runs through the city with Cripple Creek 5.4 miles to the northwest and City of Colorado Springs located 46 miles west. Victor is located at latitude 38°42'35"N, longitude 105°8'27"W (38.709609, -105.140859). Victor has a total area of 0.27 square miles, all of it land.

Victor operates under a Council form of government with an elected Mayor and a City Council. Victor's Public Works provides water supply and distribution, sewer and storm water drainage system operation and maintenance, right-of-way maintenance, and fleet management.



#### **Section 2 – Background**

#### 2.1 Study Area Description

The City of Victor's service area includes the City's residents and businesses and the CC&V Gold Mine. A total of approximately 435 connections are served. Victor's raw water system serves mining and milling activities as well as providing the source for potable water treatment. Raw water is delivered through a network of piping to the CC&V gold mine and to the City's treatment plant. Victor's water system draws water from four sources, 1) Victor Reservoir #2 and Pipeline (constructed in 1897), 2) Altman Pump station (constructed in 1860), 3) Bison Park Reservoir (constructed 1901), and 4) City of Cripple Creek wells. For water quality concerns (sediment) Victor's primary domestic and municipal water supply comes from the wells which pumps from the West Beaver Creek alluvial aquifer to the City's treatment facility. Victor Reservoir No. 2 and Altman are backup supplies for the municipal users. The water supply to the CC&V Gold Mine is provided primarily from Altman Pump Station and Victor Reservoir No. 2. Bison Park Reservoir is a backup supply for all uses and currently provided recreational use (fishing and camping) for the members only Gold Camp Fishing Club. The water supply to Victor customers includes its water rights (See Table 2.1) and leased water from City of Cripple Creek, Colorado Springs Utilities and Board of Water Works Pueblo.

Victor Reservoir #2 and Bison Park Reservoir releases water directly into Victor's water system where it is comingled with deliveries from Altman Pump Station to provide water to the City (as needed) and the Mine (primary supply). The intake at Victor Reservoir #2 is a 12-inch pipeline while a 6-inch outlet pipe from Bison Park Reservoir ties in with the 12-inch pipeline and continues to make its way down to the first set of four (4) valves where it downsizes to a 6-inch pipeline that supplies water to the Victor Water Treatment Plant. Altman Pump Station ties into the main pipeline but operation of the pump station is not required to serve raw water to the City's treatment facility or the mine. The locations of the physical facilities of Victor's water system are shown on Figure 2-1.



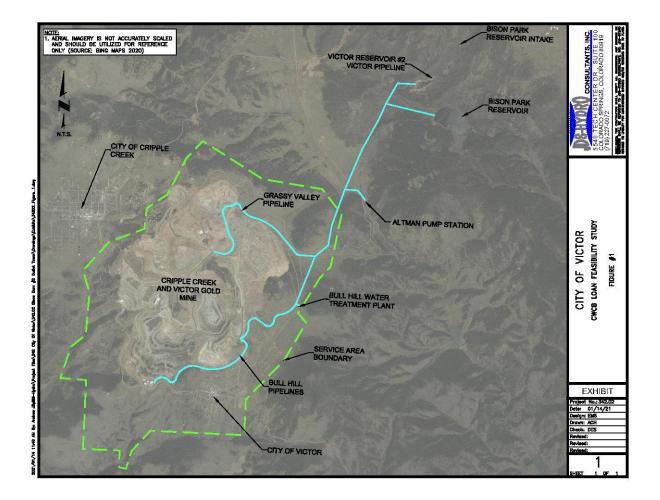


Figure 2-1 General Water System Layout

Victor Reservoir #2 serves as a source for direct releases of storage water to Altman Pump Station. Victor Reservoir No. 2 is an on-stream reservoir located on the East Fork of West Beaver Creek, a tributary of the Arkansas River. Approximately one mile upstream of its dam is an on-stream control structure where the stream flow is either left in the creek to flow into Res. 2 and the Victor Pipeline or divert into Bison Park Reservoir feeder ditch/pipeline. West Beaver Creek flows generally south a distance of approximately 35 miles to its confluence with the Arkansas River approximately 20 miles west of Pueblo. Neither the East Fork of West Beaver Creek or West Beaver Creek below the confluence of the two flow through any established town or significantly inhabited homesite. The City of Victor is located off-stream approximately 5.5 miles southwest of the dam and reservoir. Victor Reservoir #2 is located in the SW <sup>1</sup>/<sub>4</sub> of the NW <sup>1</sup>/<sub>4</sub> of Section 2, Township 15 South, Range 69 West of the 6<sup>th</sup> P.M., Teller County, Colorado. The dam is classified as Significant hazard, Jurisdictional dam.



The dam was originally constructed in 1897. During the 1960's the dam was raised to increase water storage capacity of the reservoir. Original configuration of the dam is unknown, but it estimated to have had a crest width of about 12 feet and upstream and downstream slopes of about 1.75 horizontal to 1 vertical (1.75H:1V). When the dam was raised it was apparently done so by the addition of fill on the crest and downstream slope. At present, the dam is approximately 43 feet high and 565 feet long, have a normal full capacity of 252 acre-feet, and a surface area at the normal storage of 19 acres. Normal water surface elevation of the reservoir is approximately 10,401 feet (staff gage height 26.9). The crest width is approximately 18 feet at an elevation of 10,411.5. In the 1990's the spillway size was increased to pass <sup>1</sup>/<sub>2</sub> of the Probable Maximum Flood (PMF) The spillway is located in a cut in the south abutement of the dam and is trapezoidal in cross section with a 45-foot bottom width and 2H:1V sideslopes. The spillway flowline crest elevation is approximately 10,401 feet and has a capacity of 5,050 cfs.

Victor Reservoir #2 has two service outlets which include: a 20-inch cast iron pipeline which serves as a low-level outlet and a 12-inch cast iron pipeline that serves as a water supply line and flows directly into the City of Victor's water treatment facility. Both outlet pipes are controlled by valves operable from the top of an inlet structure tower constructed from reinforced concrete cylinders stacked vertically. The inlet tower is located about 30 feet measured perpendicular into the reservoir from the crest and located near the center of the dam. A metal catwalk provides access to the inlet structure.

#### 2.2 Water Demands

The scope of this project includes the replacement of the existing low-level outlet works with an efficient operating structure. No additional water supplies will be developed in connection with this project. No new or increased diversions will be made from West Beaver Creek and no additional storage capacity is to be created at the reservoir. The use of the water will not change as a result of this project. The project will not increase Victors water storage or supply.

#### 2.3 Project Lands

The uses of water from Victor Reservoir #2 are not changing as a result of this project. This project will not broaden the service area.

#### 2.4 Hydrology

The hydrology for this reservoir will not be changed as part of this project. Flood hydrology is not required to design the outlet intake structure and operator.

#### 2.5 Water Rights

This project will not provide any additional water rights or water supplies for Victor. Victor has four (4) senior water rights that can divert up to two (2) cubic feet per second (cfs). The Altman water rights, which include one (1) cfs of direct flow and about 21.8 acre-feet of storage rights, are more junior. Additionally, Victor owns a junior 4.8 cfs water right and junior storage right for 1,382 acre-feet. A listing of Victor's water rights is provided in Table 2-1.

Victor has acquired and transferred several of the water rights to their current points of diversion (Table 2-1). The water rights with Administration Numbers 4123 and 4168 were originally decreed to the Glendale Ditch and Callen Ditch, respectively. They were transferred to the Altman Pump Station and

their use changed to all beneficial uses. This change occurred prior to Victor obtaining the water rights. The combined diversion amount of the two rights cannot exceed 1.0 cfs. The water rights with Administration Numbers 5254 and 5570 were originally decreed to the Johnson Ditch.

Additionally, Victor has the following exchange water rights per Case No. 10CW98.

- 1) Pueblo Reservoir to Altman Pump Station
  - a) 1.40 cfs absolute, 2.40 cfs conditional
  - b) Appropriation Date: April 16, 2008
- 2) Confluence Middle Beaver Creek and West Beaver Creek to Altman Pump Station
  - a) 1.89 cfs absolute, 1.91 cfs conditional
  - b) Appropriate Date: May 26, 2009
- 3) Pueblo Reservoir to Bison Park Reservoir Intake & Victor Reservoir No. 2
  - a) 12.5 cfs absolute
  - b) Appropriation Date: April 17, 2008



c)

Table 2-1 Summary of Water Rights

Water	Point of	Decreed	Adjudication	Appropriation	Administration	Decreed	Case No.
Rights	Diversion	Use	Date	Date	Number	Amount	
Name							
Altman	Altman	(1)	02/03/1894	04/15/1861	4123	0.294 cfs	CA2637
Water Co.	Pump						
Pipeline	Station						
Altman	Altman	(1)	02/03/1894	05/30/1861	4168	0.920 cfs	CA2637
Water Co.	Pump						
Pipeline	Station						
City of	Reservoir	(2)	02/03/1894	05/20/1864	5254	0.25 cfs	CA9886
Victor	#2 Outlet						
Pipeline							
City of	Reservoir	(3)	02/03/1894	04/01/1865	5570	0.75 cfs	CA9886
Victor	#2 Outlet						
Pipeline							
Altman		(4)	02/14/1916	09/24/1893	15973	12.280 AF	CA2637
Lower							
Reservoir							
Altman		(4)	02/14/1916	09/24/1893	15973	1.535 AF	CA2637
Middle		. ,					
Reservoir							
Altman		(4)	02/14/1916	09/24/1893	15973	7.982 AF	CA2637
Upper		. ,					
Reservoir							
Altman	Altman	(4)	02/14/1916	09/24/1893	15973	1.000 cfs	CA2637
Water Co.	Pump						
Pipeline	Station						
Victor	Reservoir	(5)	03/13/1954	05/06/1895	24150.17	4.8 cfs	CA6913
Pipeline	#2 Outlet	. ,					
Victor	Victor	(6)	03/13/1954	08/14/1897	24150.17	202.77 AF	CA6913
Reservoir	Pipeline &						
#2	Reservoir						
	#2						
Bison Park	Bison Park	(6)	03/13/1954	06/07/1901	24150.19	1147.8 AF	CA6913
Reservoir	Reservoir						
(1) Domestic Manufacturing Municipal Mining Sprinkling Fire Protection Power Household Purposes							

(1) Domestic, Manufacturing, Municipal, Mining, Sprinkling, Fire Protection, Power, Household Purposes, and Other Kindred Beneficial Uses.

(2) Municipal, Commercial, Industrial, Recreation, Domestic

(3) Municipal, Commercial, Industrial, Recreation, Domestic, Other

(4) Domestic

(5) Municipal, Industrial, Fire, Domestic

(6) Municipal



#### 2.6 Water Quality

There will be no water quality impacts as a result of this project, nor will there be any new water supplies developed as a part of this project for which water quality would need to be addressed. Construction dewatering will be performed in accordance with all appropriate permits.

#### 2.7 Field Investigations

Field investigations to date include site inspections by JDS-Hydro, topographic survey of the work area, video inspections of 20" mud line and outlet tower (interior and exterior). The topographic survey and video inspections were conducted in order to provide a basis of design on the outlet works improvements. Photographs of the Victor Reservoir #2 outlet tower movement are included in Appendix B.



### Section 3 – Alternatives Analysis

There are three (3) alternatives for the outlet works improvements at Victor Reservoir #2. The three (3) alternatives considered include:

- 1. Partial tower replacement
- 2. Sloped gate operator
- 3. The no-action alternative

The first alternative is to pour a new cast-in-place tower around the exterior of the existing tower. The second alternative is to install a sloped sluice gate operator. The third alternative is no action leaving the existing outlet tower and valves in place and not providing any additional improvements. Each plan is described in detail in the following sections.

