

THE CORPORATION OF THE DISTRICT OF KENT

A REGULAR MEETING of the Council of the District of Kent in Council Chambers, Municipal Hall, Agassiz, BC on Monday, May 8, 2023 at 7:00 p.m.

AGENDA

1 Call to Order

We acknowledge that we are on the Stó:lō traditional territory with our neighbours of Cheam First Nation, Seabird Island and with the independent communities of Sts'ailes and Sq'éwlets First Nation.

Tonight's meeting is also available to live stream on Microsoft Teams. If you have a question about an item on tonight's agenda, please submit your question by email directly to the Director of Corporate Services at clee@kentbc.ca prior to Item 13, Question Period. Thank you.

2 Introduction of Late Items or Supplemental Agenda

3 Approval of Agenda

- RECOMMEND THAT the Agenda for the Regular meeting of May 8, 2023 be approved.
- RECOMMEND THAT all items set to the Agenda for the Regular meeting of May 8, 2023 be received for information.

4 Adoption of Minutes

- 9-12 **4.1** Special Meeting of April 24, 2023
- 13-21 **4.2** Regular Meeting of April 24, 2023

- 5 Business Arising from Minutes
- 6 **Delegations** (Requests to address Council)
- 7 Committee Reports
- 8 Council Reports
- 8.1 Councillor D. Post
- **8.2** Councillor K. Schwichtenberg
- 8.3 Councillor S. Spaeti
- **8.4** Councillor S. Watchorn
- 8.5 Mayor S. Pranger
- 23-24 **8.5.1** Request from the Kent-Harrison Joint Emergency Program Committee
 - Report dated April 26, 2023 recommending that Council considers approving the following recommendation from the Kent-Harrison Joint Emergency Program Committee:

THAT the Kent-Harrison Joint Emergency Program Committee (KHJEPC) recommends that each respective Council, District of Kent and Village of Harrison Hot Springs, considers approving the addition of Tourism Harrison River Valley to the KHJEPC for the purpose of assisting the local governments with communicating to the tourism operators and visitors.

- 25-26 **8.5.2** Lets'emot Regional Aquatic Centre Fundraising Committee *Appointment*
 - Report dated May 3, 2023 recommending the Council considers approving the appointment of Ms. Gail Guimont to the Lets'emot Regional Aquatic Centre.

9 Staff Reports - "A"

9.1 Orthophotos – *Work Authorization*

 Staff Report dated April 27, 2023 recommending that Council considers approving the Work Authorization with McElhanney Ltd. to acquire new air photos over the District of Kent at a cost of up to \$19,400 plus GST.

29-30 **9.2** Accessibility Advisory Select Committee – *Appointments*

- Staff Report dated April 28, 2023 recommending that Council considers appointing the following individuals to the Accessibility Advisory Select Committee:
 - 1. Trustee Wendy Clark, Fraser-Cascade School District #78
 - 2. Ms. Anne Todd, Fraser Health
 - 3. Mr. Darcy Striker, Agassiz-Harrison Community Services
 - 4. Ms. Michelle Kuipers, Member at Large
 - 5. Ms. Reta Buchanan, Member at Large

31-35 **9.3** Canada Day 2023

 Staff Report dated May 3, 2023 recommending that Council considers attending the Canada Day event, with the Mayor providing a welcome, and Council serving Canada Cupcakes at the Welcome booth; and

THAT Council considers approving the closure of Pioneer Avenue from Park Street to the parking lot of the Agassiz-Harrison Museum, as well as the parking lot located between the Aberdeen and the Broken Whisk for Canada Day, July 1, 2023 from 7:00 a.m. – 2:00 p.m.

37-77 9.4 Agassiz Water System SCADA & Electrical Upgrades Project

Staff Report dated May 3, 2023 recommending that Council
authorize staff to accept the quotation and proceed with the
proposed work plan submitted by Wynker Electric and Controls Ltd.
for the recommended SCADA and controls upgrades on the Agassiz
Water System identified as part of the previous SCADA and
Electrical Upgrades Assessment Project.

79-83 **9.5** 2023 Sidewalk Concrete Work Improvements

 Staff Report dated May 2, 2023 recommending that Council approves the sole sourcing of the 2023 sidewalk concrete work to Contour Concrete in the amount of \$44,698 (excluding tax).

- 9.6 <u>Staff Reports "B"</u> (For Information)
- 9.6.1 Item to be released to the Public Agenda from the In Camera Meeting held on April 12, 2023
- 87-91 9.6.2 FoodCycler Pilot Program Update
- 93-99 **9.6.3** Agassiz Fire Department *April 2023*
- 101-105 **9.6.4** Development Services Report April 2023
- 107-110 **9.6.5** Recreation / Culture *April 2023*
- 111-112 9.6.6 Public Works Services Update April 2023

10 Bylaws/Permits

- 113-116 **10.1** Bylaw No. 1716 2023 Annual Tax Rates
 - RECOMMEND THAT Bylaw No. 1716 be adopted.
- 117-146 **10.2** Bylaw No. 1717 Fees and Charges
 - Staff Report dated April 28, 2023 introducing the bylaw cited as "Fees and Charges Bylaw No. 1717, 2023".
 - RECOMMEND THAT Bylaw No. 1717 be given first reading.
 - RECOMMEND THAT Bylaw No. 1717 be given second reading.
 - RECOMMEND THAT Bylaw No. 171 be given third reading.

11 Correspondence – "A"

11.1 Email sent April 24, 2023 from Ann Davis Transition Society – Invitation to Women's Equity and the Link to Femicides in BC, in honour of Victims and Survivors of Crime Week Conference on May 16, 2023 at the University of the Fraser Valley's Gathering Place in Chilliwack from 11:30 a.m. – 1:30 p.m. (RVSP by Monday, May 8, 2023)

Email sent April 24, 2023 from Lower Fraser Fisheries Alliance – Invitation to the Lower Fraser Floodplains Forum on June 9, 2023 at the The'i:tseliya - S.A.Y. Health & Community Centre from 8:30 a.m. – 4:00 p.m.

- 11.3 <u>Correspondence "B"</u> (Identify specific correspondence for discussion)
- 155-160 **11.3.1** Letter dated April 20, 2023 from the Fraser Valley Health Care Foundation Thank You for Your Support in Helping Improve Health Care in the Fraser Valley East

161-211 **11.3.2** Letter dated April 24, 2023 from the Minister of Emergency Management and Climate Readiness in response to the District's letters dated March 10, 2023 and March 17, 2023 – *Disaster Financial Flood Relief*

213 **11.3.3** Letter dated April 26, 2023 from the Ministry of Public Safety and Solicitor General – Lower Mainland District IHIT Retroactive Pay Liability

215 **11.3.4** Letter dated May 2, 2023 from the Ministry of Post-Secondary Education and Future Skills – *StrongerBC: Future Ready Action Plan*

- 217-226 **11.3.5** Letter dated May 1, 2023 from Enbridge Westcoast Energy Inc. Proposed Projects Sunrise Expansion Program (Open House: Wednesday, May 24, 2023 at the Agricultural Hall)
 - 11.4 <u>Correspondence "C"</u> (Previously distributed)
 - 11.5 <u>Correspondence "D"</u> (Reading basket material)
 - 11.5.1 BC Children's Hospital Foundation "Shine" Spring 2023
 - 11.5.2 New Holland Insider Spring 2023
 - 12 New Business/Other Business

13 <u>Question Period</u> (pertaining to agenda only)

Notice of Special In Camera Meeting(s) of Council (If required)

 Motion to Exclude the Public and move In Camera under the Community Charter, pursuant to Sections 90(1) (c), (e), (g), and (k) related to labour, land, legal, and proposed service delivery matters.

15 Adjournment



THE CORPORATION OF THE DISTRICT OF KENT

A SPECIAL MEETING

of the Council of the District of Kent in Council Chambers, Municipal Hall, Agassiz, BC on Monday, April 24, 2023 at 6:30 p.m. 4.1

MINUTES

Present:

Elected Personnel

Mayor S. Pranger Councillor D. Post'

Councillor K. Schwichtenberg

Councillor S. Spaeti Councillor S. Watchorn

Appointed Personnel

Mr. W. Mah, Chief Administrative Officer (CAO)

Ms. C. Lee, Director of Corporate Services.

Ms. L. Beaulieu, Acting Director of Development Services

Mr. M. Rankin, Director of Engineering

Mr. J. Mothus, Director of Public Works

Mr. M. Veenbaas, Director of Financial Services

Ms. C. Price, Deputy Director of Financial Services

Mr. S. Gormley, Assistant Manager of Community Services & Projects

Mr. R. Reyerse, IT / GIS Technician

Ms. H. Joe, Committee and Records Clerk (Recording Secretary)

Public

Sean Reid, Engagement Partner, KPMG Adam Louis

1 Call to Order

Mayor Pranger called the meeting to order at 6:30 p.m. and acknowledged that we are on the Stó:lō traditional territory with our neighbours of Cheam First Nation, Seabird Island and with the independent communities of Sts'ailes and Sq'éwlets First Nation.

Tonight's meeting is currently available via live stream on Microsoft Teams. If you have a question about an item on tonight's agenda, please submit your question by email directly to the Director of Corporate Services at clee@kentbc.ca prior to Item 6, Question Period. Thank you.

2 Introduction of Late Items and Supplemental Agenda

3 Approval of Agenda

SPAETI / WATCHORN

THAT the Agenda for the Special Meeting of April 24, 2023 be approved; and

THAT all items set to the Agenda for the Special Meeting of April 24, 2023 be received for information.

CARRIED R2023-115

4 Audit Presentation by Mr. Sean Reid and Ms. Arianna Castonguay of KPMG LLP

Mayor Pranger welcomed Mr. Reid.

Mr. Reid passed regrets from his colleague, Ms. Castonguay as she was sick and thanked Council for the opportunity to present the Audit Findings Report, the Consolidated Financial Statements and the Consolidated Cemetery Care Trust Fund Financial Statements for the year ended December 31, 2022.

The following headings were reviewed:

- 1. Highlights
- 2. Audit Findings
- 3. Significant Accounting Policies and Practices
- 4. Control Observations and Review of Security Deposits
- 5. Appendices

In response to Councillor Watchorn, Mr. Reid and the Director of Financial Services explained the following:

- KMPG's thought leadership and insights are about Environmental, Social and Governance (ESG) and refers to an organization's strategy to build long term financial sustainability and create value. ESG includes a wide range of non-financial scoring categories, used by investors to assess the impact of a company's business practices on sustainability and social causes. It is becoming mandatory for big public companies, and if District needs help, resources can be provided.
- On Appendix 6: Financial Statement Trend Analysis, the Total Capital Asset (TCA) should be taken with a grain of salt due to the limited data (back to 2011). Even though it is declining, it is difficult to assess without 100 years of data. Every municipality that KMPG provides audit services for are dealing with the same situation.
- The capital plan's significant project is the Regional Aquatic Centre (RAC). At the time
 the capital plan was created, there was no timeline on the RAC, so the funds that were
 expected to be spent in 2022, didn't occur until 2023.

Councillor Watchorn thanked staff for managing the budget and thanked Mr. Reid for the review.

Mayor Pranger thanked Mr. Reid for his audit presentation and enquired whether KMPG provides corporate donations.

Mr. Reid advised that they have to be careful with donations to clients, to ensure KMPG continues to be independent.

WATCHORN / SCHWICHTENBERG

THAT the District of Kent's Audit Findings Report and the Consolidated Financial Statements for the year ended December 31, 2022 be approved.

CARRIED R2023-116

5 New Business/Other Business

6 Question Period

In response to Mayor Pranger, the Director of Corporate Services stated that no questions were received via email prior to Question Period.

7 Notice of Special In Camera Meeting(s) of Council

8 Adjournment

WATCHORN / SPAETI THAT the meeting adjourn at 6:49 p.m.

Clair Lee, Director of Corporate Services

CARRIED R2023-117

,	CERTIFIED CORRECT:
Mayor S. Pranger	W. Mah, Chief Administrative Officer
CERTIFIED A TRUE & CORRECT COPY of the Minutes of the Special Meeting held on Monday, April 24, 2023 at 6:30 p.m. in Council Chambers, Municipal Hall, Agassiz, BC	



THE CORPORATION OF THE DISTRICT OF KENT

A REGULAR MEETING of the Council of the District of Kent in Council Chambers, Municipal Hall, Agassiz, BC on Monday, April 24, 2023 at 7:00 p.m.

4.2

MINUTES

Present:

Elected Personnel

Mayor S. Pranger Councillor D. Post Councillor S. Spaeti Councillor S. Watchorn Councillor K. Schwichtenberg

Appointed Personnel

Mr. W. Mah, Chief Administrative Officer (CAO)

Ms. C. Lee, Director of Corporate Services

Ms. L. Beaulieu, Acting Director of Development Services

Ms. C. Price, Deputy Director of Financial Services

Mr. J. Mothus, Director of Public Works

Mr. G. Basten, Fire Chief

Mr. S. Gormley, Assistant Manager of Community Services & Projects

Mr. R. Reyerse, IT / GIS Technician

Ms. H. Joe, Committee and Records Clerk (Recording Secretary)

Public

Adam Louis

1 Call to Order

Mayor Pranger called the meeting to order at 7:00 p.m.

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2 Introduction of Late Items and Supplemental Agenda

3 Approval of Agenda

SPAETI / WATCHORN

THAT the Agenda for the Regular meeting of April 24, 2023 be approved; and

THAT all items set to the Agenda for the Regular meeting of April 24, 2023 be received for information.

CARRIED R2023-119

4 Adoption of Minutes

4.1 Public Hearing of April 12, 2023

SCHWICHTENBERG / POST

THAT the minutes of the Public Hearing of April 12, 2023 be adopted.

CARRIED R2023-120

4.2 Regular Meeting of April 12, 2023

WATCHORN / SPAETI

THAT the minutes of the Regular Meeting of April 12, 2023 be adopted.

CARRIED R2023-121

- 5 Business Arising from Minutes
- 6 Delegations
- 7 Committee Reports

8 Council Reports

8.1 Councillor D. Post

On April 19, attended the Kent-Harrison Joint Emergency Program Committee meeting.

On April 22, welcomed Mayor Pranger at the Chilliwack Coliseum, where she finished her 26 km Walk the Talk for Lets'emot event. Congratulations to Mayor Pranger on completing the walk and raising awareness and money for the Regional Aquatic Centre.

8.2 Councillor K. Schwichtenberg

On April 15 and 16, attended the first Chilliwack Rotary Climate Fair at the Landing Sports Centre. The event was organized and sponsored by the Chilliwack Rotary Club. It was an exceptional event that included a trade show, job fair and amazing speakers. Hopefully some of the speakers can find the time to speak to Council as a delegation in the future.

On April 22, participated in the Mayor's Walk the Talk for Lets'emot by walking with her across the Agassiz-Rosedale Bridge, then met her at the finish line in Chilliwack. Congratulations Mayor Pranger.

8.3 Councillor S. Spaeti

On April 18, attended the Harrison-Agassiz Chamber of Commerce meeting. There will be a business social event in the upcoming month, I will provide an update once I have more information.

On April 20, chaired the Agassiz-Harrison Healthy Communities Committee meeting. Agassiz-Harrison Community Services has reignited their Senior Lunch program. This happens on the first Tuesday of the every month. There were 50 people who attended the last lunch. The next lunch is on Tuesday, May 2, 2023 at the Legion from 11:30 a.m.-1:00 p.m..

On April 22, along with Councillors Post and Schwichtenberg, supported Mayor Pranger on her walk. It was amazing to see so many supporters at the start and finish lines. Congratulations Mayor Pranger.

8.4 Councillor S. Watchorn

No report.

8.5 Mayor S. Pranger

On April 13, attended the Fraser Valley Regional District (FVRD) Regional and Corporate Services Committee meeting.

On April 19, attended the Kent-Harrison Joint Emergency Program Committee meeting. This meeting is beneficial as it keeps everyone updated on issues in case of an emergency.

On April 22, celebrated Earth Day by walking from the District of Kent Municipal Hall to the Landing Leisure Centre in Chilliwack, to demonstrate the need to fundraise for the Regional Aquatic Centre. The District continues to make the community walkable and safer for human powered transportation, with more trails and let downs on sidewalks.

I would like to express appreciation to the following groups who helped make the Mayor Walks the Talk for Lets'emot a success:

- The Royal Canadian Mounted Police (RCMP), Agassiz Fire Department, pilot vehicle and volunteers for making sure the Agassiz-Rosedale Bridge was safe to cross.
- Rosedale Grocery Store for allowing us to use their business as a local rest stop along the way.
- Volunteers who supported us and provided refreshments.
- Staff and Council for all your help and support.
- To all the participants who walked with me.
- Everyone who donated towards the walk and for the anonymous donation of flowers.

I want to acknowledge the 84 year-old gentleman named Tommy, who started walking 7 km before meeting at Municipal Hall. He almost made it to Chilliwack, which was an amazing accomplishment.

The District will be releasing an official total, but with pledges and donations, we raised around \$30,000. All donations received will go towards filling the pool.

The last time I completed a walk like this was almost 20 years ago to raise money for the Emergency Department renovations at Chilliwack General Hospital. There is a feeling of accomplishment to raise funds for important causes such as the Lets'emot Regional Aquatic Centre.

We were fortunate that the weather stayed beautiful on Saturday. I have so much gradituate for our community and neighbouring communities. Together we are strong.

Be safe, be kind and shop local.

Thank you.

9 Staff Reports – "A"

9.1 RFP 2023-03 Water Rescue Equipment

The Fire Chief highlighted the background and recommendation as provided in the staff report dated April 24, 2023.

WATCHORN / SPAETI

THAT RFP 2023-03 for Water Rescue Equipment be awarded to Rescue Canada Resource Group Inc. in the amount of \$25,792.33.

Prior to calling the question, the following discussion took place:

In response to Councillors Schwichtenberg and Post, the Fire Chief explained the following:

- The Agassiz Fire Department (AFD) and Kent Harrison Search and Rescue (KHSAR)
 work conjointly, but the AFD have an immediate response and are typically on scene first.
 KHSAR can take up to 30 minutes to present a team, and are on scene for the long haul.
- The AFD is paid for any incident that is outside of the municipal boundaries. The task
 number is provided to the Emergency Call Centre (ECC), then the rescue unit and crew
 are paid \$364.00 an hour. Any incidents within the District are not reimbursed.

Mayor Pranger called the question on the motion.

CARRIED R2023-122

9.2 Award of Request for Quote #2023-05 2 New ½ ton 4x4 Pickups

The Director of Public Works detailed the background and recommendation as outlined in the staff report dated April 18, 2023.

POST / WATCHORN

THAT the purchase of two Chevrolet 1500 V8 pick-up trucks supplied by TransCan Leasing Corporation in the amount of \$123,161.92 (including tax) be approved.

Prior to calling the question, the following discussion took place:

In response to Councillors Post, Watchorn and Schwichtenberg, the Director of Public Works confirmed the following:

- Before receiving the three quotes, District staff tried CivicInfo BC Bids Portal, local newspaper, and car dealerships in Hope and Chilliwack.
- Both Chevrolet 1500 V8 pick-up trucks are brand new 2023.
- The current Public Work's yard, is not set up for electric vehicles. Once Public Works moves into their new yard, that is something staff can look into.

Mayor Pranger called the question on the motion.

9.3 Staff Reports - "B"

9.3.1 Agassiz Fire Department – *March 2023*

9.3.2 Utilities and WWTP Services Update - March 2023

Councillor Watchorn pointed out that the three water connections made to the Agassiz water system including the connection to Kent Elementary school is great news, as it has been long overdue.

9.3.3 Ferny Coombe Pool Diving Board

WATCHORN / POST

THAT the diving board at the Ferny Coome Pool be replaced or repaired.

Prior to calling the question, the following discussion took place:

In response to Councillors Watchorn, Schwichtenberg and Mayor Pranger, the CAO advised that the estimated cost to replace the diving board is \$6,000, not including installation. If the diving board gets replaced, it's likely that it will not be reused at the new pool.

The Assistant Manager of Community Services and Projects explained the following in response to Councillor Watchorn's concerns:

- The first option on page 73 of the Agenda, is the most expensive one. This one would require a new diving board and bracket, which would cost more than \$6,000. Staff have been filing in the cracks for the past few years, but with the current concrete conditions, it's hard finding a contractor that is willing to do the repairs.
- Money has already been put into repairing the pool boiler to keep the pool running until the Regional Aquatic Centre is built.
- Staff continue to repair what they can, but the decision to potentially remove the diving board was not easy.

Mayor Pranger called the question on the motion.

DEFEATED
Opposed: Mayor Pranger,
Councillors Spaeti and Schwichtenberg

9.3.4 Annual Development Cost Charges Report for 2022

10 Bylaws/Permits

10.1 Bylaw No. 1434.01 – Officer and Employees Appointment Amendment

WATCHORN / POST THAT Bylaw No. 1434.01 be adopted.

CARRIED

R2023-124

10.2 Bylaw No. 1714 – Growing Communities Fund Reserve Establishment

SPAETI / SCHWICHTENBERG THAT Bylaw No. 1714 be adopted.

CARRIED

R2023-125

10.3 Bylaw No. 1716 – 2023 Annual Tax Rates

The Director of Financial Services introduced the bylaw cited as "Annual Tax Rates Bylaw No. 1716, 2023" as outlined in the staff report dated April 24, 2023.

WATCHORN / SPAETI

THAT Bylaw No. 1716 be given first reading.

CARRIED

R2023-126

SPAETI / SCHWICHTENBERG

THAT Bylaw No. 1716 be given second reading.

CARRIED

R2023-127

WATCHORN / POST

THAT Bylaw No.1716 be given third reading.

CARRIED

R2023-128

11 Correspondence – "A"

11.1 Letter dated April 12, 2023 from Kilby Heritage Society – *Invitation to Attend the Annual General Meeting and Grand Opening of the Eliza Kilby Rose Garden on May* 27, 2023

WATCHORN / POST

THAT Deputy Mayor Schwichtenberg attends the Annual General Meeting and Grand Opening of the Eliza Kilby Rose Garden on May 27, 2023.

CARRIED R2023-129

11.2 Correspondence – "B"

(Identify specific correspondence for discussion)

11.2.1 Letter dated November 25, 2022 and received April 12, 2023 from the Minister of Canadian Heritage – *Activities Involving the Participation of Russian or Belarusian State Organizations or their Official Representatives*

In response to Councillor Watchorn, the CAO advised that staff will respond to the Minister of Canadian Heritage, confirming that there is no staff involvement with Russian or Belarusian State Organizations or their Official Representatives.

11.2.2 Letter dated March 29, 2023 from Canadian Heritage – *Celebrate Canada Funding Application Approval*

In response to Councillor Spaeti, the Assistant Manager of Community Services and Projects advised that there will be a staff report coming in May, that will have information on the carnival themed Canada Day activies in Pioneer Park.

11.3 <u>Correspondence – "C"</u> (Previously distributed)

11.4 <u>Correspondence – "D"</u> (Reading basket material)

11.4.1 John Deere – "The Furrow", Spring 2023

12 New Business/Other Business

13	Question	Period

In response to Mayor Pranger, the Director of Corporate Services stated that no questions were received via email prior to Question Period.

14 Notice of Special In Camera Meeting(s) of Council (If required)

15 Adjournment

WATCHORN / POST THAT the meeting adjourn at 7:32 p.m.

CARRIED R2023-130

M	WALL Object Administrative Office
Mayor S. Pranger	W. Mah, Chief Administrative Officer

CERTIFIED CORRECT:

CERTIFIED A TRUE & CORRECT COPY of the Minutes of the Regular Meeting held on Monday, April 24, 2023 at 7:00 p.m. in Council Chambers, Municipal Hall, Agassiz, BC

Clair Lee, Director of Corporate Services



8.5.1

REPORT TO COUNCIL

DATE:

April 26, 2023

FILE:

0540-20

FROM:

Sylvia Pranger, Mayor

SUBJECT:

Request from the Kent-Harrison Joint Emergency Program Committee

RECOMMENDATION:

THAT Council considers approving the following recommendation from the Kent-Harrison Joint Emergency Program Committee:

THAT the Kent-Harrison Joint Emergency Program Committee (KHJEPC) recommends that each respective Council, District of Kent and Village of Harrison Hot Springs, considers approving the addition of Tourism Harrison River Valley to the KHJEPC for the purpose of assisting the local governments with communicating to the tourism operators and visitors.

DISCUSSION:

At the Kent-Harrison Joint Emergency Program Committee meeting held on April 19, 2023, a delegation was received from Ms. Bonnie Kent, Visitor Services Manager, Tourism Harrison River Valley.

Ms. Kent outlined that as a member of Destination BC, Tourism Harrison River Valley is required to develop an emergency plan for their organization. Their goal is to have all tourism operators working together within the same plan and procedures instead of individual businesses acting on their own during an emergency. From experience, with no plan in place, there was no properly communicated local government directive which resulted in mayhem.

