



TOWN OF PINCHER CREEK COUNCIL MEETING AGENDA

Monday, October 26, 2020 at 6:00 p.m.

Council Chambers, Town Hall

962 St. John Avenue

[Virtual via GoToMeeting](#)

1. **Call to Order**
2. **Scheduled Public Hearing**
3. **Agenda Approval**
4. **Scheduled Delegations**
 - 4.1 Royal Canadian Legion – Poppy Presentation
5. **Adoption of Minutes**
 - 5.1 Minutes of the Regular Meeting of Council held on October 13, 2020
 - 5.2 Minutes of the Special Meeting of Council held on October 16, 2020
6. **Business Arising from the Minutes**
 - 6.1 George Cuff – Master Class Overview (No RFD)
 - 6.2 Disposition of Delegation – Facilities Committee Concerns – Ianthe Goodfellow
 - 6.3 Disposition of Delegation – Business Recovery Support Program – Bob Dyrda
 - 6.4 Disposition of Delegation – KCL Consulting Ltd. – Kevin Lawrence
 - 6.5 Kootenai Brown Pioneer Village - Halloween in the Village
7. **Bylaws**
8. **New Business**
 - 8.1 Restoring of Regional Economic Development Alliances Investment Throughout Alberta
 - 8.2 Drinking Water Infrastructure Vulnerability Risk Assessment – Final Reports
 - 8.3 Property Tax Arrears Recovery – Public Auction
9. **Reports**
 - 9.1 Upcoming Committee Meeting and Events
10. **Administration**
 - 10.1 Council Information Distribution List
11. **Closed Session Discussion**
 - 11.1 License Agreement – Old RCMP Building – FOIP s. 16 & 24
 - 11.2 Pincher Creek Golf Club Society – Lease Agreement – FOIP s. 16 & 24
12. **Notice of Motion**
13. **Adjournment**

The next Regular Council Meeting is scheduled for November 9, 2020 at 6:00 p.m.



REGULAR MEETING OF COUNCIL
Held on Tuesday October 13, 2020 in the
Council Chambers, 962 St. John Avenue
Virtually, commencing at 6:00 p.m.

IN ATTENDANCE:

Mayor: D. Anderberg
Councillors: B. McGillivray, S. O'Rourke, M. Barber,
L. Jackson, W. Elliott and S. Korbett
Staff: L. Wilgosh, Chief Administrative Officer; L.
Rideout, Director of Community Services; D.
Bennett, Administrative Assistant and L.
Goss, Administrative Manager

1. CALL TO ORDER

Mayor Anderberg called the meeting to order at 6:00 pm.

2. SCHEDULED PUBLIC HEARING

3. AGENDA APPROVAL

JACKSON:

That Council for the Town of Pincher Creek approves the October 13, 2020 agenda as amended, the amendment being the addition of item 8.9 RCMP Meeting and 11.3 Health Care Discussion.

CARRIED 20-426

4. DELEGATIONS

5. ADOPTION OF MINUTES

5.1 Minutes of the Regular Meeting of Council held on September 28, 2020

McGILLIVRAY:

That Council for the Town of Pincher Creek approve the minutes of the Regular Meeting of Council held on September 28, 2020 as presented.

CARRIED 20-427

5.2 Minutes of the Committee of the Whole Meeting held on October 7, 2020

BARBER:

That Council for the Town of Pincher Creek approve the minutes of the Committee of the Whole Meeting held on October 7, 2020 as presented.

CARRIED 20-428

6. BUSINESS ARISING FROM THE MINUTES

6.1 George Cuff – Master Class Overview

McGILLIVRAY:

That Council for the Town of Pincher Creek refer the George Cuff – Master Class Overview to the October 26, 2020 regular meeting of Council pending a response to the inquiry submitted by administration.

CARRIED 20-429

7. BYLAWS

7.1 Land Use Bylaw Amendment 1547-AJ

KORBETT:

That Council for the Town of Pincher Creek agree and give Bylaw No. 1547-AJ amending the Land Use Bylaw No. 1547 first reading.

TABLED

McGILLIVRAY:

That Council for the Town of Pincher Creek direct administration to include a definition for Soup Kitchen in Land Use Bylaw Amendment 1547-AJ.

CARRIED 20-430

KORBETT:

That Council for the Town of Pincher Creek agree and give Bylaw No. 1547-AJ amending the Land Use Bylaw No. 1547 first reading with the following amendments, to add Soup Kitchen in the definitions and Land Uses.

CARRIED 20-431

JACKSON:

That Council for the Town of Pincher Creek agree to hold a Public Hearing on Bylaw No. 1547-AJ amending the Land Use Bylaw on November 9, 2020 before consideration of second and/or third reading.

CARRIED 20-432

8. NEW BUSINESS

8.1 Sidewalk – Sage Early Learning Centre to St. Michaels School

KORBETT:

That Council for the Town of Pincher Creek approve the proposed sidewalk development on the South side of St. Michael's School to allow access between the Sage Early Learning Centre and the school along McDougall Street and make a request to the Provincial Municipal Stimulus Program for a change in location.

CARRIED 20-433

JACKSON:

That Council for the Town of Pincher Creek agree that in the event that the proposed sidewalk on the South side of St. Michael's School along McDougall Street allowing access to the Sage Early Learning Centre is not constructed in the 2020 season that the Town of Pincher Creek provide snow removal on the South side of McDougall Street for school pedestrian traffic.

Mayor Anderberg made a friendly amendment that a crosswalk and signage be included.

CARRIED 20-434

- 8.2 Revised Letter of Understanding #9 – Full Time Pool Clerk**
BARBER:
That Council for the Town of Pincher Creek accept the Amended Letter of Understanding #9: Full Time Pool Clerk as information.
CARRIED 20-435
- 8.3 Municipal Operating Support Transfer (MOST) – Memorandum of Agreement**
McGILLIVRAY:
That Council for the Town of Pincher Creek Council approve and sign the Municipal Operating Support Transfer Memorandum of Agreement.
CARRIED 20-436
- 8.4 Pincher Creek and District Agricultural Society – Request for Support**
KORBETT:
That Council for the Town of Pincher Creek direct administration to provide options for alternate sources of funding to the Pincher Creek & District Agricultural Society and request financial statements from the Society and schedule the Pincher Creek & District Agricultural Society as a delegation at a future Council meeting if necessary with relevant financial information.
CARRIED 20-437
- 8.5 Fort Macleod Santa Claus Parade Invitation**
ELLIOTT:
That Council for the Town of Pincher Creek receive the 39th Annual "Reverse" Santa Claus Parade invitation from the Fort Macleod Santa Claus Parade Committee as information.
CARRIED 20-438
- 8.6 Tax Sale Terms and Conditions**
McGILLIVRAY:
That Council for the Town of Pincher Creek approve the Terms and Conditions of Sale for the 2020 Public Auction and that a copy be attached hereto and form part of the minutes.
CARRIED 20-439
- 8.7 Capital Budget Purchase**
JACKSON:
That Council for the Town of Pincher Creek approve the purchase of a trailer for \$2,500 with the funds coming from the General Sportsfield reserve 71-07-00-4760.
CARRIED 20-440
- 8.8 Elected Officials Education Program Courses**
KORBETT:
That Council for the Town of Pincher Creek receive the Elected Officials Education Program Courses information as presented and authorize members of Council to attend one of the sessions as desired.
CARRIED 20-441

8.9 RCMP Meeting
McGILLIVRAY:

That Council for the Town of Pincher Creek accept the meeting invitation from RCMP K Division for a virtual meeting on November 4 or 5, 2020.

CARRIED 20-442

9. REPORTS

9.1 Upcoming Committee Meetings and Events

A letter of congratulations to the Community in Bloom Committee for recent awards will be prepared and sent.

Joint Funding Committee
Municipal Development Subdivision Authority
Special Council Meeting

9.2 Operations Department – Major Project Update

ELLIOTT:

That Council for the Town of Pincher Creek receives the Operations Department – Major Project Update as information.

CARRIED 20-443

10. ADMINISTRATION

10.1 Council Information Distribution List

JACKSON:

That Council for the Town of Pincher Creek accept the Council Information Distribution List as information.

CARRIED 20-444

10.2 Chief Administrative Officer 2020 Second and Third Quarter Report

KORBETT:

That Council for the Town of Pincher Creek accept the Chief Administrative Officer 2020 Second and Third Quarter Report as information.

CARRIED 20-445

Mayor Anderberg called a recess at 7:09 pm.

D. Bennett left the meeting at 7:09 pm

Mayor Anderberg called the meeting back to order at 7:23 pm.

11. CLOSED MEETING DISCUSSION

O'ROURKE:

That Council for the Town of Pincher Creek agree to move to a closed session of Council on Tuesday, October 13, 2020 at 7:23 pm in accordance with section 16, 17 and 24 of the Freedom of Information and Protection of Privacy Act, with the Chief Administrative Officer, Director of Community Services and Administrative Manager in attendance.

CARRIED 20-446

JACKSON:

That Council for the Town of Pincher Creek agree to move out of a closed session of Council on Tuesday, October 13, 2020 at 8:25 pm.

CARRIED 20-447

11.1 Tax Arrears Agreement Roll #00190000 and Roll #08041200 – FOIP s. 16 & 17
McGILLIVRAY:

That Council for the Town of Pincher Creek authorize and approve entering into a seven (7) month Tax Arrears Payment Agreement for Roll 00190000 and a thirty-six (36) month Tax Arrears Payment Agreement for Roll #08041200 for the years 2019 and prior.

CARRIED 20-448

11.2 Recreation Master Plan Survey Results – FOIP s. 24
KORBETT:

That Council for the Town of Pincher Creek receives the preliminary Recreation Master Plan Survey Results Update as information.

CARRIED 20-449

11.3 Health Care Discussion
JACKSON:

That Council for the Town of Pincher Creek direct administration to arrange a meeting with physician and Council representation to prepare questions for the Health Ministers visit.

CARRIED 20-450

12. NOTICE OF MOTION

13. ADJOURNMENT
O'ROURKE:

That this meeting of Council on October 13, 2020 be hereby adjourned at 8:27 pm.

CARRIED 20-451

MAYOR, D. Anderberg

CAO, L. Wilgosh

**APPROVED BY RESOLUTION
OF THE COUNCIL OF THE
TOWN OF PINCHER CREEK,
THIS 26th DAY OF OCTOBER 2020 S E A L
NEXT REGULAR MEETING OF COUNCIL TO BE HELD ON TUESDAY OCTOBER 26, 2020
AT 6:00 P.M.**



**SPECIAL MEETING OF COUNCIL
Held on Friday October 16, 2020
Council Chambers, 962 St. John Avenue
commencing at 10:00 a.m.**

IN ATTENDANCE:

Mayor: D. Anderberg

Councillors: B. McGillivray, L. Jackson, S. Korbett and W. Elliott

Absent with Regrets: S. O'Rourke and M. Barber

Staff: L. Wilgosh, Chief Administrative Officer; G. Kollee, Legislative Services Manager and D. Green, Family and Community Support Services Coordinator

1. CALL TO ORDER

Mayor Anderberg called the meeting to order at 10:00 am.

3. AGENDA APPROVAL

JACKSON:

That Council for the Town of Pincher Creek approves the October 16, 2020 agenda as presented.

CARRIED 20-452

JACKSON:

That Council for the Town of Pincher Creek agree to move to a closed session of Council on Friday, October 16, 2020 at 10:02 am in accordance with section 19 and 24 of the Freedom of Information and Protection of Privacy Act, with the Chief Administrative Officer and Manager of Legislative Services in attendance.

CARRIED 20-453

D. Green joined the meeting at 10:05 am.

D. Green left the meeting at 10:30 am.

KORBETT:

That Council for the Town of Pincher Creek agree to move out of a closed session of Council on Friday, October 16, 2020 at 11:10 am.

CARRIED 20-454

Mayor Anderberg called a recess at 11:10 am.

Mayor Anderberg called the meeting back to order at 11:18 am.

ELLIOTT:

That Council for the Town of Pincher Creek agree to move to a closed session of Council on Friday, October 16, 2020 at 11:18 am in accordance with section 19 and 24 of the Freedom of Information and Protection of Privacy Act, with the Chief Administrative Officer and Manager of Legislative Services in attendance.

CARRIED 20-455

KORBETT:

That Council for the Town of Pincher Creek agree to move out of a closed session of Council on Friday, October 16, 2020 at 12:17 pm.

CARRIED 20-456

3.1 Personnel – Council Code of Conduct – FOIP s. 19

ANDERBERG:

That Council for the Town of Pincher Creek agree to maintain the current sanctions (resolution # 20-129) for Councillor O'Rourke, as per the Town of Pincher Creek Code of Conduct Bylaw #1622-18, including Council Committee Appointments, functions and events; and excepting Council meetings, Joint Council Meetings, Special Council meetings, Committee of the Whole meetings and budgetary deliberations, and the annual Organizational meeting;

FURTHER

To give notice to Councillor O'Rourke that certain recent statements made by her are defamatory such that further similar public statements will be referred to legal counsel for defamation litigation action.

Councillor Korbett requested a recorded vote;

IN FAVOR

McGillivray
Korbett
Jackson
Elliott
Anderberg

OPPOSED

CARRIED 20-457

JACKSON:

That Council for the Town of Pincher Creek rescind resolution 20-409 authorization for Councillor O'Rourke to attend the Public Halloween event on October 31, 2020 at Kootenay Brown Pioneer Village.

FURTHER

That the authorization for Councillor O'Rourke to attend the AUMA sponsored Elected Officials Education Program on-line education session scheduled from November 19 to December 10, 2020 also be rescinded (resolution 20-441).