The proposed alternatives were evaluated with consideration of cost, longevity, constructability, operability, and safety. The ideal window for construction is late Summer / early Fall due to the reduced runoff during this season, and the difficulties that winter construction would bring to the site at this high elevation.

#### 3.1 Alternative 1 – Partial Tower Replacement

This alternative consists of removing and replacing the existing tower above the existing embankment with cast-in-place concrete and a spread footing separate from the existing concrete tower. The upper portion of the existing concrete tower would be demolished to just above the dam embankment. The existing valves would remain in place and a downstream knife gate valve would be installed on the mud line as a precaution if the existing valve were to fail. In addition, a bubbler is proposed for installation both in and around the tower to limit ice load on the tower and ice binding the stems within the tower. An exhibit depicting this alternative is included in Appendix C.

Valve replacement for this option has not been included due to the difficulty of replacing these valves underwater in a confined space. Divers could plug the pipe inlets but there would continue to be water intrusion into the tower due to the condition of the walls preventing the valves from being accessible except by diver. Also, waterproofing the existing tower would not be possible without fully draining the reservoir due to the condition of the existing tower. In addition, minimum cure time requirements for most waterproofing products would make it extremely difficult to make the existing walls watertight without draining the reservoir. Since the main advantage of this option is that you do not need to fully drain the reservoir, these additional options have not been considered for this alternative.

Another significant consideration for this alternative is the shorter life expectancy. Although this new section of tower will have a separate foundation it will still be above the existing tower. If the lower section of the existing tower were to experience any instability it is anticipated that it would impact the new concrete tower. One potential means to better stabilize the lower section of the existing tower is to create an "inner ring" inside the existing lower rings. This "inner ring" could be formed around the existing valves and flow fill could be poured into the annular space between the existing tower and new forms. It is assumed that the flow fill would "push" water out of the inner ring allowing the reservoir to be partially full during implementation of this alternative. However, one issue that could be encountered is flow fill seeping under the proposed interior bulkhead forms during the pour since the bottom of the

existing tower is irregular with large chunks of concrete. Another problem is that you would then be limiting access to the valves even more by reducing the open area around the valves and increasing the difficulty of performing any maintenance on the valves in the future.

#### <u>Pros</u>

- Able to retain approximately 5-8' of water in the reservoir
- Lower cost alternative
- Utilize existing components including catwalk access, steel buttress
- Minimize "lost" water due to limited bypass pumping requirements
- Minimize "lost" water due to evaporation since less diversion to the larger surface area Bison Park Reservoir would be required

#### Cons

- Reduced life expectancy
- Inability to replace existing gate valves which are over 100 years old
- Uncertainty around retention of older facilities such as lower concrete rings, older valves
- Increased uncertainties when constructing with a partially full reservoir = potential for higher costs during construction
- More difficult for operators in poor weather/emergency situations
- Keeps the controls in the dam embankment

#### **Preliminary Cost Estimates**

#### Summer Construction: \$344,000

\*Construction engineering costs are not included.

A detailed breakdown of the cost estimate is included in Appendix D.

#### 3.2 Alternative 2 – Sloped Gate Operator

This alternative consists of removing the upper section of the existing concrete tower and installing a traditional sloped gate operator on the upstream embankment. The lower section of the existing concrete tower would remain in place and would be filled with flow fill after opening the old valves and removing the valve stems. A cast-in-place concrete inlet structure with trash rack would be provided at the pipe inlet for the mud line and main line. Each pipe would be equipped with a manually lifted slide gate with, handwheel operator, threaded stem, and lifting pedestal located on the dam crest. The gate stem and vent pipe would be encased in concrete on the upstream embankment to protect it from damage due to ice/elements. In addition, a bubbler is proposed for installation to limit ice load/binding on the gate and stems within the intake structure. An exhibit depicting this alternative is included in Appendix C.

This alternative would require the reservoir to be fully drained. A small coffer dam will be used to divert any storm flows around the construction area.

#### Pros

• Easier operation and access to the gate operator in poor weather/emergency situations



- Longer life expectancy
- Gate stem fully protected from ice/elements
- Limits the unknowns associated with a partial tower replacement in a partially drained reservoir

#### Cons

- Requires the reservoir to be fully drained
- Higher cost alternative
- Impacts Victor's ability to continuously supply water to the mine (at the same capacity as when the reservoir is full) during construction and until water levels increase = lost revenue
- Requires increased diversion to Bison Park Reservoir (higher evaporation and seepage rates)

#### **Preliminary Cost Estimates**

#### Summer Construction: \$369,000\*

\*Construction engineering costs are not included.

A detailed breakdown of the cost estimate is included in Appendix D.

#### 3.3 Alternative 3 – No Action

This alternative is considered unacceptable since it requires Victor to continue to rely on the existing tower which could result in losing access to the upstream valves or extensively damaging them if the tower were to fail. The outlet tower at Victor Reservoir #2 required emergency stabilization in Spring 2020 due to lateral movement caused by ice action. The emergency stabilization of the tower was meant as a temporary solution to allow Victor to evaluate the existing tower and determine whether to repair the valve tower or replace the outlet controls with upstream slide gates.



### **Section 4 – Selected Alternative**

#### 4.1 Selection Process Description

An overall comparison matrix was created based on the above discussion of the two acceptable alternatives and is shown in Table 4-1. The matrix lists six criteria in which each alternative is given a score from 1 to 3. The criteria are weighted from 1 to 3 based on the estimated priority given to each criterion, and the total score for each alternative is the sum of the weighted scores. Based on this matrix Alternative #2 – Sloped Gate Operator is the preferred alternative for the Reservoir #2 repairs.

		– Partial Tower placement	Alt. #2 – Sloped Gate Operator		
Criteria	Weight	Score	Weighted	Score	Weighted
Construction Cost	3	3	9	2	6
Water Loss	3	2	6	1	3
Longevity	3	1	3	3	9
Constructability	2	2	4	2	4
Ease of Operation & Maint.	2	1	2	3	6
Effectiveness	1	2	2	3	3
Total			26		31

 Table 4-1 Alternative Comparison Matrix

#### 4.2 Hydraulic, Hydrologic, and Structural Design Criteria

The primary hydraulic design consideration is the SEO requirement of draining the top five feet of the reservoir in five days. Neither alternative proposes any changes to the outlet pipes therefore there is no change to the hydraulics for this reservoir.

The hydrology for this reservoir will not be changed as part of this project. Flood hydrology is not required to design the outlet intake structure and operator.

Structural design criteria is primarily limited to the strength of the structural concrete. Structural concrete would have a 28-day compressive strength requirement of 4000 psi.

#### 4.3 Land and Right-of-Way Requirements

Victor owns the site on which the project will be constructed.

#### 4.4 **Project Implementation Schedule**

The final design is expected to be completed in early April of 2021 with approval granted by the Dam Safety Branch soon thereafter. The reservoir will be drained in April 2021. Construction will begin in May of 2021 and be completed by September 2021. A preliminary schedule is included in Appendix E.

#### 4.5 Cost Estimates

Table 4-2 presents an estimate of the construction and construction engineering costs associated with the selected alternative for this project. The design of the project, for which Victor has already contracted



with JDS-Hydro Consultants, Inc. is currently underway and budgeted at \$16,000. The cost of this feasibility study is approximately \$4,000. Operation, maintenance, replacement, insurance, and administration costs associated with this project are expected to be unchanged from current costs due to the simple scope and type of construction. The following table summarizes the costs estimated for this project.

Description	Estimated Cost
Construction	\$369,000 (including 15% contingency)
Construction Engineering	\$18,000
Total Construction Costs	\$387,000
Design Engineering (1)	\$16,000
Feasibility Study (1)	\$4,000
Total Capital Expenses	\$20,000
(1) Project expenses not financed by CWCB	
Loan	

#### 4.6 Financial Plan

Victor is applying for a loan from the CWCB for a maximum amount of \$250,000 to accommodate 65% of the estimated project cost. The remaining 35%, or \$137,000 will be provided by Victor from City Capital Reserve Funds. Victor will cover any costs that exceed the estimated project cost. Victor is requesting a 20-year loan from the CWCB. The financial plan shown in this report assumes the municipal, low-income loan rate and term with a 0.25% reduction for 20-year loan. The expected loan rate for this project is 1.35%. At this rate and terms, the annual payment on the loan will be \$14,347. The low-income rate was assumed for Victor as they are categorized as a Disadvantaged Community with a MHI of \$50,357 which is less than 80% of the State MHI and a MHV of \$107,300 which is less than 100% of the State MHV. The annual revenue and expenses for this project are shown in Appendix F.

Repayment of the loans will be made by water sales, both raw and treated water. The CC&V mine is contracted for the next 10 years which will continue to bring in raw water revenue. After this time period, it is possible mine operations may not continue. If mine operations were to cease and the revenue from the raw water sales to disappear then Victor expects to find another user to sell/lease water to maintain raw water revenues. However, if another user were not found then Victor would need to increase water rates to make up for the lost revenue. Current water rate is \$20.00 on average. An increase of approximately \$3.15 is expected to cover the lost revenue if the mine were to cease operations.

Victor has no outstanding debts at this time as these were paid off in the last few years in preparation for upcoming large projects, including this project. Three (3) years of financial audits are included in Appendix F. Victor's current schedule of rates are included in Appendix F. Victor offers a pledge of revenues as collateral.

#### 4.7 Institutional Considerations

Entities that are, or may be, involved in the design, construction, and financing of the project include:

CONSULTANTS, INC.

City of Victor – financing and project management

JDS-Hydro Consultants, Inc. - design and construction engineering

Colorado Water Conservation Board - financing and construction

SEO, Div. of Water Resources - review and approval of project plans and specifications

Victor will be the lead for the financing, design, and construction of the project and will be the entity entering into contracts and agreements with the various entities for the services provided by each.

#### 4.8 Permitting

Victor expects to be covered under U.S. Army Corps of Engineers Nationwide Permit #3 (NWP 3). This will be confirmed with the Army Corps of Engineers. Victor is required to submit an Application for Review of Plans and Specifications for the Alteration, Modification, or Repair of a Dam and Reservoir to the State Engineer's Office and the State Engineer's Office must approve the plans and specifications before the modifications outlined in Alternative #2 can be completed.

#### Table 4-3 Permit Requirements

Permitting Authority	Permit, Approval, or Agreement Required
U.S. Army Corps of Engineers	NWP3
Division of Water Resources	Approval of design
Water Quality Control Division	Construction Dewatering Permit

#### 4.9 Impacts

The project will have no significant social impact as the reservoir will continue to operate as it has in the past. Physical impacts include the changes to the dam outlet controls on the upstream side of the dam.



#### **Section 5 - Conclusions**

#### 5.1 Benefits

Victor Reservoir #2 is the primary water storage reservoir for Victor supplying raw water to the City's water treatment facility and CC&V gold mine. If this project is not constructed, there is risk that the failing outlet tower could prevent access to the upstream valves or extensively damage the valves in the future. If this were to happen the reservoir would then require an emergency repair and could lead to a loss of water for Victor, the CC&V Gold Mine and the surrounding areas, it serves as well as lost revenues from water sales.

Victor must receive approval of the project plans and specifications prior to beginning the modifications outlined in Alternative #2. The project would provide for the continued delivery of raw water to the City's treatment plant and to the CC&V gold mine. The total estimated cost of the project is \$387,000 of which 65% will be financed by a loan from the CWCB. The project is technically and financially feasible.

Victor is a statutory city in the State of Colorado with the ability to enter into a contract with the CWCB for the purpose of obtaining a loan. Victor is De-Bruced for all revenues.