For context, Ms. Kent pointed out that during the high tourist season, there may potentially be over 4,000 people (with day trippers and minors) visiting. This is concerning for Ms. Kent as she is a Harrison resident, and her family may be placed behind the tourists.

During an emergency, Tourism Harrison River Valley can use their working database of all tourism-involved businesses. With approval, they can send accurate and timely information to the right organizations. For clarification, Tourism Harrison River Valley is not looking to be part of the Emergency Operating Centre.

COCO	
Regular	Agenda Date May 8 [23
☐ In Camera	Agenda Place Report "A
Distribution of the sales of	C Other

ENVIRONMENTAL CONSIDERATIONS:

None.

BUDGETARY CONSIDERATIONS:

None.

POLICY CONSIDERATIONS:

Pursuant to "Emergency Program Bylaw No. 1064, 1994" other members may be appointed by Council to the Emergency Planning Committee.

ALTERNATIVES / OPTIONS:

1. To request further information.

Respectfully submitted for your consideration

Sylvia Pranger

Mayor



8.5.2

REPORT TO COUNCIL

DATE: May 3, 2023

FILE: 0360-01

FROM: Mayor S. Pranger

SUBJECT: Lets'emot Regional Aquatic Centre Fundraising Committee - Appointment

RECOMMENDATION:

THAT Council considers approving the appointment of Gail Guimont to the Lets'emot Regional Aquatic Centre.

BACKGROUND:

The Lets'emot Regional Aquatic Centre Fundraising Committee Terms of Reference was updated at the April 12, 2023, Council Meeting. At this meeting, Council approved the Terms of Reference to be compromised of six (6) voting members. Currently, the Lets'emot Regional Aquatic Centre Fundraising Committee only has five (5) voting members, which includes the appointed Council member.

DISCUSSION:

The current Lets'emot Regional Aquatic Centre Fundraising Committee is short one (1) member, under the new Terms of Reference. Gail Guimont, a community member from Harrison Hot Springs, has expressed interest in joining the Committee. The appointment of Ms. Guimont would provide representation from Harrison Hot Springs, something the Committee currently lacks.

Ms. Guimont has read the Terms of Reference and agreed to them. She would be a valuable addition to the Committee and a valuable replacement for previous members who have stepped down.

☐ Public Hearing ☐ Other

BUDGET CONSIDERATIONS:

The Lets'emot Regional Aquatic Centre Fundraising Committee is comprised of volunteer committee members; thus, no budget considerations are required for the appointment to the committee.

POLICY CONSIDERATIONS:

Council approval is required for the appointment of Ms. Guimont to the Lets'emot Regional Aquatic Centre Fundraising Committee.

Respectfully submitted for your consideration

Approved for submission by

Sylvia Pranger,

Mayor

Wallace Mah,

Chief Administrative Officer



9.1

REPORT TO COUNCIL

DATE:

April 27, 2023

FILE:

AGREEMENTS

FROM:

Clair Lee, Director of Corporate Services

SUBJECT:

Orthophotos – Work Authorization

RECOMMENDATION:

THAT Council considers approving the Work Authorization with McElhanney Ltd. to acquire new air photos over the District of Kent at a cost of up to \$19,400 plus GST.

BACKGROUND:

Updating the District's orthophotos and laser imaging, detection and ranging (LiDAR) data (currently 2016) was identified in the 2022 budget. However, due to varying factors, including a lack of a cost-sharing partner, the project did not proceed and was carried forward to the 2023 capital budget.

In 2016 when the orthophotos and LiDAR data were acquired, the District entered into an agreement with the Province. This partnership reduced the cost significantly, from approximately \$70,000 to \$25,000.

DISCUSSION:

Staff at the Ministry of Agriculture and Food have recently contacted the District and identified the priority of receiving current orthophotos of the District as the Ministry is updating the Agricultural Land Use Inventory. As result of this shared interest, the District submitted a proposal for grant funding for the purposes of obtaining and sharing this data. At the end of March, the District received notification that we were successful in acquiring a \$20,000 grant.

Due to the specialized nature of this work and the time constraints, set out by the grant funding, the District partnered with the Fraser Valley Regional District (FVRD) to obtain a contractor to complete the work for both organizations. FVRD staff have been leading the procurement process and received several quotes for the work. Based on the cost and ability to meet the Provincial timelines, McElhanney Ltd. is the recommended contractor. The Work Authorization provided by McElhanney to complete the air photos for the District is \$19,400 plus GST.

WYTCAO	
Regular	Agenda Date May 8/23
☐ In Camera	Agenda Place Reports 'A'
Public Hearing	

The current work is only for updating the 2016 orthophotos. LiDAR is the elevation data collected by aircraft and used in the geographic information system (GIS) visualization and analysis. To acquire new LiDAR data this year from the contractor, the cost is \$45,600 plus tax. In consultation with Engineering Services and Public Works, it was determined that the 2016 data continues to meet the District's needs. However, the next update to the orthophotos (2028) will include a request that the LiDAR data be included.

ENVIRONMENTAL CONSIDERATIONS:

The environmental impact to conduct this flight is reduced by sharing the fly time with the FVRD as well as working with the Ministry of Agriculture and Food in using the same data set.

BUDGETARY CONSIDERATIONS:

The project to update the orthophotos was identified in 2022 and then carried forward to 2023 at an estimated cost of \$75,000. As a result of partnering with the FVRD and successfully receiving Provincial grant funding, the District's cost to proceed with this project is the staff time to review the data set.

POLICY CONSIDERATIONS:

The District is partnering with the FVRD to ensure that environmental impacts are reduced and financial efficiencies are maximized.

Pursuant to Purchasing Policy FIN 2008-01 and based on the specialized nature of the work as well as the deadlines set out by the grant funders, staff is recommending that Council consider sole sourcing the work to McElhanney Ltd. at a cost of up to \$19,400 plus GST.

ALTERNATIVES/OPTIONS:

- To request additional information.
- 2. To decline the Work Authorization from McElhanney Ltd. and direct staff to conduct the work independent of the Fraser Valley Regional District.

Respectfully submitted for your consideration

Approved for submission by

Clair Lee

Director of Corporate Services

Wallace Mah

Chief Administrative Officer



REPORT TO COUNCIL

DATE:

April 28, 2023

FILE:

0540-20

FROM:

Clair Lee, Director of Corporate Services

SUBJECT: Accessibility Advisory Select Committee – Appointments

RECOMMENDATION:

THAT Council considers appointing the following individuals to the Accessibility Advisory Select Committee:

- 1. Trustee Wendy Clark, Fraser-Cascade School District #78
- 2. Ms. Anne Todd, Fraser Health
- 3. Mr. Darcy Striker, Agassiz-Harrison Community Services
- 4. Ms. Michelle Kuipers, Member at Large
 - 5. Ms. Reta Buchanan, Member at Large

DISCUSSION:

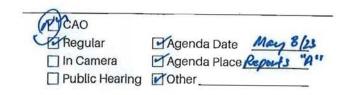
At its Regular meeting held on March 27, 2023 Council established the Accessibility Advisory Select Committee and appointed Councillor Watchorn as the Chair with Councillor Schwichtenberg as the Alternate Chair.

The Terms of Reference for the Accessibility Advisory Committee includes up to a maximum of nine voting members. The District has sent letters to the various community partners requesting a representative and advertised in the newspaper and on social media for community members interested in serving in this capacity.

Based on the positive replies received to-date, and including the District's appointed Chair, there is sufficient number of members for a quorum. The first meeting date is scheduled for Thursday, June 1 at 3:30 p.m.

ENVIRONMENTAL CONSIDERATIONS:

None.



BUDGETARY CONSIDERATIONS:

None related to these appointments.

POLICY CONSIDERATIONS:

Pursuant to Section 142 of the *Community Charter*, Council may establish and appoint a select committee to consider or enquire into any matter and to report its findings and opinions to Council.

Establishing this Committee is requirement of the Accessible British Columbia Act and Regulation.

ALTERNATIVES/OPTIONS:

1. To refer back to staff for more information.

Respectfully submitted for your consideration

Approved for submission by

Clair Lee

Director of Corporate Services

Wallace Mah,

Chief Administrative Officer



9.3

REPORT TO COUNCIL

DATE: May 3, 2023

FILE: 8100-20

FROM: Kurt Houlden, Director of Recreation / Culture & Projects

PREPARED BY: Skylar Gormley, Assistant Manager of Recreation / Culture & Projects

SUBJECT: Canada Day 2023

RECOMMENDATION:

THAT Council considers attending the Canada Day event, with the Mayor providing a welcome, and Council serving Canada Cupcakes at the Welcome booth;

AND THAT Council considers approving the closure of Pioneer Avenue from Park Street to the parking lot of the Agassiz Harrison Museum, as well as the parking lot located between the Aberdeen and the Broken Whisk, for Canada Day, July 1, 2023, from 7:00 am -2:00 pm.

DISCUSSION:

Kent's Canada Day celebrations are scheduled for July 1, 2023, from 9:00 am – 1:00 pm, with this year's theme of Carnival.. The event will officially kick off in the parking lot beside the Aberdeen with the pancake breakfast, held by the Agassiz Harrison Aquanauts. The Aberdeen parking lot will also be the location for the bike decorating, and the marshaling area for the parade. At 10:00 am, the parade, led by the Legion Colour Guard, will begin marching to the flag poles located in Pioneer Park.

After the parade has come to a halt, we will have the singing of O' Canada, and a welcome from the Mayor. After this welcome, the event will officially kick-off. The Welcome booth will open, where Canada themed cupcakes provided by Cabin Fever Junction will be handed out by participating council members. Activities throughout the park will officially be open for participation. These activities include:

- Live Performance by Ben Cottrill;
- Roaming magic show by Magic Guy Gary Savard;
- Live demonstration from Triumph Acrobactics;

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- Four (4) family-friendly inflatables;
- Free cotton candy;
- Free caricatures from an artist on site;
- Carnival games with prizes;
- Children's craft table;
- Food trucks;
- Emergency vehicle displays;
- Information booths.

To execute a fun and safe event for all participants, staff are proposing closing Pioneer Avenue, from Park Street to the parking lot of the Museum, as well as closing the parking lot between the Aberdeen and Broken Whisk. Attached in Appendix 'A' is a map of the street closure and the location of barricades. Parking would still be available beside Remedy RX, beside Shoppers Drug Mart, at Municipal Hall, and at the Agassiz Elementary Secondary School.

Notice of the road closure would be advertised on both District of Kent Facebook pages, Municipal Hall and Community Recreation and Cultural Centre, as well as the Agassiz Harrison Observer and District of Kent website. This closure will be scheduled to be announced on June 23, with the announcement in the newspaper scheduled for June 24. Additionally, laminated notices for closures will be posted along Pioneer Avenue on June 28, three (3) days before the event.

ENVIRONMENTAL CONSIDERATIONS:

With less parking available, it will be suggested to community members to walk to Pioneer Park to enjoy this year's event.

BUDGETARY CONSIDERATIONS:

Two (2) Public Works staff would be scheduled in the morning of the event to set up barricades, large tents, and the stage. Two (2) more Public Works staff would be scheduled to take down these items. A total of \$1,000 has been budgeted for these staffing expenses, as outlined in the budget referenced in Table 1.

Table 1: Canada Day Budget

Activities	Cost
Children Activities & Entertainment	\$7,500
Advertising / Admin Costs	\$800
Cake & Decorations	\$1,000
Equipment / Supplies	\$500
Staffing	\$1,000
Total	\$10,300
Heritage Canada Day Funding	(\$3,300)
Partners and Sponsors	(\$1,500)
District of Kent Contributions	(\$5,500)

POLICY CONSIDERATIONS:

Council approval will be required to close the north lane of Pioneer Avenue.

ATTACHMENTS:

1) Appendix 'A' - Proposed Pioneer Avenue Road Closure

Respectfully submitted for your consideration

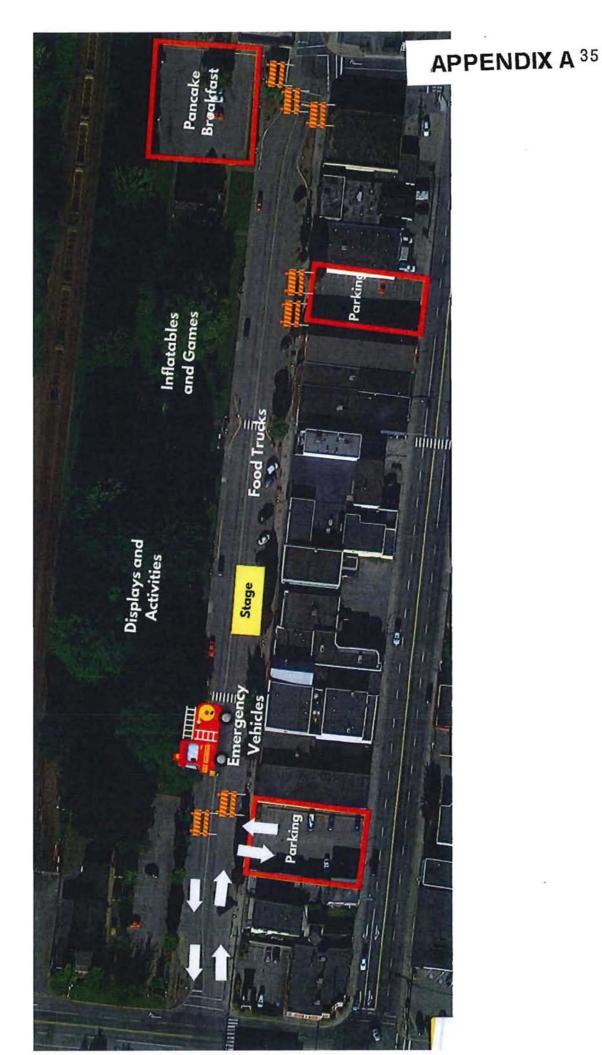
Approved for submission by

Kurt Houlden,

Director of Recreation / Culture & Projects

Wallace Mah,

Chief Administrative Officer





9.4

REPORT TO COUNCIL

DATE:

May 3, 2023

FILE: 5600-04

FROM:

Martin Rankin, Director of Engineering Services

SUBJECT: Agassiz Water System SCADA & Electrical Upgrades Project

RECOMMENDATION:

THAT Council authorize staff to accept the quotation and proceed with the proposed work plan submitted by Wynker Electric & Controls Ltd. for the recommended SCADA and controls upgrades on the Agassiz Water System identified as part of the previous SCADA & Electrical Upgrades Assessment project.

BACKGROUND:

Last December the District hired local water and wastewater electrical specialist Wynker Electric & Controls Ltd. to perform an assessment of the District's SCADA and electrical components for various sanitary and water infrastructure throughout the District at a cost of \$12,027.20. Complete details of this project are available from a prior information Report to Council titled "SCADA & Electrical Upgrades Assessment" and is included as Appendix 'B' of this report.

The field assessment of the SCADA and controls equipment was performed over the week of January 16, 2023, and was conducted by senior staff from both Wynker Electric & Controls Ltd. and their specialized SCADA and Controls subconsultant, True North Solutions. While this assessment looked at various water and wastewater infrastructure and the necessary upgrades required, District staff asked Wynker Electric to prioritize the upgrade proposal for the Agassiz Water System, as Engineering and Utilities staff identified these upgrades as the most critical to the District at this time. Following the field assessment, Wynker Electric also confirmed that the water system upgrades were the most critical at this time due to the age and condition of the components, including the fact that numerous

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components are no longer manufactured or supported in terms of maintenance and spare part availability.

DISCUSSION:

Following the field assessment investigation by Wynker Electric, True North Solutions, and District Utilities staff, Steve Wynker prepared a report outlining "critical action items" for the District's Agassiz Water System at three (3) locations. Specifically, those locations are the water production well site, the storage reservoir, and the Agassiz Wastewater Treatment Plant (which houses the District's SCADA data center and radio communications equipment). Appendix 'A' of this report contains the report prepared by Wynker Electric detailing the observations and status of each site, a summary of the critical action items, and a detailed quotation for the recommended upgrades.

The upgrades identified as "critical action items" are crucially important to being able to maintain operational controls and communications between the various components of the Agassiz Water System. For example, the storage reservoir must be able to accurately read and communicate the water level in the reservoir to then in turn send a signal to the water production wells communicating when to turn the well pumps on and off. This function is critical to maintain adequate water reserves for both domestic consumption and firefighting capabilities.

The existing SCADA and controls equipment within the system have reached the end of their service life and are generally outdated by industry standards, with several components no longer being manufactured or supported with available replacement parts. One programable logic controller identified for replacement is actually on loan to the District from the previous automations and controls contractor, Lakeside Automation (Mr. Paul Burke), and is not actually owned by the District.

The detailed quotation provided by Wynker Electric & Controls Ltd. is in the amount of \$132,579.40 and includes equipment, labour, and subcontracted services provided by True North Solutions. Much of the cost for the project lies within the physical equipment required, however the quotation also includes allowances for programming, debugging, testing, troubleshooting, and commissioning. Due to the inherent unknowns associated with the aforementioned tasks, the final project cost may be slightly reduced or increased to reflect the actual level of effort required by the team (typical for this type of work).

Staff understand that contracting Wynker Electric and True North Solutions to perform this work will be in the best interest of the District to minimize the overall cost of this project. Wynker Electric is a local, experienced electrical contractor that has performed various work throughout the District and is very familiar with the District's Agassiz Water System. If the District were to pursue additional quotations

for these services, another field review and investigation would first need to be carried out by any interested contractor to accurately reflect the level of effort and determine the required upgrades. This would be a duplication of the previous project done to identify these required upgrades. As such staff believe it to be in the best interest of the District to authorize Wynker Electric to perform the recommended upgrades in conjunction with True North Solutions.

Should this work be awarded as recommended, and pursuant to a successful project, the District would then benefit from utilizing True North Solutions as the District's main SCADA and controls consultant/contractor going forward. The District's previous consultant used for these services has dissolved their company and no longer offers these services. By utilizing a single consultant for this work, the benefit to the District would be reduced troubleshooting time and reduced level of efforts in the future, resulting in cost savings to the District.

BUDGETARY CONSIDERATIONS:

This project is not identified in the District's 2023 Capital Budget, however sufficient funding is available in the District's Water Reserve budget.

POLICY CONSIDERATIONS:

When sole-sourcing is in the District's best interest, Council is to be notified by way of report as per the District's Purchasing Policy (*Purchasing FIN 2008-01*).

Respectfully submitted for your consideration

Approved for submission by

Martin Rankin,

Director of Engineering Services

Wallace Mah,

Chief Administrative Officer



District of Kent Controls & SCADA upgrades

March 10, 2023

Contact Information:

Wynker Electric and Controls

Contact: Steve Wynker Email: steve@wynkerelectric.com Phone: 604-703-5340

OWNER: District of Kent Martin Rankin mrankin@kentbc.ca Director of Engineering Services Municipal Hall: (604) 796-2235

Office: (604) 491-0983

Fax: (604) 491-0987



District of Kent Controls & SCADA upgrades

Table of Contents

- SITE INVESTIGATION REPORT
- DETAILED QUOTE FOR PROPOSED UPGRADES
- PROPOSED HARDWARE BROCHURES
 - o MODICON M340 BROCHURE
 - o GE MDS ORDIT DATA RADIO BROCHURE
 - o SIEMENS FLOWMETER BROCHURE
 - KELLER LEVEL TRANSMITTER BROCHURE



District of Kent Controls & SCADA upgrades

Site Investigation Report - Part 1 of 3

Production Well Site & Water Storage Reservoir Site

March 10, 2023

Contact Information:

Wynker Electric and Controls

Contact: Steve Wynker Email: steve@wynkerelectric.com Phone: 604-703-5340

District of Kent Martin Rankin mrankin@kentbc.ca Director of Engineering Services Municipal Hall: (604) 796-2235

Office: (604) 491-0983

Fax: (604) 491-0987

Introduction

Throughout the week of January 16th 2023 technicians from Wynker Electric & Controls and a control system engineer from True North Solutions (Calgary) carried out site investigations at all of the District of Kent Water and Wastewater pumpstations and treatment plants.

Wynker Electric & Controls is an Agassiz based company specializing in municipal water and wasterwater electrical & control systems throught BC, Yukon, and Northwest Territory. Their services range from new construction, renovations and upgrades to troubleshooting, repairs, and maintenance. The WEC team is experienced with the control technologies, instrumentation used in water & wastewater and understand the water & wastewater processes.

True North is Wynker Electric's prefered automation partner for complex system upgrades and have worked together on multiple projects in the past. True North hosts a team of highly experienced automation, communication, and IT system technicians and engineers.

During the site investigations sufficient pictures, notes, and documentation were recorded in order to assist in engineering and designing necessary upgrades to the control & SCADA systems.

Backups of most of the PLC programs and SCADA software configurations were obtained. A meeting was also held with the Districts former SCADA and PLC Programmer to discuss and understand the software and communications structure of the existing SCADA and control systems.

This report is being released in 3 parts due to complexity and time constraints, the most urgent recommendations are covered in this part 1 which covers the Production Water Well Site and Water Storage reservoir site that have some critical defficiencies that need to be addressed as soon as possible.

Part 2 will address the liftstation sites, items at Harrison Highlands, and the water system at Rockwell Drive.

Part 3 will address the Waste Water Treatment plant control system on Tranmer Rd.

Definitions

DoK = District of Kent (Agassiz)

WEC = Wynker Electric & Controls (Agassiz)

TNS = True North Solutions (Calgary)

PLC = Programmable Logic Controller - A type of control computer used in industrial processes.

VSD = Variable Speed Drive – A semiconductor based industrial control equipment used to adjust the speed of an electric motor to regulate pressure or flow from a pump.

UPS = Uninteruptable Power Supply – a backup battery that automatically provides power to equipment in case of utility power failure

SCADA = Supervisory Control and Data Acquisiton — A software that gathers realtime information from the PLCs at the sites and displays them on operator interfaces, desktop monitors or mobile devices, as well as performs alarm callouts, operator initiated control commands, and historical data storage & trending.

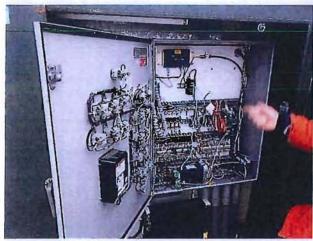
Production Wellsite

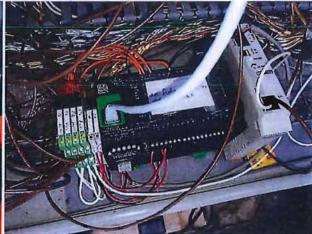
Site description and general observations:

Site consists of a 2 sided kiosk housing electrical service equipment and a PLC panel on one side and 2 large VSDs on the 2nd side that control the speed of the 2 production water wells. The Kiosk and service equipment is all aged but seems in decent shape, the VSDs are aged, the nature of their use and techology it is expected that they will require upgrading in the future and a plan should be put in place in case of failure. The PLC panel is currently very defficient and needs immediate upgrading, this panel is the unit that exchanges data with the SCADA system in order to determine wether the water wells need to turn on or off to keep adequate levels of water in the storage resevoirs; it is a very important piece of infrastructure.

PLC Panel Observations:

The controller in the PLC panel is currently installed as a temporary solution due to a failure of the original hardware sometime in early 2022, this controller is apparently on loan from the previous programmer and is not even owned by the District. Other items to note in the PLC panel are that there are no current schematic drawings for the control system, making troubleshooting much more difficult and time consuming, and the wiring inside the panel is a mess due to the modifications done when the controller was temporarily installed.





Critical Action Items:

- Replace PLC Hardware in existing PLC cabinet with current technology.
- Replace UPS battery backup with new unit sized for extended power outages.
- Clean up wiring, eliminate any un-used wiring and components.
- Create and draft As-built schematic drawings, provide electronic copy for record and hardcopy for site.

Suggested Action Items

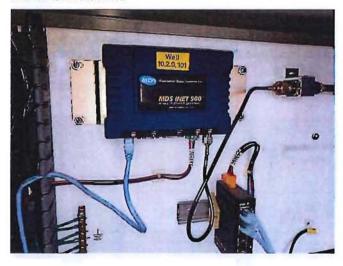
- Investigate VSD ratings further and source out suppliers that have stock or short turn around times on replacements, get
 quotes and consider purchasing a spare.
- Dust and clean out Kiosk, touch up paint rusted spots on kiosk and equipment, lube up hinges on doors and access
 panels.

Production Wellsite

Communication System Observations:

There is a 900mhz data radio installed onsite and communicating to the SCADA network via directional antenna, this segment of the network seems to be working well but it is noted that the radio model being used is now obsolete and the manufacturer is not shipping any new units, if the installed unit fails a replacement would be hard to procure in a short time. The antenna and feed cable is aged and it would not be unexpected to see failure of the cable due to water ingress in the antenna – feed cable connection point.

There is also an old hardwired multi-conductor signal cable that apparently runs underground from the Wellsite kiosk to the PLC panel at the Reservoir site; the operators reported that this cable has been severed and repaired in the past but the condition of this cable is unknown.