Councillor Korbett requested a recorded vote;

IN FAVOR

McGillivray
Korbett
Jackson
Elliott
Anderberg

OPPOSED

CARRIED 20-458

McGILLIVRAY:

That Council for the Town of Pincher Creek make the following statement that the personal views expressed by Councillor Sussanne O'Rourke do not reflect or represent the views of Town Council, as per the Alberta Municipal Affairs Councillor Handbook, page 4, "...the Chief Elected Official is also generally the main spokesperson for the municipality, unless that duty is delegated to a councillor".

CARRIED 20-459

4. ADJOURNMENT

JACKSON:

That this meeting of Council on October 16, 2020 be hereby adjourned at 12:20 pm.

CARRIED 20-460

MAYOR, D. Anderberg

CAO, L. Wilgosh

**APPROVED BY RESOLUTION
OF THE COUNCIL OF THE
TOWN OF PINCHER CREEK,
THIS 26th DAY OF OCTOBER 2020 S E A L**

**NEXT REGULAR MEETING OF COUNCIL TO BE HELD ON MONDAY OCTOBER 26, 2020
AT 6:00 P.M.**

TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: Citizens Voice re: Facility Committee	
PRESENTED BY: LaVonne Rideout, Community Services	DATE OF MEETING: 10/26/2020

PURPOSE:

Response to delegate about the lack of Facility Committee meetings

RECOMMENDATION:

That Council for the Town of Pincher Creek review the intention, value and/or necessity of the Facilities Committee.

BACKGROUND/HISTORY:

As per the Facility Committees Terms of Reference, the chairperson shall call meetings on an as needed basis.

The last Facilities Committee meeting was held on April 11, 2019.

Meetings were rescheduled numerous times; May 23, May 30, June 11, 2019 but due to conflicts/commitment no meetings were actually held.

No Facilities Committee meetings were held in the fall, 2019 as it was the Director of Community Services understanding that this committee was under review.

In February, as part of the COVID 19 strategy, Council made the recommendations to postpone any unnecessary meetings until further notice.

ALTERNATIVES:

That Council for the Town of Pincher Creek receive the information and presentation made by Ianthe Goodfellow as presented.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

N/A

FINANCIAL IMPLICATIONS:

Under consideration is the cost to taxpayers of holding meetings.

PUBLIC RELATIONS IMPLICATIONS:

Citizens have many options in bringing their voices to the Councils attention.

ATTACHMENTS:

CONCLUSION/SUMMARY:

Administration be advised to hold off on holding Facility Committee meetings until further discussions/decisions are made.

Letter be written to delegate Citizens Voice informing them of the decision.

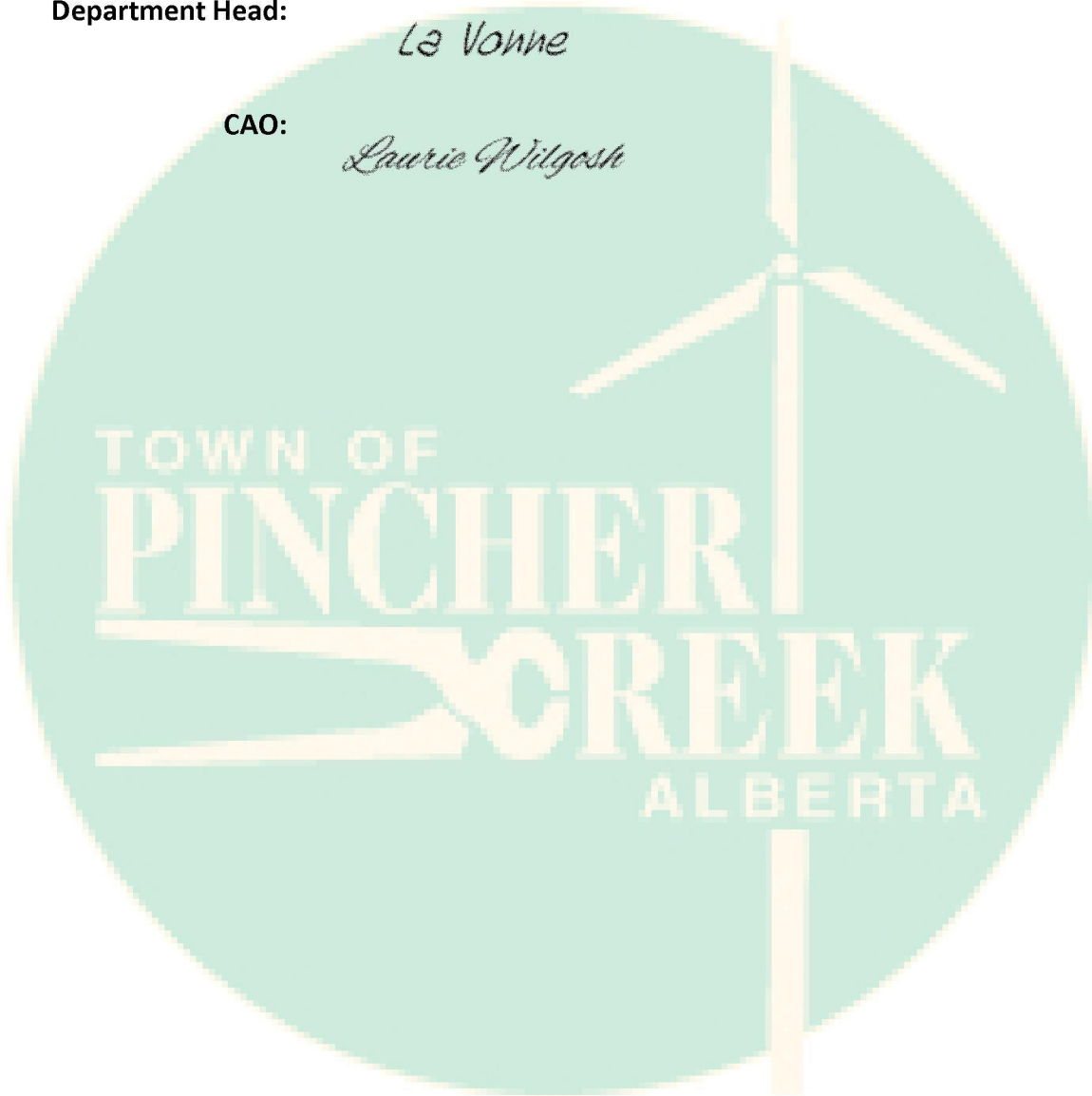
Signatures:

Department Head:

La Vonne

CAO:

Laurie Wilgosh



TERMS OF REFERENCE

Pincher Creek Facilities Planning Study Steering Committee

PURPOSE OF THE COMMITTEE:

The Pincher Creek Facilities Planning Study Steering Committee shall study and provide advice to the Town of Pincher Creek regarding the future development, renovation or expansion of facilities including sport, recreational, community and other Town owned facilities.

Specifically the Committee will:

- Review the Multi-purpose Facility Planning Study & Report provided by Krystal Engineering and RKH Architecture and the Multi-purpose Facility Steering Committee recommendations.
- Review the Facility Infrastructure Master Plan (2008) and other related reports/documents re: condition of Town facilities and recommendations for improvement or maintenance.
- Investigate the feasibility and alternatives for facility development, renovation, re-location or expansion of all facilities with consideration to community needs, other projects proposed/underway, budget.
- Review Town of Pincher Creek land base and zoning with regard to the potential for facility development, re-location or expansion of facilities.
- Receive and consider information from the Recreation Advisory Committee, public and or community groups regarding facility development, renovation or expansion when expedient to do so.
- Provide regular reports to Town Council regarding the progress of Committee discussions and recommendations.
- Prepare a Final Facilities Report for Council to include information on Committee recommendations, options, timelines/phasing and projected capital and funding.

MEMBERSHIP:

The Committee shall be composed of up to six voting members. Composition shall be as follows:

- Town of Pincher Creek - two (2) Councillors
- Municipal District of Pincher Creek - two (2) Councillors
- Pincher Creek & District Recreation Advisory Committee – one (1) Member

A Member of the Committee will be disqualified to serve on the Committee if they:

- Cease to be a resident of Pincher Creek or area.
- Are absent for three meetings unless absences are authorized by the Town of Pincher Creek.
- Upon sending written notice to the Town of Pincher Creek.

TERMS OF REFERENCE

Pincher Creek Facilities Planning Study Steering Committee

Town administrative staff may attend in an advisory capacity.

TERM OF COMMITTEE:

The Committee shall serve at the pleasure of Council and may be dissolved at any time during the process with the agreement of the Town of Pincher Creek or by the Committee resignation or recommendation.

CONDUCT OF MEETINGS:

- A Chairman shall be appointed at the first regular meeting from within the voting members of the Committee as per Town Policy #113-12 Council Members as Chairman.
- The Committee shall hold meetings on an as needed basis. Special meetings may be called by the Chairman whenever it is considered expedient to do so or when requested in writing by a majority of the Committee members. Verbal or written notice shall be given to the Committee members with not less than 24 hours prior to the meeting.
- Quorum will be a majority of appointed members.
- Motions do not require a seconder and are passed by a simple majority.
- All members including the Chairman shall vote on all questions. In the event of a tie, the motion shall be lost.
- Agendas are to be prepared by Town Administration and circulated in advance of the meeting.
- Town Administration shall record in writing the minutes of all regular and special meetings including a record of attendance. Copies of all minutes should be forwarded to the Council and Committee members within 14 days of approval.
- Committee recommendations shall forward in writing to the Town of Pincher Creek for consideration.

AUTHORITY OF THE COMMITTEE:

- The Committee shall act in an advisory capacity to Town Council and shall not have the power to direct Town consultants or enter into any agreements.

FINANCIAL:

- Committee may not incur any expenses unless authorized by the Town of Pincher Creek.

TERMS OF REFERENCE
Pincher Creek Facilities Planning Study Steering Committee

Appendix A – Inventory of Municipal/Community Facilities

Swimming Pool, Gym

MCC Arena

Seniors Citizen Centre

Municipal Library

Curling Rink

Golf Clubhouse and Course

Joe's Gym

Chinook Lanes Bowling Alley

Horseshoe Pavilion and Agricultural Grounds

Community Hall

Town Hall – Administration Area, Gymnasium, Meeting Rooms, Day Care

Lebel Mansion

Pioneer Place & Kootenai Brown Pioneer Village

Group Group Youth

Parent Link Centre

Old Water Treatment Plant

Old RCMP Building

EMS Building

Campground

JJT Washroom/Concession

Town Shop/Old Swimming Pool

Service Clubs (Lions Den, Elks Hall)

School Facilities – Gyms, Meeting Rooms

TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: Disposition of Delegation - Business Recovery Support Program - Bob Dyrda	
PRESENTED BY: Lisa Goss, Administrative Manager	DATE OF MEETING: 10/26/2020

PURPOSE:

To dispose of a delegation that attended the October 7, 2020 Committee of the Whole meeting in accordance with Procedural Bylaw 1596-20.

RECOMMENDATION:

That Council for the Town of Pincher Creek receive the presentation provided by Bob Dyrda regarding the Business Recovery Support Program.

BACKGROUND/HISTORY:

Bob Dyrda attended the October 7, 2020 Committee of the Whole meeting as a scheduled delegation to provide an update on the Business Recovery Support Program.

ALTERNATIVES:

That Council for the Town of Pincher Creek direct administration to garner further information regarding the Business Recovery Support Program.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

None at this time.

FINANCIAL IMPLICATIONS:

None at this time.

PUBLIC RELATIONS IMPLICATIONS:

The business recovery support program is valuable to the community, particularly in support of our local businesses and their sustainability during a difficult economic period.

ATTACHMENTS:

None at this time.

CONCLUSION/SUMMARY:

Administration supports that Council for the Town of Pincher Creek receive the presentation provided by Bob Dyrda regarding the Business Recovery Support Program.

Signatures:

Department Head:

Lisa Goss

CAO:

Lannie Wilgosh



TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: Disposition of Delegation - Kevin Lawrence - KCL Consulting Ltd.	
PRESENTED BY: Wendy Catonio, Director of Finance and Human Resources	DATE OF MEETING: 10/26/2020

PURPOSE:

To dispose of a delegation that attended the October 7, 2020 Committee of the Whole meeting as information.

RECOMMENDATION:

That Council for the Town of Pincher Creek receive the presentation provided by Kevin Lawrence of KCL Consulting Ltd. at the October 7, 2020 Committee of the Whole meeting as information.

BACKGROUND/HISTORY:

Council requested Kevin Lawrence of KCL Consulting Ltd. the property assessor for the Town of Pincher Creek to make a presentation concerning the various methods used to determine fair market values of property in the Province of Alberta.

ALTERNATIVES:

That Council for the Town of Pincher Creek direct administration to garner further information regarding the methods used to determine fair market values.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

None at this time.

FINANCIAL IMPLICATIONS:

None at this time.

PUBLIC RELATIONS IMPLICATIONS:

KCL Consulting Ltd. is the first contact property owners have when dealing with a property value dispute. KCL Consulting Ltd. treats all property owners fairly.

ATTACHMENTS:

None at this time.

CONCLUSION/SUMMARY:

Administration supports that Council for the Town of Pincher Creek receive the presentation provided by Kevin Lawrence of KCL Consulting Ltd. at the October 7, 2020 Committee of the Whole meeting as information.

Signatures:
Department Head:

Wendy Catonio

CAO:

Lannie Wilgosh



TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: Kootenai Brown Pioneer Village - Halloween in the Village	
PRESENTED BY: Lisa Goss, Administrative Manager	DATE OF MEETING: 10/26/2020

PURPOSE:

To reconsider an invitation from Kootenai Brown Pioneer Village to attend "Halloween in the Village" on Saturday October 31, 2020.