Appendix A



COLORADO

Colorado Water **Conservation Board** 

Department of Natural Resources

Water Project Loan Program Projects financed by the Water Project Loan Program must align with the goals identified in Colorado's Water Plan and its measurable objectives.

Application Type						
Prequalification (Attach 3 years of financial statements)						
Agency/Company Information						
Company / Borrower Name: City of Victor						
Authorized Agent & Title: Richard Mann, City Administrator						
Address: 500 Victor Ave., P.O. E	Address: 500 Victor Ave., P.O. Box 86, Victor, CO 80860					
Phone: (719)689-2284	Email:rmann@	cityofvictor.com				
Organization Type: Ditch Co, District, Municipality Incorporated? VES						
other:		NO				
County: Teller		Number of Shares/Taps:435				
Water District: 12		Avg. Water Diverted/Yr <u>1,384</u> acre-feet				
Number of Shareholders/Customers Ser	ved: 400	Current Assessment per Share \$ (Ditch Co)				
Federal ID Number:84-60000626		Average monthly water bill \$ 20.00/residence (Municipality)				
Contact Information						
Project Representative: Richard Ma	nn					
Phone: (719)-689-2284	Email:rmann@	cityofvictor.com				
Engineer: JDS-Hydro Consultan	ts, Inc.					
Phone: (719)-227-0072	Email:esteffens	s@jdshydro.com				
Attorney: Jeff Parker - Hoffman,	and a second					
Phone: ( 303) - 951-2097		@hpwclaw.com				
Project Information						
Project Name: Victor Reservoir #2 C	outlet Control Mo	difications				
Brief Description of Project: (Attach se						
Replace the existing outlet tower c	ontrol with a slop	bed gate operator for both the mainline and mudline				
Project Start Date(s) Design: Novem	ber 2020 Cor	nstruction: May-August 2021				
General Location: (Attach Map of Area)						
Victor Reservoir #2 is located in the SW ¼ of the NW ¼ of Section 2, Township 15 South, Range 69 West of the 6th P.M., Teller County, Colorado.						
Project Costs - Round to the nearest thousand						
Estimated Engineering Costs:\$18,000		Estimated Construction Costs: \$369,000				
Other Costs (Describe Above):		Estimated Total Project Costs: \$387,000				
Requested Loan Amount: \$250,0	00.00	Requested Loan Term(10, 20, or 30 years): 20 Years				
Signature						
		Return to: Finance Section Attn: Matt Stearns				
Richard Mann		1313 Sherman St #718 Denver, CO 80203				
	01/27/2021	Ph. 303/866.3441 e-mail: matthew.stearns@state.co.us				
Signature / Title	Date	ב-ווומונ, ווומננוובאי,גובמוווגשגומנב,נט,עג				

Appendix B

Victor #2 Dam DAMID 120218 SEO Inspection Photos Outlet Tower Movement

JEH, 11 APR 2020



01\_Facing to tower from spillway



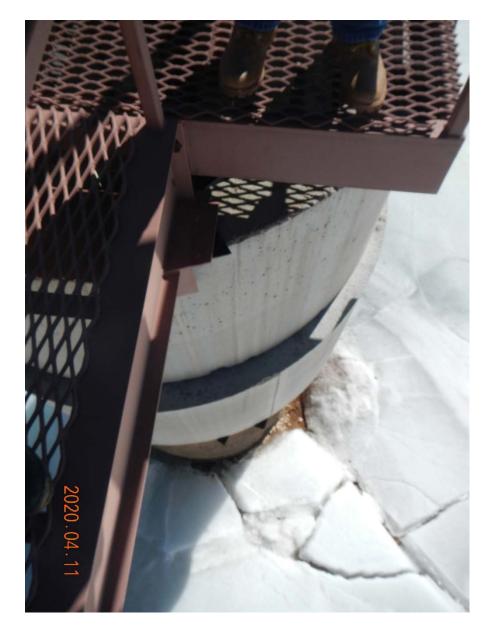
02\_Tower from Dam Crest



03\_Upstream side of tower



04\_Upstream side of tower





05\_Tower from bridge

06\_Left side of tower





08\_37ft depth to bottom of tower

07\_Left side of tower



09\_22ft depth to water in tower



10\_Downstream side of tower



11\_Left side of tower

12\_Left side of tower



13\_Upstream and right side of tower



14\_Upstream and right side of tower



15\_Left side of tower

			F	INGINE	-R'S IN	SPECT	ION RE	POF	RT	INSE	PECTOR:	JEH
OFFICE OF THE	STATE E	NGINEER - DIV		RESOURCES - D/						818, DENVER, CO 80203,	(303) 866-358	1
Dam Name: VI	ICTOR #	2		T: 150S	R: 0690W	S: <mark>3</mark> COL	JNTY: TELLE	R		DATE OF INSPECTION	· <u>8/25</u>	/2020
	20218	YRComp	ol: <u>1897</u>	DAM HEIGHT			AY WIDTH(FT)		45.0	PREVIOUS INSPECTIO		/2018
	Significant		1077	DAM LENGTH	. ,				5050.0	NORMAL STORAGE (A		
DIV: 2	U	WD:	12	CRESTWIDTH			DARD (FT):	(01 0).	11.0	SURFACE AREA(AC):	19.0	
	/4/2016	WD.	12	CRESTELEV(I			ige area (ac.	١.	3565.0	OUTLET INSPECTED:		/2020
CURRENT F			NONE	CILETELLI	1). <mark>10411.</mark>			.).	3303.0	OUTLET INSPECTED.	1127	12020
	_	ITY OF VICT						DICLU		N		
OWNER:			UK							N		
ADDRESS:		OX 86		<b>CO</b>	00000 000	CONTACT			YEATER	,		
INSPECTION PA		CTOR		CO	80860-000		PHONE:	(719)0	389-3464)			
REPRESENTING		City of Vi	<u>/annest, Walte</u> ctor	er	<u>Steffe</u>	ens Hydro				unyadi, Henrichs, Jon EO-Dam Safety & Wa		
FIELD	G.					iyuro					-	
CONDITIONS			BELOW DAM CREST		FT.	Below Spillwa	<u> </u>	~ -4	FT.	GAGE ROD READING	23.0	)8
OBSERVED	G	ROUND MOISTUR	CONDITION:	V DRY	WE	T		2	OTH	<sup>IER</sup> P <u>Cloudy, Calm, 6</u>	5F	
			DIRECTIONS:	MARK AN X F	OR CONDITIONS	FOUND AND UN	IDERLINE WORI	DS THAT	APPLY			
					ΠΡΕΤΡ	EAM SL						
				AP - MISSING, S					BOSION	WITH SCARPS		
_				_		_				_		
		ITH DISPLACEM			(5) APPEARS TO		(6) DEPRESS	IONS OF	BULGES	(7) SLIDES		
(8) CON	NCRETE	FACING - HOLE	ES, CRACKS, DIS	PLACED, UNDER	MINED	(9) OTHER						
OVERAL												
										story of the ice dama ce so far in 2020. Th		
				rom the viewp				Indve				<u>us</u>
		<b></b>										
2020 Ups The upst			the waterline	annears unc	hanged from	nrevious in	snections N	No siar	ns of sign	ficant wave erosion	or other	
			during this i		nungeu nom	previous in		to orgi				
ACTIONS	~											
		all sapling	pine trees we	ere observed o	arowing acro	ss the slope	. These sho	ould be	pulled ar	nd removed before t	hey becom	ie a
larger is						••••						
		COM	NDITIONS OBSER	VED:	Good	X Accept	able		Poo	pr		
					(	CREST						
PROBLEM	IS NOTE	<b>D</b> (10) NON	E (11 RU	TS OR PUDDLES	6 (12) ERC	SION (	13) CRACKS - 🛚 🛚	ITH DIS	PLACEMENT	(14) SINKHOLES		
(15) NC	OT WIDE I	ENOUGH	(16) LOW AREA	A (17) MIS/	ALIGNMENT	(18) IMPROI	PER SURFACE D	RAINAG	E (19)	OTHER		
The dam	n crest i	s about 18-	ft and has the	e erodible dec	omposed gra	anite surfaci	ng. No sign	s of se	ttlement o	or cracking were ob	served.	
<b>0</b>												
<u>One min</u> gullies.	lor item	is revealed	in Photo 7, is	<u>s to ensure su</u>	irface draina	ge from the	crest into th	e coars	se riprap	does not create exc	essive eros	sion
guntoon		CON	NDITIONS OBSER		Good	X Accept	ahle		Poo	nr.		
		001										
								14/1-1			-	
				OCK DAMAGE						ENT (24) SINKHOLI	E	
				ONS OR BULGES				29) OTHE				
										e many years ago ha		-
								ne pote	ntial for r	unoff erosion to occ	cur in the	
	eu nyn			g significant h		_	_		□-			
		CON	NDITIONS OBSER	VED:	Good	X Accept	able		Poo	or		

INSPECTOR:

JEH

		SEEPAGE	
PROBLEMS NOTED (30) NONE	(31) SATURATED EMBANKMEN	NT AREA (32) SEEPAGE EXITS ON	EMBANKMENT
(33) SEEPAGE EXITS AT POINT SOU			TLET (36) SEEPAGE INCREASED / MUDDY
DRAIN OUTFALLS SEEN Vo Yes	Show location of drains on sketch a amount and quality of discharge.	Ind indicate (37) FLOW INCREASED	MUDDY (38) DRAIN DRY / OBSTRUCTED
(39) OTHER			
collecting or filtering seepage glacial till foundation soils be	e were included in this desense the dam embankme	sign approach. Borings indicate t ent itself.	n the crest of the 1960's dam. No other means of that there is extensive depths of sandy, gravelly thin several hundred feet of the dam toe. This is
likely explained by the permea			
This is unchanged from previous routinely read.	ous inspections. There a	re piezometers to help confirm d	epth of a phreatic surface, however they are not
	IONS OBSERVED: Good	d X Acceptable	Poor
		OUTLET	
PROBLEMS NOTED (40) NONE	(41) NO OUTLET FOUND		(43) INOPERABLE
(44) UPSTREAM OR DOWNSTREA		D (45) OUTLET OPERATED DURING INSP	
		DETERIORATED OR COLLAPSED (47)	
(49) OTHER			_
		and the 31 ALIC 2020 IDS Livere 1	ower Evaluation Memo for further information and
details.	ower movement writeup a		
downstream. The reference JDS Hydro eval Hydro indicated the owner is of mechanical slope gate operating Soundings of the upstream sliphone of the outlet tower, graph attand the mainline has NOT been via be drained during a construct also be considered. While there are concerns current engineering solutions.	luation from 31 AUG 2020 currently leaning towards tors. This is considered a lope were collected during ached. Initial videos on the ideo'd. We understand the tion project. Installation c	) presents options to address the s eliminating the tower and install an acceptable solution by this offi g this inspection from watercraft e mudline (DRC - 29 JUL 2020) ind e owner is looking to evaluate the of a vault and blind access flange er, the owner has taken appropria	s to prevent the tower from continuing to move concerns. During a 23 SEP 2020 conference call, J ling upstream gates on the outlet pipes with ce to proceed forward with design efforts on. to estimate the angle of the upstream slope upstread dicate the pipe is in acceptable condition, although e costs to line these pipes while the reservoir might near the downstream toe for the main line should the steps to temporarily mitigate and develop long-te
PROBLEMS NOTED (50) NONE (54) APPEARS TO BE STRUCTURALI	LLY INADEQUATE (55) APP	Y FOUND (52) EROSION WITH BACK	CUTTING (53) CRACK - WITH DISPLACEMENT
(54) APPEARS TO BE STRUCTURAL	LLY INADEQUATE (55) APP / UNDERMINED (59) OTHEI	Y FOUND (52) EROSION WITH BACK	CUTTING (53) CRACK - WITH DISPLACEMENT
(54) APPEARS TO BE STRUCTURAL	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEI	Y FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT	CUTTING (53) CRACK - WITH DISPLACEMENT
(54) APPEARS TO BE STRUCTURALI (58) CONCRETE DETERIORATED / The spillway is considered ac ACTIONS The brush and trees growing	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEI	Y FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R	CUTTING (53) CRACK - WITH DISPLACEMENT
(54) APPEARS TO BE STRUCTURALI (58) CONCRETE DETERIORATED / The spillway is considered ac ACTIONS The brush and trees growing	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEI cceptably sized. in the channel need to be	Y FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED
(54) APPEARS TO BE STRUCTURALI (58) CONCRETE DETERIORATED / The spillway is considered ac ACTIONS The brush and trees growing	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEI cceptably sized. in the channel need to be IONS OBSERVED: Good	AY FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R Peremoved (Photo 47). Note: The second	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED
(54) APPEARS TO BE STRUCTURALI (58) CONCRETE DETERIORATED / The spillway is considered ac ACTIONS The brush and trees growing CONDITIONE EXISTING INSTRUMENTATION FOUND	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEI cceptably sized. in the channel need to be IONS OBSERVED: Good	AY FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R Peremoved (Photo 47). MONITORING	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED
(54) APPEARS TO BE STRUCTURALI     (58) CONCRETE DETERIORATED /     The spillway is considered ac     ACTIONS     The brush and trees growing     CONDITIONE     CONDI	LLY INADEQUATE (55) APP / UNDERMINED (59) OTHEN CCEPTABLY SIZED. in the channel need to be IONS OBSERVED: GOOD (110) NONE (111) GA	AY FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R e removed (Photo 47). MONITORING AGE ROD (112) PIEZOMETERS (1)	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED
(54) APPEARS TO BE STRUCTURAL  (58) CONCRETE DETERIORATED /  The spillway is considered ac  ACTIONS The brush and trees growing CONDITI  EXISTING INSTRUMENTATION FOUND (114) SURVEY MONUMENTS (114) MONITORING OF INSTRUMENTATION	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEN CCEPTABLY SIZED. in the channel need to be IONS OBSERVED: Good (110) NONE (111) GA 15) OTHER (116) NO (117) YES	AY FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R Premoved (Photo 47). M Acceptable MONITORING AGE ROD (112) PIEZOMETERS (118) ON	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED
(54) APPEARS TO BE STRUCTURALI  (58) CONCRETE DETERIORATED /  The spillway is considered ac  ACTIONS The brush and trees growing  CONDITI  (114) SURVEY MONUMENTS (114)  MONITORING OF INSTRUMENTATION -MONTHLY readings should be ta staff gage reading should be reading	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEN CCEPTABLY SIZED. in the channel need to be IONS OBSERVED: GOOD (110) NONE (111) GA 15) OTHER (116) NO (117) YES CAREN ON the 6 piezometers recorded as well. This data	Y FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R e removed (Photo 47). d X Acceptable MONITORING AGE ROD V (112) PIEZOMETERS (118) OV S located on the dam beginning m a should be provided to this offic	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED Poor (113) SEEPAGE WEIRS / FLUMES WNER (119) ENGINEER tow. At the same time, the water surface elevation e on a monthly basis and a spreadsheet data sheet
	LY INADEQUATE (55) APP / UNDERMINED (59) OTHEN CCEPTABLY SIZED. in the channel need to be IONS OBSERVED: GOOD (110) NONE (111) GA 15) OTHER (116) NO (117) YES CAREN ON the 6 piezometers recorded as well. This data	Y FOUND (52) EROSION WITH BACK PEARS TOO SMALL (56) INADEQUAT R e removed (Photo 47). d X Acceptable MONITORING AGE ROD ♥(112) PIEZOMETERS (118) OU S located on the dam beginning m a should be provided to this offic or #2 dam and its owners/represent	CUTTING (53) CRACK - WITH DISPLACEMENT TE FREEBOARD (57) FLOW OBSTRUCTED Poor (113) SEEPAGE WEIRS / FLUMES WNER (119) ENGINEER tow. At the same time, the water surface elevation e on a monthly basis and a spreadsheet data sheet

MAINTENANCE AND REPAIRS							
PROBLEMS NOTED (60 NONE (61) ACCESS ROAD NEEDS MAINTENANCE (62) LIVESTOCK DAMAGE							
(63) BRUSH ON UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE, TOE (64) TREES ON UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE, TOE							
665) RODENT ACTIVITY ON UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE, TOE (66) DETERIORATED CONCRETE - FACING, OUTLET SPILLWAY							
✓ (67) GATE AND OPERATING MECHANISM NEED MAINTENANCE (68) OTHER							
-Remove sapling trees from upstream slope							
-Remove willows and trees from spillway channel.							
-Ensure no gullies form on upstream side of dam crest into the large gap graded riprap.							
-Photo 34 shows the location of a mainline pipe leak about 75-ft downstream of the mainline blowoff valves. While not a dam safety concern, it is pointed out for reference.							
CONDITIONS OBSERVED: Good Acceptable Poor							
Go to next page for Overall Conditions and Items Requiring Actions							
OVERALL CONDITIONS							
Overall, Victor 2 is considered to be conditionally satisfactory. The efforts to date by the owner to address the failing outlet tower are							
appreciated by this office. Continued coordination during the upcoming design effort to install upstream gates with mechanical stems and eliminating the tower is appreciated by this office.							
The EAP should be updated to reflect the current personnel.							
Based on this Safety Inspection and recent file review, the overall condition is determined to be:							
ITEMS REQUIRING ACTION BY OWNER TO IMPROVE THE SAFETY OF THE DAM							
MAINTENANCE - ORDINARY REPAIR - MONITORING							
8/25/2020 - REFERENCE MONITORING & MAINTENANCE SECTIONS OF REPORT							
ENGINEERING - EMPLOY AN ENGINEER EXPERIENCED IN DESIGN AND CONSTRUCTION OF DAMS TO							
PREPARE PLANS AND SPECIFICATIONS FOR REHABILITATION OF THE DAM							
8/25/2020 - Installation of upstream gates on low level pipes							
EMERGENCY ACTION PLAN							
UPDATE EXISTING EMERGENCY ACTION PLAN							
8/25/2020 - Update for current personnel							
DEVELOP NEW OR UPDATED INUNDATION MAP							
8/25/2020 - Review & update							
The State Engineer, by providing this dam safety inspection report, does not assume responsibility for any unsafe condition of the subject dam. The sole responsibility for the safety of this dam rests with the reservoir owner or operator, who should take every step necessary to prevent damages caused by							
leakage or overflow of waters from the reservoir or floods resulting from a failure of the dam.							
SAFE STORAGE LEVEL: RECOMMENDED AS A RESULT OF THIS INSPECTION							
(101) FULL STORAGE							
(102) CONDITIONAL FULL STORAGE							
REASON FOR RESTRICTION							
ACTIONS REQUIRED FOR CONDITIONAL FULL STORAGE OF CONTINUED STODAGE AT THE DESTRICTED LEVEL.							
Engineer's Owner's Signature							
Signature OWNER/OWNER'S REPRESENTATIVE DATE:							

# **GUIDELINES FOR DETERMINING CONDITIONS**

# CONDITIONS OBSERVED - APPLIES TO UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE, OUTLET, SPILLWAY

# GOOD

GOOD

safety of the dam.

In general, this part of the structure has a near new appearance, and conditions observed in this area do not appear to threaten the safety of the dam.

No evidence of uncontrolled seepage. No unexplained increase in flows from designed drains. All seepage is

clear. Seepage conditions do not appear to threaten the

#### ACCEPTABLE

Although general cross-section is maintained, surfaces may be irregular, eroded, rutted, spalled, or otherwise not in new condition. Conditions in this area do not currently appear to threaten the safety of the dam.

# CONDITIONS OBSERVED - APPLIES TO SEEPAGE

### ACCEPTABLE

Some seepage exists at areas other than the drain outfalls, or other designed drains. No unexplained increase in seepage. All seepage is clear. Seepage conditions observed do not currently appear to threaten the safety of the dam. POOR

POOR

safety of the dam.

Seepage conditions observed appear to threaten the safety of the dam. Examples: 1) Designed drain or seepage flows have increased withou increase in reservoir level.

2) Drain or seepage flows contain sediment, i.e., muddy

Conditions observed in this area appear to threaten the

water or particles in jar samples. 3) Widespread seepage, concentrated seepage, or

ponding appears to threaten the safety of the dam.

#### GOOD

Monitoring includes movement surveys and leakage measurements for all dams, and piezometer readings for High hazard dams. Instrumentation is in reliable, working condition. A plan for monitoring the instrumentation and analyzing results by the owner's engineer is in effect. Periodic inspections by owner's engineer.

#### ACCEPTABLE

Monitoring includes movement surveys and leakage measurements for High and Significant hazard dams; leakage measurements for Low hazard dams. Instrumentation is in serviceable condition. A plan for monitoring instrumentation is in effect by owner. Periodic inspections by owner or representative. OR, NO MONITORING REQUIRED.

CONDITIONS OBSERVED - APPLIES TO MONITORING

# POOR

POOR

UNSATISFACTORY

RESTRICTION

safety

fine

All instrumentation and monitoring described under "ACCEPTABLE" here for each class of dam, are not provided, or required periodic readings are not being made or unexplained changes in readings are not reacted to by the owner.

Dam does not appear to receive adequate maintenance.

The safety inspection indicates definite signs of structural

severe deterioration, etc.), which could lead to the failure o

the dam if the reservoir is used to full capacity. The dam is

distress (excessive seepage, cracks, slides, sinkholes,

One or more items needing maintenance or repair has

# CONDITIONS OBSERVED - APPLIES TO MAINTENANCE AND REPAIR

#### GOOD

SATISFACTORY

FULL STORAGE

attached

Dam appears to receive effective on-going maintenance and repair, and only a few minor items may need to be addressed.

The safety inspection indicates no conditions that appear to

threaten the safety of the dam, and the dam is expected to

perform satisfactorily under all design loading conditions.

Most of the required monitoring is being performed.

Dam may be used to full capacity with no conditions

# ACCEPTABLE

Dam appears to receive maintenance, but some maintenance items need to be addressed. No major repairs are requirecl

# **OVERALL CONDITIONS**

# CONDITIONALLY SATISFACTORY

The safety inspection indicates symptoms of structural distress (seepage, evidence of minor displacements, etc.), which, if conditions worsen, could lead to the failure of the dam. Essential monitoring, inspection, and maintenance must be performed as a requirement for continued full storage in the reservoir.

# SAFE STORAGE LEVEL

# CONDITIONAL FULL STORAGE

Dam may be used to full storage if certain monitoring, maintenance, or operational conditions are met.

# HAZARD CLASSIFICATION OF DAMS

#### High hazard

Loss of human life is expected in the event of failure of the dam, while the reservoir is at the high water line.

#### Significant hazard

Significant damage to improved property is expected in the event of failure of the dam while the reservoir is at the high water line, but no loss of human life is expected.

Low hazard Loss of human life is not expected, and damage to improved property is expected to be small, in the event of failure of the dam while the reservoir is at high water

Dam may not be used to full capacity, but must be

operated at some reduced level in the interest of public

NPH hazard - No loss of life or damage to improved property, or loss of downstream resource is expected in the event of failure c the dam while the reservoir is at the high water line.

# or unexplained changes in readings are not r the owner.

begun to threaten the safety of the dam.

judged unsafe for full storage of water.