Critical Action Items:

- Replace Data radio Hardware in existing PLC cabinet with current technology.
- Replace surge protector, feed line, and antenna with new.
- · Provide O&M manuals and configuration setup records, electronic copy for record and hardcopy for site.

Suggested Action Items

- Keep existing radio as spare unit for other lift station sites until the rest of the radio network can be upgraded to new technology.
- · Test the condition of the old underground cable and utilize if necessary.

Production Wellsite

Field Instrumentation Observations:

Each of the production wells has a manhole chamber near the well head which contain electromagnetic flowmeters, these existing flowmeters were not rated for submergence under water and have been rendered inoperable to due being flooded by water, damaging all internal electronics. Wynker Electric crew verified the integrity of the underground conduits that run from the kiosk to these chambers in order to verify if they could be re-used for new flowmeter cabling and in order to get measurements for proposed new flowmeters, these conduits proved all OK.



Suggested Action Items:

- Replace flowmeters with new units rated for submergence, install transmitter/display units remotely in kiosk, this may
 be challenging due to the distance from the kiosk but special flowmeter "coil drive" cable is available.
- Provide O&M manuals and configuration setup records, electronic copy for record and hardcopy for site.
- · Clean sludge out of manholes and overgrowth from around manhole covers
- Install new hydrostatic water level sensors in production wells and integrate into SCADA system for historical data trending

Water Storage Reservoir Site

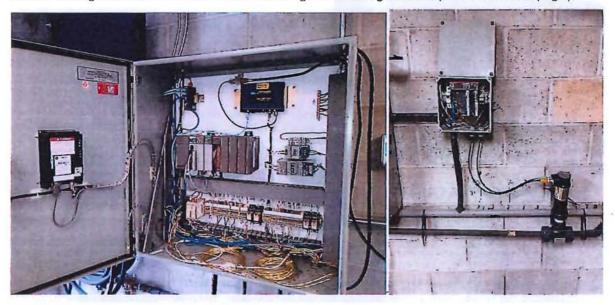
Site description and general observations:

Site consists of 2 large above ground storage reservoirs and a small cinderblock type pumphouse building housing electrical service & distribution equipment as well as PLC panel with data radio. The pumphouse has a pH analyzing instrument continuously measuring the pH of the water in the reservoirs. The reservoir tanks have ultrasonic level sensing transmitters mounted in a flange on the top of the tank roof and wired down to the PLC panel. The signals from these instruments are transmitted to the SCADA system via the PLC and Radio equipment; this is how the system knows how much water is in the tanks.

At the top of tank #1 there is also an electrical enclosure that houses a 2nd data radio and an antenna mast that directs wireless data to some of the other liftstation sites throughout town, this radio communicates back to the SCADA system via an ethernet cable installed back to the PLC panel data radio in the pumphouse.

PLC Panel Observations:

The controller in the PLC panel is an old Allen Bradley SLC5 model which was industry standard hardware for decades but is outdated and obsolete, replacement parts are only available from re-furbished and used equipment suppliers as the manufacturer does not make new components for the system anymore. There is also a 2nd more modern PLC that was installed in a very unconventional manner in a small electrical enclosure in order to transmit the signal from the pH analyzer to the SCADA system. Other items to note in the PLC panel are that there are no current schematic drawings for the control system making troubleshooting much more difficult and time consuming and the wiring inside the panel could use tidying up.



Critical Action Items:

- · Replace PLC Hardware in existing PLC cabinet with current technology.
- Remove pH analyzer PLC and wire pH signals directly to new PLC hardware.
- Replace UPS battery backup with new unit sized for extended power outages.
- Clean up wiring, eliminate any un-used wiring and components.
- Create and draft As-built schematic drawings, provide electronic copy for record and hardcopy for site.

Water Storage Reservoir Site

Communication System Observations:

There is a 900mhz data radio installed onsite and communicating to the SCADA network via directional antenna, during the week before our site observations. Wynker Electric was called to site to troubleshoot failing communications with the SCADA System. The existing radio was working fine but water ingress and corrosion was found at the antenna — feed cable connection point, a new cable was temporarily made and a spare antenna was installed on the antenna mast to get the system back up and running.

The 2nd data radio at the top of the reservoir serves a 2nd segment of the SCADA network communicating with lift stations throughout town, this radio is intalled in a hard to access and unconventional manner at the top of the reservoir. The antenna is not serviceable without mobilising an offroad manlift to site.





Critical Action Items:

- · Replace Data radio Hardware in existing PLC cabinet with current technology.
- At the pumphouse replace surge protector, feed line, and antenna with new.
- Provide O&M manuals and configuration setup records, electronic copy for record and hardcopy for site.

Suggested Action Items

- Keep existing radio as spare unit for other lift station sites until the rest of the radio network can be upgraded to new technology.
- Investigate options to eliminate the data radio at the top of the resevoir, WEC is currently working with True North
 Solutions and radio hardware supplier to propose a better network topology and radio path.

Water Storage Reservoir Site

Field Instrumentation Observations:

Each of the Reservoirs has an ultrasonic level transmitter mounted on a flange in the roof of the tank readily accessible from the access platform at the top of the tank, these units are aged but seem to be working fine. Reservoirs do not have working hatch intrusion switches or backup level float switches installed. There is existing conduits running from the tanks to the pumphouse which seem in good shape.

There is a pH Analyzing instrument in the pumphouse which looks like current technology and is working good but the water pipe that it is installed on could use some proper pipe supports.

It is noted that the operators may need to install Chlorine dosing and monitoring equipment in the future so any upgrades to the PLC system should take future expansion needs into consideration.



Suggested Action Items:

- Tidy up pH analyzer installation.
- Install hatch intrusion switches and wire to new PLC, program alarm callout in SCADA system to alert operators if hatches are opened.
- Install high and low level float switches and wire to new PLC, program alarm callout in SCADA system to alert operators if levels are "out of bounds".
- Provide O&M manuals and configuration setup records, electronic copy for record and hardcopy for site.



DETAILED QUOTE FOR PROPOSED UPGRADES



Wynker Electric & Controls Ltd

45831 Hocking, Ave, Chilliwack, BC

Electrical-Controls-Troubleshooting-Automation

Customer:

District of Kent

Attn:

Martin Rankin (604) 796-2235

Phone: Email:

mrankin@kentbc.ca

District of Kent SCADA & Control System Upgrades

Description:

Production Wellsite

1 1 1	lot lot lot	\$ \$ \$ \$	1,250.00 12,350.00 4,750.00 2,500.00
1	lot	\$	12,350.00
1	lot	\$	1,250.00
1	lot	\$	5,085.00
1	lot	\$	20,939.40
•	101	ė	7,850.00
1	lot	8	
1	lot	\$	4,047.50
1	lot	\$	13,480.00
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Estimate

DoK SCADA

Date:

Project:

Contact:

Phone:

Email:

Rev:

Gst#

March 10th 2023

84821 2551 RT0001

steve@wynkerelectric.com

Steven Wynker

604-703-5340

Storage Resevoirs

	P	roject Total		\$ 132,579.40
	3 30	Site Total		\$ 21,735.00
	Programming - VTSCADA application programming, debugging, testing, and commissioning.	1	lot	\$ 11,150.00
	Project Management & Engineering - Design, documentation, procurement, planning, and commissoning.	1	lot	\$ 2,500.00
	Programming - Data radio setup, testing, and commissioning	1	lot	\$ 1,250.00
	New Data Radio - GE MDS Orbit, antenna feed line, and Comrod Half Wave Antenna	1	lot	\$ 6,835.00
ant		Site Total		\$ 38,592.50
	Record drawings, O&M manuals, and technical datasheets	1	lot	\$ 2,500.00
	Project Management & Engineering - Design, documentation, procurement, planning, and commissoning.	1	lot	\$ 4,350.00
	Programming - PLC application programming, debugging, testing, and commissioning.	1	lot	\$ 9,650.00
	Programming - Data radio setup, testing, and commissioning	1	lot	\$ 7,435.00 1,250.00
	Installation - Remove existing PLC controller from Kiosk control panel, clean up existing wiring, eliminate un-used wiring and door control devices, install new PLC hardware, install data radio, install new batter backup, and complete all wiring to existing field devices VFDs, etc	у 1	lot	*
	New Data Radio - GE MDS Orbit, antenna feed line, and Yagi Antenna	1	lot	\$ 4,047.50
	New PLC Hardware - Modicon M340 w/ 25% spare IO for future capacity	1	lot	\$ 9,360.00

Notes & Exclusions:

- 1 GST not included
- 2 Quotation is good for 30 days.

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Thank you for the opportunity!



PROPOSED HARDWARE BROCHURES

GE Grid Solutions



900MHz and 2.4/5 GHz Routers for Cost-Effective Industrial Deployments

Orbit's industry-leading networking and security capability as well as its support for a variety of wireless technologies and topologies position it as a single box, OPEX-saving platform for industrial networks.

GE's unlicensed wireless solutions provide exceptional performance with 900MHz or Wi-Fi to extend secure connectivity across industrial networks.

Key Benefits

- Extend industrial networks into rural and Field Area Networks using Orbit's 900MHz Unlicensed, Wi-Fi, and cellular connectivity
- High performance interference avoidance and very low latency 900MHz technologies along with advanced Quality of Service enable determinism for critical and industrial applications
- Orbit's integrated routing, switching, Quality of Service (QoS) and comprehensive security provide for flexible integration into modern networks
- A holistic cyber security framework protects the users, the network and assets and allows operators to meet stringent government and corporate cyber security requirements
- Rugged durable design, wide temperature range and low power consumption provide deployment life extension in the harshest of environments while protecting CAPEX investment

Applications



Oil & Gas

- Well head and production pad automation
- Pipeline monitoring and control
- WiFi for field operations



Utility

- DA & AMI convergence
- Renewables protection and control with IEC* 61850
- Substation device monitoring and video surveillance



Water & Wastewater

- Level, pressure and flow monitoring
- · Pipeline monitoring and control



Heavy Industrial

- · Heavy machinery monitoring
- Excavation machine control
- Facility-wide network extension to offsite areas



- · New SFP fiber interface
- New alarm input with optional alarm sensor kit
- Configurable automatic over-the-air radio firmware upgrades
- VRF and Open VPN
- · EMP hardened per MIL-STD-461G, RS105

Comprehensive Security

- Advanced firewall protects users and network assets against intrusion
- IPSec VPN enables secure enterprise-class encrypted communication
- Secure boot protects integrity of firmware
- Extensive X.509 digital certificate management simplifies provisioning
- Integration with enterprise systems via RADIUS, AAA, SCEP, SNMPv3 and Syslog
- FIPS 140-2 (Level 2) certified*

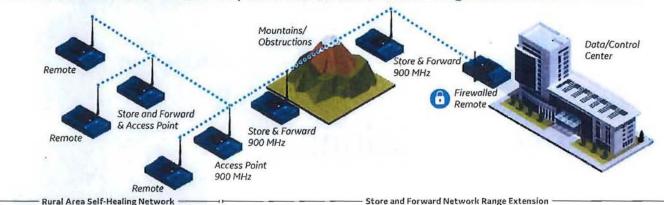
Deterministic Performance

- High performing 900MHz unlicensed FHSS and dual-band Wi-Fi routers
- Low latency for critical and demanding protection applications
- Advanced Quality of Service ensures deterministic application performance
- · Designed to endure harsh environments:
 - Enhanced ESD protection
 - Extended temperature (-40 to +70 C)
 - Class 1/Div 2 & IEEE 1613 compliance



The MDS Orbit Platform Models & Radio Support

MDS Orbit as Enabler for Classic Multipoint Communication with Coverage Extension Into Rural Areas



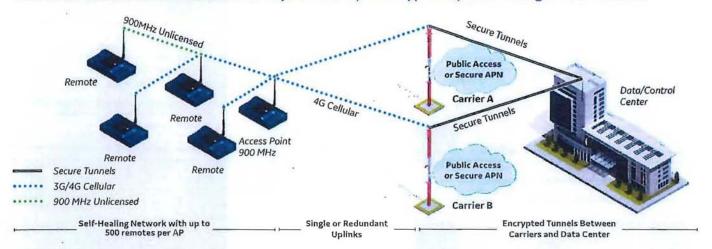
Features

- MDS Orbit's flexible 900MHz unlicensed deployment architectures as well as support of > 30 miles per segment with effective FHSS interference avoidance make it an ideal enabler for the expansion of network coverage into remote and rural areas
- A large scalability of remotes per Access Point expands network coverage into massive footprints
- High performance Store and Forward technology allows repeaters to be daisy chained for up to 8 hops in series to extend network range through mountainous or rugged terrain
- Stateful firewalling as well as RF and IPSec encryption ensure protection of data, users and network assets from intrusion

Application Examples

· Oil & gas production fields, oil pipeline monitoring & control, Distribution Automation Field Area Networks, water & waste water, municipalities

MDS Orbit as 900MHz Unlicensed Gateway with Multiple Encrypted Uplinks Through Public Carriers



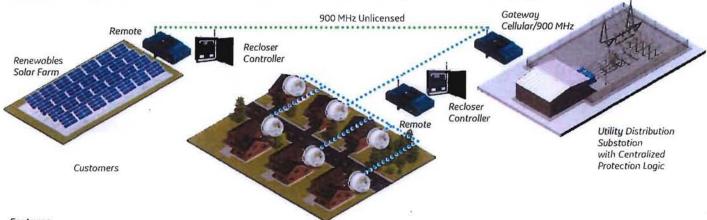
Features

- MDS Orbit MCR-900 supports a second wireless card which could be 4G LTE with 3G fallback.
- The large scalability of MDS Orbit unlicensed 900MHz remotes allows for cost effective expansion of network coverage to allows to cost-effectively expand network coverage to hundreds of sites with a single cellular uplink thus saving on OPEX by eliminating recurring per-site cellular subscription fees
- Stateful firewalling as well IPSec encryption can be applied on 900MHz or Cellular links to augment network security for critical applications and protect against intrusions

Application Examples

· Advanced Metering Infrastructure (AMI) gateways, Distribution Automation Field Area Networks, water & waste water, municipalities, oil & gas production fields

Implementing Renewables Protection & Control with the IEC 61850 Protocol using MDS Orbit



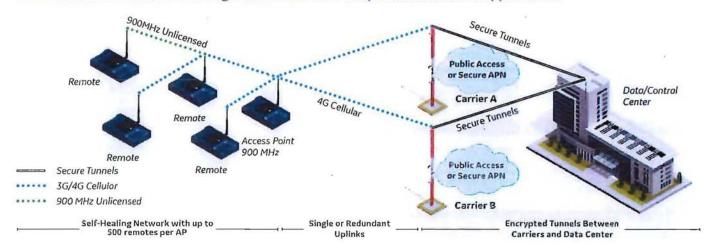
Features

- MDS Orbit's high performance 900MHz unlicensed technology can transport IEC 61850 GOOSE Ethernet frames natively. It allows for data rates of up to 1.25Mbps with a latency tunable to as low as 5msec. This along with advanced Quality of Service facilitate advanced Distribution Automation applications such as Renewables/Distributed generation Protection & Control which demand low latency and network determinism
- A large scalability of remote enables cost-effective coverage of large customer and asset footprints
- Stateful firewalling as well as RF and IPSec encryption enable network operators to meet NERC® CIP / EPCIP and other stringent cyber security requirements by encrypting communication links and protecting network assets and users against intrusion

Application Examples

· Distributed Generation/Renewables Protection & Control, Distribution Automation, critical infrastructure control, other protection applications

MDS Orbit as a Network Convergence Enabler for Multiple Simultaneous Applications



Features

- MDS Orbit supports advanced QoS functionality which allow it to prioritize egress traffic based on Layer 2- Layer 4 classifications. In this fashion, critical applications are assigned to the priority queue and are switched first to meet application requirements.
- Orbit is capable of up to 5 site-to-site IPSec VPN tunnels per device which give it flexibility to secure critical application paths as needed. Furthermore,
- Orbit supports a stateful firewall to protect the network and assets against intrusion
- Orbit's support of multiple wireless and networking technologies make it an ideal network convergence platform.

Application Examples

· Converged Distribution Automation (Protection, Control, SCADA, Metering, AMI etc...), Oil & Gas production fields (SCADA, control, Workforce, Video Monitoring)

MDS Orbit Unlicensed Specifications

900 MHZ UNLICENSED

- · Operating Modes: Access Point, Remote, Store & Forward
- · Technology: Point-to-Point, Point-to-multipoint,
- · Data Rates/Sensitivity:
- 125 Kbps/-105 dBm
- 1.0 Mbps/-95 d8m
- 250 Kbps/-103 dBm
- 1.25 Mbps/-95 d8m
- 500 Kbps/-99 dBm
- · Latency: tunable to <5 msec one-way
- · Output Impedance: 50 Ohms
- · Frequency: 902-928 MHz
- · Frequency Masks: 16 masks, up to 5 channels per mask
- · Spreading method: FHSS, DTS
- · Occupied Bandwidth 152 to 1320 kHz, up to 80 channels
- · Modulation 2, 4-level GFSK, Dwell Time 10-300 msec
- · Carrier Power 100 mW 1W, Range > 30 miles
- Media Access: Patent pending proprietary design, advanced interference avoidance, error detection, retransmission, auto repeat guaranteed collision free data, and dynamic fragmentation
- · Input Voltage 10 to 60 VDC
- · Typical Power Consumption:

	AP	REMOTE
Idle	4.0W	3.2W
50% Duty Cycle	5.3W	5.0W

WI-FI OPTIONS

IEEE 802.11 b/g/n 2.4 GHz option:

- 1x1 SISO (single antenna/radio chain)
- Scalability up to 2 SSIDs, up to 7 clients/stations
- · Max transmit power (adjustable): up to 20dBm
- · Operating modes: Access Point (AP), Station, Station bridging
- · Security: WPA/WPA2 PSK, Enterprise
- · Applications:
- Local configuration and management using Wi-Fi devices
- Station/client connecting to a 2.4GHz AP in outdoor LOS environment
- Small-scale 2.4GHz AP operating in outdoor LOS environment

IEEE 802.11 a/b/g/n Dual-Band 2.4/5 GHz option:

- · 2x2 MIMO (dual antenna/radio chain)
- Scalability up to 2 SSIDs, up to 32+ clients/stations
- Max transmit power (adjustable): up to 26dBm (23dBm per antenna/chain) for 2.4GHz and 23dBm (20dBm per antenna/ chain) for 5GHz
- SGHz (U-NII-1 and U-NII-3 bands supported)
- Operating modes: Access Point, Station, Station bridging, Access-Point-Station (simultaneous AP and Station operation)
- Security: WPA/WPA2 PSK, Enterprise
- Applications:
 - Local configuration and management using Wi-Fi devices
- Station/client connecting to a 2.4Ghz/5Ghz AP in indoor/outdoor LOS/NLOS environment
- Large-scale AP operating in indoor/outdoor LOS/NLOS environment

CELLULAR OPTIONS

- Includes dual SIM, GSMA eSIM, GPS, and 3G fallback
- 4GY: 4G LTE-A NAM/EMEA/LATAM Anterix" 900 MHz, AT&T, Verizon, US Cellular*, Bell, Telus, Rogers*, Vodafone, FCC, PTCRB, CE, GCF
- 4GB: 4G LTE-A Pro US FirstNet Ready™, CBRS AT&T, Verizon, FCC, IC, PTCRB
- 4GA: 4G LTE-A Pro Brazil/Australia Telstra, GCF, Anatel, RCM/ACMA
- · 4GD: 4G LTE with 2G/3G fallback EMEA/LATAM CE, GCF, Anatel
- · See MDS Orbit Cellular brochure for more details

CYBER SECURITY

- Tunneling: IPSec VPN compatible with Enterprise VPN concentrators
- Firewall: Stateful Packet Inspection Layer 2-4, Access Control Lists, NAT
- 900 unlicensed Encryption: AES-CCM 128/256 bit with auto key rotation
- Authentication: RADIUS, PSK, EAP/TLS, PKI
- Certificates: X.509, SCEP, PEM, DER
- Boot Security: Digitally signed firmware
- · FIPS 140-2 (Level 2) certified*

NETWORKING TECHNOLOGIES

- · Full IEEE 802.3 Layer 2 switching with Spanning Tree, VLANs, IGMP
- · Layer 3 static routing
- · Routing and Bridging from/to any interface (as applicable)
- · Advanced L2-L4 Quality of Service
- · Protocols: NAT, DHCP, ICMP, UDP, TCP, ARP, NTP, FTP, SFTP, TFTP, DNS
- Serial: TCP server, Modbus/TCP, Modbus RTU, TCP client, UDP Unicast and Multicast, BSAP, and DNP3
- · VRF and Open VPN

MANAGEMENT

- HTTP, HTTPS, SSH, NETCONF, local console
- SNMPv1/v2/v3, MIB-II, Enterprise MIB
- · Syslog and Syslog-over-TLS, MDS PulseNET compatible

ENVIRONMENTAL & AGENCY APPROVALS

- · EMP: MIL-STD-461G, RS105 Electro Magnetic Pulse
- · Operating Temperature: -40° to 70° C (-40° to 158° F) 900 MHz modem
- · Humidity: 95% at 60° C (140° F) non-condensing
- Case: Die Cast Aluminum
- · Dimensions: (1.75 H x 8.0 W x 4.8 D in.) | Weight: 2 lbs
- Mounting Options: Integrated DIN Rail mount, Standard bracket
- FCC Part 15, IC, ETSI / CE (3G and WiFi models)
- · CSA Class 1, Div. 2, CSA C22.2 No. 142-M1987 & 213-M1987
- · IEEE 1613**, IEC 61850-3
- UL as it is in process and will be complete by time of publication also required for GEZGE opportunities

GE

175 Science Parkway Rochester, NY 14620 Tel: +1-844-379-9630

GEGridSolutions.com/Communications

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GE reserves the right to make changes to specifications of products described at any time without notice and without obligation to notify any person of such changes.



GEA-12812A(E) English 210409



^{*}Check with local sales representative for availability.

^{**} Requires an external DC to DC converter having floating DC inputs (neither side grounded)



ABB MEASUREMENT & ANALYTICS

WaterMaster electromagnetic flowmeter

The perfect fit for all water industry applications



Measurement made easy

The perfect balance of power, performance, flexibility and control from the Masters of Flow.

See how the operational and business benefits stack up.

WaterMaster

Unrivaled in its scope and applications expertize, ABB offers the world's most comprehensive range of flow measurement products. Our electromagnetic family of products is unsurpassed in the number of proven measurement techniques and scope of applications.

Getting the best levels of efficiency and performance from your production process requires reliable, accurate instrumentation. WaterMaster provides the flexibility to solve your most demanding water applications, enabling previously unattainable operational and financial benefits.

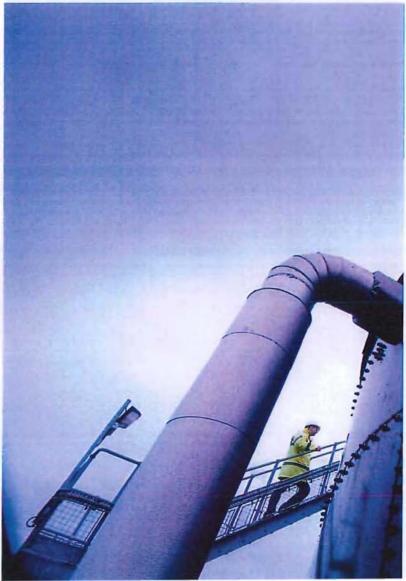
WaterMaster is the ultimate solution for flow measurement and management in sectors as diverse as water, wastewater, sewage and effluent. For WaterMaster, flexible doesn't mean complicated. Take advantage of its innovative and versatile attributes to achieve inter-operability within a wide range of asset management systems. WaterMaster, is by far the best solution for your flow measurement needs and is available in sizes 10 to 2200 mm (3/8 to 84 in).

WaterMaster delivers more than reliable and accurate measuring values. When integrated with an management solution such as ABB's Asset Master, the instrument plays a key role in maximizing process optimization.









-

The perfect fit for all water industry applications

WaterMaster delivers speed, simplicity and ease of use at every stage of the product's lifecycle.



In fact, WaterMaster doesn't just plug the gaps left by competitive products, it is simply the best flow metering solution available today.

Superior control through advanced sensor design Innovative octagonal sensor design improves flow profile and reduces up and down stream piping requirements for the most commonly installed sizes: 40 to 300 mm (1½ to 12 in). Flowmeters with traditional sensor designs remain available to over 2000 mm (78 in) in size.

Using a higher excitation frequency combined with advanced filtering, WaterMaster improves measurement accuracy by reducing fluid and electrode noise.

Submersible and buriable installation options

All WaterMaster sensors have a rugged, robust construction to ensure a long, maintenance-free life under arduous conditions experienced in the water and waste water industries.

The sensors are, as standard, inherently submersible (IP68, NEMA 6P), thus ensuring suitability for installation in chambers and metering pits which are liable to flooding.

A unique feature of the WaterMaster sensors is that sizes DN40 to DN2200 are buriable; installation merely involves excavating to the underground pipe, fitting the sensor, cabling to the transmitter and then backfilling the hole.