RECOMMENDATION:

That Council for the Town of Pincher Creek That Council for the Town of Pincher Creek authorize a member of Council to attend Kootenai Brown Pioneer Village "Halloween in the Village" on Saturday October 31, 2020.

BACKGROUND/HISTORY:

Council considered this invitation at the September 28, 2020 regular meeting of Council and passed a resolution authorizing Councillor O'Rourke to attend (20-409). That resolution was rescinded at the October 16, 2020 Special meeting of Council (20-458).

ALTERNATIVES:

That Council for the Town of Pincher Creek receives the information from Kootenai Brown Pioneer Village regarding "Halloween in the Village" as presented.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

Members of Council have attended this event in the past.

FINANCIAL IMPLICATIONS:

Expenses for Council members to attend various community events such as this are considered in the current budget.

PUBLIC RELATIONS IMPLICATIONS:

Participation in community events shows support and creates awareness.

ATTACHMENTS:

None at this time.

CONCLUSION/SUMMARY:

Administration supports that Council for the Town of Pincher Creek authorize a member of Council to attend Kootenai Brown Pioneer Village "Halloween in the Village" on Saturday October 31, 2020.

Signatures:
Department Head:

Lisa Goss

CAO:

Lannie Wilgosh



TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: REDA Support	
PRESENTED BY: LaVonne Rideout, Community Services	DATE OF MEETING: 10/26/2020

PURPOSE:

For Council to direct administration in providing a letter of support

RECOMMENDATION:

That Council for the Town of Pincher Creek That Council for the Town of Pincher Creek direct administration to draft a letter supporting Alberta Southwest and urging Minister Schweitzer, Minister of Jobs Economic and Innovation, to work with our governments and industries to carry out the investment and growth strategy and restore the full \$100,000 annual investment to the nine Regional Economic Development Alliances' of Alberta, and offer an investment contract to a full 5-years, and to bring the letter back to Council for approval.

BACKGROUND/HISTORY:

Recently the provincial government has reduced funding to Regional Economic Development Alliances (REDA's) by 50%. The Town of Pincher Creek provides membership fees to Alberta Southwest.

Community Economic Development relies heavily on networking, information sharing, and partnerships. Pincher Creek's membership fees to Alberta Southwest are leveraged to create greater benefit to our community. The Town of Pincher Creek Economic Development Officer works in partnership with ABSW on projects and to promote the region.

The Town of Claresholm has provided a draft template for partner communities to utilize should they choose to submit a letter of support.

ALTERNATIVES:

That Council for the Town of Pincher Creek direct administration to utilize the template provided to urge Minister Schweitzer, Minister of Jobs Economic and Innovation, to work with our governments and industries to carry out the investment and growth strategy and restore the full \$100,000 annual investment to the nine Regional Economic Development Alliances' of Alberta, and offer an investment contract to a full 5-years.

That the Council for the Town of Pincher Creek receive the request as information.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

N/A

FINANCIAL IMPLICATIONS:

N/A

PUBLIC RELATIONS IMPLICATIONS:

None at this time.

ATTACHMENTS:

Appeal to the Minister of Jobs Economy Innovation Town of Claresholm REDA Support
September 30 2020 - 517

Email string to ABSW - 517

TEMPLATE - to the Minister of Jobs Economy Innovation REDA SUPPORT October 2 2020 -
517

CONCLUSION/SUMMARY:

Administration sees value in providing a letter of support

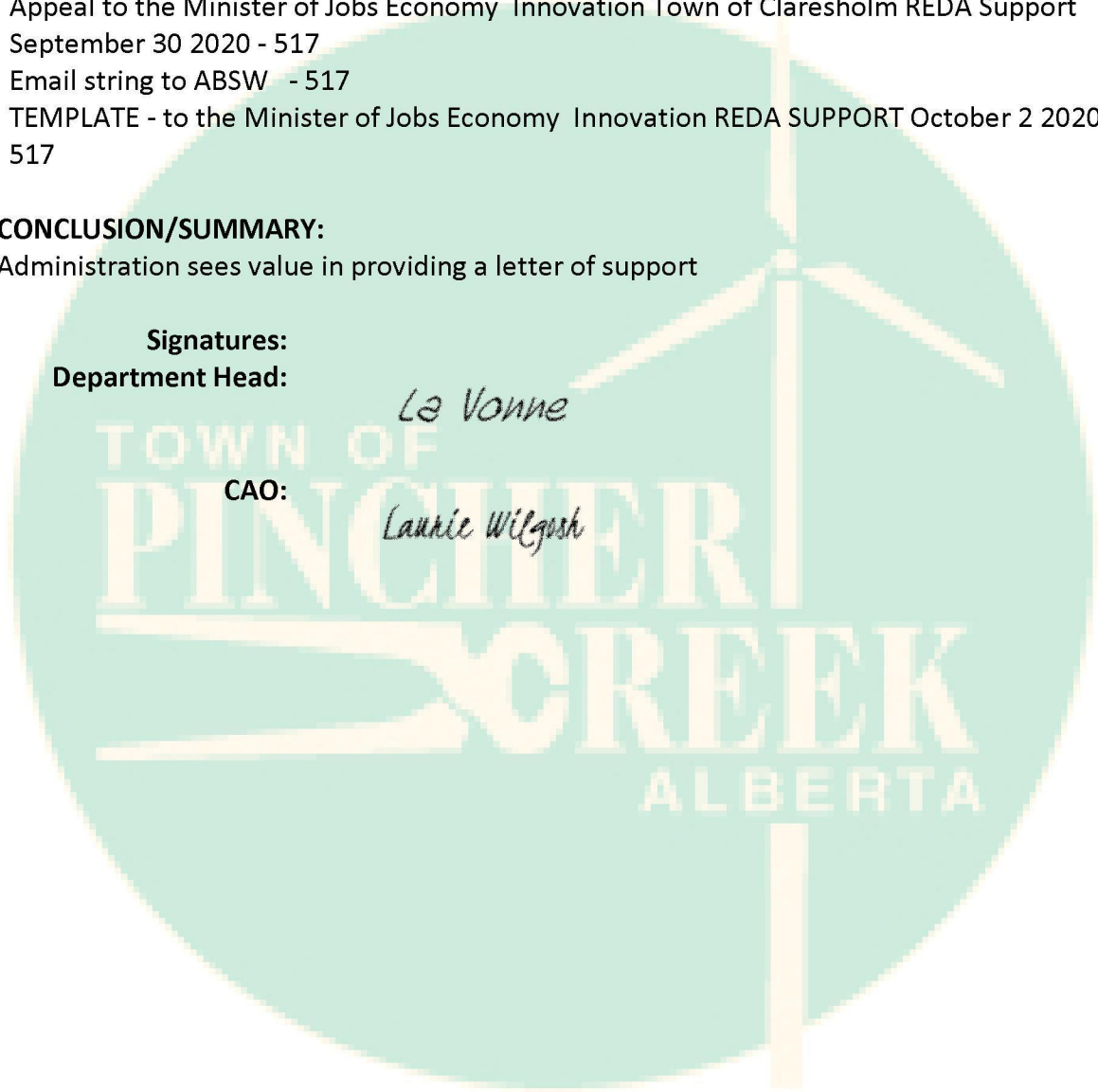
Signatures:

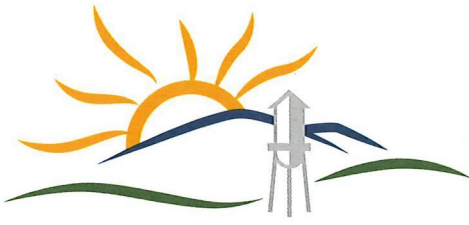
Department Head:

La Vonne

CAO:

Laurie Wilgosh





Claresholm

Where **Community** Takes Root

September 30, 2020

Honourable Doug Schweitzer
Minister of Jobs, Economy and Innovation
425 Legislature Building
10800 - 97 Avenue
Edmonton, AB T5K 2B6

RE: INVESTMENT & GROWTH; ALBERTA REGIONAL ECONOMIC DEVELOPMENT ALLIANCES

Dear Minister:

Alberta's Regional Economic Development Alliances (REDAs) were created to stimulate long-term economic development and growth strategies in Alberta's rural and urban communities. Now, after 20-years of collaboration and team work the nine Alberta REDA's celebrate 250-community members and industry partners.

In conjunction with membership fees and strategic partnerships, the Alberta REDA's have survived and progressed by leveraging the provinces annual investment. REDAs provide customized service to communities and industry, they have a proven track-record of attracting investment into key-markets, and consistently bring new technologies and innovation into the strategic plans of municipalities. The coordination of REDA's provides strength, increases capacity, and attracts investment that was previously considered out of reach.

The Town of Claresholm has been a member Alberta Southwest since its inception nearly 20-years ago. In early 2019, the Town Council agreed to join South-Grow Regional Initiative and become one of the first communities in Southern Alberta to hold dual REDA membership. The decision to invest capital in two REDA's during such an uncertain economic time was met with no resistance. It was a decision based on the practical benefits of teamwork, leveraging the limited resources available, and the impressive performance that is still being delivered today. Alberta Southwest and SouthGrow have allowed Claresholm Economic Development to thrive.

Reducing the REDA investment by 50%, and limiting the agreement to 3-years will diminish returns at even greater proportions. The Town of Claresholm Council and the Claresholm Economic Development Committee urge the Honourable Doug Schweitzer, Minister of Jobs Economic and Innovation, to work with our governments and industries to carry out the investment and growth strategy and restore the full \$100,000 annual investment to the nine Regional Economic Development Alliances' of Alberta, and extend the contract to a full 5-years.

If you have any further questions or concerns regarding this matter, please contact the undersigned office at your convenience.

Yours Sincerely,

Doug MacPherson
Mayor
Town of Claresholm
403-652-6870

Cc: Mr. Roger Reid, MLA for Livingstone-Macleod
Mr. John Barlow, MP for Foothills



From: Bev Thornton [

Sent: Friday, October 09, 2020 11:14 AM

To: Abe Tinney-Waterton ID4 Bonnie Kawasaki - CNP - EA Candice Greig - Stavely Cindy Cornish - Cowley Derrick Krizsan - MD Willow Creek Greg Brkich-MD Ranchland-Acting EA < Janet Edwards - Hill Spring < >; Jeff Shaw - Cardston Jessica McClelland-MD Pincher Creek-EA < >; Laurie Wilgosh < Marian Carlson - Claresholm < >; Murray Millward - Cardston County >; Neil Smith - Nanton < >; Patrick Thomas - CNP>; Susan Keenan - Fort Macleod Troy MacCulloch - MD Pincher Creek <

Subject: FW: Restoring of Regional Economic Development Alliances investment throughout Alberta

Importance: High

Dear AlbertaSW CAOs,

The following request was forwarded by Town of Claresholm with a request to all our communities. This letter of support for Regional Economic Development was reviewed favourably at the AlbertaSW Board meeting on Wednesday, so am passing this along to our member communities.

Please feel welcome to send a letter to the Minister also.

Other regions across the province are having the same idea, so perhaps a flood of letters may make the point that REDAs represent an important collaborative advantage for Alberta.

Thanks for your consideration.

Bev

AlbertaSW

403-627-0244

From: EDO <EDO@claresholm.ca>

Sent: Friday, October 2, 2020 2:52 PM

To: Bev Thornton <bev@albertasouthwest.com>; Peter Casurella, SouthGrow <peter.casurella@southgrow.com>

Cc: info@rediregion.ca; admin@peacecountrycanada.com; business@palliseralberta.com; info@albertahub.com; inquiries@growthalberta.com; info@caepalberta.com; info@braedalberta.ca

Subject: Restoring of Regional Economic Development Alliances investment throughout Alberta

Hello Bev and Peter,

On September 28, 2020 the Town of Claresholm Council passed a motion to direct a letter to the new Minister of Jobs Economy and Innovation, to appeal for the restoring of Regional Economic Development Alliances investment throughout Alberta, and to cc Mr. Roger Reid MLA Livingstone-Macleod, and the Honourable John Barlow, MP Foothills on that letter.

The Town of Claresholm and the Claresholm Economic Development Committee invite all Regional Economic Development Alliance members, associate members, and industry partners throughout Alberta to join the initiative, and submit a letter from your organization without delay. You are invited and welcome to use the attached template and submit a personalized call for action on behalf of your organization and your REDA! We are stronger together so please act now and join the Town of Claresholm in this call for action:

The Town of Claresholm Council and the Claresholm Economic Development Committee urge the Honourable Doug Schweitzer, Minister of Jobs Economic and Innovation, to work with our governments and industries to carry out the investment and growth strategy and restore the full \$100,000 annual

investment to the nine Regional Economic Development Alliances' of Alberta, and offer an investment contract to a full 5-years.

- Mayor Doug MacPherson, Town of Claresholm

Attached:

1. Letter from the Town of Claresholm Council, addressed to the Honourable Doug Schweitzer, and cc'd to the MLA Livingstone-Macleod, and MP Foothills.
2. A template to use for your own organization.

The Provincial Investment and Growth Strategy is an opportunity for REDA's to gain back the investment that was recently lost.

<https://open.alberta.ca/publications/selling-alberta-to-the-world>

Thank you for your hard work and dedication Bev and Peter, please carry this message forward to all of the REDA members with confidence.