# Victor #2 Dam DAMID 120218 2020 SEO Inspection Photos JEH, 26 AUG 2020



01\_Collecting elevations pertinent to project



02\_Upstream slope right of tower



03\_Upstream slope left of tower

04\_Valve operators





05\_View into valve tower

06\_Crest, tower bridge



07\_Dam crest, left of tower

08\_Dam crest, right of tower



09\_Collecting piezometer elevations

10\_Dam crest facing right



11\_Upstream slope, facing left towards outlet



12\_Upstream slope near right abutment



13\_Dam crest, facing right abutment



14\_Facing left across upper downstream slope



15\_Facing across lower slope

16\_Facing left across mid level bench



17\_Right downstream groin

18\_Facing left from P-5



19\_Facing right groin



20\_Collecting piezometer elevations



21\_Facing left groin

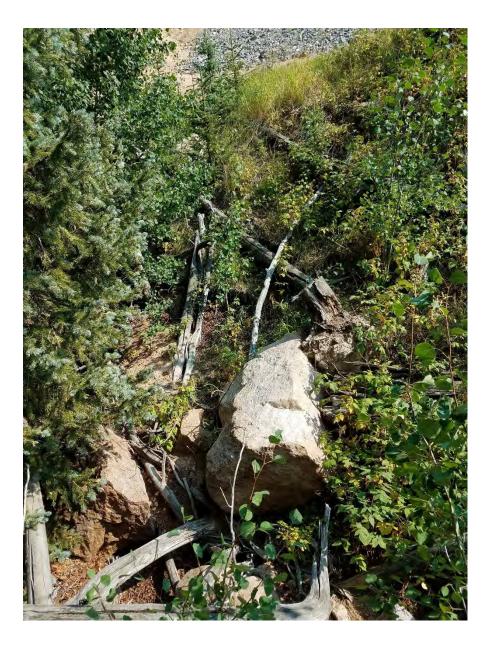
22\_Piezometer near toe





24\_Mudline channel

23\_Mudline discharge





26\_Mudline OD

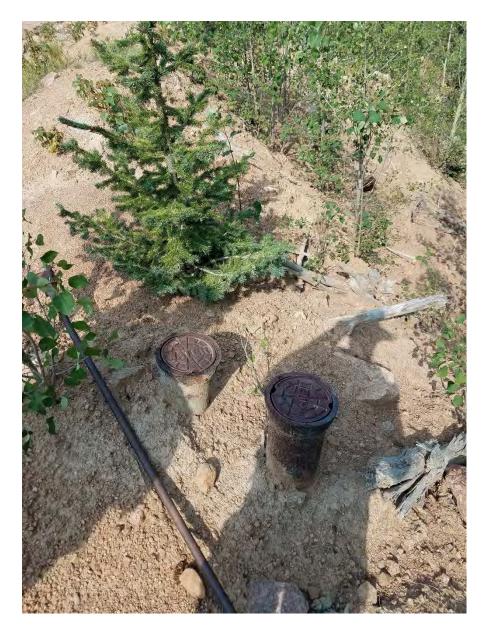
25\_Mudline channel dry



27\_Mudline ID



28\_Mudline ID



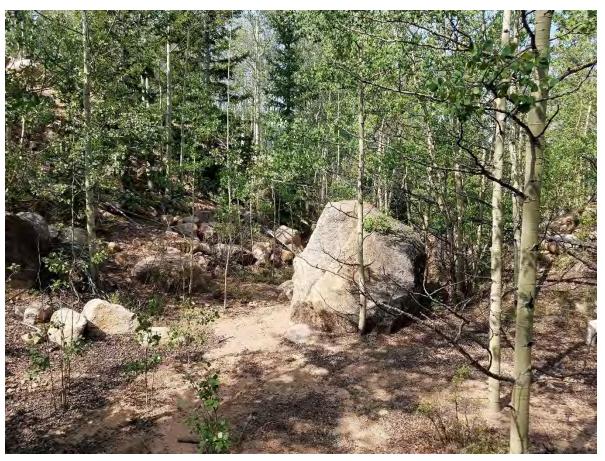


29\_Mainline valves

30\_Mainline blowoff



31\_Channel downstream of dam, dry



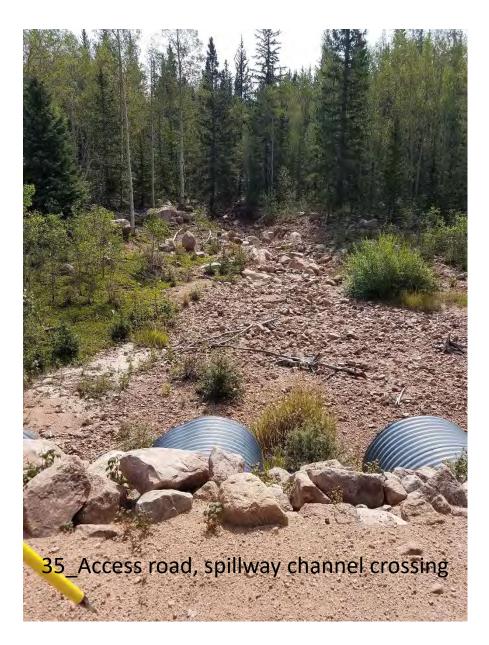
32\_Downstream channel, dry



33\_Location of mainline pipe leak



34\_Location of mainline pipe leak





36\_Facing right across downstream slope



37\_Valve tower

38\_Valve tower



39\_Magnitude of movement



40\_Magnitude of movement



41\_Drainage basin



42\_Thrust block tower support



43\_Upstream slope, left of tower

44\_Upstream slope, right of tower



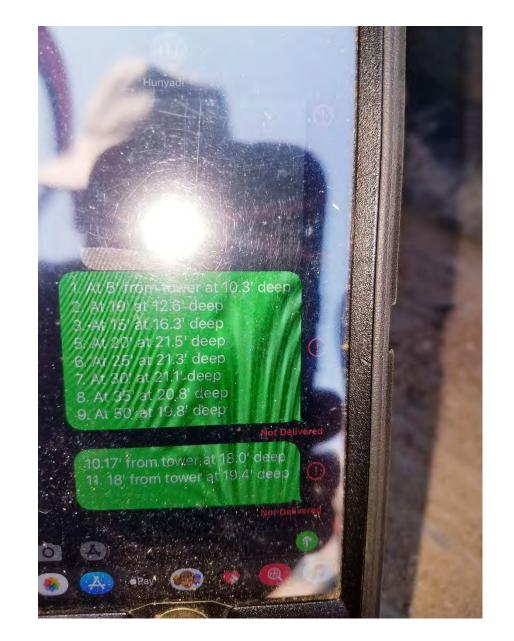


45\_Temp tower support

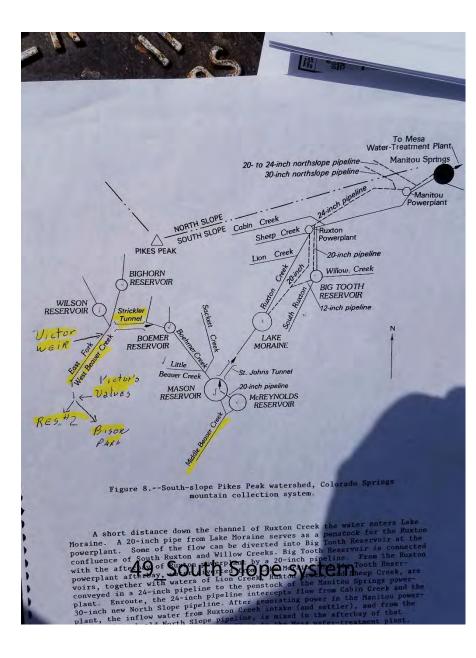
46\_Looking down spillway



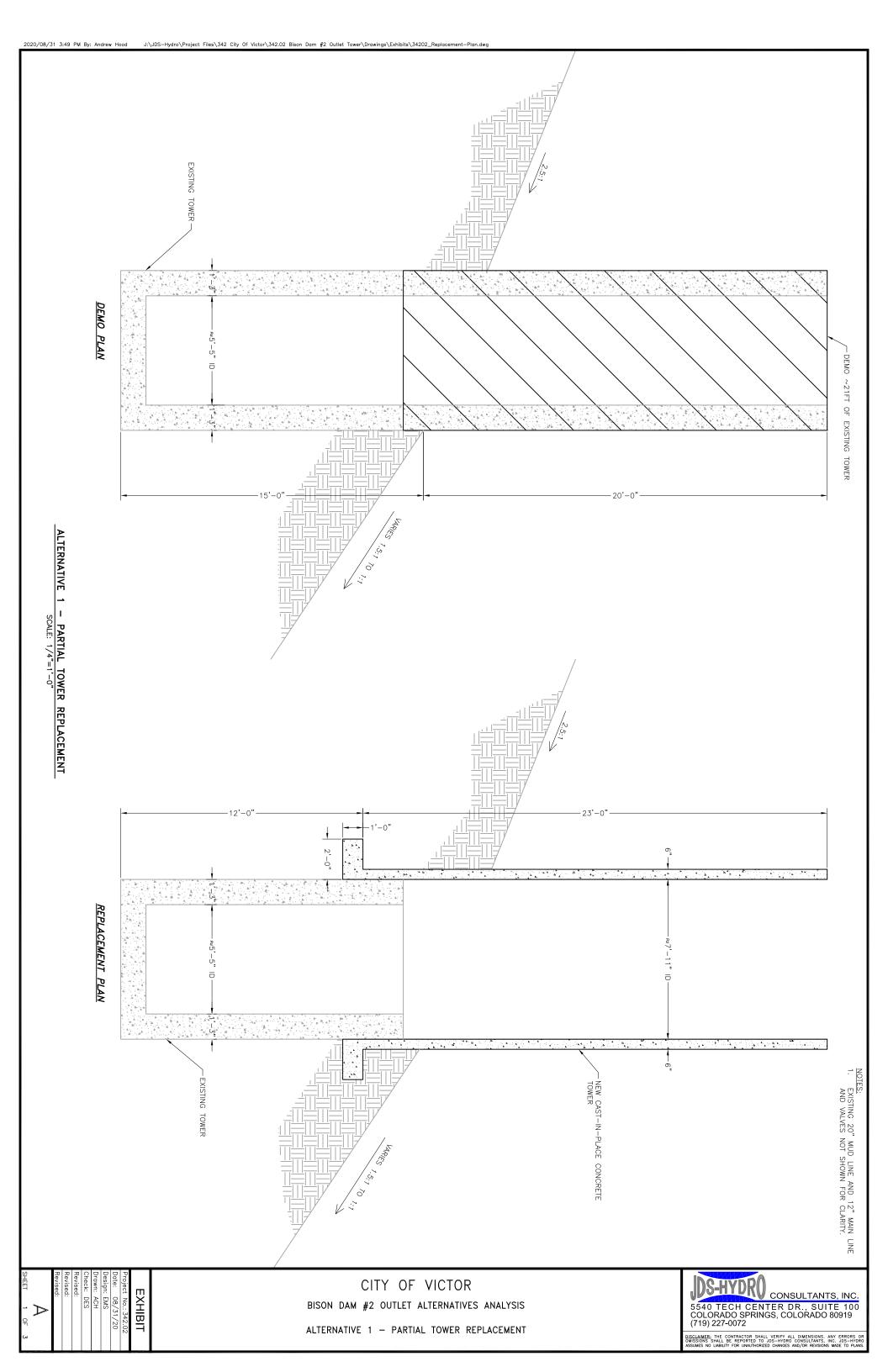
47\_Left side spillway control section

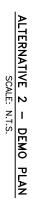


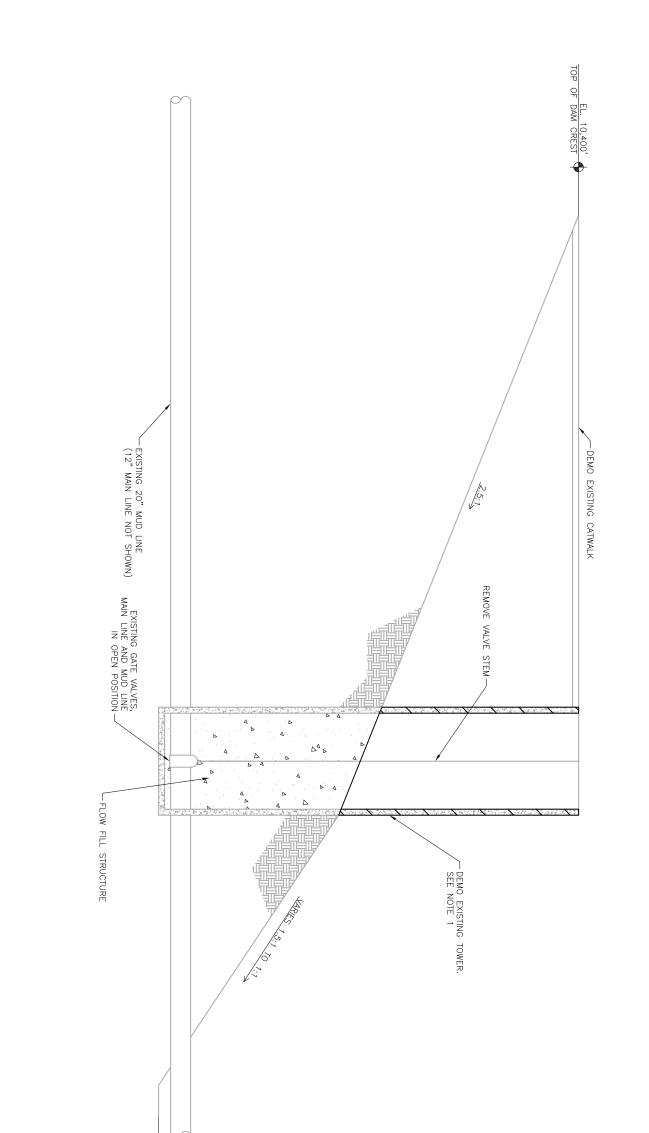
48\_Sounding measurements, upstream of tower



Appendix C



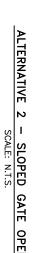


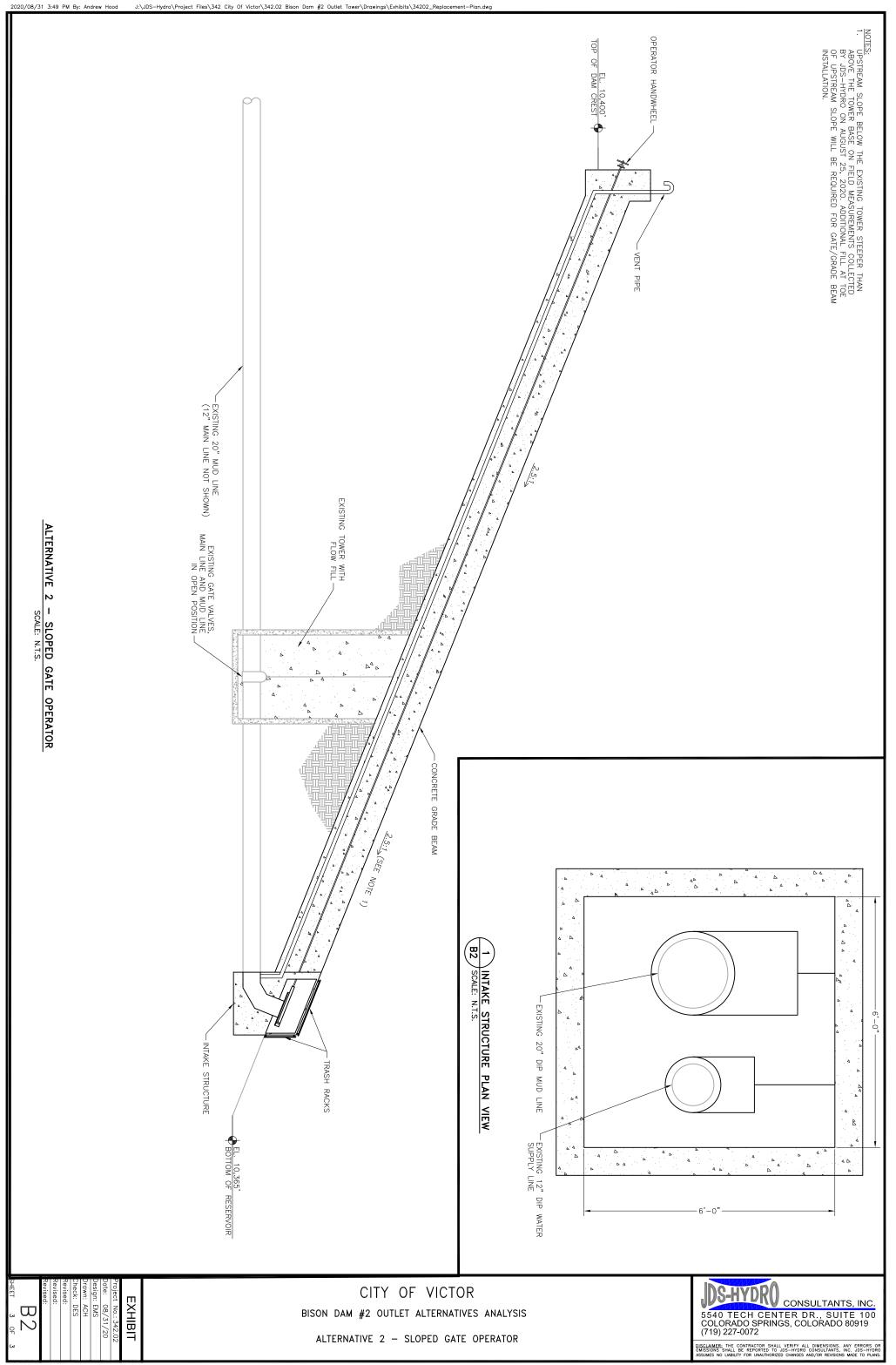


		. n €
EXHIBIT Project No.: 342.02 Date:: 08/31/20 Drawn: ACH Check: DES Revised: Revised: Revised: Revised: 2 OF 3	CITY OF VICTOR bison dam #2 outlet alternatives analysis alternative 2 – sloped gate operator	DISCHARGE THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OF OMISSIONS SHALL DE REPORTED TO JOS-HYDRO CONSULTANTS, INC. JOS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

BOTTOM OF RESERVOIR

NOTES: 1. CONTRACTOR TO DEMO EXISTING TOWER EITHER TO BELOW UPSTREAM DAM EMBANKMENT TO FACILITATE SLOPED GATE OPERATOR INSTALLATION OR CORE THROUGH EXISTING TOWER AND REMOVE EXISTING TOWER TO BELOW NORMAL WATER SURFACE ELEVATION.





Appendix D

# Preliminary Construction Cost Estimate Option 1 - Partial Tower Replacement - Fall Construction Town of Victor Victor #2 Dam - ID# 120218

Item	Unit	Quan.	Unit Cost	Item Total
Mobilization / General Conditions	LS	1	\$41,845.00	\$41,845
Temp . Reservoir Control / Dewatering	LS	1	\$75,000.00	\$75,000
Demolition / Foundation Stabilization	LS	1	\$40,000.00	\$40,000
Surveying	LS	1	\$6,500.00	\$6,500
Earthwork	CY	75	\$43.00	\$3,225
Concrete Tower	CY	20	\$2,250.00	\$45,000
Catwalk Pier & Attachment	LS	1	\$10,000.00	\$10,000
Mud Line Downstream Valve	EA	1	\$25,000.00	\$25,000
Material Testing	LS	1	\$4,500.00	\$4,500
Video Main Line	LS	1	\$2,500.00	\$2,500
Bubbler System	LS	1	\$5,000.00	\$5,000
Adverse Weather Additional Fee	LS	1	\$40,000.00	\$40,000
	\$298,570			
	\$44,786			
	\$344,000			

Since the Engineer has no control over the cost of labor, materials or equipment, or over the Contractor's method of determining prices, or over competitive bidding or market conditions, his opinions of probable construction cost provided for herein are made on the basis of his experience and qualifications. These opinions represent his best judgement as a design professional familiar with the construction industry. However, the Engineer cannot and does not guarantee that proposals, bids, or the construction cost will not vary from opinions of probable cost prepared by him.