Improved performance through Digital Signal Processing (DSP)

Advanced DSP gives improved performance and enables real-time measurements for maximum reliability.

DSP allows the transmitter to separate the real signal from the noise, thereby providing high quality outputs especially in harsh environments involving vibration, hydraulic noise and temperature fluctuation.

Intuitive navigation and configuration

The user-friendly interface allows fast and simple data entry for all parameters. 'Easy Set-up' guides the operator step by step through the menu to set parameters as quickly as possible to simplify the commissioning phase.



Speed, ease and security in the field

'Fit and Flow' data storage inside WaterMaster eliminates the need to match sensor and transmitter in the field.

On initial installation, the self-configuration sequence automatically replicates into the transmitter all calibration factors, meter size and serial numbers, as well as customer site-specific settings, eliminating the opportunity for errors and leads to increased speed of start-up.

This redundant storage of data in both the sensor and transmitter memory is continually updated during all operations to ensure the integrity of the measurement.

An automatic data self-repair routine corrects any data corruption such as totalizer volume corruption that could occur during a power failure.



The perfect balance of power, performance, flexibility and control

Detailed diagnostics for rapid decision making

WaterMaster is proven to be robust and reliable, with unmatched diagnostic capabilities providing the right information to keep the process up and running. In accordance with NAMUR NE107, alarms and warnings are classified as with the status of 'maintenance required', 'check function', 'failure' and 'outside of specification'. WaterMaster is type approved to MID and OIML R49 type 'P' requirements to ensure the highest accuracy and long-term performance of the system by continuously self-checking the sensor and transmitter in the field.

Powerful and flexible transmitter

The backlit, graphical display can be rotated easily up to 180° (90° each way) without any tools, enabling users to position it as best fits their needs. 'Through-the-glass' control allows local operator interface to enable short, quick data entry for all user-specific parameters.

ABB's universal Human Machine Interface (HMI) simplifies operation, maintenance and training; thereby reducing cost of ownership and providing one common user experience.

All WaterMaster versions utilize an electronics cartridge to simplify installation and reduce the number of spare parts. Two variants of the cartridge are available, a standard HART protocol variant and a Profibus DP variant.

The same cartridge type (HART or PROFIBUS) is used for both integral and remote installations. The HART cartridge features active current and passive pulse/alarm outputs while the PROFIBUS cartridge features pulse outputs. Both HART and Profibus DP versions enable online modification and monitoring of parameters.

In situ verification

WaterMaster is now extended to include VeriMaster for in situ verification. VeriMaster is a PC application, that when coupled to the WaterMaster through the infrared service port, generates a report on the accuracy of the complete flowmeter, both sensor and transmitter.

It builds on over 10 years of ABB's experience in the verification field, through its leading CalMaster range. VeriMaster is a quick and easy to use utility, that uses the advanced self-calibration and diagnostic capability of WaterMaster, coupled with fingerprinting technology, to determine the accuracy status of the WaterMaster flowmeter to within ±1 % of its original factory calibration.

VeriMaster also supports printing of calibration verification records for regulatory compliance.



Attention to the smallest technical detail delivers big operational benefits

Service tools

To help validate and optimize the meter's performance, each WaterMaster includes a simulated reference that is not affected by conditions at the measuring location.

An infrared service port also makes it easy for recorded data to be exported for further analysis and evaluation. This allows critical factors to be identified early and corrective actions to be taken quickly. In this way, the process can be optimized for greater productivity and less downtime.

Now the best in class is even better

Leveraging advanced measuring techniques, WaterMaster delivers the power to solve your most demanding applications, enabling you to achieve and surpass your operational and financial targets.

The specification, features and user benefits offered by the WaterMaster range are based on ABB's worldwide experience in the water, waste water and sewage industries, and are all targeted at the industry's specific needs and requirements.

WaterMaster helps cut costs without reducing functionality. As you have come to expect from ABB, this innovative product is fully loaded with technical advances, each delivering clear business and performance benefits. Whatever and wherever the application, you can specify WaterMaster in complete confidence and with total peace of mind.

ABB's WaterMaster sets the standard for flow measurement and management applications in the water, sewage and effluent industries WaterMaster is by far the best solution for your flow measurement needs

Assured quality – WaterMaster is designed and manufactured in accordance with international quality procedures (ISO 9001) and all flowmeters are calibrated on nationally-traceable calibration rigs to provide the end-user with complete assurance of both quality and performance of the meter.



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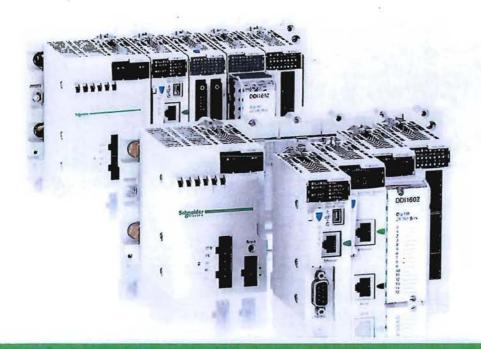
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Email: china.instrumentation@cn.abb.com

PB/WATERMASTER-EN Rev. C 04.2019

Catalog | November 2021



Modicon M340 automation platform

Mid-range PLC/PAC for industrial process and infrastructure control







Discover Modicon

Industrial Edge control for IIoT

Modicon IIoT-native edge controllers manage complex interfaces across assets and devices or directly into the cloud, with embedded safety and cybersecurity. Modicon provides performance and scalability for a wide range of industrial applications up to high-performance multi-axis machines and high-available redundant processes.

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- Modicon Power Supply
- Modicon Wiring





Get technical information about your product



Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual



Find your catalog



- With just 3 clicks, you can access the Industrial Automation and Control catalogs, in both English and French
- Consult digital automation catalogs at <u>Digi-Cat Online</u>

Select your training



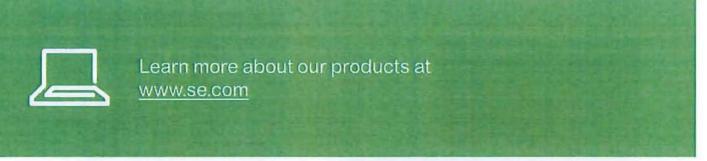
- > Find the right <u>Training</u> for your needs on our Global website
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Schneider Electric Industries SAS

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DIA6ED2110104EN November 2021 - V4,0



HIGH ACCURACY SUBMERSIBLE LEVEL TRANSMITTER

ACCULEVEL

THERMALLY-COMPENSATED, CUSTOM RANGES, DUAL OUTPUT SUBMERSIBLE

The Acculevel by KELLER America provides standard features that far exceed those of comparably priced transmitters, including standard ±0.25% FS or optional ±0.1% Total Error Band (TEB)₃ accuracy. This level transmitter is approved to NSF 61 and NSF 372₇ standards for water quality and includes KELLER America's guaranteed lightning protection, making the Acculevel an outstanding value for liquid level measurement.

The ability of the Acculevel to provide this level of sustained performance over a wide range of operating conditions makes it ideally suited to an equally wide range of applications, including drinking water, stream and reservoir level, environmental monitoring, tank level, wastewater, and for installations in areas prone to chronic damage due to transients caused by lightning.

For more information on the Acculevel, or any other KELLER product, please contact KELLER America, or view the entire KELLER catalog online at kelleramerica.com.

FEATURES

NSF 61 / NSF 372 approved construction for use in drinking water applications,

4...20mA models include guaranteed lightning protection at no additional cost.

16-bit internal digital error correction for cost-effective low Total Error Band (TEB)₃

316L stainless construction standard - Optional Titanium for severe applications.

2-year warranty covers defects in materials and workmanship.

User-rangeable analog output ensures compatibility as requirements change.

RS485 modified-MODBUS compatible interface allows up to 128 transmitters on a single bus.

Standard dual (analog & RS485) outputs simplify interface to controls, data collection, and telemetry systems.

Built in the U.S.A. ARRA Section 1605 Compliant.

Standard 3-day lead time



	3 [105mm]
0.78 [20mm]	00.825 [21mm]
0.75 [201min]	[5.8mm]
Posit diapl	
Position of diaphragm	

Output	White	Black	Red	Blue	Yellow
2-wire (mA)	OUT / GND	+Vcc	N/A	RS485A	RS485B
3-wire (VDC)	GND	+VCC	+OUT	RS485A	RS485B

Colors refer to 26AWG PE-jacketed cable conductors.

Braided shield wire connected to transmitter housing. For lightning protection to function properly (4-20mA only) the shield wire must be connected to a good earth ground.

Min. pipe bend radius	1" IPS	1.5" IPS	2" IPS	
Schedule 40	22"	4"	3"	
Schedule 80	22"	6"	4"	





Pressure Ranges_{1,2}

Relative Infinite between 0...3 and 0...900 ft W.C.

Infinite between 0...2 and 0...11 bar Absolute

1. The Acculevel can be provided with custom calibration at no extra cost. For fluids other than water, the specific gravity must be given at the time the order is placed.

2. Intermediate ranges are realized by deranging the analog output from the next highest basic range: 1, 3, 10, and 30 bar (relative) 2, 4, and 11 bar (absolute). Level range may be specified in units of ib/in2(psi), inches WC or feet WC. KELLER America uses the International Standard conversion of 2.3067 feet WC/psl.

Accuracy,

Static Standard ±0.1% FS, Optional ±0.05% FS

Standard ±0.25% BR, Optional ±0.1% BR Total Error Band

3. Static accuracy includes the combined effects of non-linearity, hysteresis, and non-repeatability at room temperature (25°C). Total Error Band (TEB) includes the combined effects of non-linearity, hysteresis, and non-repeatability as well as thermal dependencies, over the compensated temperature range, expressed as a percentage of the basic range (BR).

The calculation for maximum TEB on intermediate ranges (IR) is: TEB_{IR} = (BR/IR) X TEB_{BR}

Output

Current	420mA + RS485	
Voltage₄	05, 0-10VDC + RS485	
Resolution	0.002%	

4. Other voltage output options available on request,

5. Resolution applies to digital output only. Analog resolution is continuous and limited by the process meter and not the instrument.

Certifications

CE EN50081-1, EN50082-2

NSF / ANSI, 61, 372

Electrical,

Supply (4-20mA) 11-28 VDC Supply (0-5VDC) 8...28 VDC Supply (0-10VDC) 13...28 VDC

Load Resistance (mA) <(Supply-11V)/0.022A

Load Resistance (VDC) >4k ohm

6. Nominal values may be higher depending upon cable length. Internal lightning protection increases the minimum-required supply voltage from 8VOC to 11VDC, due to internal resistance of the surge protectors. In addition, cable resistance (\sim 70 Ω / 1000ft) adds to the supply requirement. In order to insure proper system operation, calculate the minimum required supply voltage (at the source) as

For two-part (internal+external) system (recommended): MINIMUM SUPPLY VOLTAGE = 11.6 + 0.022 (CABLE LENGTH x 0.07) VDC

For internal only protector (standard with 4-20mA output): MINIMUM SUPPLY VOLTAGE = 11 + 0.022 (CABLE LENGTH x 0.07) VDC

Environmental

IP68 Protection Rating

-10...60° C Operating Temp. -10...80° C

Compensated Temp. Wetted Materials

316 L Stainless Steel

Titanium Optional

Polyamide

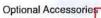
Cable & Sealing PE & EPDM for water / wastewater,

Cable length TBD

Hytrel & Viton for hydrocarbons

Tefzel & Viton or EPDM as required for chemical interaction

7. NSF 61 and NSF 372 approval applies to both 316L stainless steel & titanium construction with PE & EPDM cable sealing option, which is standard on this instrument unless otherwise specified.

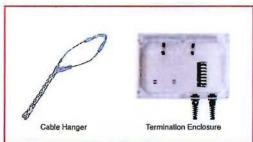




1/2° NPT Conduit Fitti







Pressure Test Adapter



Stabilizing Weight



Interface Converter



Process Meter



Open-faced Nose Cap



Signal Line Surge Protector

55

APPENDIX 'B'



9.2.6

REPORT TO COUNCIL

DATE:

December 7, 2022

FILE: 5600-04

FROM:

Martin Rankin, Director of Engineering Services

SUBJECT: SCADA & Electrical Upgrades Assessment

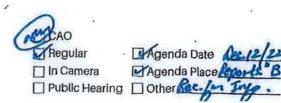
RECOMMENDATION:

THAT Council receives this report for information.

BACKGROUND:

The District's sanitary lift stations, water and wastewater treatment plant's (WTP & WWTP), water production wells, and reservoirs are all connected to the District's Supervisory Control and Data Acquisition (SCADA) system, SCADA systems are used to remotely monitor and control the District's water and wastewater systems by collecting and analyzing real-time data. They are essential for allowing the District to ensure optimal response to measured conditions and execute these responses in a timely manner. Relying on precise control for monitoring equipment and processes virtually eliminates staff error. More importantly, it automates common, tedious, routine tasks once performed by staff, which further increases operations efficiencies, improves management of critical water and wastewater equipment failure in real-time and minimizes the possibility of environmental disasters.

District Utilities' staff make day to day use of the SCADA system as described above, however the actual programming of the SCADA software and integration of new equipment and updates required to accommodate the new water and wastewater plants at Harrison Highlands (for example) must be performed by a qualified professional. Until June of this year, the District relied on the services of Lakeside Automation until they dissolved their business and no longer offer their services, In larger municipalities such as the City of Chilliwack and the City of Abbotsford, there are full time staff members that provide this SCADA programming capacity, resulting in a limited number of consultants that perform this work.



DISCUSSION:

The District currently has numerous SCADA programming projects required to update the system based on the new WTP and WWTP that have come online recently, and to accommodate recent upgrades at the Agassiz WWTP. Other infrastructure serviced by the SCADA system including the Agassiz Townsite water production wells and several lift stations require electrical component upgrades to replace aging and antiquated equipment that can no longer be repaired or serviced. These electrical component upgrades also have associated SCADA programming requirements to integrate the new components into the existing SCADA system.

The exact scope of these upgrades, both from an electrical and SCADA programming perspective, require further investigation before proceeding. The purpose of this project is to investigate the exact requirements for both the SCADA programming and electrical component upgrades to properly scope and budget future works.

Due to the timing of the required electrical component upgrades and associated SCADA programming, and the additional standalone SCADA programming projects required by the District, staff determined that these projects should be investigated by both an electrician and SCADA consultant. To maximize the results of economy of scale and avoid conflicts of technology compatibility and familiarity, staff determined that the best results would be delivered by a team that had worked together previously to successfully deliver similar projects.

Wynker Electric and Controls Ltd. is local company that provides electrical and controls contracting services. Wynker Electric has worked on several other projects with True North Solutions, consultants that specialize in providing SCADA programming consulting services, including 24-hour SCADA support. Wynker Electric has worked on numerous projects throughout the District previously, and has recently completed work on the Agassiz WWTP's Digester Upgrade project, which also requires SCADA programming updates.

Wynker Electric provided a quote in the amount of \$12,027.20 (excluding GST) to provide the required electrical and SCADA investigation, which includes the portion of work performed by True North Solutions. Staff believe that Wynker Electric and True North Solutions have provided a fair price to provide these services and therefore recommend that they be retained to perform this work.

BUDGETARY CONSIDERATIONS:

Sufficient funding has been included in the District's 2022 Capital Budget.

POLICY CONSIDERATIONS:

When sole-sourcing is in the District's best interest, Council is to be notified by way of report as per the District's Purchasing Policy (*Purchasing FIN 2008-01*).

Respectfully submitted for your consideration

Approved for submission by

Martin Rankin,

Director of Engineering Services

Wallace Mah,

Chief Administrative Officer



REPORT TO COUNCIL

DATE:

May 02, 2023

FILE: 5400-09

FROM:

Jonathan Mothus, Director of Public Works

SUBJECT: 2023 Sidewalk Concrete Work Improvements

RECOMMENDATION:

THAT Council approves the sole sourcing of the 2023 sidewalk concrete work to Contour Concrete in the amount of \$44,698 (excluding tax).

BACKGROUND:

In 2018, Contour Concrete provided the lowest bid for the Highway 9 Sidewalk Replacement Project through a formal RFQ process and was awarded the project. The work was completed efficiently and represented good quality and value for the District.

At the beginning of 2019, District staff completed an assessment of all sidewalk letdowns in the Agassiz townsite, and a three-phase plan was created to replace or improve sections that were in poor condition and presented hazards for pedestrians. Through Council approval the three phases of this work in 2019-2021 and the first year of the 2022-2024 phase were sole sourced to Contour Concrete based on their past performance and providing quotes that continued to represent good value.

The District is now in the second year of the 2022-2024 phase of the Concrete Letdown Plan. As the proposed work is a continuation of the 2022-2024 Concrete Letdown Plan that was performed by Contour Concrete, District staff requested that they provide a quote for the 2023 sidewalk work.

Sidewalk letdown to be repaired:

 One (1) letdown at Southwest corner of Cheam Ave. and Evergreen Dr. intersection.

New Sidewalk letdowns to be installed include:

1. Two (2) letdowns, one (1) at North corner and one (1) at East corner of Evergreen Dr. and Oakwood Dr. intersection.

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Regular	YAgenda Date May 8 /23
In Camera	Agenda Place "A" Report
☐ Public Hearing	Other

- 2. One (1) letdown at South entrance to Westlin Park
- 3. One (1) letdown at South sidewalk entrance of pathway on Bristol Dr.
- 4. One (1) letdown at North sidewalk entrance of pathway on York Cres.
- 5. Two (2) letdowns, one (1) at Northwest corner and one (1) at Northeast corner of Canterbury Dr. and Bristol Dr intersection.
- 6. Two (2) letdowns, one (1) at Northwest corner and one (1) at Southwest corner of Logan Dr. and Laurel Pl. intersection.
- 7. Two (2) letdowns, one (1) at Northwest corner and one (1) at Southwest corner of Logan Rd. and Maple Cres. Intersection.

Concrete repairs at Municipal Hall:

- 1. One (1) repair to staff entrance sidewalk.
- 2. Two (2) repairs within the generator compound.

A map of all concrete work to be completed is provided in Appendix "A".

The original amount for the proposed concrete work was \$42,440 based on the advanced quote received from Contour Concrete on October 28, 2021. Contour Concrete is still willing to hold this original quote and a second quote was submitted for \$2,258 for the repairs at Municipal Hall for a combined total of \$44,698 value. This quoted amount provides good value for the nature of the work and is consistent with quotes previously provided by Contour Concrete for the District's concrete work.

The planned concrete work is demanding in terms of both precision and labour. The removal and replacement of sidewalk letdowns must consider the existing dimensions unique to each letdown, the drainage pathway, and specific cuts to best remove the current letdown. These tasks require thorough examination and care to produce the final product. Any work along roadways also requires traffic control and regulation.

Contour is a local contractor who has completed this type of work for the District before and is very familiar with roadway safety requirements. They have always been on time, on budget, and provide a high-quality finished product. Contour has accounted for all traffic control and flagging costs in the quote, as well as extended supervision to prevent damage to freshly placed concrete.

ENVIRONMENTAL CONSIDERATIONS:

Projects occur entirely within townsite roadways and have minimal environmental impacts.

BUDGETARY CONSIDERATIONS:

Sufficient funding for the 2023 Sidewalk Concrete Work has been included in the District's 2023 Capital Budget.

POLICY CONSIDERATIONS:

Approval through Council resolution as per the District's Purchasing Policy (*Purchasing Fin 2008-01*).

ATTACHMENTS:

Respectfully submitted for your consideration

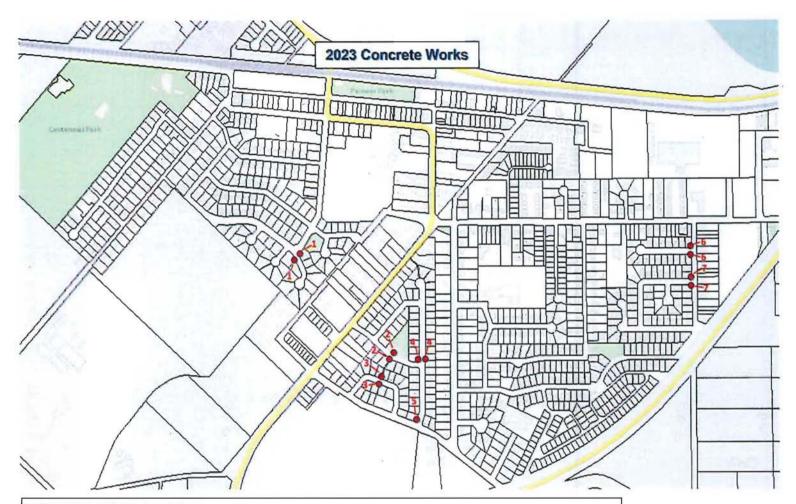
Approved for submission by

Jønathan Mothus,

Director of Public Works

Wallace Mah,

Chief Administrative Officer



4

2023 Sidewalk Letdown Work:

- 1. Installation of 2 letdowns at N and E corners of Evergreen Dr. and Oakwood Dr. intersection
- 2. Installation of 2 letdowns at park and in front of pathway on Bristol Dr.
- 3. Installation of 2 letdowns in front of and across from pathway on York Cres.
- 4. Installation of 2 letdowns at NE and NW corners of Canterbury Dr. and Bristol Dr. intersection
- 5. Replacement of 1 letdown at NW corner of Canterbury Dr. and McDonald Rd. intersection
- 6. Installation of 2 letdowns at NW and SW corners of Logan Rd. and Laurel Pl. intersection
- 7. Installation of 2 letdowns at NW and SW corners of Logan Rd. and Maple Cres. intersection



9.6.1

REPORT TO COUNCIL

DATE:

April 26, 2023

FILE:

0400-30

FROM:

Clair Lee, Director of Corporate Services

SUBJECT:

Item to be released to the public agenda from the In Camera Meeting held

on April 12, 2023

RECOMMENDATION:

THAT the following information be received.

DISCUSSION:

At its In Camera meeting held on April 24, 2023 Council approved the release of the following resolution at the Regular meeting scheduled on May 8, 2023:

THAT the request from Metro Vancouver and the Fraser Valley Regional District to relocate the Agassiz based Regional Air Quality Monitoring Station from Municipal Hall to Centennial Park in between diamonds 1 & 2, east of the Livestock Pavilion be supported. (C2023-102)

ENVIRONMENTAL CONSIDERATIONS:

None.

BUDGETARY CONSIDERATIONS:

None.

POLICY CONSIDERATIONS:

As per Section 90 of the *Community Charter* information that was considered at an In Camera meeting of Council must be kept in confidence until Council resolves to release the information to the public.

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Regular	Agenda Date May 8/23
☐ In Camera	Agenda Place Reports " 13"
☐ Public Hearing	

Respectfully submitted for your consideration

Approved for submission by

Clair Lee

Director of Corporate Services

Wallace Mah,

Chief Administrative Officer



9.6.2

REPORT TO COUNCIL

DATE:

April 26, 2023

FILE:

5380-03

FROM:

Clair Lee, Director of Corporate Services

SUBJECT:

FoodCycler Pilot Program Update

RECOMMENDATION:

THAT Council receives this report for information.

BACKGROUND:

Currently District business and residents contract directly with one of several private solid waste haulers. Through an operating contract, the District provides recycling and composting (excluding food waste) at the Agassiz Bottle and Recycling Depot. In addition, a no cost, self-serve grass clipping site is available near Allenby's and Agassiz Community Gardens hosts bi-annual yard clean-up events by donation.

The makers of FoodCycler, a counter-top composter and is an alternative to other composting methods such as private pick-up or backyard units, contacted the District to determine interest in participating in their pilot program by offering a group discount. Council directed staff to gauge public interest in the product.

It was determined that the best method for gauging interest would be a short survey, available both online and in print form for pick up at Municipal Hall. The survey was open from November 3 to December 22, 2022. Information regarding the survey was published in the November 2022 Back Page and promoted on all social media platforms.

Survey Results:

This survey netted 32 online responses and no printed versions were returned to Municipal Hall.

#1: Do you currently compost your food scraps?

20 out of 32 respondents answered "Yes" to this question. While this seems high on the surface, it is worth noting that there may be a bias in respondents as those who are willing to do the survey are already interested in composting as opposed to those who are uninterested/unaware.

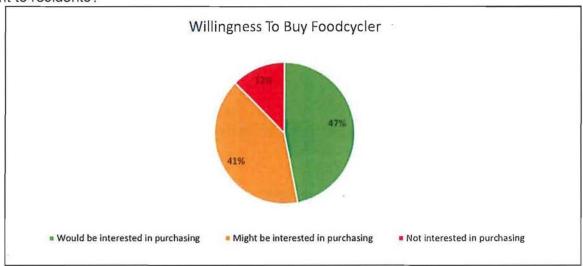
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Regular	Agenda Date May 8/23
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☐ Public Hearing	☐ Other

#2: If "no", do you have a specific reason?

12 out of 32 respondents answered this question, meaning two respondents answered "yes" to currently composting food scraps and "no" with a specific reason. The most common reasons for not composting were:

- No private compost pick-up
- Compost pick-up provided by private garbage contractor
- Concerns about rodent infestations
- Household composting only done sporadically

#3: Would you be interested in purchasing a FoodCycler if the District offered a group discount to residents?