Sincerely,



Brady Schnell

Economic Development Officer

Phone: 403.625.3381 | Fax: 403.625.3869

PO Box 1000, 221 – 45th Ave W, Claresholm, AB T0L 0T0

www.claresholm.ca

For use on letter-head

[DATE]

Honourable Doug Schweitzer
Minister of Jobs, Economy and Innovation
425 Legislature Building
10800 - 97 Avenue
Edmonton, AB T5K 2B6

RE: [choose your own subject line]

Dear Minister:

Alberta's Regional Economic Development Alliances (REDAs) were created to stimulate long-term economic development and growth strategies in Alberta's rural and urban communities. Now, after 20-years of collaboration and team work the nine Alberta REDA's celebrate 250-community members and industry partners.

In conjunction with membership fees and strategic partnerships, the Alberta REDA's have survived and progressed by leveraging the provinces annual investment. REDAs provide customized service to communities and industry, they have a proven track-record of attracting investment into key-markets, and consistently bring new technologies and innovation into the strategic plans of municipalities. The coordination of REDA's provides strength, increases capacity, and attracts investment that was previously considered out of reach.

[Insert a paragraph identifying with your REDA and the value that it brings to your organization. Consider using the new Provincial Investment and Growth Strategy to find language that will be recognized.]

<https://open.alberta.ca/publications/selling-alberta-to-the-world>

Reducing the REDA investment by 50%, and limiting the agreement to 3-years will diminish returns at even greater proportions. The Town of Claresholm Council and the Claresholm Economic Development Committee urge the Honourable Doug Schweitzer, Minister of Jobs Economic and Innovation, to work with our governments and industries to carry out the investment and growth strategy and restore the full \$100,000 annual investment to the nine Regional Economic Development Alliances' of Alberta, and extend the contract to a full 5-years.

If you have any further questions or concerns regarding this matter, please contact the undersigned office at your convenience.

Yours Sincerely,

[elected official]
[position/title]
[contact information]

Cc: [MLA for riding]
[MP for riding]
*Honourable title for Ministers

TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: Drinking Water Infrastructure Vulnerability Risk Assessment - Final Reports	
PRESENTED BY: Al Roth, Director of Operations	DATE OF MEETING: 10/26/2020

PURPOSE:

To provide information to Council regarding Alberta Environment and Parks Drinking Water Infrastructure Vulnerability Risk Assessment Reports.

RECOMMENDATION:

That Council for the Town of Pincher Creek receive reports as information.

BACKGROUND/HISTORY:

In 2018, Alberta Environment and Parks & Alberta Innovates commenced a study to assess climate change impacts to high and low flow events for several drinking water facilities throughout the province. Associated Engineering was retained to complete the study and the final reports for your facility and the province are complete. The study objective was to complete a high-level assessment of drinking water system vulnerabilities and changing risks to support future adaptation and resilience planning. Information contained in the reports should identify vulnerabilities and risks to drinking water infrastructure to inform future upgrades and system modifications to ensure future operational resilience. Your facility report is attached (attachment i) and the provincial report is available on the Alberta Innovates website at the following link: [Link to Provincial Report](#)

ALTERNATIVES:

None at this time.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

Based on the report Town Administration is very aware of the recommendations and has a plan to implement them based on the financial obligations that it will take to complete them.

FINANCIAL IMPLICATIONS:

Will effect future Budget processes

PUBLIC RELATIONS IMPLICATIONS:

None at this time.

ATTACHMENTS:

Attachment i -Pincher Creek-1.2-Final - 510

CONCLUSION/SUMMARY:

Based on the report Town Administration is very aware of the recommendation and have a plan to implement them based on the financial obligations that it will take to complete them.

Signatures:

Department Head:

Al Roth

CAO:

Laurie Wilgosh





**Associated
Engineering**

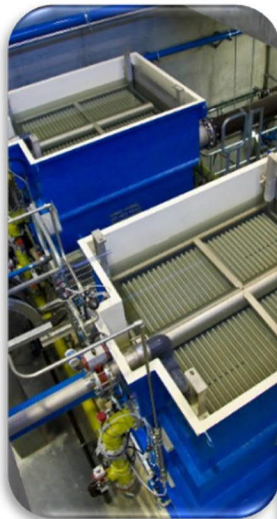
*GLOBAL PERSPECTIVE.
LOCAL FOCUS.*

FACILITY REPORT

Alberta Innovates and Alberta Environment and Parks

Drinking Water Infrastructure Risk & Vulnerability Study

Pincher Creek Waterworks System



**A Carbon
Neutral
Company**



**CANADA BEST
MANAGED
COMPANIES** | Platinum
member

MAY 2020

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EXECUTIVE SUMMARY

1 OVERVIEW

Alberta Innovates and Alberta Environment and Parks partnered to complete a province-wide vulnerability risk assessment (VRA), aimed at investigating the potential climate change impacts to stream flows near select drinking water facilities, as well as the level of preparedness of the drinking water facilities to these impacts. The project goal was to provide a screening level scan of potential outcomes to support the development of a robust adaptation and resilience strategy. The Pincher Creek Waterworks System was one of 48 facilities selected for review on this project.

The VRA consisted of two assessments – climate assessment and facility assessment. The climate assessment was performed to understand how potential future climate change may impact high and low streamflow near drinking water facilities. This assessment considered current streamflow conditions as a baseline and estimated future streamflow changes for each facility’s watershed in the near future (2010-2034) and mid-Century (2040-2064), in the event of both conservative and severe climate change. The climate assessment was performed through analysis of historical and future streamflow simulations, obtained through the use of the Soil and Water Assessment Tool (SWAT) hydrological model, and provided by the University of Alberta. The anticipated future streamflow changes were compared to available Water Survey of Canada station data, and the layout of each drinking water system, to determine the likelihood of each facility experiencing greater impacts due to projected changes.

The facility assessment was performed to gauge the facility’s ability to manage the impacts of high and low streamflow periods of historical magnitude. The facility assessment was intended to be a high-level screening of vulnerability and risks due to potential change to high and low stream flow only and did not entail a detailed on-site assessment. The facility assessment was performed through a review of the Provincial Regional Water Strategy documentation, Drinking Water Safety Plans, and survey of the drinking water system operators through a questionnaire.

Finally, the climate and facility assessments were analyzed in conjunction to assess if the expected change in streamflow conditions pose future risks to each facility. As part of the VRA, the results of the climate and facility assessments were plotted on a risk assessment matrix developed specifically for this project. The four possible VRA outcomes are: low, moderate, high, and critical risk.

2 SCOPE

It is important to recognize that scope of the assignment was focused solely on facility vulnerability related to potential high or low streamflow water source quantity and general quality changes, as a result of future climate change. No attempt was made to characterize or determine the potential vulnerability of the treatment systems to other climatic change factors (e.g., storm, snow or wind events, extreme temperature changes and the associated freeze-thaw cycles), or detailed water quality changes (e.g., nutrient & organic loading changes, other contaminants in fluxes, including invasive species or new pathogens).

3 KEY FINDINGS FOR THE PINCHER CREEK WATERWORKS SYSTEM

The facility assessment indicated that the Pincher Creek Waterworks System demonstrated moderate vulnerability to impacts of past high stream flow events. The climate assessment indicated that the Pincher Creek Waterworks System is unlikely to experience greater high streamflow impacts in the future due to climate change. As a result, the Pincher Creek Waterworks System’s overall vulnerability to future high stream flows was characterized as ‘Moderate.’

The facility assessment indicated moderate vulnerability to impacts of past low stream flow events. The climate assessment indicated that system is very unlikely to experience greater impacts from low stream flow events in the future due to climate change. As a result, the Pincher Creek Waterworks System’s vulnerability to future periods of low streamflow was characterized as ‘Moderate.’

4 SUGGESTED IMPROVEMENTS FOR THE PINCHER CREEK WATERWORKS SYSTEM

In order to mitigate the facility’s vulnerability to high and low stream flow events in the future, the following improvements are suggested:

- Complete a detailed flood risk assessment for the raw water intake and pumphouse facilities to better understand the potential impact of more severe floods due to climate change. This should be completed prior to any additional major capital reinvestment at the facility.
- Updating the Drinking Water Safety Plan on an annual basis.
- Updating the Flood Readiness Plan and update on an annual basis.
- Updating the Drought Readiness Plan on an annual basis.
- Procuring a backup power supply for the raw water pumphouse.
- Modifications to the river inlet and sediment management to reduce risk of exposure, during low stream flow events.
- Investigation of additional raw water storage to ensure sufficient water quantity year round.
- Monitor the Government of Alberta level gauge in Pincher Creek existing in the vicinity of the raw water intake. Facility may also install a level gauge in Picher Creek in the vicinity of the raw water intake. If the latter is chosen, ensure data from the gauge is captured in the SCADA for improved monitoring and projection of high and low-flow events.
- Install a level gauge in Castle River in the vicinity of the raw water intake. Ensure data from the gauge is captured in the SCADA for improved monitoring and projection of high and low-flow events.

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1 INTRODUCTION

1.1 Background

There is a substantial base of evidence indicating that climate change is unequivocal, already resulting in a range of risks to local communities and will likely accelerate through the 21st Century (IPCC 2013).

As with all jurisdictions, the Province of Alberta will need to be prepared to respond to changes in key climate change indicators. Examples of climate change indicators include more frequent and intense extreme weather conditions, such as rainstorms, snowstorms, heat waves, and droughts, as well as shifts in the average state and seasonality of temperature, precipitation, and other variables. The impacts of climate change are likely to exacerbate existing stresses on key municipal infrastructure, and specifically, our most vital assets, such as drinking water systems. Infrastructure systems that are stressed by extreme events may place fundamental municipal services at risk of damage, interruption, or loss of services.

1.2 Project Goal

Alberta Innovates and Alberta Environment and Parks partnered to complete a province-wide vulnerability risk assessment (VRA) of potential climate change impacts to critical drinking water facilities. The project goal was to explore the level of preparedness of the drinking water facilities to the potential water-level related impacts of climate change, and to support the development of a robust adaptation and resilience strategy.

The outcome of the VRA is intended to help inform identification and prioritization of management actions, which may include capital and operational investments to reduce climate change driven drinking water infrastructure risks. The VRA is also intended to identify where appropriate emergency response and recovery plans should be further developed. If minimal/no significant climate change impacts were identified, the facility should still anticipate similar future risks to what has been experienced in the past and continue to plan accordingly.

At a facility level, the outcome of the VRA can be used as an input into the Drinking Water Safety Plans (DWSPs). DWSP is a risk assessment and management tool, which should be employed to identify and control key facility risks. Climate change risks to the facility should be prioritized for action only when the facility's DWSP identifies these risks as a priority.

1.3 Project Scope

This VRA is based on existing climate, watershed, and facility information, as well as future climate change scenario projections. Specifically, Associated Engineering Alberta Ltd. (AE) set out to examine the following:

- How prepared drinking water facilities in Alberta have perceived themselves to be when it comes to management of the effects of high and low stream flows;
- Future climate scenarios, and the change in stream flows (high and low) that can be anticipated at a watershed level; and
- How the predicted future watershed changes are likely to impact drinking water facilities in Alberta, given their current level of preparedness.

The results of the VRA should be interpreted only in the context of implications of changing streamflow to select drinking water facilities in Alberta, and should not be used in industrial, agricultural, or other infrastructure planning, or as basis for decisions concerning water allocation and licensing.

2 FACILITY DESCRIPTION

This report provides the results of the VRA for the Pincher Creek Waterworks System. In total, 48 facilities participated in this project, 17 of which are located within the South Saskatchewan River basin.

Figure 2-1 shows the location of the waterworks system infrastructure and **Figure 2-2** shows the facility location within the Province.

The Pincher Creek Waterworks System provides water to the Town of Pincher Creek. A brief overview of the facility infrastructure and raw water source is included below:

- **Source:** The facility obtains raw water from both Pincher Creek and Castle River via infiltration gallery and submerged intake, respectively. Raw water is pumped from the intakes to the raw water pond located just south of the treatment facility. The raw water pond is filled throughout the year and has capacity to store 3 to 6 months of raw water storage.
- **Treatment:** The treatment facility is located to the west of the Town of Pincher Creek. The treatment provided at the facility consists of coagulation, flocculation, clarification and dual media filtration. Disinfection is provided by chlorination. Prior to distribution, fluoride is added to the treated water.
- **Distribution:** High lift pumps at the treatment facility provide water to the distribution within the Town. There is one treated water reservoir within the distribution system, as well as one booster station.