Base Bid Filing Fee: \$6.00 per \$1,000 of cost estimate

\$344.00 x6

\$2,064.00

## Preliminary Construction Cost Estimate Option 2 - Sloped Gate Operator - Fall Construction Town of Victor Victor #2 Dam - ID# 120218

Item	Unit	Quan.	Unit Cost	Item Total
Mobilization / General Conditions	LS	1	\$53,386.36	\$53,386
Temp . Reservoir Control / Dewatering	LS	1	\$25,000.00	\$25,000
Demolition / Foundation Stabilization	LS	1	\$40,000.00	\$40,000
Surveying	LS	1	\$6,500.00	\$6,500
Earthwork - Fill	CY	37	\$35.00	\$1,296
Flow Fill - Ex. Tower	CY	47	\$250.00	\$11,636
12" Low Level Gate and Apputenances	EA	1	\$35,000.00	\$35,000
20" Low Level Gate and Apputenances	EA	1	\$35,000.00	\$35,000
Concrete Stem Encasement & Pedestal	CY	50	\$1,700.00	\$85,000
Concrete Intake Structure	CY	10	\$2,000.00	\$20,000
Material Testing	LS	1	\$7,500.00	\$7,500
Video Main Line	LS	1	\$2,500.00	\$2,500
Bubbler System	LS	1	\$5,000.00	\$5,000
Adverse Weather Additional Fee	LS	1	\$40,000.00	\$40,000
	Construct	tion Sub-Total		\$320,318
	Construction Conti	ngency @ 15%		\$48,048
	CONSTRUC	<b>FION TOTAL</b>		\$369,000

Since the Engineer has no control over the cost of labor, materials or equipment, or over the Contractor's method of determining prices, or over competitive bidding or market conditions, his opinions of probable construction cost provided for herein are made on the basis of his experience and qualifications. These opinions represent his best judgement as a design professional familiar with the construction industry. However, the Engineer cannot and does not guarantee that proposals, bids, or the construction cost will not vary from opinions of probable cost prepared by him.

Base Bid Filing Fee: \$6.00 per \$1,000 of cost estimate

\$369.00 x6 **\$2,214.00** 

Appendix E

# City of Victor Victor Reservoir No. 2 - Outlet Improvements Proposed Design and Construction Schedule

		2020																																		
		Oct	tober	N	ovember		D	ecember																												
Task	Week Ending	10th 17th	24th 31st	7th 1	4th 21st	28th	5th 12th	n 19th 26th	a 31st																											
	<u>Activites / Milestones</u>																																			
1	Design (Calculations / Reports)																																			
2	Prepare Const. Drawings / Technical Specs																																			
3	CWCB Application	L																																		
														2021																						
		Jan	uary	F	ebruary		М	arch		Aj	pril		May	Y		Ju	ne		J	uly			August	Sept	tember			Octo	ober		Nove	ember		De	cember	
Task	Week Ending	9th 16th	23rd 30th	6th 1	3th 20th 2	27th	6th 13tl	n 20th 27th	a 3rd 1	0th 1	7th 24th 30	th 8th	15th 22	2nd 29th	5th	12th	19th 26th	h 3rd	10th 1	17th 24	4th 31st	7th	14th 21st 28th	5th 12th	h 19th 26t	th 3rd	1 10th	17th	24th 31s	st 7th	n 14th	21st 28	3th 5th	12th	19th 26th 3	lst
	Activites / Milestones																																			
1	Design (Final Estimate)																																			
2	Prepare Const. Drawings / Technical Specs	5																																		
3	DSB Review	r																																		
4	Address Comments / Final Submittal																																			
5	Final Approval by DSB																																			
6	Bidding	5																																		
7	Construction	L																																		
8	Filling of Reservoir following Construction																																			
9	CWCB (Submittal/ review/approval/contract)																																			





Appendix F

STATE OF COLORADO. SS: COUNTY OF FREMONT.