#4: How much would you be willing to spend on a composting appliance?

- \$100 \$300 (26 out of 32)
- \$300 \$500 (2 out of 32)
- \$500+ (0 out of 32)
- No Response (4 out of 32)

The average price range respondents are willing to pay is \$114 - \$314.

No respondent selected the pre-determined and unsubsidized price of \$500 per unit. This price point was even mentioned in the product breakdown before question #3 but it either didn't register with respondents or it is simply too high.

#5: Additional Comments

A bit surprisingly, no additional comments were submitted under this question. Most of the comments were seen under question #2.

Contact information of anyone who might be interested in participating in a pilot project was also collected.

Survey Summary:

Respondents are interested in composting but are not willing to pay \$500 for a composting appliance. One of the secondary questions we set out to answer was "Do residents have access to private compost collection?" and the answer is yes, based on responses recorded to question #2.

Of the 32 respondents, 25 provided contact information for a potential pilot program, which also reinforces the notion that there is public interest in composting solutions.

DISCUSSION:

Based on these survey results, Council had previously approved participating in the Food Cycle Science (FCS) next pilot program intake for 50 units. The District's contribution of \$5,000 will be funded from the Climate Action (CARIP) fund.

Staff are currently working with Food Cycle Science (FCS) to fulfill the registration for the 50 units, with survey participants receiving the first opportunity. A copy of the information regarding the pilot program is attached as Appendix 'A'.

Based on the 12-week pilot program beginning in July, it is expected that the units will be delivered in June with the pick up dates to be determined at the Community Recreation and Cultural Centre (as the facility's operating hours are more accessible than Municipal Hall). At the end of 12-week program, residents must report their usage and answer survey questions. The results of the survey will be shared between the District and FCS.

ENVIRONMENTAL CONSIDERATIONS:

The District of Kent is a member of the Fraser Valley Regional District's Solid Waste Management Plan and food composting is a significant factor in diversion from the landfill. Current composting options include curbside pickup and backyard compost. Curbside pickup is part of the private contracting service of solid waste disposal and continues to experience contamination and ongoing GHG emissions. Backyard composting is not an option for all households such as apartments.

BUDGETARY CONSIDERATIONS:

Funding for the pilot program will be from the Climate Action (CARIP) fund.

POLICY CONSIDERATIONS:

Fraser Valley Regional District Regional Solid Waste Removal Bylaw No. 1495, 2018 was enacted to maximize source separation to divert compostable and recyclable items from the landfill.

Respectfully submitted for your consideration

Approved for submission by

Clair Lee.

Director of Corporate Services

Wallace Mah,

Chief Administrative Officer

FOODCYCLE

APPENDIX 'A' DISTRICT OF KENT

ON-SITE FOOD WASTE DIVERSION PILOT



$FoodCycler^{m}$

THE IN-HOME FOOD WASTE DIVERSION SOLUTION

Join your municipality in tackling food waste by piloting FoodCycler™ technology in your home. Support your municipality by testing this innovative technology!



Why should I participate?

Did you know that up to 50% of household waste is composed of food waste? By helping your municipality address food waste, you are supporting your community's environmental initiatives, while reducing your carbon footprint.

What is required of me?

Not much! Purchase a FoodCycler™ from your municipality at a subsidized cost, track your use once a week for a period of 12 weeks and then answer a brief exit survey.

FOODCYCLER OFFERS:



Reduction in food waste volume



Reduction in greenhouse gas emissions from food waste

Pilot Project Timeline

JUNE - SEPTEMBER 2023 (12 WEEKS)

PILOT DURATION

the municipality).



PURCHASE YOUR UNIT

FoodCycler™ FC-30: \$150 CAD (+HST) FoodCycler™ Maestro: \$300 CAD (+HST)



FOODCYCLER IS:



ENERGY EFFICIENT Only ~\$2 in energy costs every month!



ODOURLESS
Carbon filtration
controls odours!



EASY TO USE Just press Start!

END DATE



Fill out a closing survey (to be provided by the municipality) about your experience using the FoodCycler™. Once complete, the FoodCycler™ is yours to keep!

Divert your food waste using the FoodCycler™ for a period of 12 weeks. Track the amount of waste you divert with a tracking sheet (to be provided to you by

SIGN UP HERE:

https://bit.ly/FCKent



TO LEARN MORE: Clair Lee compost@kentbc.ca (604) 796-2235

Only 50 spots available! Join today!



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AGASSIZ FIRE DEPARTMENT

Proudly Serving the District of Kent Since 1945

9.6.3

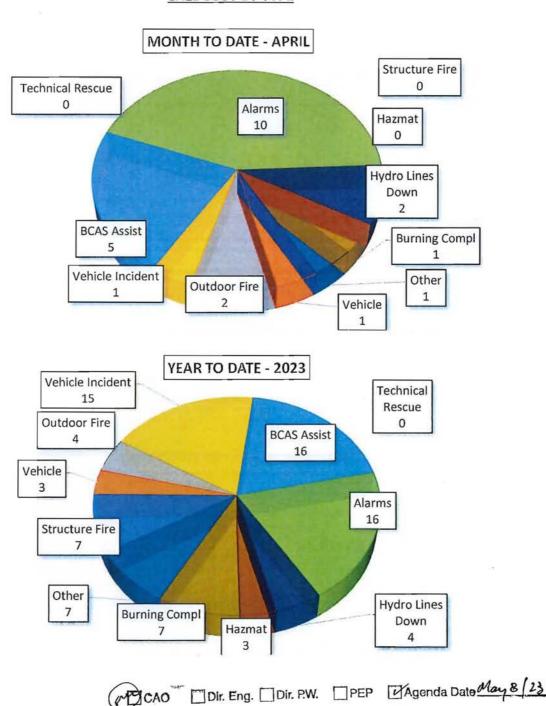
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Monthly Report: APRIL 2023

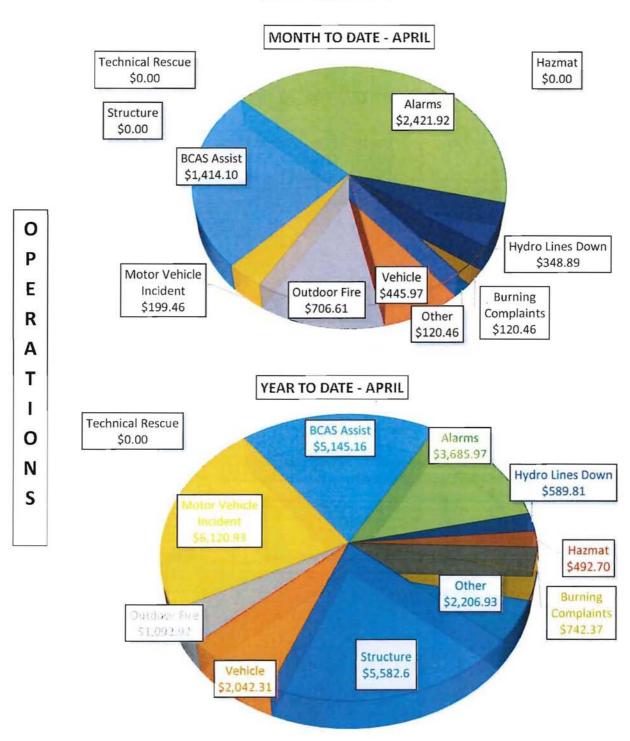
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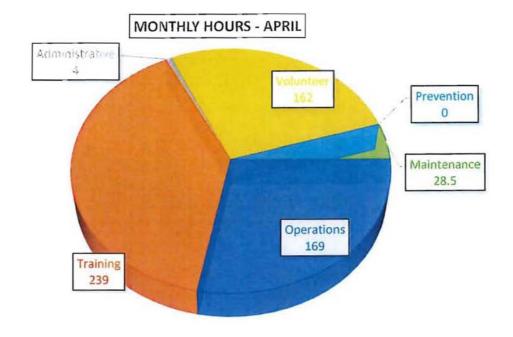
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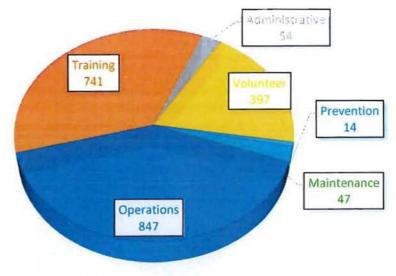
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BREAKDOWN OF HOURS



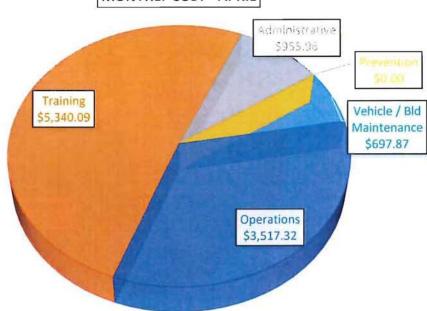




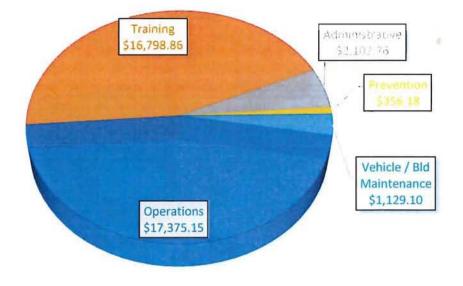
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BREAKDOWN OF HOURS





MONTHLY COST - YEAR TO DATE



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Unit	Current Mileage	Previous Month	Monthly Total		
Car 1	22206	21705	501		
Engine 1	55561	55394	167		
Engine 1-2	32195	32180	15		
Rescue 1	20798	20729	69		
Squad 1	34363	34325	40		
Tender 1	539158	539158	0		

Summary:

The Agassiz Fire Department (AFD) responded to 23 emergency calls for service totaling 169-hours in April. AFD firefighters dedicated 239 hours to training in April.

The AFD was called to 10 automatic fire alarms activated, followed by 5 medical aid calls.

April training focused on auto extrication including basic scene size up and safety to heavy commercial vehicle with entrapment. A hazardous material component was introduced as well in one of the scenarios.

The recruit class of 6 firefighters continue to train twice per week and are on schedule to complete training by the start of summer.

The retrofit of the transmission from the original 18 speed manual to the automatic is for the most part complete with only a few final adjustments to be made, with the truck back in service. The retrofit is considered a success at this point as the truck runs well and the performance is good. There has been interest from firefighters to train on the truck now that it is an automatic. During the final steps of the installation, while reprogramming the engine control module (ECM) a failure occurred and the ECM needed replacement. The engine is no longer supported by the manufacturer and this part was not available. A reconditioned ECM had to be sourced from an aftermarket supplier.

The second line engine, unit #28, suffered a major mechanical failure in April. First a water leak developed at the rear of the booster tank from what is believed to be a steel pipe fitting that has rusted through. This fitting is original on the truck from 1997. When the truck was being delivered to a repair facility an overheat condition appeared and the diesel engine suffered a complete failure. The truck is currently being repaired with a new engine being installed.

Respectfully Submitted:

Gerald Basten

Fire Chief

Wallace Mah

CAO

Since 1945

AGASSIZ FIRE DEPARTMENT VOLUNTEER HOURS

Proudly Serving the District of Kent Since 1945

Firefighter	April	YTD
Braaksma, Clayton	7	19
Bray, Chris	6	12
Dicks, Allan	4	13
Ferguson, Ken	5	15
Globe, Troy	8	15
Griffith, Matthew	9	15
Jarvis, Lance	4	17
Kerkhoff Colin	7	19
Klootwyk, Brad	2	9
Klop, Casey	3	11
Koronko, Jeff	5	11
Levy, Adam	6	11
Lindhout, Marc	6	10
Louden, Trevor	15	29
McInroy, Ross	7	21
Morrow, Eric	3	9
Neels Art.	0	_5
Pannekoek, John	6	16
Pineda, Edwin	4	14
Pryor, Alan	1	2
Renaud, Chris	6	20
Sawatzky, Brent	3	15
Schellenberg, Joel	3	13
Van Dyk, Brandon	6	10
Visscher, Rene	7	17
Williams, Andrew	4	16
Wilson, Chris	4	14
Wood, Bronsen	6	11
Total	147	389

Respectfully Submitted:

Garall Baster

Gerald Basten Fire Chief

Wallace Mah

CAO



9.6.4

REPORT TO COUNCIL

DATE:

May 1, 2023

FILE: 6970-20

FROM:

M.Lisa Beaulieu, A-Director of Development Services

SUBJECT: April 2023 Development Services Department Report

RECOMMENDATION:

THAT Council receive the April 2023 Development Services Department Report for Information.

DISCUSSION:

Building

Please find attached as Appendix A, the March 2023 Building Department Report.

Highlights include a single-detached dwelling at 6111 Holly Road.

Planning

The Active Transportation Plan Network update open house has been scheduled for May 18, 2023, from 4:00 pm to 7:30 pm at the Friendship House, 7272 Morrow Road.

The following applications were received in April:

- 2 Agricultural Land Commission Applications.
- 1 Development Permit.

12 applications have been received to date.

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Regular	Agenda Date May 8/23
☐ In Camera	Agenda Place Report "13"
☐ Public Hearing	Other Rec. for Info.

Bylaw

Bylaw Department highlights include:

- 8 bylaw complaint responses.
- 1 sign permits.

ATTACHMENTS:

1) Appendix A: April 2023 Building Department Report

Respectfully submitted for Council's consideration

Approved for submission by

M. Lisa Beaulieu,

A - Director of Development Services

Wallace Mah,

Chief Administrative Officer



7170 Cheam Avenue Agassiz, BC V0M 1A0 Phone: (604) 796-2235 Fax (604) 796-9854

BUILDING DEPARTMENT REPORT

For the month of: April 2023

	CURRENT MONTH				CURRENT YEAR TO DATE			PREVIOUS YEAR TO DATE		
	# of Permits	# of Dwellings	Construction Value	# of Permits	# of Dwellings	Construction Value	# of Permits	# of Dwellings	Construction Value	
Single Family	1	1	425,000	2	2	1,110,000	10	10	4,211,000	
Manufactured Home	-	-	1 1	-	-	(8) —	2	2	86,400	
Duplex	-	-	٠		\. -	-	1	2	900,000	
Apartments	:=	1=	æ	-	. 		S - -	-		
Multiple Family				-	/.5	1	1	4	945,500	
Misc. Residential	1	:=	8,000	8	3	874,000	15	-	831,500	
Commercial		-		1	i.e.	32,000	ı	-		
Industrial		-	· ·	1) -	1	1	-	19,000	
Institutional	-			3	-	81,600	2	-	48,510	
Agricultural	1	: m	40,000	3		2,550,000	4	-	443,200	
Demolition	_	1.0	-	1	-		4	4		
TOTAL	3	1	473,000	18	5	4,647,600	40	14	7,485,110	

Total BP fees collected

5,196

- excludes applicable DCC's
- excludes applicable deposits

Year to Date BP Fees Collected
Previous Year to Date BP Fees Collected

45,613

109,499



BUILDING DEPARTMENT REPORT

7170 Cheam Avenue Agassiz, BC V0M 1A0 Phone: (604) 796-2235 Fax (604) 796-9854

For the month of: April 2023

				Construction	Fees
Zones		Site Address	Description	Value	Collected
New SFD	1	6111 Holly Road	SFD	425,000	4,433
			1 New SFD Total	425,000	4,433
Manufactured Home					
			0 M.H. Total	pag	ps.
Duplex					
			0 Duplex Total	as f	, and
Apartment					
			0 Apartment Total		·
Multiple Family		·			
	+		0 Multi. Fam. Total	- ·	Tag.
Misc. Residential	1	1470 Vimy Road	Enclosed Carport	8,000	216
Commercial	+	·	1 Misc. Res. Total	8,000	216
Commercial	+				
			0 Commercial Total	, and	m
Industrial	+				***************************************
			0 Industrial Total	3%	pd.
Institutional	+				
			0 Institutional Total	on/	00100001000010000100001000100010001000
Agricultural	1	8016 McCartney Road	Barn and shop Reno	40,000	547
			1 Agricultural Total	40,000	547
Demolition					
			0 Demolition Total	Jack .	



BUILDING DEPARTMENT ACTIVITIES

7170 Cheam Avenue Agassiz, BC V0M 1A0 Phone: (604) 796-2235 Fax (604) 796-9854

For the month of: April 2023

INSPECTIONS

54 Building Permit Inspections
Business Licence Inspections
Development Permit Review and Inspections
Received 8 Building Permit Applications

BUILDING PERMITS

Review of Land Title Documents
Property File Reviews
Building Plan Reviews
Permit File Updates
Preparation of Building Permit Documents

ENQUIRIES

Building Permit and Land Use Telephone Enquiries Building Permit and Land Use Counter Enquiries

MEETINGS

Development Services Department Meeting Pre-application Meetings Meetings with Building Permit Applicants

PROJECTS

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9.6.5

REPORT TO COUNCIL

DATE: May 3, 2023

FILE: 4710-01

FROM: Kurt Houlden, Director of Recreation / Culture & Projects

PREPARED BY: Skylar Gormley, Assistant Manager of Recreation / Culture & Projects

SUBJECT: Recreation / Culture - April 2023 Staff Report

RECOMMENDATION:

THAT Council receives the staff report for information.

COMMUNITY RECREATION AND CULTURAL CENTRE:

The month of April had a slight decrease in participation numbers for both the weightroom and fitness classes. This drop is expected, and is in line with previous years, as the weather begins to warm up and patrons begin to utilize the outdoors more.

Much like the weightroom and fitness classes, there was a slight decrease in participation in gymnasium drop-in programs. Basketball and Pickleball drop-ins had the largest decrease in participation, which can be correlated directly with both sports being played outside during the nice weather. As with the weightroom and fitness classes, this decrease in participation is normal for this time of year.

The Community Recreation and Cultural Centre also hosted a table for information for the RCMP Victim Services for Prevention of Violence Against Women Week during the week of April 17 - 21. This table was in the front hallway, for all patrons to view as they come in.

RECREATION PROGRAMS:

April was the final month of our Winter 2023 programming. A total of seven (7) recreation programs were offered, with five (5) of those programs running successfully. In total, forty-six (46) patrons participated in these registered programs. Preschool programming proved

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Regular	Agenda Date May 8 (13)
☐ In Camera	Agenda Place B" Report
□ Public Hearing	Othor

to be the most popular for April, with two (2) programs that were offered meeting the maximum capacity, Music Together and Baby Rhyme Time.

EASTER EGG HUNT IN PIONEER PARK:

The first annual Easter Egg Hunt in Pioneer Park occurred on April 8, 2023, from 10:00 am – 12:00 pm. This event was offered in partnership with the Agassiz Harrison Museum, and the Agassiz Library. The event opened with registration for the children, hot chocolate, and a story time read by the Agassiz Librarian, Sharie.



Once completed, the Easter egg hunt began, with two areas available for 0 – 5 years, and 6 – 12 years. Eggs were placed throughout the taped-off area of Pioneer Park, and each child was provided the opportunity to get five (5) eggs, which they could then trade in for prizes.

Special thanks go to Red Apple for providing complimentary reusable bags, that were used by children who did not have their own basket. In total, around 225 people attended this event.

DISCOUNT DAYS:

Spring and Summer 2023 Discount Days occurred from April 12 – April 15. Historically, these are the busiest discount days of the year for the Community Recreation and Cultural Centre, with last year's total of \$17,410.22 being the highest to date.

One change for this year was priority swimming lesson registration for District of Kent residents, which meant that non-local patrons were unable to register for swimming lessons until April 19. Even with that in mind, this year's totals were still higher than in 2022, with the total revenue for Discount Days being \$18,323.49.

In addition to this increase in revenue for Discount Days, there was also an additional \$7,121.19 taken in on April 19, 2023, the first day available to non-local residents to register for swimming lessons.

AGASSIZ MINOR SOCCER:

Agassiz Minor Soccer officially started its season on April 29, 2023. This league has had a long-standing history of offering a cost-effective sports league that is both accessible and fun for children 5 to 16 years old. This year, staff worked with local businesses to secure sponsorships, to ensure that this league can continue to keep its costs low. In total, twelve (12) businesses sponsored individual teams, which included:

- Agassiz Remedy's RX
- Armstrong Sand & Gravel
- Burden Propane
- Kent Veterinary Clinic
- Machine Tech LTD.
- PowerWood

- Reliable Towing Services
- Ron's Heating & Cooling
- Spaeti Construction
- Timbro Contracting
- Trivolt Electric LTD.
- Waal & Co.

FERNY COOMBE POOL:

The end of April brought more sunny weather, and the official inservice training for the new and returning Lifeguards for the Ferny Coombe Pool. This training occurred from April 25 – 29 and included a review of District and facilities policies and procedures, customer service, swim lesson instruction, and rescue skills.

Inservice is not only a great opportunity for training, to ensure staff are prepared for the season, but is also a chance for them to get to know each other. In total, twelve (12) new guards will be joining the Aquatics team this year, with a strong mix of veteran returning guards, and new lifeguards.



UPCOMING IN RECREATION:

May brings the official start of the Spring and Summer 2023 Leisure Guide. This includes Music Together, Mother's Day Ceramics, Bronze Cross & Bronze Medallion courses, and much more. Many of these programs, not only for May but through the summer, are already scheduled to run, as they have met the minimum participation.

Staff are also busy planning and working with multiple special events through June, July, and August. This includes National Indigenous People's Day (June 21), Slide into Summer (June 24), Canada Day (July 1), Pioneer Park Performances (July 12, July 26 &

August 16), and the Swimathon (August 12). In addition to these special events being coordinated, staff are also part of the planning committee for the Storytime in the Park events through the summer.

Respectfully submitted for your consideration

Approved for submission by

Kurt Houlden.

Director of Recreation / Culture & Projects

Wallace Mah,

Chief Administrative Officer



9.6.6

STAFF REPORT

DATE:

May 2, 2023

FILE: 5260-20

FROM:

Jonathan Mothus, Director of Public Works

SUBJECT:

Public Works Services Update - April 2023

Some of the highlights and activities for the month of April 2023 involving Public Works staff and services are as follows:

REGULAR DUTIES

- 1 Gravel pit maintenance.
- 2 Garbage collection and recycling.
- 3 Building maintenance: Municipal Hall, Library, and Aberdeen building.
- 4 Haul recycled brush and compost from Green Waste Bin and the Recycle Depot.
- 5 Community Recreation & Cultural Centre building and equipment maintenance.
- 6 Traffic sign maintenance.
- 7 Public Works yard maintenance.
- 8 Equipment maintenance and repair.
- 9 Safety and Public Works meetings.
- 10 Cemetery grounds and headstone maintenance.
- 11 Road maintenance and pothole patching.
- 12 Perform dyke maintenance.

HORTICULTURE

- 1. Park maintenance including the pruning of trees around playgrounds, parks, boulevards, sidewalks, trails, and cemeteries, maintenance of public paths and trails.
- 2. Pick up branches in parks.
- 3. Prune roses at Municipal Hall, Library, CRCC and Museum.
- 4. Start beds clean up and shrub shearing.
- 5. Assemble hanging baskets and hang them under the grow lights in the greenhouse.
- 6. Transplant tiny bedding plant seedlings into larger containers and let them grow under the lights until they are ready to be planted in beds and containers.
- 7. Core aerate, overseed and fertilize Centennial Park sports fields.

CAO	Dir. Eng. Dir. P.W	. PEP	Agenda Date May 8 [23
Gorp. S	Bylaw	RCM	In Camera Date
Dev. S.	☐ Dep. Fin. ☐ Dir. Rec	. TIRE	Agenda Place "8" Roport
MAYOF	R Council Asst. R	ec. 🗌 HR 🍦	Other

OTHER ACTIVITIES

- 1 Start-up maintenance at Ferny Coombe Pool, boiler and circulation pump start up.
- 2 Pull and clean debris screen from Bateson flood box.
- 3 Set 2 headstones.
- 4 Remove and chip dead or heavily leaning trees at Centennial Park.
- 5 Deliver some soil to Community Gardens for 2 new wheelchair accessible garden plots.
- 6 Replace a culvert crossing on Holly Road.
- 7 Call out to clean up concrete tree ring broken by a large truck and trailer at Pioneer and Park Street.
- 8 Suck and haul sewage from all town lift stations and wash down chambers.
- 9 Start weekly mowing and trimming of parks, cemeteries and green spaces.
- 10 Clean up leaves around ball diamond fence lines.
- 11 Repair a field access culvert off Hardy Road.
- 12 Flush a sewer line from the Friendship House on Morrow Road.
- 13 Clean ditch staff gauges.
- 14 Remove a blockage from the McCallum ditch.
- 15 Remove by hand, a blockage from the Clark/Hog ditch.
- 16 Close Bateson and Hammersley flood gates.
- 17 Open and close 1 full burial.
- 18 Bring in from winter storage and place street tree planters on east Pioneer.