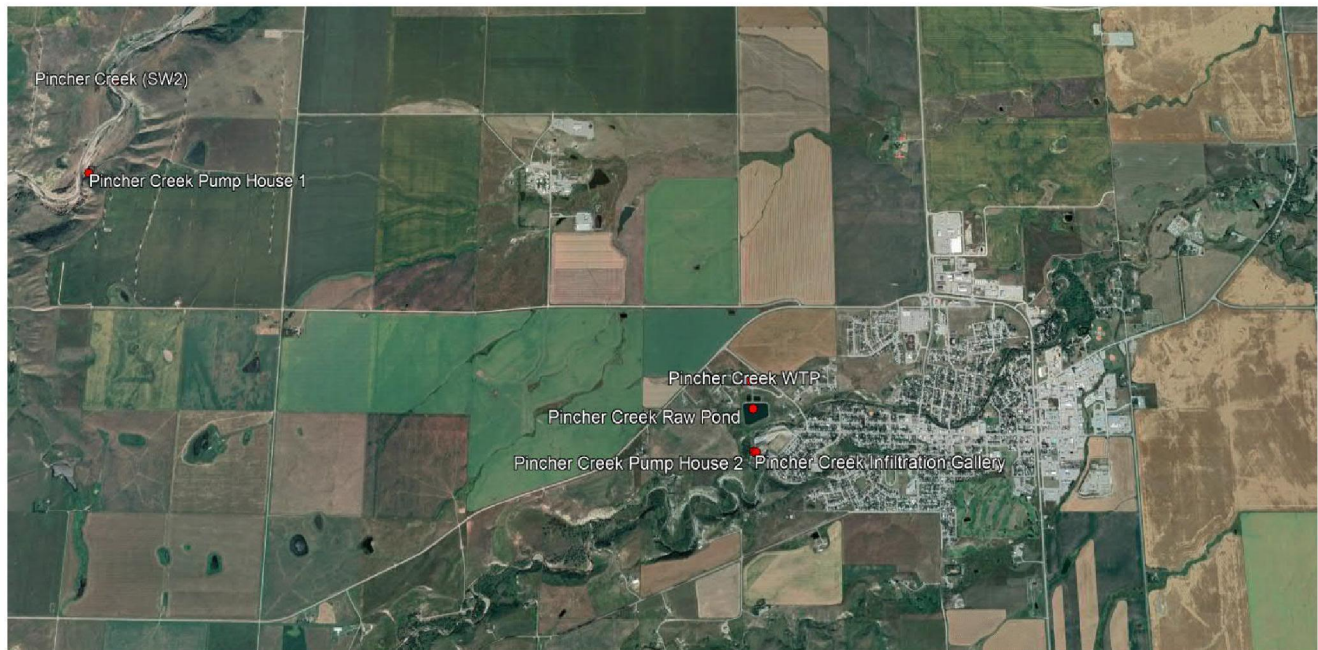
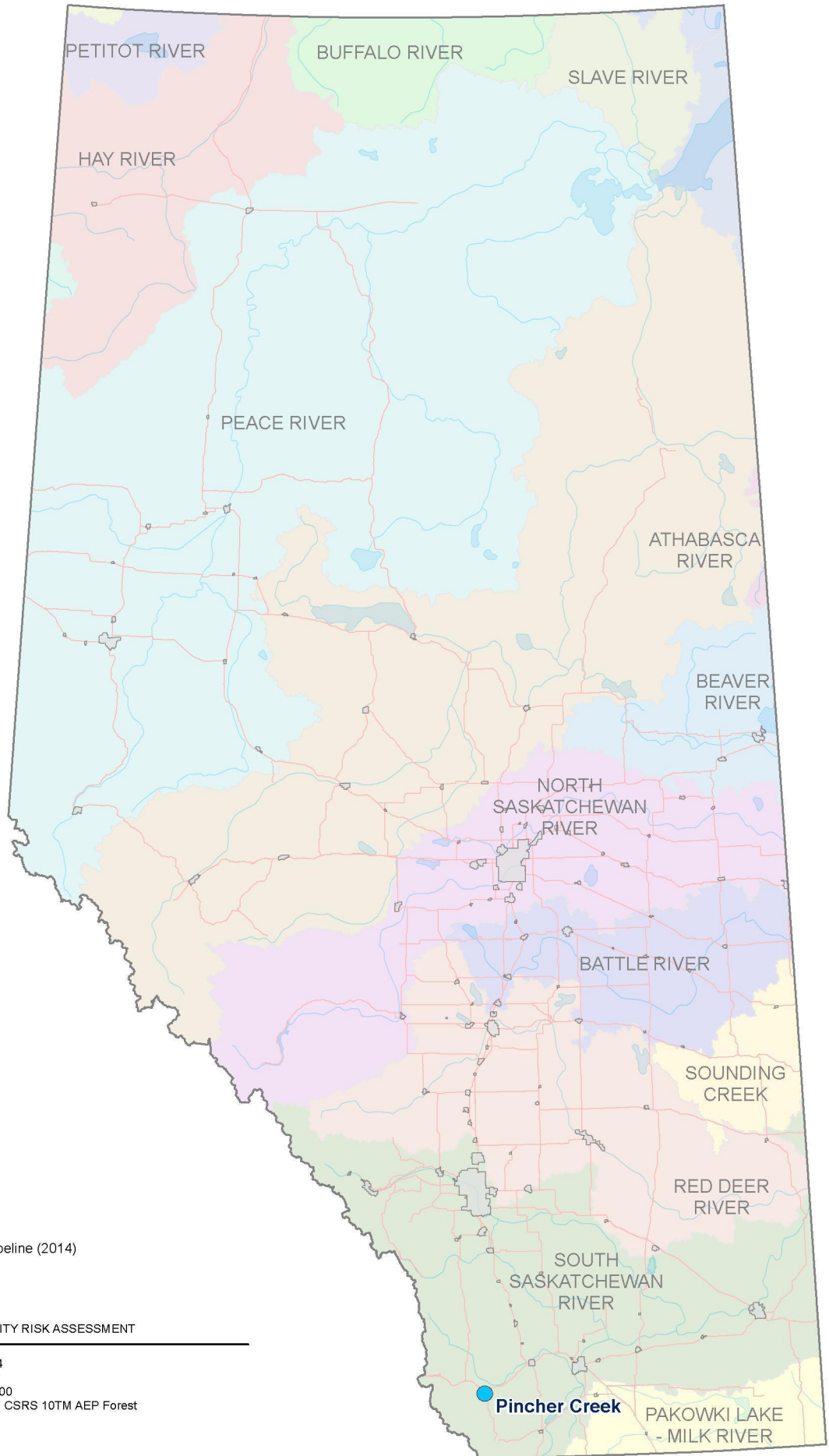


Figure 2-1
Pincher Creek Waterworks System Facility
(Aerial View Adapted from Google Earth)



- Facility
- Existing Regional Pipeline (2014)

FIGURE 2-2
FACILITY LOCATION
 ALBERTA INNOVATES
 DRINKING WATER VULNERABILITY RISK ASSESSMENT

AE PROJECT No.	2018-3184
DATE	2020 May
SCALE	1: 5,000,000
COORD. SYSTEM	NAD 1983 CSRS 10TM AEP Forest
DESCRIPTION	FINAL

3 METHODOLOGY OVERVIEW

The main components of this VRA are:

- A climate assessment;
- A facility assessment; and
- Combined risk assessment.

The facility assessment was performed to evaluate each facility's capacity to manage the impacts of high and low stream flows of historical magnitude (i.e., without factoring in future climate change). This high-level assessment included a review of the drinking water facility information from the following sources:

- Alberta Waterworks Facility Assessment Study (AE 2004; AE 2016);
- Drinking Water Safety Plans; and
- Survey of the drinking water system operators through a questionnaire.

The facility questionnaire for the Pincher Creek Waterworks System was completed on December 19, 2018, by the Director of Operations. The questionnaire responses are included in [Appendix B](#). The questionnaire contained 42 questions about the facility's history, flood and drought readiness, infrastructure, physical attributes, and chemical processes. Three categories of facility infrastructure were evaluated separately:

- **Source** category included quality, reliability, and sustainability of the raw water source; as well as physical attributes, condition and history of the intake, wells, raw water pumphouse, and raw water reservoirs.
- **Treatment** category included water treatment facility and treatment processes in use, as well as the facility's historical ability to meet water quality standards.
- **Distribution** category included distribution infrastructure, such as booster stations and treated water reservoirs.

The facility assessment did not include a site visit by AE. The possible outcomes of the facility assessment are listed in [Table 3-1](#).

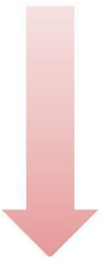
The climate assessment was performed to understand how potential future climate changes may impact high and low streamflow near drinking water facilities. The assessment provides insight into whether select drinking water facilities in Alberta can reasonably expect to see an increase in high and/or low streamflow periods in the future. The assessment considered current periods of high and low stream flows to be the baseline and focused on how this baseline would change over time with climate change.

The possible outcomes of the climate assessment are measures of likelihood of the facility experiencing greater impact due to high or low streamflow periods:

- Very unlikely
- Unlikely
- About as likely as not
- Likely
- Very likely

Refer to [Table A-1](#) in [Appendix A](#) for the full description of the climate assessment outcomes.

**Table 3-1
Score Interpretation**

	Score Range	Score Interpretation
 <p>Less Vulnerable</p>	0 - 10	Facility demonstrated no or minimal vulnerability to the impacts of high/low stream flows.
	11 - 20	Facility demonstrated low vulnerability to the impacts of high/low stream flows; some gaps in future ability to manage the impacts of high/low stream flows may exist.
	21 - 30	Facility demonstrated some gaps in future ability to manage the impacts of high/low stream flows and may have experiencing some issues while coping with these events in the past.
	31 - 40	Facility demonstrated considerable gaps in future ability to manage the impacts of high/low stream flows, and likely encountered issues, and/or incurred significant costs while coping with these events in the past.
	41 - 50	Facility demonstrated critical gaps in future ability to manage the impacts of high/low stream flows. Facility may have struggled while coping with high/low stream flows in the past.
More Vulnerable		

A full picture of risk for the facility requires consideration of both the climate assessment and the facility assessment together. For example, the outcome of the climate assessment may indicate that a future increase in flood levels can be anticipated for a given facility; however, if the facility is well prepared for this water level increase, the overall risk to the facility could still be low. Alternatively, the outcome of the facility assessment may reveal the need to improve preparedness for high and low streamflow conditions; however, if the facility is not expected to see an increase in high and low stream flows according to the outcome of the climate assessment, the overall risk to the facility could also still be low.

To determine the overall risk to the facility, the two assessments, previously described, were analyzed together through the use of a risk matrix. A risk matrix is a tool used to assess the level of risk by considering both the likelihood of an event taking place, as well as the severity of the consequences due to an event taking place. In this case, the results of the climate assessment were considered as a ‘likelihood’ input into a risk assessment matrix (RAM), and the results of the facility assessment were considered as a ‘severity’ input into a RAM (refer to [Appendix A](#) for more information).

As an output, the RAM provides one of the following risk categories:

- **Low Risk:** The facility does not appear to be vulnerable to impacts of high or low streamflow periods.
- **Moderate Risk:** The facility was found to have some vulnerability to the impacts of high or low streamflow periods, whether due to anticipated watershed changes brought on by climate change, or due to the facility’s current level of preparedness. Some adaptation measures may be recommended.
- **High Risk:** The facility is vulnerable to impacts of high or low streamflow periods. Adaptation measures are recommended.
- **Critical Risk:** The facility is extremely vulnerable to impacts of high or low streamflow periods. Adaptation measures are strongly recommended. Appropriate emergency response should be developed further.

4 RESULTS

4.1 High Stream Flows

The risk of the Pincher Creek Waterworks System experiencing greater impact to high streamflow periods in the future was found to be 'Moderate' (refer to [Figure 4-1](#)), indicating some vulnerability to high stream flows.

This result was obtained by considering the outcomes of the climate assessment and the facility assessment together.

Facility Assessment Outcome The outcome of the facility assessment for the Pincher Creek Waterworks System is a set of scores listed below:

Score Category	Score – High Stream Flows
Source	28
Treatment	21
Distribution	26
Overall¹	26

¹ The overall score is a weighted average of the Source, Treatment, and Distribution scores. Refer to [Appendix A](#).

The facility assessment score can be interpreted as follows (refer to [Table 3-1](#) for detailed score interpretation):

- The Pincher Creek Waterworks Facility demonstrated some gaps in past ability to manage the impacts of high stream flows and encountered issues coping with these events in the past.
- Some gaps that have been noted in the past during high stream flow periods include damage to the raw water intake infrastructure, limited access to the intake infrastructure, and distribution system equipment malfunctions. Additional concerns include flooding of the raw water pumphouse, which does not have backup power.

Climate Assessment Outcome

The outcome of the climate change assessment for the watershed that the Pincher Creek Waterworks System is located in was found to be 'Very Unlikely' for high stream flows for RCP 2.6 and 8.5 for the near-future (2010-2034) and for RCP 8.5 for the mid-Century (2040-2064). The RCP 2.6 model for the mid-Century and the maximum potential change scenarios were found to be 'Unlikely.' As the maximum potential change scenario represents the worst-case scenario, it will be interpreted further as follows:

- Some deterioration of water quality is anticipated, but likely within manageable limits.
- Limited (non-critical) change to channel or bank erosion is possible.
- Stream flows are not anticipated to result in more facility damage than historic high stream flows.

Overall Vulnerability to High Stream Flows

The overall vulnerability to future periods of high stream flows was determined to be 'Moderate' (refer to [Figure 4-1](#)). This result can be interpreted as follows:

- The facility was found to have some vulnerability to the impacts of high streamflow periods in the future. In this case, the identified vulnerability comes from both expected watershed changes, due to climate change and gaps in the facility's flood readiness. Some adaptation measures are recommended.

More information on the evaluation criteria and score interpretation can be found in [Appendix A](#).