IN THE DISTRICT COURT OF THE ELEVENTH JUDICIAL DISTRICT OF THE STATE OF COLORADO, SITTING WITHIN AND FOR THE COUNTY OF FREMONT

CIVIL ACTION NO. 6913

IN THE MATTER OF THE ADJUDICATION OF PRIORITIES OF RIGHTS TO THE USE OF WATER IN WATER DISTRICT NO. 12 OF THE STATE OF COLORADO.

FINDINGS OF FACT AND DECREE

Now, on this 13th day of March, A. D. 1954, at the hour of ten o'clock in the forenoon, this matter came on for hearing in open court, pursuant to the order of this Court made and entered herein on the 25th day of February, A. D. 1954, making findings of fact herein and fixing this time for the hearing and consideration of such objections and exceptions, if any, as might be

filed to such findings of fact, notice of which hearing was duly given to each of the claimants herein, except such of them as had theretofore withdrawn their claims, and it appearing to the Court that certain objections have been filed herein, and the Court having considered such objections and ordered that the said Findings of Fact be amended to conform to the ruling of the Court on said objections, and the Court being now fully advised in the premises, DOTH FIND, ORDER, ADJUDGE AND DECREE As follows:

That the amended petition of The Colorado Fuel and Iron Corp oration, filed herein on the 9th day of August, A. D. 1952, 18 in all respects regular and fully complies with the requirements of the laws of the State of Colorado for the initiation, adjudication and determination of a supplemental general adjudication of priorities of rights to the the vator for all beneficial purposes, both for irrigation purposes and for purposes other

ities the states

# than irrigation in said Water District No. 12.

That all interested parties, and all parties in any manner affected by this proceeding, have been duly served with notice and process herein and brought into this Court in the manner directed by the order of this Court made and entered herein on the 9th day of August, A. D. 1952, in all respects in compliance with the statutes of the State of Colorado in that behalf made and provided, and that this Court has jurisdiction to a judicate and determine the rights and priorities or rights to the use of water for all beneficial purposes in said Water District No. 12 with respect to the claims set forth in the respective statements of claim filed herein by the claimants in this proceeding.

That the United States of America filed herein its statements of claim in behalf of its Bureau of Land Management, Department of the Interior, and its Forest Service, Department of Agraculture, and introduced evidence in support thereof, but subsequently filed its withdrawal of all such claims, and, in accepting said withdrawal, this Court does not, by implication or otherwise; recognize any claim which the United States of America might hereafter assert to any priority of right to the use of water from any source of supply in Water District No. 12 of the State of Colorado senior or paramount to any of the water rights adjudicated in this supplemental general adjudication, or in any previous general adjudication by this Court of priorities of rights to the use of water in said Water District No. 12.

That the names of the owners and claimants of the ditches, reservoirs and other structures for the diversion and/or storage of water, and of rights to the use of water, for any and all beneficial purposes whatsoever, both for irrigation purposes and for purposes other than irrigation, who or which have filed statements of claim in this proceeding (except such of them as have withdrawn their statements of claim,) and as to which evidence in support thereof has been introduced herein, and the amount of water and the dates of priorities to which they are respectively entitled and for which priority decrees are hereby awarded to them, are as hereinafter set forth, to-wit:

#### ALLSTRUM DITCH

That the owner and claimant is Eugene C. Rowe, whose post office address is Guffey, Colorado.

That the said Allstrum Ditch derives its supply of water from Thirty-one Mile Creek, a tributary of Currant Creek, a tributary of the Arkansas River.

That the headgate of the Allstrum Ditch is located at a point on the <u>right bank</u> of Thirty-one Mile Creek whence the North Quarter Corner of Section 15, Township 15 South, Range 73 West of the 6th Principal Meridian, Park County, Colorade, bears North 61 degrees 45 minutes West 3108 feet.

That said Allstrum Ditch derives its supply of water from Thirty-one Mile Creek, a tributary to Currant Creek, a tributary to the Arkansas River, as aforesaid, and situate in Park County, Colorado, and in said Water District No. 12, Irrigation Division No. 2, State of Colorado. That the depth of said ditch at high-water line is \$ foot; that the width of said ditch at high-water line is 2.8 feet; that the bottom width of said ditch is 2 feet; that the grade of said ditch is 15 feet per 1000 feet; that the length of said ditch is 1282 feet. The present and proposed capacity of said ditch is 1 cubic foot per second of time. That the water so diverted through said ditch is used for right to the use of water for irrigation purposes heretofore adjudicated by this Court in said Water District No. 12 as of any date prior to April 2, 1930.

# BEAVER PARK COMPANY

That the claimant, Beaver Park Company, a Colorado corporation, is the owner of certain ditches, water and water rights hereinafter more particularly described, said waters being diverted from Beaver Creek, a tributary to the Arkansas River in Water District No. 12, Irrigation Division No. 2, Fremont County, Colorado. That said ditches were duly ad judicated in that decree of February 3, 1894 and certain supplemental decrees of this Court entered thereafter. That the points of diversion of all of said ditches except the Fremont Water Supply Canal and the priorities decreed thereto were duly changed by decree of this Court in Cause No. 2991 pn May 8, 1908 to the present Diversion Dam of the Beaver Park Company which is located across Beaver Creek in the Northeast quarter, Northeast quarter, Section 16, Township 18. South, Range 68 West of the 6th P.M.

That in said decree of May 8, 1908 certain of said water rights were specified on the basis of continuous flow and certain other water rights were set forth on a time and time basis for the irrigation of specified acreages as contained in the original decree of February 3, 1894. That the claimant, by its statement of claim herein, seeks to confirm those rights as originally adjudicated and have all rights so adjudicated reduced to a continuous flow basis. That said water and water rights together with their ditch name, district priority number, Beaver Creek priority number, Arkansas River priority number, date of original appropriation and continupus flow computed in cubic feet per second of time, are as follows. to-wit:

1.40     Stepher Fattine     3     5     April 120 dEst       2.157	CH 2991					
140       Stephen Failth C       3       5       April 20 dick         2,137       Jine and Appendix C       3       5       April 20 dick         2,137       Jine and Appendix C       3       5       April 20 dick         2,137       Jine and Appendix C       12       April 20 dick       April 20 dick         333       Jine and Appendix C       DITCH       DIST. 12       DERVER CREEK APARASAS RIV. PRIORIETT CONT. FLOW         127       Glandale       5       12       4       M/15/61       .200         127       Reggin       6       12       2       M/16/65       .72       .72         200       8       15       67       5/20/65       .028       .024       .026/51       .028         3700       8       16       12       .12       .12       .12       .12       .12       .028       .01       .028       .01       .028       .01       .028       .01       .028       .01       .028       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .02       .0			1 			
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J. 137       Johnson       Image: State of the		Stephon FRAzier C	3	5	A 170 18000	
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THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that the 14 3		THEREFORE, IT IS OR	DERED, ADJUDO	ED AND DECRE		
ditches, water and water rights hereinbefore set forth, as						

adjudicated in that decree of February 31d, 1891 and certain supplemental decrees of this Court entered thereafter be and 1 3:30

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and same are hereby confirmed.

AND IT IS FURTHER ORDERED, ADJUDGED AND DECREED that said water and water rights together with their ditch name, district priority number, Beaver Creek priority number, Arkansas River Priority number, date of original appropriation and continuous flow computed in cubic feet per second of time, and as hereinbefore set forth be and the same are hereby confirmed. Each priority in this proceeding has been given a number, the earliest priority being numbered "1", and each priority thereafter being given a succeeding number. Each number is preceded by the prefix "A" to distinguish it from numbers assigned to priorities in earlier adjudications in this Court.

The latest priority date awarded to any water right in any general adjudication or supplemental general adjudication for irrigation purposes heretofore decreed by this Court in said Water District No. 12 of the State of Colorado was April 1, 1930, awarded in Case No. 6190 on the general docket of this Court, and anything herein contained to the contrary notwithstanding, no priority date herein or hereby awarded for irrigation purposes shall be honored by the water administrating or distributing officers except junior and inferior to priorities of right to the use of water for irrigation purposes of said last mentioned date or senior thereto.

The latest priority date awarded to any water right in any general adjudication or supplemental general adjudication for non-irrigation purposes horetofore decreed by this Court in said Water District No. 12 of the State of Colorado was September 18th, 1911, awarded in Case No. 2637 on the general docket of this Court, and anything herein contained to the contrary notwithstanding, no priority date herein or hereby awarded for non-irrigation purposes shall be honored by the water administrating or distributing officers except junior and inferior to priorities of right to the use of water for non-irrigation purposes of said last mentioned date or senior thereto.

- 31.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that the priorities of right to the use of water hereinbefore awarded and decreed shall be administered and distributed in the following order of pelority:

Name of Ditch or Heservoir	Priority Date	Relative Order of Priority	Ft. per Sec.
Allstrum Ditch	July 1, 1889	A-1#	or Acre Fset l cubic foot per second of time
Victor Pipe Line	May 1, 1885	A-2#	
Spring Ditch	1896	₽=2# &-3#	4.8 cubic ft. per second of time 1 cubic foot per second of time
Victor Reservoir	August 14, 1897	A-4#	202.77 acre feet (storage)
Marigold Ditch	1898		1.10 cubic feet per sec.
Bison Park Reservoir	June 7, 1901	A-6#	50,000,000
	1)4	7.84	cubic feet (Storage)
Craig Ditch	September, 1912	A-7#	5 cubic feet
State Ditch No. 1	Juns 1, 1930	A—8#	time 2 cubic fast per sec. of time
Penrose-Rosemont Reser Minnequa Canal			1229.01 acre feet (Storage)
	February 24,1933	A-10#	150 cubic feet
Gould Creek Diversion Project	July 1, 1950	A_11#	10 cubic feet
Erickson Ditch No. 1	May 26, 1952	A-12#	time 2 cubic feet per sec. of
Erickson Ditch No. 2	May 26, 1952	A-13#	time 2 cubic feet per sec. of
			time

#subject and inferior, however, to all priorities of right to the use of water for irrigation purposes heretofore adjudicated by this Court in said Water District No. 12 as of any date prior to April 2, 1930, and subject and inferior, to all priorities of right to the use of water for purposes other than irrigation heretofore adjudicated by this Court in said Water District No. 12 as of any date prior to September 19, 1911.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that all appropriations hereinbefore set forth, for which priorities of right are awarded and decreed, are for direct and immediate use unless specified with respect to a particular appropriation that the same is to be for storage, and unless otherwise specified, all storage decrees herein are for one annual filling of the reservoir to which they relate.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED, in respect to each of the ditches, canals, pipe lines and reservoirs, in the decrees pertaining thereto hereinbefore separately and particularly set forth, and as the same are decreed and given priority dates, numbers and amounts of water, that this decree shall be taken, deemed and held as confirming, determining and establishing the several priorities of right by appropriate tion, to the use of water for all beneficial purposes whatsoever, whether for irrigation or for purposes other than irrigation, of all of said ditches, canals, pipe lines and reservoirs in said Water District No. 12 of the State of Colorado, for which claim has been made and concerning which testimony has been offered in this proceeding, according to the construction, enlargement or extension thereof, together with the priority numbers and priority dates given therefor, and the number of cubic feet of water per second of time to which each ditch, canal and pipe line is entitled, and the storage capacity of each reservoir, and the number of cubic feet of water to which aach reservoir is entitled, and the priority number and date to which each such reservoir is entitled as hereinbefore in

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the separate decrees pertaining thereto particularly stated and set forth.