Respectfully submitted for your consideration

Jonathan Mothus

Director of Public Works

Approved for submission by

Wallace Mah

Chief Administrative Officer

"A bylaw for the Levying of Taxation Rates for Municipal, Policing, Hospital, Regional District, Dyking and Drainage Purposes for the year 2023"

THE COUNCIL of The Corporation of the District of Kent, in open meeting assembled, ENACTS AS FOLLOWS:

- The following rates are hereby imposed and levied for the year 2023:
 - A. (i) For General Municipal purposes of the municipality on the value of land and improvements taxable for general purposes, rates appearing in column "A" of the Schedule attached hereto and forming a part hereof.
 - (ii) For Policing purposes on the value of land and improvements taxable for general purposes, rates appearing in column "B" of the Schedule attached hereto and forming a part hereof.
 - (iii) For purposes of the Agassiz-Harrison Mills Diking Area on the value of land and improvements, as said lands are described and defined pursuant to the "Municipalities Enabling and Validating Act", taxable for general purposes, rates appearing in column "C" of the Schedule attached hereto and forming a part hereof.
 - (iv) For purposes of the Fraser Valley Regional Hospital District on the value of land and improvements taxable for hospital purposes, rates appearing in column "D" of the Schedule attached hereto and forming a part hereof.
 - (v) For purposes of the Fraser Valley Regional District on the value of land and improvements taxable for general purposes, rates appearing in column "E" of the Schedule attached hereto and forming a part hereof.
 - B. For purposes of the Agassiz Drainage Area a special rate of FOURTEEN DOLLARS AND TWENTY-NINE CENTS (\$14.29) per acre upon all real property as described and defined pursuant to the "Municipalities Enabling and Validating Act" for said Drainage Area, PROVIDED that the special rate so levied shall be not less than FIFTY-SEVEN DOLLARS AND SIXTEEN CENTS (\$57.16) on any parcel of land in said Drainage Area.

- C. For the purposes of the Harrison Mills Drainage Area a special rate of EIGHT DOLLARS AND ONE CENT (\$8.01) per acre upon all real property as described and defined pursuant to the *Municipalities Enabling and Validating Act* for said Drainage Area, PROVIDED that the special rate so levied shall be not less than THIRTY-TWO DOLLARS AND FOUR CENTS (\$32.04) on any parcel of land in said Drainage Area.
- 2. The Collector shall, pursuant to Bylaw No. 1052, cited as the "Percentage Additions to Current Taxes Bylaw, 1994" add the percentage addition to all current taxes or rates remaining unpaid at the time and dates stated in said Bylaw No. 1052.
- 3. The minimum amount of taxation upon a parcel of real property shall be ONE (\$1.00) DOLLAR.
- 4. This bylaw shall be cited for all purposes as the "Annual Tax Rates Bylaw No. 1716, 2023".

READ A FIRST TIME this 24th day of April, 2023.

READ A SECOND TIME this 24th day of April, 2023.

READ A THIRD TIME this 24th day of April, 2023.

FINALLY PASSED AND ADOPTED this XX day of May, 2023.

	CERTIFIED CORRECT:	
Sylvia Pranger, Mayor	Wallace Mah, Chief Administrative Officer	

CERTIFIED A TRUE & CORRECT COPY of "Annual Tax Rates Bylaw No. 1716, 2023" adopted on this XX day of May, 2023.

Clair Lee, Director of Corporate Services

THE CORPORATION OF THE DISTRICT OF KENT SCHEDULE OF 2023 TAX RATES ATTACHED TO AND FORMING PART OF BYLAW NO.1716

TAX RATES (dollars of tax per \$1,000.00 taxable value)

PROPERTY CLASS	A General Municipal	B Police	C Dyking Areas	D Regional Hospital District	E Regional District
1. Residential	1.81668	0.36731	0.02703	0.08713	0.06610
2. Utilities	36.19972	7.31914	0.53853	0.30496	1.31714
5. Light Industry	6.00590	1.21432	0.08935	0.29625	0.21853
6. Business and Other	6.51095	1.31643	0.09686	0.21347	0.23690
8. Recreational/ Non-Profit Organization	3.42446	0.69238	0.05094	0.08713	0.12460
9. Farm	18.84798	3.81083	0.28040	0.08713	0.68579



DISTRICT OF KENT

BYLAW NO.	1716
DATE:	April 24, 2023
FILE NO.	1970-02

INITIALS REQUIRED INITIALS REQUIRED (CLERICAL STAFF)

ORIGINATOR	CORPADMIN	ACTION TO BE TAKEN	DONE	DATE
MV	VAO	FIRST READING	V	ADY 24/23
MV	Oly	SECOND READING	V	Apr 24/23
		Rescind Second Reading		
		Amend Bylaw and Re-read Second		
		Approval of Reg. Dist. (borrowing bylaws)		
		Approval of MoTI		
		Approval of Inspector of Municipalities		
		Approval of Ministry of Municipal Affairs		
		Advertise bylaw (or Waiving of bylaw)		
		Public Hearing		
MV	12	THIRD READING	V	ADI 24/23
		Rescind Third Reading		1
	LIBS.	Amend Bylaw and Re-Read Third		
		Approval of Inspector of Municipalities		
		Alternate Approval Process		
		Advertise Bylaw		
		Opportunity for Public Input		
	1	Quashing Period		
MV	12	ADOPTION		
		Quashing Period		
		File with Inspector of Municipalities		
		, P		

THIS MUST BE COMPLETED BY ORIGINATOR

LEGAL AUTHORITIES _	Community Charter Section 197	
, A		
MISCELLANEOUS		
_		



10.2

REPORT TO COUNCIL

DATE:

April 28, 2023

FILE:

Bylaw 1717

FROM:

Clair Lee, Director of Corporate Services

SUBJECT:

Fees and Charges Bylaw No. 1717

RECOMMENDATION:

THAT Council considers giving three readings to "Fees and Charges Bylaw No. 1717, 2023".

BACKGROUND:

The current Fees and Charges bylaw was adopted on October 26, 2020 and has had a number of amendments. A new bylaw is presented for the purpose of incorporating the various amendments as well as the fees that were previously approved by Council.

DISCUSSION:

Under Schedule "B":

- 1. Addition of fees for Agri-Tourism Accommodation Use as previously considered by Council at its Regular meeting held on June 27, 2022.
- 2. Updated fees for Sign Bylaw 1710 as presented to Council at its Regular meeting held on December 12, 2022.

Based on a review of rates in the surrounding communities, staff are recommending to maintain the existing soil removal and deposit rate.

Under Schedule "E":

 Update the fee for Tax Certificate (manual) to reflect the same rate as the tax certificates online (TCOL) program, which the District is part of.

CAO	
Regular	Agenda Date May 8/23
☐ In Camera	MAgenda Place Bylaws / Permits
☐ Public Hearing	

ENVIRONMENTAL CONSIDERATIONS:

None.

BUDGETARY CONSIDERATIONS:

Fees are set to recover the cost of a service and to ensure its future sustainability. The application of fees are generally applied on a user-pay basis, so only those who benefit from the service bear the fee.

POLICY CONSIDERATIONS:

Pursuant to Section 194 of the *Community Charter*, Council may establish fees by bylaw, for a municipal service or use of municipal property.

ALTERNATIVES/OPTIONS:

- 1. To make additional changes.
- 2. To refer back to staff for more information.

Respectfully submitted for your consideration

Approved for submission by

Clair Lee

Director of Corporate Services

Wallace Mah

Chief Administrative Officer

BYLAW No. 1717

"A Bylaw to set fees and charges for permits and services within the District of Kent"

WHEREAS pursuant to the *Community Charter*, Council may, by bylaw, impose a fee payable in respect of all or part of a service of the municipality;

NOW THEREFORE the Council of the Corporation of the District of Kent, in open meeting assembled, enacts as follows:

1. CITATION:

This Bylaw may be cited for all purposes as "Fees and Charges Bylaw No. 1717, 2023" and comes into effect on the date of adoption or on January 1 of the respective year.

2. FEES AND CHARGES:

That the following schedules, which outline the fees and charges for services within the District of Kent, are attached hereto and form part of this bylaw;

Schedule A - Development Applications, Permits and Fees

Schedule B - Bylaw Permits and Fees

Schedule C - Engineering Services and Fees

Schedule D - Parks and Recreation Fees

Schedule E - Office Administration and Miscellaneous Fees

Schedule F - RCMP Services-Agassiz Detachment

3. SEVERABILITY

If any section, subsection, sentence, clause or phrase of this bylaw is, for any reason, held to be invalid by the decision of any court of competent jurisdiction, the invalid portion shall be severed and the decision that it is invalid shall not affect the validity of the remainder of this bylaw.

4. REPEALS AND AMENDMENTS

the bylaw cited as "Fees and Charges Bylaw No. 1717, 2023" adopted on this day of , 2023.

Clair Lee, Director of Corporate Services

This Bylaw repeals "Fees and Charges Bylaw No. 1657, 2020", and any amendments thereto.

READ A FIRST TIME this day of , 2023.

READ A SECOND TIME this day of , 2023.

READ A THIRD TIME this day of , 2023.

FINALLY PASSED AND ADOPTED this day of , 2023.

Sylvia Pranger, Mayor Wallace Mah, Chief Administrative Officer

Certified a TRUE AND CORRECT COPY of

Schedule A Development Applications, Permits and Fees

A schedule of application fees for all Development related permits and fees.

	A schedule of application fees for all Development related permits and fees.				
1.	Official Community Plan				
	(i)	Application to amend the text of an Official Community Plan	\$1	,500.00*	
	(ii)	Application to amend the map of an Official Community Plan	\$1	,000.00*	
2.	<u>Zonin</u>	Zoning Bylaw			
	(i)	Application to amend the text of a Zoning Bylaw	\$2	2,000.00*	
	(ii)	Application to amend the map of a Zoning Bylaw	\$1	,500.00*	
	(iii)	Application for a Farm Employee residence	\$1	,000.00	
3.	Land	Use Contract			
	(i)	Application to amend an existing Land Use Contract	\$2	2,000.00	
4.	. <u>Development Permit</u>			ě	
	(i)	Application for issuance of a Development Permit excluding façade improvements within the Downtown Revitalization Development Permit Area (DPA 4) valued at less than \$10,000 verified contract price	\$1	,000.00	
	(ii)	Application for issuance of a Development Permit for façade improvements within the Downtown Revitalization Development Permit Area (DPA 4) valued at less than \$10,000 verified contract price	\$	200.00	
	(iii)	Application to amend or redraft a Development Permit	\$	500.00	
5.	<u>Devel</u>	opment Variance Permit			
	(i)	Application for the issuance of a Development Variance Permit	\$	500.00	
	(ii)	Application for issuance of a Development Variance Permit for a Sign	\$	200.00	
	(iii)	Application to amend or redraft a Development Variance Permit	\$	300.00	

^{*}A refund of 50% can be provided if the application is withdrawn prior to public hearing advertisement.

Schedule A (continued) Development Applications, Permits and Fees

6.	Temporary Commercial Permit						
	(i)	Application for the issuance of a Temporary Commercial/Industrial Permit	\$2,000.00				
	(ii)	Application to extend a Temporary Commercial/Industrial Permit	\$1,500.00				
7.	Notific	cation Sign (public hearing)					
	(i)	Sign Deposit (see Bylaw 1397, 2008)	\$ 600.00				
8.	Board	of Variance					
	(i)	Application to the Board of Variance	\$1,500.00				
9.	<u>Subdi</u>	vision and Development Application Fees					
	(i) (ii)	Application for a Subdivision with 3 lots or less for each additional parcel over and above 3 lots	\$1,500.00 \$ 50.00				
10.	10. Bareland Strata Development						
	(i)	Application for a Bareland strata development with 3 bareland parcels or less	\$1,500.00				
	(ii)	For each additional parcel over and above 3 bareland lots	\$ 50.00				
	(iii)	For each phase in the bareland development	\$ 100.00				

Schedule A (continued) Development Applications, Permits and Fees

11. Phased Strata Development

(i)	Application fee	\$ 535.00
(ii)	For each unit within the Strata Development	\$ 50.00
(iii)	For each phase within the Strata Development	\$ 100.00
(iv)	For Form P Approving Officer Signature	\$ 55.00

12. Administration and Inspection Fees

Where the subdivision requires construction of services or where development requires construction of off-site services

Estimated Cost - up to \$300,000 4% (minimum \$500)

- over 300,000 4% on first \$300,000 then 2% on remainder

(i) security deposit for the construction of required works and services

Maximum

125% of estimated

construction costs

13. Subdivision and Development Warranty Deposit

10% of the estimated cost of the works and services Minimum of \$3,000

14. Contaminated Sites Package (Site Profile)

A fee for administering a Contaminated Sites Package (Site Profile) as required under the Provincial Waste Management Act and Regulations, as amended.

(i) Contaminated Sites Package (Site Profile) administration fee \$ 100.00

15. Administration

Administration and Inspection review fee for applications under Sections \$50.00/hr. 1 to 7 of Schedule A after 3 months of issuance.

Schedule A (continued) Development Applications, Permits and Fees

16. <u>Highway Access Permit</u>

(i) Application fee with Building Permit \$ 90.00(ii) Application fee without Building Permit \$ 150.00

17. Off-street Parking Space (Payment in Lieu)

(i) Each parking space \$15,800.00

18. Securities for all Developments with the Exception of Single Family and Duplex

(i) Onsite Parcel grading, drainage and landscaping 115% of estimated cost

(ii) Off-street parking and access paving security 115% of Includes associated drainage, oil grit separator, curbing, line painting and lighting.

19. Telecommunication Antenna Structure

(i) Application fee \$ 500.00

BYLAW No. 1717

Schedule B Bylaw Permits and Fees

Building Bylaw 1116, 1997

A schedule of fees for construction and/or alteration of buildings.

1	. (a) Application fee (non-refundable – applied to Building Permit fee)	42	50.00
1	(b) Minimum Building Permit fee	10.00	150.00
	(c) Non-refundable portion of permit fee greater than \$300		300.00
2	(1) 1일		200.00
-	(b) Moving a residential building within the District (inspection only)		50.00
3			150.00
4	트 - 이 이		25.00
	Note* - BC Bldg Code inspections only	Ψ.	
5			
	with this schedule to be:		
	a. up to a minimum of \$2000	\$1	50.00
	b. for each additional \$1000 or part thereof to a max. \$100,000	\$	11.00
	c. for each additional \$1000 or part thereof in excess of \$100,000	\$	9.50
	to a maximum of \$250,000		
	 d. for each additional \$1000 or part thereof in excess of \$250,000 	\$	8.75
6	. Where no changes are proposed in design or siting, for a re-application	1000	50.00
	for a building permit which has lapsed		% of the
		building per whichever is	
7	the property of the property o		
	knowledge (includes Commercial, Industrial, plus all consultants)		
		ed by the D	
8	. For a permit to install plumbing		
	a. for any number of fixtures up to ten	\$1	50.00
	b. for each additional fixture in excess of ten	\$	10.00
9	. For a permit to install a chimney to serve a solid fuel or oil burning	\$1	50.00
	appliance	with BP \$1	00.00
1	 For a permit to install a fireplace includes gas fired fireplaces, masonry 	\$1	50.00
	or factory-built chimney	with BP \$1	
	For a permit to install a solid fuel or oil burning appliance	\$150.0	
1:	2. For a permit to situate a factory-built or Modular home or mobile home	See iter	m #30
040	(excluding mobile home park)	Said that	
	3. For a permit to situate a mobile home in a mobile home park	35.39	50.00
1	4. For a permit to situate a building less than 150 sq. ft. (14m²)	\$1	50.00

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Building Bylaw 1116, 1997 (cont'd)

 For a permit to erect fencing around a swimming pool in accord with section 18.01 	dance \$ 150.00
16. For recall fee (which inspector is called to site prematurely)	\$ 100.00
17. Demolishing a structure (minimum 2 inspections)	\$ 200.00
18. For a permit where the property is not accessible by a highway maintained by the Ministry of Transportation and Highways (MoT) and where the owner requests a permit	All applicable costs listed in this Schedule and in addition costs of travel to and from the site from the nearest access to a highway maintained by MoT
19. Where professional design and review is required for a project 15.01, the total fee shall be reduced by 5% except that this red not apply to items 1,2,3,21,22,23,24,25,27,28,29,30,32 listed in	uction shall
20. Water meter installation	\$ 200.00
21. Sanitary connection (separate inspection)	\$ 250.00
22. Storm connection (separate inspection)	\$ 250.00
23. Water connection (separate inspection)	\$ 250.00
24. Sanitary / Storm / Water / with Building Permit (\$200+\$200+\$2	00) \$ 600.00
25. Driveway Access Permit (separate)	See Schedule A Item 12

Securities Deposit

ANY SECURITY DEPOSITED UNDER PROVISIONS OF THIS BYLAW MAY BE IN THE FORM OF; CASH, CERTIFIED CHEQUE, IRREVOCABLE LETTER OF CREDIT, DRAWN ON ANY CANADIAN CHARTERED BANK OR CREDIT UNION FOR A TERM AND IN A FORM SATISFACTORY TO THE DISTRICT OF KENT

NON TORA TERM AND IN A TORM DATION ACTOR! TO THE DIOTRIOT OF REINT	
26. Demo Permit Security all Buildings over 50m ²	\$1000.00
a. Except when occupying an existing house (to be demolished)	\$5000.00
while constructing a new house on the same lot.	
 Project completion and/or Damage to Municipal Property Security 	
a. for SFD under \$10,000	\$ 500.00
b. for SFD \$10,000 and over	\$1000.00
c. for all other types of buildings	\$1000.00
28. Moving buildings: Security to ensure the clean-up of both the former	\$1000.00
site and exterior finish of foundation at new site	
29. a. Parcel grading, parcel drainage, & landscaping (to complete	\$12.00
onsite parcel grading, drainage & landscaping areas); AND b. Paving security (to complete the paving of off-street parking, site drainage, curbing, making and lighting)	For each square metre of parcel grading, landscaping, & drainage area

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Building Bylaw 1116, 1997 (cont'd)

30. Valuation for permit purposes shall be calculated as follows (or declared value, whichever is greater)

TYPE OF CONSTRUCTION	Rate / 0.093m ²
Dwellings including single and multi-family; duplex; townhomes; factory	
built (mobile homes) built to CSA standards	
 first floor and unfinished basement 	\$100.00
 first storey with no basement 	\$ 90.00
 each additional storey 	\$ 80.00
 to finish basement or existing building renovation 	\$ 20.00
 garages and accessory buildings: 	\$ 45.00
 decks, open with no roof 	\$ 30.00
 carports and decks with roof 	\$ 35.00
Apartments:	
 parking garages or basements 	\$ 65.00
 first floor, with no basement 	\$ 95.00
each additional floor	\$ 85.00
Farm buildings or structures with roof – each storey	\$ 18.00
 uncovered structure 	\$ 10.00
 add a roof type cover to a structure 	\$ 10.00
Pole building	\$ 16.00
Assembly, commercial, industrial, institutional and all other construction	\$ 95.00
not identified above	or verified contract price

Zoning Bylaw 1219, 2001

Kennel Licence One time non-transferable

Application for Kennel Licence	\$100.00
Kennel Licence for boarding and/or breeding dogs or cats for profit	\$500.00
Kennel Licence for boarding and/or breeding dogs or cats registered not-for-profit	Waived

See the Fraser Valley Regional District for fees related to control, licensing and impounding of domestic animals.

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Business Licence and Regulation Bylaw 1485, 2012

A schedule of fees for all persons wishing to conduct business in the District.

Businesses	Column A	Column B	Column C
	Fee	Fee	Fee
	New Licences and Licence Renewals	Licence Renewals Paid Before Dec. 15 th of Year Preceding Commencement of the Licence Year	Licence Renewals Paid After Jan. 31 st of the Licence Year
Agri-Tourism	\$125	\$112.50	\$137.50
Bed and Breakfast	\$125	\$112.50	\$137.50
Carnival / Circus	\$200 per operating day		
Cannabis Operations in the Agricultural Land Reserve	\$500 + \$1.00 per m² of building gross floor area	10% discount to Column A fee	10% increase to Column A fee
Farm Retail where less than 100% of agricultural products are produced on the farm on which the retail sales are taking place.	\$125	\$112.50	\$137.50
Farmers Market Society	\$125	\$112.50	\$137.50
Home Occupation conducted within or partially within a building other than the single family residence.	\$500 + \$1.00 per m ² accessory building gross floor area	10% discount to Column A fee	10% increase to Column A fee
Non-Farm Business within the ALR conducted within or partially within a building other than the single family residence.	\$500 + \$1.00 per m² accessory building gross floor area	10% discount to Column A fee	10% increase to Column A fee
Farm Equipment & Repair, Watercraft Maintenance & Repair, Mobile Mechanic, Mobile Welder, and Construction Contractor*, Transport Truck Owner/Operator Home Occupations *Construction Contractor with a business vehicle(s) in excess of 3,900 kg curb weight or with business vehicles that exceed what is permitted for a Construction Contractor	\$500 + \$1.00 per m² accessory building gross floor area	10% discount to Column A fee	10% increase to Column A fee

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Business License and Regulation Bylaw 1485, 2012 (cont'd)

Home Occupation with a business vehicle(s) in excess of 3,900 kg. curb weight	\$500 + \$1.00 per m ² accessory building gross floor area	10% discount to Column A fee	10% increase to Column A fee
Non Resident	\$110	\$99.00	\$121
Construction Contractor with one (1) business vehicle under 3,900 kg curb weight and one trailer under 4.88 m in length	\$125	\$112.50	\$137.50
Kennel	\$125	\$112.50	\$137.50
Liquor Primary Licensed Establishments	\$125	\$112.50	\$137.50
Liquor Retail Store	\$125	\$112.50	\$137.50
All other Businesses not listed above	\$125	\$112.50	\$137.50
Only in the initial year of application, licence fee (with the exception of administration fee) shall be reduced by 50% if the application is made after July 31st of that year.			
Licence fee (with the exception of administration fee) may be refunded by 50% only if the licence application is withdrawn prior to issuance of the licence or if issuance of the licence is refused.			

Event Type

Carnival / Circus	\$200 (per operating day)
Gathering in the Agricultural Land Reserve	\$275 (per event)

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Short-term Commercial Accommodation Class	Column A Fee	Column B Fee	Column C Fee
	New Licences and Licence Renewals	Licence Renewals Paid Before Dec. 15 th of Year Preceding Commencement of the Licence Year	Licence Renewals Paid After Jan. 31st of the Licence Year
Guest Unit	\$125	\$112.50	\$137.50
Principal	\$500	\$450	\$550
Non-Principal	\$700	\$630	\$770

Retail Cannabis Sales	Column A	Column B	Column C
13/	Fee	Fee	Fee
e	New Licences and Licence Renewals	Licence Renewals Paid Before Dec. 15 th of Year Preceding Commencement of the Licence Year	Licence Renewals Paid After Jan. 31 st of the Licence Year
Business Licence Fee	\$5000	\$4500	\$5500

Agri-Tourism Accommodation	Column A	Column B	Column C
Use	Fee	Fee	Fee
	New Licences and Licence Renewals	Licence Renewals Paid Before Dec. 15 th of Year Preceding Commencement of the Licence Year	Licence Renewals Paid After Jan. 31 st of the Licence Year
1 Agri-Tourism Unit or 2 Agri-Tourism RV Campsites	\$125	\$112.50	\$137.50
2 or more Agri-Tourism Sleeping Units	\$500	\$450	\$550

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Civic Address Numbering Bylaw 1574, 2017

A schedule to set a fee for a change to a civic address requested by a property owner.

Application Fee

\$500.00

False Alarm Bylaw 1449, 2009

A schedule of fees to reduce false alarms in the District.

False Alarm fees

1.	First three (3) false alarms in any consecutive 12 month period	No Fee
2.	Fourth (4) false alarm in any consecutive 12 month period	\$100.00
3.	Fifth (5) false alarm in any consecutive 12 month period	\$150.00
4.	Sixth (6) and subsequent false alarm in consecutive 12 month period	\$300.00

Fire Prevention and Protection Bylaw 1448, 2009

A schedule of annual fees for acquisition of a burning permit in the District.

Permit Fee for a Camp Fire or Cooking Fire	\$ 25.00
Permit Fee for Small Ceremonial or Religious Fire *See Section 5(3) of Bylaw 1448	Waived *
Permit Fee for Hand Piled Yard Clean-up Debris, larger than a Camp Fire but not more than 2.5 m x 2.5 m	\$ 60.00
Permit Fee for Industrial and Land Clearing Purposes, burn larger than 2.5 m x 2.5 m but not more than 6 m x 6 m	\$150.00

Highways, Traffic and Parking Regulations Bylaw 1321, 2005

A schedule to set a fee for a highway use permit in the District.

Permit Fee for Highway Use

\$ 50.00

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Holding Tank Bylaw 1042, 1994

A schedule to set a fee for the inspection of all holding tank construction in the District.

Inspection of all holding tank construction

\$250.00

Inter-Municipal Business Licence Scheme 1533, 2015

A schedule to set a fee for a mobile business to carry on business within the jurisdictional boundaries of any or all of the participating municipalities.