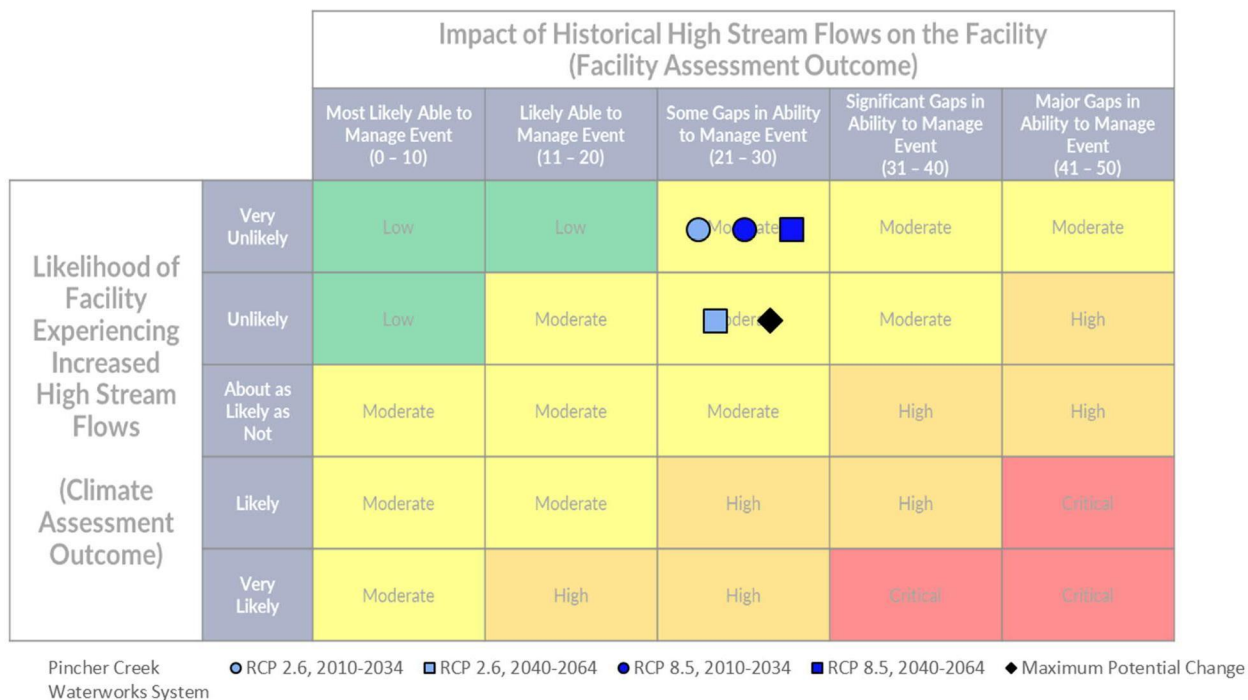


Figure 4-1
Risk Assessment Matrix – High Stream Flows

Where:

- **RCP 2.6, 2010-2034** represents the facility’s vulnerability to high stream flows in the near future and in a ‘best case’ climate change scenario. This climate change scenario is associated with considerable and potentially unrealistic reductions in emissions within the next few decades.
- **RCP 2.6, 2040-2064** represents the facility’s vulnerability to high stream flows in the mid-Century and in a ‘best case’ climate change scenario.
- **RCP 8.5, 2010-2034** represents the facility’s vulnerability to high stream flows in the near future and in a more severe climate change scenario. This climate change scenario is associated with continued increases in emissions throughout the 21st Century.
- **RCP 8.5, 2040-2064** represents the facility’s vulnerability to high stream flows in the mid-Century and in the more severe climate change scenario.
- **Maximum Potential Change** represents the facility’s maximum potential vulnerability to high stream flows across both sets of years and both climate change scenarios.
- **Likelihood of Facility Experiencing Greater Impact due to High Stream Flows** is the outcome of the climate assessment, performed specifically for the watershed this facility is located in, and according to a metric of 1-in-100 year maximum annual 1-day streamflow (Q₁₀₀). This metric can be interpreted as the highest daily-scale flows that have a 1% chance of occurring per year (refer to [Appendix A](#) for more information).
- **Impact of High Stream Flows on the Facility** axis is the outcome of the facility assessment.

4.2 Low Stream Flows

The risk of the Pincher Creek Waterworks System experiencing greater impact to low streamflow periods in the future was found to be 'Moderate' (refer to [Figure 4-2](#)), indicating some vulnerability to future low streamflow conditions.

This result was obtained by considering the outcomes of the climate assessment and the facility assessment together.

Facility Assessment Outcome The outcome of the facility assessment for the Pincher Creek Waterworks System is a set of scores listed below:

Score Category	Score – Low Stream Flows
Source	31
Treatment	28
Distribution	N/A ¹
Overall²	30

¹ The vulnerabilities of the distribution system to the impacts of low stream flows were considered minor and were not assessed.

² The overall score is a weighted average of the Source and Treatment scores. Refer to [Appendix A](#).

The facility assessment score should be interpreted as follows (refer to [Table 3-1](#) for detailed score interpretation):

- The Pincher Creek Waterworks System demonstrated some gaps in past ability to manage the impacts of low stream flows and encountered issues coping with these events in the past.
- A concern that has been noted in the past during low stream flow periods includes the exposure of the raw water intake. It was also noted that a previous low flow period lasted for months. Based on the duration, the limited raw water storage (3 to 6 months) may be insufficient.

Climate Assessment Outcome The outcome of the climate change assessment for the watershed that the Pincher Creek Waterworks System is located in was found to be 'Very Unlikely' for low streamflow periods, in all climate change scenarios and future years examined. This outcome was interpreted as follows:

- No anticipated change to water quality.
- No impact to water availability for withdrawal or storage.
- In this case, there is not a significant difference in projected stream flow levels between the RCP climate change scenarios.

Overall Vulnerability to Low Stream-Flows The overall vulnerability to future periods of low stream flows was determined to be 'Moderate' (refer to [Figure 4-2](#)). This result can be interpreted as follows:

- The facility was found to have some vulnerability to impacts of future low flow periods. In this case, the identified vulnerability comes mainly from the facility's current level of low stream flow readiness (refer to above). Some adaptation measures are recommended.

More information on the evaluation criteria and score interpretation can be found in [Appendix A](#).

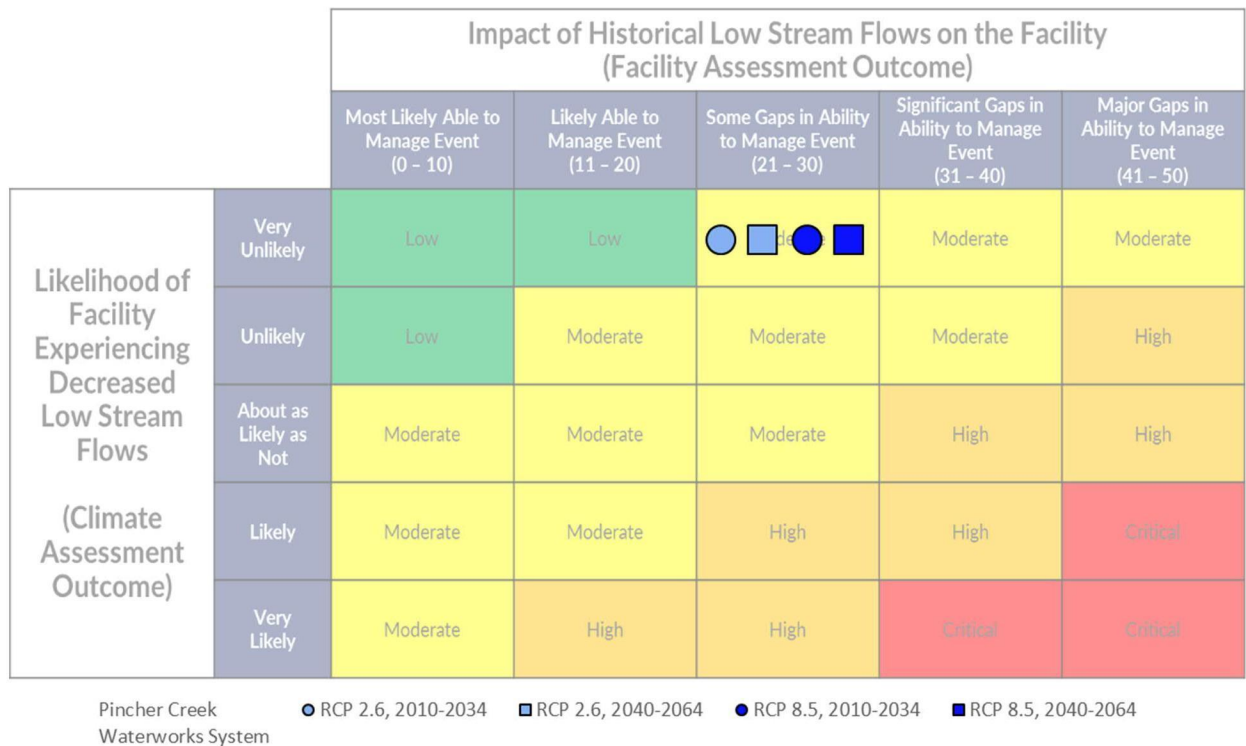


Figure 4-2
Risk Assessment Matrix – Low Stream Flows

Where:

- **RCP 2.6, 2010-2034** represents the facility’s vulnerability to low streamflow periods in the near future and in a ‘best case’ climate change scenario. This climate change scenario is associated with considerable and potentially unrealistic reductions in emissions within the next few decades.
- **RCP 2.6, 2040-2064** represents the facility’s vulnerability to low streamflow periods in the mid-Century and in a ‘best case’ climate change scenario.
- **RCP 8.5, 2010-2034** represents the facility’s vulnerability to low streamflow periods in the near future and in a more severe climate change scenario. This climate change scenario is associated with continued increases in emissions throughout the 21st Century.
- **RCP 8.5, 2040-2064** represents the facility’s vulnerability to low streamflow periods in the mid-Century and in the more severe climate change scenario.
- **Likelihood of Facility Experiencing Greater Impact due to Low Stream Flows** is the outcome of the climate assessment, performed specifically for the watershed this facility is located in, and based on the 7 day, 1-in-10 year minimum winter streamflow. This metric was chosen due to the fact that the facility has no raw water storage and pumps raw water throughout the year.
- **Impact of Low Stream Flows on the Facility** axis is the outcome of the facility assessment.

5 REGIONAL COMPARISON

The majority of the facilities located in the South Saskatchewan River Basin are considered at 'Moderate' or 'High' risk (refer to **Figure 5-1**) due to the anticipated watershed changes in the future, which will be brought on by climate change, as well as gaps in the facilities' current level of flood preparedness. The VRA outcome for the Pincher Creek Waterworks System is consistent with the other facilities in the South Saskatchewan River Basin.

The majority of the studied facilities located in the South Saskatchewan River Basin are at 'Moderate' risk to low stream flows, primarily due to their degree of drought readiness, and not as a result of anticipated decrease in low flows brought on by climate change (refer to **Figure 5-2**). The VRA outcome for the Pincher Creek Waterworks System is consistent with the other facilities in the South Saskatchewan River Basin.

As a general rule, provincial drinking water facilities should, by default, expect to brace for more extreme high water conditions. This is mainly related to higher snow and rain accumulations in mid-winter that will add to peak spring and early-summer runoff flows, but also individual extreme storm events, which are also expected to become more common place as a result of climate change.

While the predominant trend towards intensified high flow conditions holds for most facility locations, there are some exceptions with distinct spatial patterns. In particular, facilities in the northern third of the province and facilities in the far south-east are most likely not to follow the predominant trend, and potentially experience decreased high flow conditions.



Legend:

- Low Vulnerability
- Moderate Vulnerability
- High Vulnerability
- Critical Vulnerability

**FIGURE 5-1
VULNERABILITY RISK ASSESSMENT OF THE
FACILITIES IN THE SOUTH SASKATCHEWAN RIVER BASIN
OUTCOME FOR FLOODS**

ALBERTA INNOVATES
DRINKING WATER VULNERABILITY RISK ASSESSMENT

AE PROJECT No. 2018-3184
 DATE 2020 May
 SCALE 1: 5,000,000
 COORD. SYSTEM NAD 1983 CSRS 10TM AEP Forest
 DESCRIPTION FINAL



Legend:

- Low Vulnerability
- Moderate Vulnerability
- High Vulnerability

**FIGURE 5-2
VULNERABILITY RISK ASSESSMENT OF THE
FACILITIES IN THE SOUTH SASKATCHEWAN RIVER BASIN
OUTCOME FOR LOW FLOW PERIODS**

ALBERTA INNOVATES
DRINKING WATER VULNERABILITY RISK ASSESSMENT

AE PROJECT No. 2018-3184
DATE 2020 May
SCALE 1: 5,000,000
COORD. SYSTEM NAD 1983 CSRS 10TM AEP Forest
DESCRIPTION FINAL

6 ADAPTATION CONSIDERATIONS

The Pincher Creek Waterworks System may experience greater impacts in the future from high stream flows, as a result of both expected watershed changes due to climate change and gaps in the facility's flood readiness. The recommended adaptation measures for this facility, therefore, center around improving flood readiness in general:

- Updating the Drinking Water Safety Plan on an annual basis.
- Update the Flood Readiness Plan on an annual basis.

In addition, facility-specific adaptation measures may include:

- Complete a detailed flood risk assessment for the raw water intake and pumphouse facilities to better understand the potential impact of more severe floods due to climate change. This should be completed prior to any additional major capital reinvestment at the facility.
- Procuring a backup power supply for the raw water pumphouse.

The Pincher Creek Waterworks System is anticipated to experience greater impacts due to periods of low flows in the future, primarily as a result of the facility's drought readiness. The recommended adaptation measures for this facility, include:

- Considering modifications to the river inlet and sediment management to reduce risk of exposure during low stream flow events.
- Investigation of additional raw water storage to ensure sufficient water quantity year round.
- Updating the Drought Readiness Plan on an annual basis.

As better data, models, and techniques emerge from the research realm, the findings of the climate assessment performed as part of this project should be revisited and updated, as required. One way to enable better data at a facility level is to increase facility-specific hydrometric measurements and monitoring efforts. This data enables the development of facility-specific stage discharge curves and allow the output from hydrological models (such as SWAT) to be integrated into local-scale facility climate vulnerability and risk assessment exercises.