AND IT IS FURTHER ORDERED BY THE COURT that each and every owner or claimant of any such ditch, canal, pipe line, reservoir or other structure, or of any interest therein, shall receive from the Clerk of this Court, upon payment of fifty cents for each certificate, and the further sum of twenty cents per folio for the matter therein contained, a certificate, under the seal of this Court, showing the date or dates and the amount or amounts of appropriation adjudged in favor of such ditch, canal, pipe line or reservoir, under and by virtue of the construction, extension and enlargement thereof, and specifying the number of said ditch, canal, pipe line or reservoir and of each priority to which the same may be entitled by reason of such construction, extension and enlargement.

IT IS FURTHER ORDERED that all the evidence taken in this proceeding shall be reduced to writing by the official reporter of this Court, and shall be certified by him to be a true and correct transcript of all the evidence introduced in this proceeding and that the same shall be filed with the Clerk of this Court and become and be a part of the permanent records of this Court in the above entitled proceeding.

IT IS FURTHER ORDERED that the Clerk of this Court shall, within ten days after the entry of this decree, forward by registered mail one certified copy hereof to the State Engineer of the State of Colorado, and one certified copy hereof to the Division Engineer having jurisdiction over said Water District No. 12.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that the costs of this proceeding shall be apportioned among, and borne by, the several parties hereto as follows:

#### Name of Party

The Colorado Fuel and Iron Corporation City of Victor Broadmoor Water and Power Company Beaver Park Company State of Colorado, by its Board of Land Commissioners Clyde T. Chess, Irene G. Chess, Helen M. Shoemaker & Robert N. Shoemaker Eugene C. Rowe Alvin Black & Zella Black Robert S. Erickson

and that said aforementioned parties shall, within twenty days from this date, severally pay to the Clerk of this Court the respective amounts, if any, by which the sums hereinbefore set opposite their respective names exceed their advances heretofore made for costs in this proceeding, and that the Clerk of this Court shall thereupon refund to either or any of said parties the excess of their respective advances for costs above the amount of the costs hereinbefore apportioned to them respectively.

### BY THE COURT:

Jos D. Blunt JUDGE

Amount

600.00

250.00

500.00

250.00

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STATE OF COLORADO COUNTY OF FREMONT

I, Jonathan Seaman , Clerk of the District Court in and for the County of Fremont, in the Eleventh Judicial District of the State of Colorado, do hereby certify that the above and foregoing is a true and correct copy of that certain FINDINGS OF FACT AND DECREE made and entered in said District Court, in cause No. <u>(a 9 1.3</u>, entitled:

IN THE MATTER OF THE ADJUDICATION OF PRIORTIES OF RIGHTSTO THE USE OF WATER IN WATER DISTRICT NO. 12 OF THE STATE OF COLORADO

as the same remains of record and on file in my office.

Clerk of the District Court

March, A. D. 19 54

IN THE DISTRICT COURT IN AND FOR THE COUNTY OF FREMONT AND STATE OF COLORADO Civil Action No. 6913 FILED IN THE DISTRICT COURT FREMONT COUNTY, COLUMNOD Feb. 26, 1960

By Lelan Bright

DEPUTY

1012

IN THE MATTER OF THE ADJUDICATION OF PRIORITIES OF RIGHTS TO THE USE OF WATER IN WATER DISTRICT NO. 12 OF THE STATE OF COLORADO

ORDER

This matter coming on for consideration by the Court on the Stipulation of the Beaver Park Company, the Catlin Canal Company, and the Bessemer Irrigating Ditch Company, and following a hearing before the Court on December 18, 1959, and it appearing that the parties hereto have resolved their differences in accordance with the instructions of the Court;

Now, Therefore, it is ordered, adjudged, and decreed that the portion of the Decree of this Court entered in this action on March 13, 1954, purporting to affirm certain water rights of the Beaver Park Company on a "continuous flow basis," as contained at pages 29, 30, and 30(a) of said Decree, is hereby withdrawn, vacated and stricken from said Decree;

And it is further ordered that the Statement of Claim filed in this action by the Beaver Park Company, and also the Petition To Reopen Decree filed in this action by The Catlin Canal Company and the Bessemer Irrigating Ditch Company are

ordered withdrawn and that the Decree of March 13, 1954, as modi-DISTRICL COURT is hereby affirmed in all particulars except as so modified. Fremont County, Colorado Certified to be a true and

correct copy of the original document in my custody

nary 25 1978 Silette Curta Clerk of the District Court

BY THE COURT:

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IN AND FOR THE COUNTY OF FREMONT FILED IN THE DISTRICT COURT FREMONT COUNTY, COLORADO AND STATE OF COLORADO an 22, 196 Civil Action No. 9886 exalith

A Labor Court in THE DISTRICT COURT in the

DEPUTY

IN THE MATTER OF THE ADJUDICATION OF PRIORITIES OF RIGHT TO THE USE OF WATER IN WATER DISTRICT NO. 12 OF THE STATE OF COLORADO. Petition of the City of Victor, a Municipal Corporation.

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DECREE

Now on this 22nd day of January, A.D. 1969, the same being one of the regular juridical days of the November, 1968 term of Court, this cause came on further to be heard upon the Petition of the City of Victor, a Municipal Corporation, organized and existing under the laws of the State of Colorado, for a Decree permitting said City to change the point of diversion and character of use of the waters and the right to use of water hereinafter described, and pursuant to the Order of this Court entered on the 24th day of July, 1968, setting this Petition for hearing on the 24th day of September, A.D. 1968, at the hour of two o'clock P.M., and this matter having been duly continued to this date by Orders of this Court, and proof having been submitted by the Petitioner pursuant to the Order of July 24, 1968, as to service by mail and publication, as therein stated and as provided by the Statutes of the State of Colorado.

And it further appearing that Notice as provided by said Order complies with the Statutes in such cases made and provided, that such Notice was duly issued under the hand of the Clerk of this

Court and Seal thereof as provided by said Order; that said Notice was duly published in public newspapers in the Counties of Fremont and Teller in the State of Colorado, for four successive weeks, the last publication thereof being on a date prior to said September 24th, 1968; that printed copies of said Notice were duly mailed by the Clerk of this Court by regular mail to the owners and claimants of all ditches, reservoirs or other structures by which water has been diverted or stored since July 24, 1967, in Water District No. 12 of the State of Colorado; as such owners and claimants appear from a list furnished to said Clerk by the Water Commissioner of Water District No. 12 of the State of Colorado, and by Registered Mail to Southern Colorado Power Division of Central Telephone and Utilities Corporation, a corporation; and to Beaver Park Company, a corporation, the owners of all ditches, reservoirs or other structures located on Beaver Creek, between the decreed and the new point of diversion; that due Proofs of Publication have been filed herein in compliance with said Order and Certificates of the Clerk as to the mailing of such Notice have been filed in accordance with the Statutes in such cases made and provided.

And the Petitioner now appearing by William R. Stinemeyer, Esq., and no other persons or parties appearing in opposition to said Petition, or in any manner to the change in point of diversion or character of use of water rights and priorities sought in said Petition.

And the Petitioner thereupon having presented its testimony in support of said Petition and no evidence being offered in opposition thereto.

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And the Court having fully considered such testimony and heard the arguments of Counsel for Petitioner, and now being fully advised in the premises, Doth Find:

That the allegations of said Petition are sustained by the testimony; that the Petitioner is the owner of the water and the priorities of right to the use of water, the point of diversion whereof it desires to change from the point of diversion to which the same has heretofore attached to a new point of diversion as described in the Petition and as hereinafter described in this Decree; and that all of the rights to the use of water have been heretofore duly adjudicated by this Court; that no user or users of water in Water District No. 12 or elsewhere, or any other person will be adversely affected by the change in point of diversion or character of use herein decreed; nor will the change injuriously affect the vested water rights of any person.

And the Court now being fully advised in the premises:

IT IS ORDERED, ADJUDGED AND DECREED, that Petitioner, City of Victor, a municipal corporation, be and is hereby authorized to change the point of diversion and character of use of the following described rights to the use of water from Beaver Creek from the point of diversion as heretofore fixed, and herein described, to a new point of diversion as hereinafter.described, as follows:

> That portion of the water and right to the use of water as decreed to the Johnson Ditch No. 19 by that Decree of the District Court of Fremont County, Colorado, dated February 3, 1894, being .25 cubic feet of water per second of time under Arkansas River Priority No. 19, Beaver Creek Priority No. 8, of date May 29, 1864, and .75 cubic feet of water per second of time under Arkansas River Priority No. 24, Beaver Creek Priority No. 10, of date

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April 1, 1865, as decreed by the District Court of Fremont County, Colorado by Decree dated February 3, 1894; subject to the conditions and limitations contained in the Decree of said Court in Cause No. 6913, dated February 25, 1954.

That the point of diversion of the water rights and the priority of right to the use of water, above described, as fixed by the Decree of February 3, 1894 and confirmed and established in the Decree of this Court entered in Cause No. 2991, dated May 8, 1908 is as follows, to-wit:

> At a point on the East side of Beaver Creek which point bears North 70° West and is distant 35 chains from the North Quarter Corner of Section 12, Township 19 South, Range 68 West of the 6th P.M., Fremont County, Colorado.

That the Petitioner is hereby granted a Decree of this Court for a change in the point of diversion in and to the use of said water and the priorities of right to the use of said water in said Johnson Ditch No. 19, from the point of diversion described in the preceding paragraph hereof, to a new point of diversion, described as follows, to-wit:

> To the intake of the Victor Pipe Line located on the East Branch of West Beaver Creek at a point South 62° 20 minutes West a distance of 6,150 feet from the common corner of Sections 1, 2, 35 and 36, Township 14 and 15 South, Range 69 West, 6th P.M., Teller County, Colorado.

That the Petitioner is hereby granted the right to change the character of use of said priorities above described from irrigation use as fixed by that Decree of this Court on February 3, 1894 to municipal, domestic fire protection, sewage disposal, manufacturing and industrial uses, street sprinkling and flushing, and irrigation of lawns, trees, gardens, shrubs, parks and all associated domestic

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and municipal uses, as established in Cause No. 6913 dated February 25, 1954, with such right to exist at the new point of 5.5 diversion above established, and under the priority date, and in the quantities as herein fixed.

IT IS FURTHER CONSIDERED AND ORDERED BY THE COURT:

That a certified copy of this Decree shall be authority to the Water Commissioner of Water District No. 12 of the State of Colorado to distribute water as in this Decree provided, from the new point of diversion herein described for the purposes and under the priority date herein set forth.

The Petitioner shall secure certified copies of this Decree and file the same with the County Clerk and Recorder in Fremont and Teller Counties, State of Colorado, and with the State Engineer of the State of Colorado, and the Division Engineer of Irrigation Division No. 2 of the State of Colorado; that all costs of this proceeding be taxed and paid by the Petitioner.

Done in Open Court this 22 day of 🖁 A.D. 1969.

BY THE COURT

District Judge

DISTRICT COURT Fremont County, Colorado Certified to be a true and correct copy of the original document in my custody

date asulla > Clerk of the District Court Deputy

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