Annual Fee

\$250.00

Sign Bylaw 1710, 2022

A schedule of fees to regulate the placement of signs in the District.

Regular Sign (or Base Rate)	\$60
First \$1,000	\$60 + \$6/\$1,000
Signs over District Property (Liability Agreements)	\$75
Promotional	\$40
Billboard	\$100
Billboard Renewal	\$50
Security Deposit	\$500

EXEMPTIONS: These fees shall not apply to any signs as outlined in Sections 3 and 4 of Bylaw 1710

Soil Removal and Deposit Bylaw 1676, 2021

A schedule of fees to control and manage soil removal and deposit in the District.

Application Fee per permit

\$100.00

2. Soil Removal and Deposit Rates (per m³):

\$0.48

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Cemetery Bylaw No. 1664, 2021

Grave Space - In Ground Burial	General	Care Fund	Total
Resident			
 Adult 	\$ 974.00	\$ 487.00	\$1461.00
 Child 2 – 12 	\$ 649.00	\$ 325.00	\$ 974.00
 Infant up to 2 years 	\$ 487.00	\$ 244.00	\$ 731.00
Cremated Remains	\$ 541.00	\$ 271.00	\$ 812.00
Former Resident			
Adult	\$1948.00	\$ 974.00	\$2922.00
 Child 2 – 12 	\$1298.00	\$ 650.00	\$1948.00
 Infant up to 2 years 	\$ 974.00	\$ 488.00	\$1462.00
Cremated Remains	\$1082.00	\$ 542.00	\$1624.00
Non-Resident			
Adult	\$3896.00	\$1948.00	\$5844.00
 Child 2 – 12 	\$2596.00	\$1300.00	\$3896.00
 Infant up to 2 years 	\$1948.00	\$ 976.00	\$2924.00
Cremated Remains	\$2164.00	\$1084.00	\$3248.00
Grave Space – Above Ground Burial	General	Care Fund	Total
Resident			
 Top 2 rows, Columbaria niche, single 	\$2216.00	\$ 244.00	\$2460.00
 Middle row, Columbaria niche, single 	\$1108.00	\$ 122.00	\$1230.00
 Bottom 2 rows, Columbaria niche, single 	\$ 998.00	\$ 110.00	\$1108.00
Scatter gardens - cremation	\$ 250.00	\$ 27.50	\$ 277.50
Former Resident			
 Top 2 rows, Columbaria niche, single 	\$3324.00	\$ 366.00	\$3690.00
 Middle row, Columbaria niche, single 	\$1662.00	\$ 183.00	\$1845.00
 Bottom 2 rows, Columbaria niche, single 	\$1497.00	\$ 165.00	\$1662.00
 Scatter gardens – cremation 	\$ 250.00	\$ 27.50	\$ 277.50
Non-Resident			
 Top 2 rows, Columbaria niche, single 	\$4432.00	\$ 488.00	\$4920.00
 Middle row, Columbaria niche, single 	\$2216.00	\$ 244.00	\$2460.00
 Bottom 2 rows, Columbaria niche, single 	\$1996.00	\$ 220.00	\$2216.00
 Scatter gardens, cremation 	\$ 250.00	\$ 27.50	\$ 277.50

BYLAW No. 1717

Schedule B (continued) Bylaw Permits and Fees

Services			
Opening and Closing Grave for Burial			
 Adult 	\$1200.00		\$1200.00
 Veterans 	\$1080.00		\$1080.00
 Infant 	\$ 600.00		\$ 600.00
 Child 2 – 12 	\$ 900.00		\$ 900.00
 Cremated Remains 	\$ 540.00		\$ 540.00
 Niche/Cremation Wall 	\$ 280.00		\$ 280.00
Opening and Closing Grave for Exhumation/Disinterment			
 Adult and Child 	\$2400.00		\$2400.00
 Infant 	\$1440.00		\$1440.00
 Cremated Remains 	\$1440.00		\$1440.00
 Niche/Cremation Wall 	\$ 560.00		\$ 560.00
Grave Liners*			
 Adult and Child 			Market
 Cremation 			Value
*copy of purchase invoice to be provided to client		25	Plus 10%
Installation of Memorials			
 Single 12"x20" 	\$ 300.00	\$ 70.20	\$ 370.20
 Double 18"x30" 	\$ 300.00	\$ 70.20	\$ 370.20
 Vertical Marker Single 	\$ 300.00	\$ 70.20	\$ 370.20
 Vertical Marker Double 	\$ 300.00	\$ 70.20	\$ 370.20
 Cremation 8" x 12" 	\$ 240.00 \$ 300.00	\$ 70.20 \$ 70.20	\$ 310.20 \$ 370.20
 Family Memorial Marker 18" x 30" 	\$ 300.00 \$ 100.00	\$ 25.00	\$ 125.00
Niche/Cremation Wall Memorial Plate	\$ 100.00	Ψ 23.00	\$ 125.00
Miscellaneous Charges	T	1	
Extra Depth	\$ 600.00		\$ 600.00
Burials on Saturday, Sunday or	2 times		2 times
Statutory Holiday or after Regular	fee		fee
Hours	10000000		197974 (1
Transfer of Licence	\$ 120.00		\$ 120.00
Surrender/Sell Back Administrative	\$ 120.00		\$ 120.00
Fee			21

Schedule C Engineering / Public Works Services and Fees

Engineering Services and Fees

A schedule of fees for the provision of project administration to outside agencies, corporations, other governments, companies, strata councils/corporations, and private property owners will be based upon available resources with the District engineering services being a priority.

1. Project Administration

a. Up to 15% of the base price of the project excluding taxes. Applicable taxes to be added for the total cost of project administration provided.

Public Works Services and Fees

A schedule of applicable fees for the provision of public works services to outside agencies, corporations, other governments, companies, strata councils/corporations, and private property owners will be based upon available resources with the District operational services being a priority.

Equipment

a. The applicable equipment hourly rate and/or portion thereof for each specific piece of equipment used to provide the public works service at current District charge out rates based on Industry Standard. The equipment operator charge is an additional fee charged as per item 2 below. Applicable taxes to be added for the total cost of public works services provided.

2. Manpower/Labour/Equipment Operator

- a. The applicable hourly rate and/or portion thereof for each individual job classification used to provide the public works service plus a sixty percent (60%) overhead charge. Applicable taxes to be added for the total cost of public works services provided.
- b. The applicable hourly overtime rate and/or portion thereof for each individual job classification used to provide the public works service plus thirty percent (30%) overhead charge. Applicable taxes to be added for the total cost of public works services provided.

BYLAW No. 1717

Schedule C (continued) Engineering Services and Fees

Gravel Pit Fees

Description	Unit Rate/m3	Loaded/m3	Conversion to Tonnes
Mixed Soil	\$2.00	add \$1.50	1.93t/m3
Pit Run Gravel	\$9.00	add \$1.50	1.93t/m3
Rock			
300 mm minus - one sort	\$10.20	add \$2.00	2.2t/m3
300 mm minus – two sort	\$14.45	add \$2.00	2.2t/m3
>300 mm	\$24.00	add \$2.50	2.2t/m3
Sand/ Salt			
Road Salt	\$190.00		
Blended Sand/Salt	\$ 55.00		-
Road Sand	\$ 11.00		
Dumping Fee			
Clean Fill	\$15.00/load		
Brush/Wood	\$25.00/load		

Schedule D Parks and Recreation Fees

SERVICE		2023		L		2024	
FACILITY ADMISSION	N (DAILY R	ATES)		_			
Tots (3 yrs and under)		Free		L		Free	
Child	20 10	\$3.10		L		\$3.15	
Teen/Student		\$4.80		L		\$4.90	
Adult		\$5.95		L		\$6.05	
Older Adult	27 7	\$4.80		L		\$4.90	
Super Senior (80 yrs +)		Free				Free	
Family		\$12.00				\$12.25	
\$2 Activity Special		\$2.00		L		\$2.00	
Gymnasium Only		\$3.30		L		\$3.35	
Specialty Fitness			\$8.00/cla	as	s/person		
Child Summer Pass			\$25 (July	a	nd August)		
Youth Summer Pass			\$35 (July	a	nd August)		
PASSES	10 PASS	20 PASS	1M PASS	Γ	10 PASS	20 PASS	1M PAS
Child	\$27.90	\$49.60	\$37.20	r	\$28.35	\$50.40	\$37.80
Teen/Student	\$43.20	\$76.80	\$57.60	T	\$44.10	\$78.40	\$58.80
Adult	\$53.55	\$95.20	\$71.40		\$54.45	\$96.80	\$72.60
Older Adult	\$43.20	\$76.80	\$57.60	T	\$44.10	\$78.40	\$58.80
Family	\$108.00	\$192.00	\$144.00	T	\$110.25	\$196.00	\$147.00
				_			
GYM ONLY PASSES	10 PASS	20 PASS	1M PASS	-	10 PASS	20 PASS	1M PAS
Child	\$13.95	\$24.80	\$18.60	-	\$14.18	\$25.20	\$18.90
Teen/Student	\$21.60	\$38.40	\$28.80		\$22.05	\$39.20	\$29.40
Adult	\$26.78	\$47.60	\$35.70	-	\$27.23	\$48.40	\$36.30
Older Adult	\$21.60	\$38.40	\$28.80	L	\$22.05	\$39.20	\$29.40
Family	\$54.00	\$96.00	\$72.00		\$55.13	\$98.00	\$73.50
MEMBERSHIPS	3 MONTH	6 MONTH	12 MONTH		з монтн	6 MONTH	12 MONT
Child	\$80.60	\$124.00	\$232.50		\$81.90	\$126.00	\$236.25
Teen/Student	\$124.80	\$192.00	\$360.00		\$127.40	\$196.00	\$367.50
Adult	\$154.70	\$238.00	\$446.25	100	\$157.30	\$242.00	\$453.75
Older Adult	\$124.80	\$192.00	\$360.00		\$127.40	\$196.00	\$367.50
Family	\$312.00	\$480.00	\$900.00		\$318.50	\$490.00	\$918.75
GYM ONLY							
MEMBERSHIP	3 MONTH	6 MONTH	12 MONTH	200	3 MONTH	6 MONTH	12 MONT
Child	\$40.30	\$62.00	\$116.25		\$40.95	\$63.00	\$118.13
Teen/Student	\$62.40	\$96.00	\$180.00		\$63.70	\$98.00	\$183.75
Adult	\$77.35	\$119.00	\$223.13	Ĭ	\$78.65	\$121.00	\$226.88
Older Adult	\$62.40	\$96.00	\$180.00	i	\$63.70	\$98.00	\$183.75
Family	\$156.00	\$240.00	\$450.00	Î	\$159.25	\$245.00	\$459.38
				26			
RENTALS		_	405	_	'OIL		_
Fitness Room			1,333	-	0/hr		
Variety Play Room			183,000	C/X	O/hr		-
Multi-Purpose A	\$30.60/hr						
Multi-Purpose B	\$20.40/hr						
Kitchenette		\$15.30/hr					
Gymnasium - Half	\$71.40/hr \$127.50/hr						
Gymnasium - Full			The second second		action of	-	
Full Facility Rntl	For least	on profit		-	00/hr	lone 4h-4	ro le cer
Non-Profit	For local non-profit and charitable organizations that are in good standing and the activity provodes direct benefit to the District the rental fees will be 50 percent as listed above (discount not applied to full facility rental).						

Schedule D Parks and Recreation Fees

SERVICE		2023	1	2024
				T. Commission
FACILITY ADMISSION (DROP-IN RATE	S) per day			
Tots (3 yrs and under)	Free			Free
Child		\$2.75		\$2.80
Teen/Student		\$4.20		\$4.30
Adult		\$5.35		\$5.45
Older Adult		\$4.20		\$4,30
Super Senior (80 yrs +)		Free		Free
Family		\$10.70		\$10.90
Specially and Aquatic Fitness		\$8.00/c1	ass/person	
PASSES	10 PASS	20 PASS	10 PASS	20 PASS
Child	\$24.79	\$44.06	\$25.20	\$44.80
Teen/Student	\$37.80	\$67.20	\$38.70	\$68.80
Adult	\$48.15	\$85.60	\$49.05	\$87.20
Older Adult	\$37.80	\$67.20	\$38.70	\$68.80
Family	\$96.30	\$171.20	\$98.10	\$174.40
MEMBERSHIPS		SEASON		SEASON
Child		\$88.00		\$89.60
Teen/Student		\$134.40		854/AF8/1/9/C
Adult		\$171.20	\$137.60	
Older Adult			\$174,40 \$137.60	
A service design and the service design and t	\$134.40		\$137.60	
Family	\$342.40		\$4.08	
PER LANE BASE COST	1	\$4.00	1	\$4.08
PRIVATE RENTALS		#20 ANK	I	**************************************
Local Non-Profit - Per Lane	\$20.00/hr			\$20.10/hr
Crivate - Per Lane	\$24.00/hr			\$24.15/hr
Commercial - Per Lane	-	\$28.00/hr	\$28.25/hr	
Non-Resident - Per Lane		\$28.00/hr	\$28.25/hr	
Local Non-Profit - Entire Pool		\$120.00/hr	\$120.60/hr	
Private - Entire Pool		\$144.00/hr	\$144.90/hr	
Commercial - Entire Pool		\$168.00/hr	-	\$169.50/hr
Non-Resident - Entire Pool		\$168.00/hr		\$169.50/hr
SCHOOLS	Includes up	at \$32.00/staff/hr (f		CONTRACTOR OF THE RESIDENCE OF THE PARTY OF
School District #78	As per	Joint Use Policy	As per	Joint Use Policy
Private School		\$120.00/hr		\$120.60/hr
	Includes	two staff - additions	-	ed will be billed at
SWIM CLUB		\$32.00/staff/hr (Mi	Inimum 2 hr c	
Practice (Per Lane)	\$14.70/hr			\$14.75/hr
Practice Entire Pool (DOK Staff)	\$88.20/hr		-	\$88.50/hr
Practice Selfguarded (No DOK Staff)	IV-	\$24.00/hr	Ш	\$24.50/hr
Swim Meet (DOK Staff)				
SWIM INSTRUCTION		Towns and the second	П	
60 Minute Set	-	\$70.62	-	\$72.03
45 Minute Set		\$59.64	-	\$60.83
30 Minute Set	\$49.77		-	\$50,77
Private Lessons - 30 minutes		\$28.72	\$29.29	
Semi-Private Lessons - 30 minutes		\$19.87		\$20.27

Schedule D Parks and Recreation Fees

SERVICE		2023	M-V-SL		2024	
	SPORTS FIELDS					
USER FEES: LOCAL						
Child/Youth		5.90/field/l	hr		\$6.00/field/I	nr
Adult		11.00/field/			11.20/field/	
Addit	1			2-2-0		
	Agas	Agassiz Two Pitch League - \$500 deposit / tournament				
Lighting			\$11.2	5/game		
USER FEES: NON-R	ESIDENT C	R COMME	RCIAL			
Diamonds	\$	13.50/field/	hr	5	13.75/field/	hr
Tournament	\$2	11.95/field/	day	\$2	16.90/field/	day
Lighting	The same		\$11.2	5/game		
Lighting	SPECI	AL EVEN	TS AND M	-	EOUS RE	NTALS
	TENT		alter in Parking Physics			
	The second second	ntary use f	or non-profi	t or charita	ble organiz	ations
Community Groups	that bring	direct ben	efit to the D	Istrict		
	Additional	Staff Char	ges			
Public Works	See Sch	edule C-En	glneering/P	ublic Works	Services a	and Fees
Engineering Recreation/						
Administration			Actual Cos	ts plus 20%	•	
	RIDING R	NG				
Special Event			\$102.	00/day		
rai w extent			ALCOHOL:	and the second		
Hourly Rate	DIIDI IC S	BECIAL OC	Control of the last	20/hr	EER GARDI	EN
	PUBLIC SPECIAL OCCASION LICENCES: BEER GARDEN					
Application Fee	\$37.75/day					
	\$100.00 / community event or sporting event (waived for local non-					
Application Foo			organizatio	ns that bring		
Application Fee	CAMPING	District)				
Individuals (Alm	\$20.40/unit/night					
Park Only)	lean or		\$20.40/1	monigne		
Small Group (16 units or less)	\$14.30/u	It/night for	non-profit	or charitabl	e organizat	ions that
Permit Required		bring	direct bene	fit to the D	istrict	
Groups (17 + units)	\$229.50/ni	ght for non	-profit or cl	aritable or	ganizations	that brin
Permit Required		di	rect benefit	to the Dist	rict	
	SKATEBO	ARD PARK				
Rental			\$153.	00/day		
	OUTDOOR	EVENT EL	ECTRICAL			
Rental	PYTT			utlet/day		THE R
and the last and the last and						
ABERDEEN HALL	Evening	Half-Day	Full-Day	Evening	Half-Day	Full-Day
Rental - 2nd Fir	\$25.50	\$35.70	\$51.00	\$25.50	\$35.70	\$51.00
LIBRARY MTG	Evening	Half-Day	Full-Day	Evening	Half-Day	Full-Day
Community-NPO	\$25,50	\$35.70	\$51.00	\$25.50	\$35.70	\$51.00
Other	\$40.80	\$61.20	\$91.80	\$40.80	\$61.20	\$91.80
KEY DEPOSIT						
			400 F 4		4	
Various			100 Refund	able Depos	it .	
\$300.00/Use including Return Trip OR \$1000.00/Month or						
Commercial Vessel	\$300.1	Juluse Incl	\$3,000.	A CONTROL OF THE PARTY OF THE P	1000.00/MC	men or

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BYLAW No. 1717

Schedule E Office Administration and Miscellaneous Fees

Fees for Respective Services

(Applicable taxes to be added as required)

i. Current copy of Official Community Plan or Zoning Bylaw \$100.00

ii. Current copy of Subdivision and Development Bylaw \$ 25.00

iii. Copies, Maps, Air Photos and GIS Services

Black & White Photocopies, letter size to 11"x17"	\$ 0.50
> 11"x17"	\$ 3.00
Colour Photocopies, letter size to 11"x17"	\$ 2.00
> 11"x17"	\$ 5.00
Custom Size Colour Prints	¢ 5.00
Letter size to 11"x17"	\$ 5.00 \$ 10.00
>11"x17" up to E Size	\$ 10.00
(i.e cadastral map, extra data)	
<u>Air Photos</u>	
Letter size to 11"x17"	\$ 7.00
>11"x17" up to E Size	\$ 23.00
Air Photos with extra data	
Letter size to 11"x17"	\$ 8.75
>11"x17" up to E Size	\$ 28.75
Custom map orders (1 hour minimum)	\$100.00/hour
Digital Cadastral Information	\$ 60.00/mb or
	minimum of \$5.00
Digital Air Photo (per sheet from map grid)	\$150.00
Scanned Copies up to 11" x 17"	\$ 0.50
Scanned Copies greater than 11" x 17"	\$ 5.00

iv.	Copy of tax notice or statement or utility statement
	(other than the owner or holder of a registered charge)

\$ 5.00

v. Mortgage Company - property tax listings

\$ 10.00 per folio

vi. Tax Certificate (manual)

\$ 39.00

BYLAW No. 1717

Schedule E (continued) Office Administration and Miscellaneous Fees

Fees for Respective Services (continued):

(Applicable taxes to be added as required)

Accesses to the	Controving to the destrict of the Control of the Co	
vi.	Letter of Compliance (when requested) per folio	\$200.00
vii.	Request for information requiring research into the District's archival records; or for information dating back over two (2) years; or for information requiring more than fifteen (15) minutes to locate (plus applicable photocopy rates)	\$ 40.00/hr (or \$10.00/15 mins after the first 15 mins)
viii.	Zoning handouts i. general regulations ii. all other handouts	\$ 5.00 \$ 1.00
ix.	Agenda fees for Council Meetings, Public Hearings or Committee i. Complete Agenda packages for Council, the Library and local newspaper(s) ii. Agenda Cover sheets iii. Agenda including attachments up to 100 pages iv. Agenda including attachments 101-200 pages v. Agenda including attachments greater than 200 pages	no fee no fee \$ 5.00 \$ 7.50 \$ 12.50
Х.	Removal of Section 57 Notice from Title	\$350.00
xi.	Removal of Judgment from Title	\$350.00
xii.	Liquor Primary or Food Primary Licences i. New Applications ii. Change in hours or other conditions	\$1,500.00 \$1,000.00
xiii.	Retail Cannabis Sales i. Processing a Provincial Cannabis Retail Licence Application ii. Processing Changes to a Provincial Cannabis Retail Licence	\$1,500.00 \$1,000.00
xiv.	Land title searches, documents or plans (digital file)	\$20.00
XV.	Business Directory Signs: One Sign (per business) Includes cost of lettering; installation; administration; future maintenance Two Signs (per business) Includes cost of lettering; installation; administration; future maintenance	\$100.00 \$150.00

BYLAW No. 1717

Schedule E (continued) Office Administration and Miscellaneous Fees

Fees for Respective Services (continued):

(Applicable taxes to be added as required)

xvi. Oaths and affidavits \$ 15.00

xvii. Statutory Declaration \$ 20.00

xviii. Returned cheque / payment \$ 25.00

xix. Postage / Courier Fees Cost of Service Excludes standard letter delivered by Canada Post (Plus 10% Administration Fee)

xx. Tipping Fees at Kent Recycling for Organic Green Waste and Clean Wood products

Load Size	Resident Fee	Non-Resident Fee
1 bag	\$3.00	\$5.00
1 car load	\$7.00	\$10.00
1 truck load	\$12.00	\$15.00
1 *trailer load	\$12.00	\$15.00
1 truck and *trailer load	\$25.00	\$30.00

^{*}trailer load must be 15 feet or less

xxi. Strata Title Conversion

i. Application Fee

\$1,000.00

xxii. Agricultural Land Commission (ALC) Application

i. Staff Report(s) to Councilii. Public Meeting required by Council/ALC

\$1,000.00

\$ 500.00 per meeting

BYLAW No. 1717

Schedule E (continued) Office Administration and Miscellaneous Fees

xxii. Filming

Permit Application Fee	\$220 per application
Municipal Street User Fee	No Charge
No Parking Signs	\$50 per day / per location
Business Licence	As per Fees and Charges Bylaw No. 1657, Schedule B
Administration Fees	15% of total fees (before GST)
RCMP	\$100.00 per hour / per officer (minimum 4 hours; minimum 4 hours cancellation)
Fire Department	\$100.00 per hour for Fire Inspector / Approving Officer
Equipment	As per Fees and Charges Bylaw No. 1657, Schedule C
Highways Use Permit	As per Fees and Charges Bylaw No. 1657, Schedule B
Municipal Property	By quotation (starting at \$100 per hour, based on space and public access)
Public Works Staff	As per Fees and Charges Bylaw No. 1657, Schedule C
Security Deposit	By quotation (pending on type of activity and use of Municipal Property)
Fire Hydrant Use	As per Water Regulation and Rates Bylaw No. 1631

THE CORPORATION OF THE DISTRICT OF KENT

BYLAW No. 1717

Schedule F RCMP Services and Fees – Agassiz Detachment

Fees for Respective Services

(Applicable taxes to be added as required)

ic ta	nes to be added as required)		
i.	Motor Vehicle Traffic Accident Police Investigation Report (MV6020)	\$	50.00
ii.	Police Reports (includes Break and Enter and reports to Outside agencies		50.00
iii.	Measurements at Accident Scene	\$	25.00
iv.	Analyst Report	\$5	500.00
٧.	Mechanical Check on Vehicle Involved in Accident	\$	50.00
vi.	Field Drawing at Accident Scene	\$	30.00
vii.	Photographs	\$	1.50 each plus 5.00 shipping
viii.	Digital CD: 1 to 5 images 6 to 10 images 11 or more images	\$	10.00 20.00 30.00
ix.	Planned Drawing	\$	35.00
Χ.	Fingerprinting	\$	55.00
xi.	Police Information Check	\$	55.00*
xii.	Criminal Injury Cost	\$	35.00
xiii.	Court Orders	(pl	35.00 plus \$0.50 per page us any additional charges as listed when plicable)
xiv.	RCMP Security Clearance (enhanced)	\$3	800.00*
XV.	Identification Badge (photo)	\$	25.00

^{*} Bona fide volunteers determined by the Officer in Charge, RCMP or designate, where the service is directly related to an approved volunteer services; and students requiring a Police Information Check for acceptance into a recognized school program, shall be exempt from fees charged under this Bylaw.

DISTRICT OF
AGASSIZ

DISTRICT OF KENT

BYLAW NO.	1717
DATE:	
FILE NO.	