The existing Government of Alberta Pincher Creek monitoring station (Pincher Creek at Pincher Creek, 05AA004) may be relied on for this purpose. Data from this monitoring station can be obtained from the publicly accessible Alberta River Bains website (AEP, 2019). Alternatively, the facility may choose to install a level gauge in the immediate vicinity of the raw water intake. In this case, the facility should ensure that the data from the gauge is captured in SCADA for improved monitoring and projection of high and low stream flow events.

As there is not an existing Government of Alberta Castle River monitoring station near the intake, it is recommended to install a gauge in the vicinity of the Castle River and ensure data from the gauge is captured in the SCADA for improved monitoring and projection of high- and low-flow events.

7 CONCLUSIONS

The vulnerability risk assessment produced the following outcomes for the Pincher Creek Waterworks System:

- The facility exhibits moderate vulnerability to impacts of high stream flows in the future due to both expected watershed changes due to climate change and gaps in the facility's flood readiness. Adaptation measures are recommended.
- The facility exhibits moderate vulnerability to impacts of low stream flows in the future, mainly as a result of the gaps in the facility's drought readiness and not due to the anticipated watershed changes due to climate change. Adaptation measures are recommended.

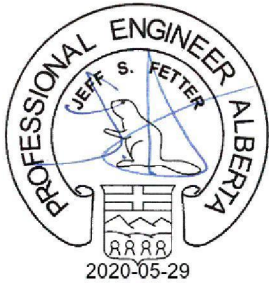
Consider adaptation measures listed in [Section 6](#) to improve facility resiliency as part of the regular facility Drinking Water Safety Plan and Capital Plan updates.

CLOSURE

This report was prepared for Alberta Innovates and Alberta Environment and Parks to present the results of the vulnerability risk assessment for the Pincher Creek Waterworks System.

The services provided by Associated Engineering Alberta Ltd. in the preparation of this report were conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty expressed or implied is made.

Respectfully submitted,
Associated Engineering Alberta Ltd.

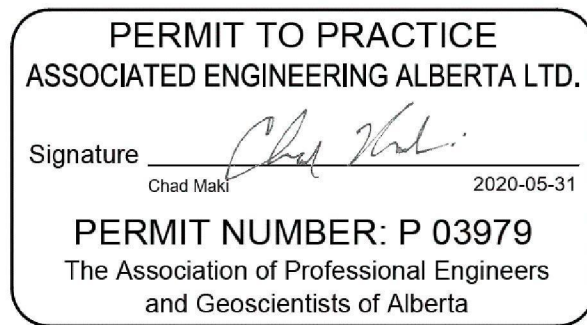


Jeff Fetter, P.Eng.
Project Manager

A handwritten signature in black ink that reads "Jeremy Fyke".

2020/05/29

Jeremy Fyke, Ph.D.
Climate Specialist



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APPENDIX A – METHODOLOGY & EVALUATION CRITERIA

Climate Assessment

Streamflow Simulations

To arrive at facility-specific estimates of future change, a collaboration between AE and the University of Alberta's Watershed Modelling Laboratory (UA WSML) was formed. The UA WSML provided simulations of historical and future streamflow conditions in Alberta, using the Soil and Water Assessment Tool (SWAT) hydrological model. The SWAT model is open source¹ and is widely used worldwide by academics and government analysts (TAMU, 2018). UA WSML, with the support of Alberta Innovates, applied SWAT at a provincial scale to quantify impacts to the Alberta water resources (Faramarzi et al, 2015).

The SWAT model simulation exercise provided a large database of data, with individual 21-year continuous daily records of simulated streamflow for each sub-basin related to the drinking water facilities of interest.

SWAT model simulations were undertaken for:

- Two future time periods - 'near future' 2010-2034 and 'mid-Century' 2040-2064.
- Two greenhouse gas emission scenarios - Representative Concentration Pathways (RCP 2.6 and 8.5):
 - RCP 2.6 represents a 'best case' climate change scenario associated with considerable and potentially unrealistic reductions in emissions within the next few decades, and
 - RCP 8.5 represents a more severe climate change scenario associated with continued increases in emissions throughout the 21st Century.
- Output from five different global climate models. These models (CanESM2, CCSM4, MIROC5, CNRM-CM5 and MRI-CGCM3) were developed by national climate modelling and analysis centres in Canada, the United States, Japan, and France. They are all widely accepted climate models, as demonstrated by their participation in the internationally-coordinated World Climate Research Program Coupled Model Inter-comparison Project 5 (WCRP CMIP5 2011).

Relevant Climate Change Metrics

A key aspect of any climate change assessment is the identification of climate change metrics that are most relevant to the system(s) in question. Drinking water facilities are naturally most vulnerable to extreme excesses of water, and extreme lack of water supply. AE identified the following key metrics of high- and low-flow for further analysis:

- High-flow: A metric of 1-in-100 year maximum annual 1-day streamflow (hereafter termed Q_{100}) was chosen to represent facility-relevant high-flow conditions. Most simply, Q_{100} magnitudes can be interpreted as the highest daily-scale flows that have a 1% chance of occurring per year.
- Low-flow: Several metrics were chosen to represent potential low flow conditions: 1-in-10 year minimum summer-centered (May-October), winter-centered (November-April) and annual 10, 90, and 180-day stream flows (e.g., 9 low-flow metrics, [7/90/180]Q10[S/W/A]). These low flow metrics were motivated by the diversity of Alberta's drinking water facility storage capacities and modes of winter/summer operation.

¹ Open source means the underlying model code is free to download and use. It is not proprietary or commercial in nature.

Once these streamflow values were obtained, relative future changes, termed the 'delta' of change, were calculated for low and high flow metrics as:

$$D = (Q_{100\text{future}} - Q_{100\text{historical}}) / Q_{100\text{historical}} * 100$$

where the delta (D) presents a percentage change in the magnitude of each high and low flow metric. For example, a $D_{Q_{100}}$ value of +10% indicates that the magnitude of streamflow associated with 1-in-100 year daily annual maximum streamflow (a measure of flooding) will increase by 10%.

Integration of Analysis

The delta values were analyzed in the context of streamflow records from nearby Water Survey of Canada (WSC) stations. For the Pincher Creek Waterworks System, data from the WSC Station Numbers 05AA004 and 05AA022, located on Pincher Creek at Pincher Creek and on Castle River, near Beaver Mines, respectively, were used in the analysis.

Established stage-discharge curves were obtained from WSC for stations located closest to drinking water facilities. The delta values obtained from SWAT simulation analysis were applied to the resultant high and low streamflow indices to determine the likelihood of each facility experiencing a greater impact due to high or low streamflow periods, according to the evaluation criteria presented in **Table A-1**.

The overview of methodology for the climate assessment is presented in **Figure A-1**, with key challenges highlighted in blue circles.

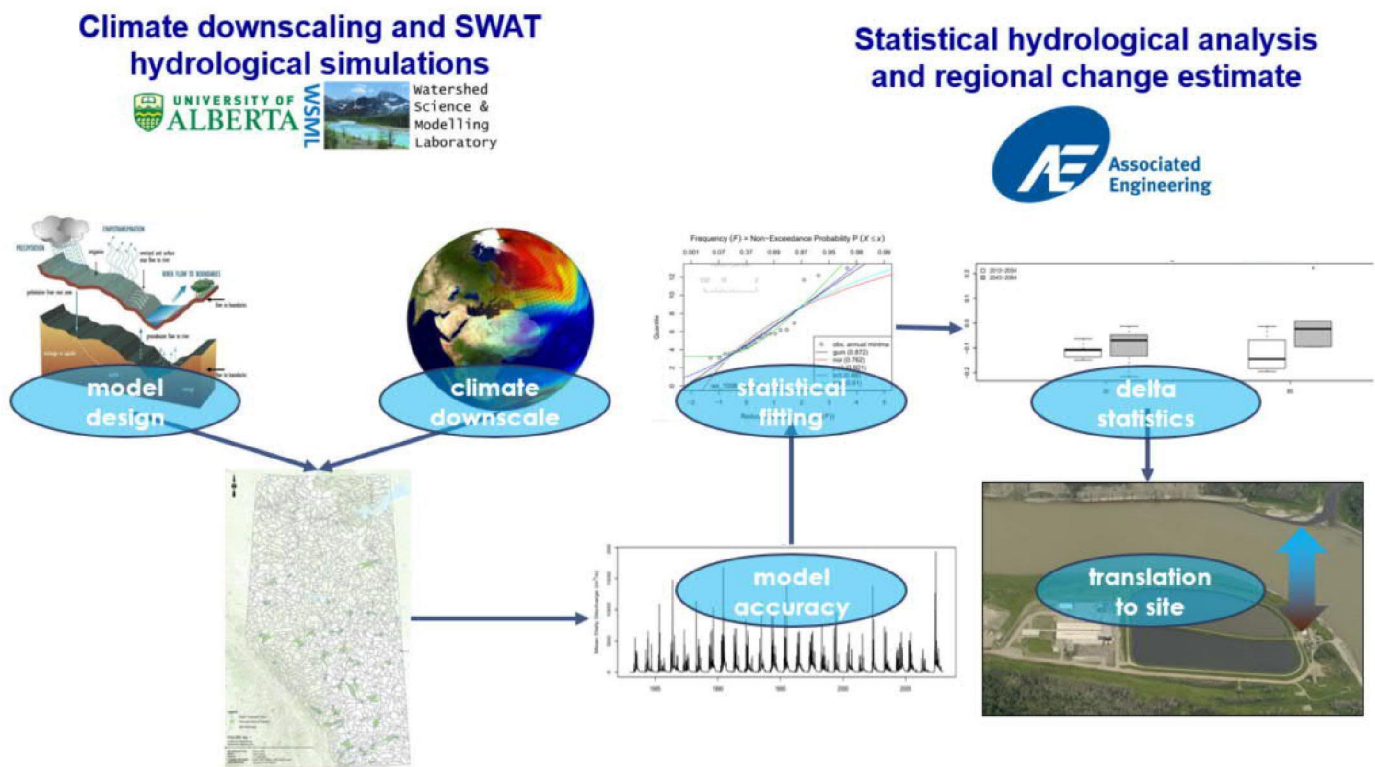


Figure A-1
Climate Assessment Methodology Overview

**Table A-1
Climate Assessment Evaluation Criteria**

Likelihood of Greater Impact at Facility Level	High Stream Flows	Low Stream Flows	Delta Value Guide
VERY UNLIKELY	No anticipated change to water quality. Stream flows are not anticipated to result in more damage to the facility than historic stream flows.	No anticipated change to water quality. No impact to water availability for withdrawal or storage.	< 10%
UNLIKELY	No significant anticipated change to water quality.	Some deterioration of water quality is anticipated.	< 33%
	Stream flows are not anticipated to result in more facility damage than historic stream flows.	Potentially minor impact to water availability for withdrawal is anticipated, the impact is manageable within storage capabilities.	
ABOUT AS LIKELY AS NOT	Water quality deterioration that will challenge treatment processes is anticipated.	Some deterioration of water quality is anticipated, but likely within manageable limits.	33-66%
	Potential risk for facility damage beyond historic levels is anticipated. Damage may require emergency measures and maintenance.	Impact to water withdrawal availability that may challenge storage capabilities is anticipated. Some water conservation initiatives may be required.	
LIKELY	Water quality deterioration that will challenge treatment processes and may require emergency measures is anticipated.	Water quality deterioration may occur that will challenge treatment processes.	66-100%
	Likely risk for facility damage beyond historic levels, that would require emergency measures, maintenance and potential reconstruction.	Impact to water withdrawal availability that will likely deplete storage capabilities is anticipated.	
		Widespread water conservation initiatives will be required.	
VERY LIKELY	Water quality deterioration that will challenge treatment processes and may long-term require emergency measures is anticipated.	Water quality deterioration that will challenge treatment processes is anticipated.	> 90%
	Very likely risk for catastrophic facility damage beyond historic levels that would require emergency measures and reconstruction.	Likely loss of supply water withdrawal availability and depleted storage capabilities. Will require severe water conservation initiatives and consideration of alternate supply.	

Facility Assessment

This assessment examined how facilities have managed extreme weather events in the past. In the absence of facility history, the assessment examined how well each facility appears to be equipped to face extreme weather events.

In total, 48 facilities participated in this project. The 48 facilities were selected to represent a large proportion of the regulated drinking water facilities in the Province of Alberta, based on population served. Large urban centres were omitted from this project, as they typically have access to existing information of a similar nature.

To facilitate understanding of the facility’s resilience to high and low streamflow events, three categories of facility infrastructure were evaluated separately:

- **Source** category included quality, reliability, and sustainability of the raw water source; as well as physical attributes, condition and history of the intake, wells, raw water pumphouse, and raw water reservoirs.
- **Treatment** category included water treatment facility and treatment processes in use, as well as the facility’s historical ability to meet water quality standards.
- **Distribution** category included distribution infrastructure, such as booster stations and treated water reservoirs.

Ranking criteria were developed for each category, separately for high and low stream flows, and based on engineering judgement of the severity of responses. The ranking criteria are included in [Table A-2](#).

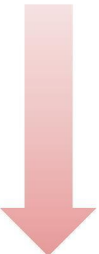
Table A-2
Facility Assessment Evaluation Criteria

Infrastructure Category	Items Considered	Maximum Score (Points)
Source	Historical response to previous high/low stream flows (if any) from the point of view of raw water infrastructure	22
	Condition of the groundwater wells OR Condition of the intake, raw water pumphouse, riverbank	18
	Physical characteristics of the system, such as proximity of raw water infrastructure to the nearest body of water	10
Treatment	Historical response to previous high/low stream flows (if any) from the point of view of water treatment infrastructure	16
	Resiliency of the treatment system	24
	Physical characteristics of the system, such as proximity of treatment infrastructure to the nearest body of water	10
Distribution	Historical response to previous high/low stream flows (if any) from the point of view of the distribution infrastructure	16
	Physical characteristics of the system, such as proximity of distribution infrastructure to undesirable geographical features and nearest body of water	34

The overall facility score for both high and low stream flows was calculated from a maximum of 50 points. To calculate the overall score for high stream flows, source, treatment, and distribution scores were weighed as follows: source was weighed as twice as vulnerable to stream flow changes when compared to treatment, and treatment was weighed as twice as vulnerable when compared to distribution. As such, the weighing for source, treatment, and distribution was 57.2%, 28.6% and 14.3%, respectively. To calculate the overall score for low stream flows, source was weighed as twice as vulnerable to stream flow changes when compared to treatment. The distribution system was not assessed for low stream flows. Therefore, weightings for source and treatment were 66.6% and 33.3%, respectively.

A low score is indicative of a system that has experienced high or low stream flows but was able to manage the impacts of these events without notable issues, while a higher score was indicative of a system that may have struggled to cope with the impacts of high or low stream flows in the past. **Table A-3** provides interpretations of various scores.

Table A-3
Score Interpretation

	Score Range	Score Interpretation
 <p>Less Vulnerable</p>	0 - 10	Facility demonstrated no or minimal vulnerability to the impacts of high/low stream flows.
	11 - 20	Facility demonstrated low vulnerability to the impacts of high/low stream flows; some gaps in future ability to manage the impacts of high/low stream flows may exist.
	21 - 30	Facility demonstrated some gaps in future ability to manage the impacts of high/low stream flows and may have experiencing some issues while coping with these events in the past.
	31 - 40	Facility demonstrated considerable gaps in future ability to manage the impacts of high/low stream flows, and likely encountered issues, and/or incurred significant costs while coping with these events in the past.
	41 - 50	Facility demonstrated critical gaps in future ability to manage the impacts of high/low stream flows. Facility may have struggled while coping with high/low stream flows in the past.
More Vulnerable		

Risk Assessment Methodology

A risk matrix was employed to determine the overall vulnerability of the waterworks facility to the impacts of high and low streamflow periods in the future. A risk matrix is a tool used to assess the level of risk by considering both the likelihood of an event taking place, as well as the severity of the consequences due to an event taking place.

In this case, the results of the climate assessment were considered as a ‘likelihood’ input into a risk assessment matrix (RAM), and the results of the facility assessment were considered as a ‘severity’ input into a RAM (refer to **Figure A-2**). These results were plotted for both climate changes scenarios (RCP 2.6 and RCP 8.5), for the near future (2020-2034) and into the mid-Century (2040-2064).

In total, four values were plotted on each RAM for high and low streamflow:

- Overall risk for years 2010-2034, climate scenario RCP 2.6 (‘best case’ climate change scenario associated with considerable and potentially unrealistic reductions in emissions within the next few decades).
- Overall risk for years 2010-2034, climate scenario RCP 8.5 (more severe climate change scenario associated with continued increases in emissions throughout the 21st Century).
- Overall risk for years 2040-2064, climate scenario RCP 2.6.
- Overall risk for years 2040-2064, climate scenario RCP 8.5.

In addition, a fifth value was plotted on the RAM for high stream flows:

- Maximum potential change, across all years and climate scenarios.

The plotted values for high streamflow were based on Q₁₀₀ values, and the plotted values for low streamflow were based on summer, winter, or annual, 7-, 90- or 180-day Q₁₀, depending on when the facility pumps water, and its raw water storage capacity.

As an output, the RAM provides one of the following risk categories:

- **Low Risk:** The facility does not appear to be vulnerable to impacts of high or low streamflow periods.
- **Moderate Risk:** The facility was found to have some vulnerability to the impacts of high or low streamflow periods, whether due to anticipated watershed changes brought on by climate change, or due to the facility's current level of preparedness. Some adaptation measures may be recommended.
- **High Risk:** The facility is vulnerable to impacts of high or low streamflow periods. Adaptation measures are recommended.
- **Critical Risk:** The facility is extremely vulnerable to impacts of high or low streamflow periods. Adaptation measures are strongly recommended. Appropriate emergency response should be developed further.

		Impact of High or Low Stream Flows on the Facility (Facility Assessment Outcome)				
		Most Likely Able to Manage Event (0 - 10)	Likely Able to Manage Event (11 - 20)	Some Gaps in Ability to Manage Event (21 - 30)	Significant Gaps in Ability to Manage Event (31 - 40)	Major Gaps in Ability to Manage Event (41 - 50)
Likelihood of Facility Experiencing Greater Impacts Due to High or Low Stream Flows (Climate Assessment Outcome)	Very Unlikely	Low	Low	Moderate	Moderate	Moderate
	Unlikely	Low	Moderate	Moderate	Moderate	High
	About as Likely as Not	Moderate	Moderate	Moderate	High	High
	Likely	Moderate	Moderate	High	High	Critical
	Very Likely	Moderate	High	High	Critical	Critical

Figure A-2
Risk Assessment Matrix

APPENDIX B – FACILITY QUESTIONNAIRE RESPONSES

#44

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, December 19, 2018 12:22:04 PM
Last Modified: Wednesday, December 19, 2018 12:43:18 PM
Time Spent: 00:21:14
IP Address: 209.206.118.5

Page 1: Overview

Q1 Please provide your information below:

Name	Al Roth
Title	Director of Operations
Water Treatment Plant Name/Location	1100 Beaver Dr.
Email	ops@pinchercreek.ca
Phone Number	4036273156

Q2 Have the following documents been previously prepared for your facility?

Drinking Water Safety Plan (DWSP) ,
Flood readiness plan,
Drought readiness plan

Q3 Are there any existing measures in place to address potential floods and/or droughts?

Yes (please specify):
 Operational procedures to protect the potable water infrastructure

Q4 In your opinion, could floods or droughts impact your facility enough to cause the following:

Actual illness or potential long-term health effects or interruption for a period >48 hrs

Page 2: History - Floods

Q5 Has your community experienced a major flood in the past 25 years? **Yes**

Page 3: History - Floods

Q6 What was the nature of the flood? **Don't know**

Q7 Was the intake impacted by the flood? **Yes - Flood limited access to the intake infrastructure**

Q8 Was the treatment system impacted by the flood? **No**

Q9 Was the distribution system impacted by the flood? **No**

Q10 Were repairs required at your facility as a result of the flood? **No**

Page 4: History - Flood Damage

Q11 What was the cost of repairs? **Respondent skipped this question**

Page 5: History - Droughts

Q12 Has your community experienced a major drought in the past 25 years? **Yes**

Page 6: History - Droughts

Q13 Was the intake, treatment or distribution system impacted by the drought? **No**

Q14 How long did the impacts of the drought on your facility last? **Months**

Page 7: Water Source

Q15 Does your facility rely on surface water or groundwater? **Surface water**

Page 8: Groundwater Well Infrastructure

Q16 Has the groundwater quality ever been affected by heavy rain or flood? **Respondent skipped this question**

Q17 Have the groundwater wells ever been affected by a drought or dry periods? **Respondent skipped this question**

Q18 What is the age of the wells? **Respondent skipped this question**

Q19 What is the condition of the wells? **Respondent skipped this question**

Page 9: Raw Water Intake

Q20 What is the name of the surface water source?

Pincher Creek and Castle river we have 2 source surface water

Q21 What type of intake does your facility have? **Submerged - River**

Q22 Has the intake been exposed due to low water levels in the past 25 years? **Yes**

Page 10: Raw Water Pump House

Q23 Is the Raw Water Pump House situated on a bank or a berm near the water source? **No**

Q24 If yes, have there been issues with or concerns about bank stability in the past? **No**

Q25 In the event of a major flood, would the Raw Water Pump House be at risk of flooding? **Yes**

Q26 Does the Raw Water Pump House have backup power? **No**

Page 11: Raw Water Pump House - Backup Power

Q27 Is the backup power likely to be impacted in the event of a flood? **Respondent skipped this question**

Page 12: Pre-Treatment

Q28 What pre-treatment processes does your facility have? Check all that apply. **Raw water storage reservoir(s)**

Page 13: Raw Water Storage

Q29 Based on current water use, how many days of raw water storage do you have? **3 to 6 months**

Q30 Check all months during which the Raw Water Reservoirs are filled:

January,
February,
March,
April,
May,
June,
July,
August,
September,
October,
November,
December

Page 14: Water Treatment Plant

Q31 What is the average treated water production in m³/day?

3000

Q32 What is the peak treated water production in m³/day?

5000

Q33 Please check off all treatment stages currently in use at your facility:

Clarification/sedimentation,
Clarification/sedimentation and rapid sand filtration ,
Ultraviolet Disinfection

Q34 What chemicals are currently used by the facility as part of the treatment process?

Aluminum Sulfate,
Chlorine Gas,
Fluoride

Q35 Have you experienced difficulty procuring chemicals or with chemical delivery to site? **No, there have been no issues**

Q36 Does the Water Treatment Plant have backup power? **Yes**

Page 15: Water Treatment Plant - Backup Power

Q37 Is the backup power likely to be impacted in the event of a flood? **No**

Page 16: Water Treatment Plant (continued)

Q38 Does the Water Treatment Plant have a backup supply of fuel? **Yes - Diesel**

Q39 Is there a dam upstream of the Water Treatment Plant? **No**

Page 17: Water Treatment Plant - Upstream Dam

Q40 In the event of an unexpected release from the upstream dam, will your facility be able to operate as normal? **Respondent skipped this question**

Page 18: Distribution

Q41 Describe the location of the Treated Water Reservoirs by checking all that apply: **Onsite,**
Address, LSD or GPS
coordinates::
49.486975,-113.968953

Q42 Describe the location of the Booster Station(s) by checking all that apply: **At a higher elevation than the Water Treatment Plant ,**
Address, LSD or GPS
coordinates::
49,481284-113.963242

TOWN OF PINCHER CREEK

REQUEST FOR DECISION

Council

SUBJECT: Property Tax Arrears Recovery - Public Auction	
PRESENTED BY: Gus Kollee, Legislative Service Manager	DATE OF MEETING: 10/26/2020

PURPOSE:

To garner Town Council approval to schedule the public auction date, time and place for the parcels of lands that may be offered for sale to recover the tax arrears.

RECOMMENDATION:

That Council for the Town of Pincher Creek approve the tax arrears recovery Public Auction date as follows:

Date: January 21, 2021

Time: 10:00 a.m.

Place: 962 St.John Ave.Town Hall in Council Chamber Pincher Creek , Alberta T0K 1W0

BACKGROUND/HISTORY:

As set out the Municipal Government Act s.411 and s.418 the municipality may attempt to recover tax arrears in respect of a parcel of land and start an action to sell the parcel at a public auction.

Currently there is one (1) parcel that may have to go forward to a public auction and thus require a scheduled date, time and place approved by Town Council accordingly.

In addition, the Municipal Government Act s.419 provides that council must establish a reserve bid that is as close as reasonable to the market value of each parcel. TAXervice has recommended to schedule the public auction for sometime in January 2021. However, we do not require the market values until a later date.

ALTERNATIVES:

1.) That Council for the Town of Pincher Creek receive the request to schedule a tax arrears recovery public auction date as information.

2.) That Council for the Town of Pincher Creek direct administration to bring back the request to schedule the tax arrears recovery public auction to the next regular Council meeting.

IMPLICATIONS/SUPPORT OF PAST STUDIES OR PLANS:

The date, time and place to hold a public auction must be approved by Town Council.

FINANCIAL IMPLICATIONS:

The tax arrears recovery is revenue neutral as all associated cost is at the taxpayers expense.

PUBLIC RELATIONS IMPLICATIONS:

None at this time.

ATTACHMENTS:

None at this time.

CONCLUSION/SUMMARY:

Administration supports that Town Council approve the date, time and place for the tax arrears recovery public auction.

Signatures:

Department Head:

August Kellee

CAO:

Laurie Wilgosh





**Town of Pincher Creek
COUNCIL DISTRIBUTION LIST
October 26, 2020**

<u>Item No.</u>	<u>Date</u>	<u>Received From</u>	<u>Information</u>
1.	October 9, 2020	Bev Thornton, AlbertaSW	AlbertaSW Bulletin and Approved Minutes
2.	October 9, 2020	ORRSC Administration	Approved August 13, 2020 Executive Committee Meeting Minutes - FOR INFORMATION
3.	October 13, 2020	Oldman River Health Advisory Council	Join the Oldman River Health Advisory Council for conversations on healthcare topics in the South Zone
4.	October 9, 2020	Parks Canada - Waterton Lakes National Park	Fall Construction Update
5.	October 13, 2020	MacEwan University	Upcoming MacEwan Seminar on Lobbying Government
6.	October 13, 2020	BLOOM Centre for Municipal Education	Webinar Curriculum and Course Schedule
7.	October 14, 2020	Citizen	One big improvement in Pincher Creek this past year
8.	October 15, 2020	Parks Canada - Waterton Lakes National Park	Fire Information - Fuel Reduction and Fire Guard Preparation in Waterton Lakes National Park
9.	October 15, 2020	Citizen	Letter
10.	October 15, 2020	Tree Canada	We need trees!
11.	October 19, 2020	Gary Sandberg, Assistant Deputy Minister	2019 Municipal Indicators
12.	October 21, 2020	Oldman Watershed Council	Oldman Watershed Council Newsletter October 21, 2020
13.	October 21, 2020	Alberta Seniors & Housing	Newsletter - Alberta Seniors and Housing
14.	October 22, 2020	Dan Rude, AUMA	Fall 2020 Quarterly Update from Alberta Police Interim Advisory Board