INITIALS REQUIRED INITIALS REQUIRED (CLERICAL STAFF)

DRIGINATOR	CORP ADMIN ACTION TO BE TAKEN	DONE	DATE
m	FIRST READING		
11	SECOND READING		
01	Rescind Second Reading		
	Amend Bylaw and Re-read Second		
	Approval of Reg. Dist. (borrowing byla	aws)	
	Approval of MoTI		
	Approval of Inspector of Municipalities	3	
	Approval of Ministry of Municipal Affa	airs	
	Advertise bylaw (or Waiving of bylaw)		
0	Public Hearing		
1 v	THIRD READING		
71	Rescind Third Reading		
	Amend Bylaw and Re-Read Third		
	Approval of Inspector of Municipalities	3	
	Alternate Approval Process		
	Advertise Bylaw		
	Opportunity for Public Input		
	Quashing Period		
10	ADOPTION		
	Quashing Period		
	File with Inspector of Municipalities		
		palities	palities

THIS MUST BE COMPLETED BY ORIGINATOR

LEGAL AUTHORITIES	Community Charter	
MISCELLANEOUS		

Ann Davis Transition Society has earned a Three-Year Accreditation from CARF for the following Programs and Services: Community Housing, Personal Supports Services, Services Coordination, Outpatient Treatment: Mental Health (Adults), Outpatient Treatment: Mental Health (Children and Adolescents), Prevention: Mental Health (Adults), Prevention: Mental Health (Children and Adolescents).

MAYOR Council Asst. Rec. HR Other

THE LINK TO FEMICIDES IN BC **WOMEN'S EQUITY AND**

Guest Speakers and Panelists



Kelli Paddon, MLA Chilliwack Kent **B** Parliamentary Secretary for Gender Equity



Gail Jones, Program Manager, Murdered and Missing Indigenous Women and Girls



Amy FitzGerald, Executive Director, Transition Houses BC Society of



Dr. Amanda McCormick, Associative Professor, School of Criminology and Criminal Justice, University of the Fraser Valley



45190 Caen Ave. Chilliwack UFV's Gathering Place

Way 16, 2028

RSVP Now



















Lindsay Jonk	1 0230-01 E
From: Sent: To: Subject: Attachments:	Executive Assistant April 24, 2023 2:30 PM Lindsay Jonk FW: Lower Fraser Floodplains Forum: Save the Date & Registration/Link Lower Fraser Floodplains Forum_Save the Date.pdf; Regional Forum #2 - Overview Agenda.pdf
Duane Post <dpost@kentbc.c <kschwichtenberg@kentbc.c< td=""><td>1:07 PM a@kentbc.ca>; Wallace Mah <wmah@kentbc.ca>; Sylvia Pranger <spranger@kentbc.ca>; ca>; Susan Spaeti <sspaeti@kentbc.ca>; Kerstin Schwichtenberg</sspaeti@kentbc.ca></spranger@kentbc.ca></wmah@kentbc.ca></td></kschwichtenberg@kentbc.c<></dpost@kentbc.c 	1:07 PM a@kentbc.ca>; Wallace Mah <wmah@kentbc.ca>; Sylvia Pranger <spranger@kentbc.ca>; ca>; Susan Spaeti <sspaeti@kentbc.ca>; Kerstin Schwichtenberg</sspaeti@kentbc.ca></spranger@kentbc.ca></wmah@kentbc.ca>
Dear Mayor, Council, and Sta	ff from the District of Kent,
Lower Fraser Floodplains Coa Spranger and Mr. Wallace Ma Lower Fraser Region. I wante local governments are a part	Lower Fraser Floodplains Forum. This forum is the second-annual regional forum that the lition (formerly Build Back Better Together Collaborative) is hosting. Last year, Mayor ah attended to be a part of the dialogue towards building floodplains resilience in the d to extend an invitation to our second annual forum this year. We believe it is vital that of a regional approach to floodplains planning, so we hope a member of Mayor and year with support from 1-2 staff members.
	rtinent details for this event including date, location, time, purpose, and registration link. I el draft agenda with additional details.
We hope to see you on the Ju	ine 9, 2023.
Sincerely, Mariah Mund	320
Mariah Mund Resilience Coordinator Emergency Planning Secretari Housed at the Lower Fraser Fis	at sheries Alliance (<u>https://www.lffa.ca/</u>)
Email: mariah.mund@emplan Mobile: 778-995-8324 Address: 3092 Sumas Mtn. Rd. Website: https://www.emerge	Abbotsford B.C. V ₃ G ₂ J ₂
it.	Corp. S. Dir. Fin. Bylaw RCMP In Camera Date Dev. S. Dep. Fin. Dir. Rec. FIRE Agenda Place MAYOR Council Asst. Rec. HR

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Save the Date - June 9th 2023, 8:30 AM - 4 PM

S.A.Y. Health & Community Centre

(1) JUNE 9 2023

Lower Fraser Floodplains Forum







Towards a Collaborative and Principled
Approach to Flood Resilience







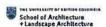












Join us on June 9th, 2023 for the second annual Lower Fraser Floodplains Forum to build on the ideas and next steps identified at <u>last year's forum</u> (July 2022 in Abbotsford). This year we will build on the five principles for working together in the Lower Fraser and:

- Start to design a roadmap for a region-wide approach to flood resilience
- Identify what's working well, and how new provincial initiatives can be tailored to support relationship building and good work specific to our region
- Continue to build respectful, place-based relationships in the Lower Fraser region

Please RSVP here

When: June 9th, 2023 from 8:30 AM - 4:00 PM

Where: The'í:tselíya - S.A.Y. Health & Community Centre; 7256 Chilliwack River Rd, Chilliwack, BC V2R 4L9

Who: Leaders from Mainland Coast Salish First Nation and local governments, federal and provincial ministries and agricultural associations. Staff support is welcome. Attendance from NGOs and subject matter experts by invite only.

Background: In July 2022, representatives from 16 First Nations, 14 local governments, and senior staff from federal and provincial agencies set out to find common ground to inform a strategic approach to flood recovery and long-term resilience in the Lower Fraser. Together we identified 3 areas for action:

- Proactive planning and risk reduction –Merely responding to emergencies is not sufficient. "We need timelines and milestones, without this there is no progress – we need a roadmap of where we are going."
- 2. Collaboration and regional-scale approaches Local leaders are prepared to collaborate with their neighbours and across the region because "Water doesn't respect municipal boundaries."
- 3. Modernized funding mechanisms and programs to support resilience and reconciliation on the ground Including First Nations in decision making from the earliest stages, supporting multi-benefit and nature based solutions, and improved funding that addresses legacy problems.

Who are the organizers: The Lower Fraser Floodplains Coalition (formerly Build Back Better Together Collaborative) is a group of BC-based organizations and experts with the shared goal of helping BC's flood recovery and management efforts achieve the best possible outcomes. We offer interdisciplinary support from a diverse range of interests, experience and networks, including Indigenous groups, conservationists, farmers, environmental legal specialists, researchers and natural resource professionals.

This gathering is funded by Emergency Management & Climate Readiness (formerly EMBC) and Indigenous Services Canada. Minister Ma of EMCR has confirmed her attendance to listen and learn, engage, and create lasting partnerships with forum participants.

For more information please contact:

Resilience Coordinator, Mariah Mund – E: mariah.mund@emplans.ca | C: 778-995-8324 Capacity Coordinator, Dianne Garner – E: dianne.garner@emplans.ca | C: 604-798-4519















Build Back Better, Together Regional Forum #2

V.2 updated Apr 20, 2023

Date: June 9, 2023, 8:30 - 4:00

Location: Skowkale Community Centre

Format: In person, with online option available

Objectives:

- Discuss and work towards agreement on focus and priorities for a region-wide approach to implementing the BBBT principles
- Continue to build awareness, capacity and place-based relationships to implement the BBBT principles in the lower Fraser region

Draft Agenda (high-level)

Morning (8:30 - 12:15)

- Welcome
 - Host Nation
 - Regional Forum Co-Chairs
- Context setting
 - Place names and history of the region
 - Updates since the first regional forum (provincial and regional)
- A Region-Wide Roadmap
 - Presentations: examples of region-wide approach, and context for applying the BBBT principles at a regional scale
 - Small group discussions: discuss scope/purpose and priorities for region-wide approach
- · Ministers' Reflections

Lunch (12:15 - 1:00)

Afternoon (1:00 - 4:00)

- Applying a 5 Principle Lens to key questions & topics
 - Presentations: examples of 5 principle lens in practice (policy, funding criteria, projects)

o Small group discussions: clarify and deepen understanding of key issues

Moving Towards Agreement

 Review proposals and work towards agreement on regional scope and near-term priorities

Closing

- o Regional Forum Co-Chairs
- Host Nation





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ABBOTSFORD REGIONAL HOSPITAL CHILLIWACK GENERAL HOSPITAL

FRASER CANYON HOSPITAL MISSION MEMORIAL HOSPITAL

April 20, 2023

11.3.1



Lindsay Jonk 7170 Cheam Avenue PO Box 70 Agassiz BC V0M 1A0

Dear Lindsay,

Thank you for supporting improved health care in the Fraser Valley East. The gifts we have received from individuals, families, businesses and organizations have made a positive impact on health care in our communities.

Thanks to the caring of people like you, <u>we are now fully funded</u> for the renovation and equipment of the breast health clinic at Chilliwack General Hospital, and for the purchase of the CT scanner for Mission Memorial Hospital. I invite you to read the full stories, and more, in the enclosed brochure.

We continue to work to improve health care in our communities. Currently pacemakers are not implanted at any facility in the Fraser Valley East, meaning people requiring a pacemaker must leave our area – but that is about to change. I am pleased to announce that the Pacemaker Implant Program at Abbotsford Regional Hospital, as part of the Fraser Health Authority Implantable Cardiac Electrical Device (ICED) Program, will be active by September 2023.

This brand-new initiative will have a huge, positive impact on everyone in the Fraser Valley East who requires pacemaker implantation, and it is just another example of what can be achieved when we all work together.

Every gift to the foundation is truly a gift of healing, health, and life. Your past support has helped us provide equipment, technology and tools that make our hospitals, and our health care teams, among the best in Fraser Health and I assure you, every gift you give stays right here in the Fraser Valley East.

Thank you again for your generous support, it has meant a great deal to so many.

Sincerely,

, / 6	School (ASS)		
Elizabeth Harris,	CAO Dir. Eng. Dir. P.W.	PEP [Agenda Date May 8 /23
Executive Director	Corp. S. Dir. Fin. Bylaw	RCMP[In Camera Date
Fraser Valley Health Care Foundation	☐ Dev. S. ☐ Dep. Fin. ☐ Dir. Rec.		
	MAYOR Council Asst. Rec	. □HR [Tother Rec. for info.
8 g			UU

MISSION MEMORIAL HOSPITAL (MMH)

CT SCANNER INITIATIVE FUNDED



The community rallied behind our campaign to raise \$1.1 million to bring a CT Scanner to Mission Hospital, and boosted by a generous \$500,000 Canada Day gift from Mission philanthropist Mr. Sukhdev Gerwal, we're pleased to announce that together we reached our goal. The new CT Scanner, bringing improved health care close to home, and made possible by our generous supporters, will be operational early in 2024.

"The CT Scanner will elevate health

care at MMH to a completely new level." Says Dr. Amarjit Bajwa, Department Head, Medical Imaging. "Thank you very much to everyone who contributed to bringing this life saving diagnostic tool to our hospital."

CHILLIWACK GENERAL HOSPITAL (CGH)

TECHNOLOGICALLY ADVANCED MAMMOGRAM INITIATIVE FUNDED

Thanks to the Chilliwack Dogwood Monarch Lions Club, Lions Clubs International Foundation, Lions Clubs in Chilliwack and Agassiz, and other community groups, we are pleased to announce that by working together, we are fully funded for the renovation and equipment of the breast health clinic at Chilliwack General Hospital.

Says Liz Harris, executive director of FVHCF, "Thank you so much to everyone in the community that pulled together and made this possible. It is only with the generosity of you, our loyal supporters, that we are able to upgrade our equipment to take advantage of latest technological advances."



MAKING AN IMPACT

EVERY DONOR & EVERY DOLLAR COUNTS

1–Abbotsford: Gavin & Daiya donated their birthday money to the pediatrics department. 2–Chilliwack: Kiwanis Club of Chilliwack donated hand out bags for the Baby Safe Start & New Parent Support programs. 3–Hope: The Royal Canadian Legion Branch 228 Hope donated a new Crash Cart. 4–Mission: The City of Mission donated a new ultrasound.









THANK YOU

for your support

If you would like to support Fraser Valley Health Care Foundation with an event please email us at info@fvhcf.ca

Fraser Valley Health Care Foundation

raises funds for vital equipment and programs funded or endorsed by Fraser Health. We serve the communities of Abbotsford, Mission, Chilliwack, Hope, Agassiz, and Harrison Hot Springs.

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IMPROVING OUTCOMES & EFFICIENCY IN OUR FRASER VALLEY EAST COMMUNITIES





YOUR COMMUNITY YOUR HOSPITAL YOUR FOUNDATION

ABBOTSFORD REGIONIAL HOSPITAL (ARH)

A FIRST AND ONLY INNOVATION



Fiona Howarth, Clinical Nurse Educator in the ICU at Abbotsford Regional Hospital along with her tearn have developed a timely, first and only innovation, that helps reduce the time ICU patients spend ventilated, and the time it takes to wean them from the vent.

Patients on mechanical ventilators are sedated to provide comfort and physical stability. Inappropriately high or low levels of sedation has risks, and identifying events like seizures, can be challenging.

For just over two years Fiona and her ICU team have risen to meet the challenge by using neurological monitors to measure brain activity. The monitors let the care team know if the patients are experiencing nonconvulsive seizures or other neurological alterations, enabling the team to adjust the level of sedation, so each patient receives exactly the level of sedation they require.

Overly sedated patients take longer to be weaned from the ventilator and once off the vent they also experience more delirium, muscle weakness, PTSD and other mental health problems.

Fiona reports, "Since using the monitors our patients are doing so much better. We have seen a 35% reduction in the average number of days each patient spends ventilated, and a 65% reduction in post ventilation delirium. Patients averaged six days on the vent prior to the monitoring and that average has come down to four days."

ICU patients spending less time ventilated, and recovering more quickly, means more ICU beds are available. But, most importantly, the use of these non-invasive monitors has improved the quality of life for our patients and their families.

This 100% nurse let initiative is attracting attention in the medical community and Fiona has presented the results at conferences. Says Fiona, "I am so proud of our CU care team and I am very grateful to our donors, without whom, none of this would have been possible."

FRASER VALLEY EAST (FVE)

FORENSIC CARE FOR SURVIVORS

Forensic nurses treat and document the trauma experienced by victims of violence and abuse, including sexual assault, intimate partner violence, elder and child abuse or neglect and other forms of intentional injury.

Christina Simpson is the Coordinator of the Forensic Nursing Service at Abbotsford Regional Hospital, Working out of the Emergency Department, Christina and the other forensic nurses provide compassionate care, document and collect evidence and give expert witness testimony in court.

Fraser Valley Health Care Foundation, thanks to the support of their donors, recently provided the Forensic Nursing Service with a Cortexflo camera and lighting system. The Cortexflo makes forensic photography of physical and sexual assault injuries simple, accurate, fast and admissible in court.

Prior to receiving the Cortexflo the forensic nurses were using a DSLR camera, but it didn't provide the image quality, external lighting or secure encrypted data storage required for forensic photography.

The forensic nursing service at Abbottsford, created in 1999 to treat 15 patients a year in the Fraser Valley East and Fraser Canyon, now treats around 160 patients a year. Patients arriving at doctor's offices or other hospitals in the region, who report or show signs of violence or abuse, have their immediate medical needs cared for, before being transferred to Emergency at Abbotsford for treatment and assessment by a professional forensic nurse.

"We are seeing a lot of domestic violence cases that involve strangulation or other grievous trauma," says Christina.

Given the growth in the number of annual cases and the seriousness of many of them, Fraser Health is considering expanding the now on-call Forensic Nursing Service to include some regularized positions to better meet the needs of the community.

The ICU team. \$ \$3,554,674 Raised in Total

2022-23 by the Numbers



\$77,500 Raised by 3rd party Events \$261,311 Raised by Foundation Events



796 Gifts to Abbotsford 182 Gifts to Mission 643 Gifts to Chilliwack 154 Gifts to Hope

HOPE - FRASER CANYON HOSPITAL (FCH)

THE LITTLE HOSPITAL THAT DOES

When it opened in January 1959, Fraser Canyon Hospital boasted an operating room, 26 beds, three doctors, and 10 regular nurses – one of whom was Director of Nursing Mary Lou Jacobs, who pretty much ran the hospital.

Born and raised in Ontario, Mary Lou had only been a nurse for a few years when she was hired to run the brand-new Fraser Carryon Hospital, that wasn't even finished yet. She left her home province and everything she knew behind, and made the journey west to Hope, BC to a new hospital and a new life.

"I did everything from ordering equipment to choosing the colours of the paint for the walls" says Mary Lou, "I also hired the staff and set up the hospital. I was thrilled. How often do you get to start your own hospital?"



Mary Lou at her home in Hope BC, March 2023, and when she graduated from nursing school. In the 1960's it took a lot longer to drive from Hope to Chilliwack or Abbotsford than it does today, so the Fraser Canyon Hospital performed surgeries including tonsillectomies, c-sections and hysterectomies. A lot of babies were born at Fraser Canyon Hospital back in the 1960's too, but these days expectant mothers from the area are referred to Chilliwack for level one low risk births, or Abbotsford for level two higher risk births.

Now fitted with eight medical beds, two hospice beds, and an eight-bay emergency department staffed 24/7, the dedicated healthcare team provide, emergency, acute and end of life care, close to home, for the 6,699 residents of Hope and the surrounding area. They also offer immediate emergency

care and triage for travelers involved in motor vehicle or other accidents—and they still deliver a few unexpected babies from time to time.

Located at the juriction of three major highways an estimated 36,000 people travel through Hope every day in the summer months. In an area often subject to extreme weather conditions, Fraser Canyon Hospital's healthcare professionals provide the only care available when highways are closed due to flooding, landslides, or whiteout conditions and it's too windy for helicopters to fly.

Mary Lou, who still lives in Hope and donates regularly to the hospital, is both proud and pleased to see the hospital she was so instrumental in setting up is still a key feature in the community and the province.

I would like to make a gift to FVHCF

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Choose your donation

One-time	e I would like	to make a special gift of:	
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Lindsay Jonk 7170 Cheam Avenue PO Box 70 Agassiz BC VOM 1A0

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O CHEQUE (I've enclosed a cheque payable to: Fraser Valley Health Care Foundation)

CREDIT CARD NUMBER NAME (as it appears on card)

SIGNATURE

Please use my gift for the greatest need in: Overall O Abbotsford O Mission O Chilliwack O Hope

Send your donation

Mail this completed reply form with your donation in the postage-paid envelope provided, or donate online at fvhcf.ca

This is a O personal (or) O organizational pre-authorized debit for charitable purposes.

PLEASE SEE REVERSE

EMAIL



FRASER VALLEY HEALTH CARE

TELEPHONE

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I understand that I can suspend my direct giving at any time simply through a phone call or written notice to Fraser Valley Health Care Foundation. I also understand that my contribution is tax-deductible. A tax-receipt will be issued to me at the beginning of the next calendar year. I acknowledge that delivery of this authorization to Fraser Valley Health Care Foundation constitutes delivery by me to the above-noted financial/credit institution.

To obtain more information on my recourse rights, I may contact my financial institution or visit www.cdnpay.ca.

Registered Charity Number: #871156725 RR0001

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O Please email my tax receipt (issued for donations of \$25 or more) to the email address on the reverse.

Yes, I would like to receive news and updates by:
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O I have left a gift to FVHCF in my will

OI would like information about leaving a gift to FVHCF in my will

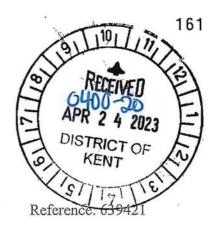


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COPY



11.3.2



April 24th, 2023

Her Worship Sylvia Pranger Mayor, District of Kent Email: spranger@kentbc.ca

Dear Mayor Pranger:

Thank you for your correspondence dated March 10th, 2023, addressed to my honourable colleagues Mike Farnworth, Minister of Public Safety and Solicitor General, and Anne Kang, Minister of Municipal Affairs, as well as your letter dated March 17th, 2023, regarding Disaster Financial Assistance Arrangements (DFAA) and Disaster Financial Assistance (DFA). I am responding to your letters on behalf of Ministers Farnworth and Kang.

I acknowledge the significant impact the 2021 atmospheric river event has had on the many communities in the eastern Fraser Valley and the need for federal and provincial support to rebuild the damaged infrastructure caused by the event.

As of March 31st, 2023, the federal government has provided the Province of British Columbia with \$1.026 billion in advance payments, through DFAA to atmospheric river recovery efforts. Local governments and First Nations do not access federal government assistance directly. Funding is delivered through provincial programs such as DFA and other recovery programs when an event is declared by the province.

The DFA program helps communities recover from an event by providing financial support towards eligible infrastructure repairs and to assist with losses that could not be insured. A recovery plan has been received and approved from the Seabird Island Band to repair damages to Seabird Island Road from the November 2021 atmospheric river. The DFA program has also approved and paid a cost recovery plan to repair damages to the District of Kent's Rockwell drive watermain after a heavy rainfall event in January 2020. If there is damage caused by the atmospheric river event to other community-owned infrastructure, this may be eligible for assistance under the Province's DFA program.

The remaining projects identified in the letter addressed to Deputy Prime Minister Chrystia Freeland, on February 9th, 2022, and in the letter dated March 17th, 2023, are mitigation projects and are not eligible for financial support through the DFA program. However, the Province recently announced a contribution of \$180 million to support community emergency preparedness and mitigation projects. This support can be accessed through the Community Emergency Preparedness Fund (CEPF), administered by the Union of BC Municipalities, and I would encourage the District of Kent to consider applying to the relevant CEPF streams for these mitigation projects.

CAO Dir. Eng. Dir. P.W.	PEP Agenda Date May 8 23
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Dev. S. Dep. Fin. Dir. Rec.	FIRE Agenda Place B" Comes p.
THAYOR TOURS! TASS BE	HA Other Rec- bu Info -

Mayor Sylvia Pranger Page 2 of 2

*If your team would benefit from having a contact within my ministry to help them navigate the programs available to them, please reach out Heather Stober, Manager, Disaster Mitigation and Adaptation Programs, by phone at 778-698-4026 or by email at heather.stober@gov.bc.ca. Thank you again for taking the time to write.

Sincerely,

Bowinn Ma

Minister of Emergency Management

and Climate Readiness

CC: The Honourable Bill Blair, Minister of Emergency Preparedness

The Honourable Anne Kang, Minister of Municipal Affairs

Brad Vis, MP, Mission-Matsqui-Fraser Canyon

Kelli Paddon, MLA, Chilliwack - Kent

Chief Andrew Victor, Cheam First Nation

Chief Jim Harris, Seabird Island band

Chief Johnny Williams, Sq'éwlets First Nation

Tribal Chief Tyrone McNeil, Stó:lō Tribal Council

Chief Ralph Leon, Sts'ailes

Mayor Ed Wood, Village of Harrison Hot Springs



7170 Cheam Avenue PO Box 70 Agassiz, British Columbia Canada V0M 1A0 Tel: (604) 796-2235 Fax: (604) 796-9854 Web: www.kentbc.ca



March 10, 2023

File: 7130-01

VIA EMAIL

MUNI.Minister@gov.bc.ca
The Honourable Anne Kang
Minister of Municipal Affairs

PSSG.Minister@gov.bc.ca
The Honourable Mike Farnworth
Minister of Public Safety & Solicitor General

Dear Ministers Kang and Farnworth:

Re: Disaster Financial Flood Relief

I am writing to provide both Honourable Ministers with a copy of the Lets'emot Community to Community letter dated February 9, 2022 addressed to the Deputy Prime Minister in relation to the impact of the atmospheric river to our communities in the eastern Fraser Valley.

While in Abbotsford, on February 23, 2023 the Honourable Bill Blair announced a second interim payment of \$557 million from the Disaster Financial Assistance Program to the Province. The first payment of \$469 million was made in July 2022.

As noted in our letter to the Deputy Prime Minister, the Lets'emot Community to Community have identified and endorsed regional infrastructure projects for funding through the Disaster Financial Assistance Program. We want to remind both your Ministries that our communities were also significantly challenged by the atmospheric river and are still waiting for financial support.

I look forward to receiving your response as to how our communities may access this much needed funding.

Sincerely yours,

Sylvia Pranger Mayor

Encl.

c: The Honourable Bill Blair, Minister for Emergency Preparedness Brad Vis, Member of Parliament, Mission-Matsqui-Fraser Canyon Kelli Paddon, Member of Legislative Assembly, Chilliwack – Kent Chief Andrew Victor, Cheam First Nation Chief Jim Harris, Seabird Island band Chief Johnny Williams, Sq'éwlets First Nation Tribal Chief Tyrone McNeil, Stó:lō Tribal Council Chief Ralph Leon, Sts'ailes Mayor Ed Wood, Village of Harrison Hot Springs















February 9, 2022

VIA EMAIL

The Honorable Chrystia Freeland, MP Deputy Prime Minister 80 Wellington Street Ottawa, Ontario K1A 0A2

Dear Deputy Prime Minister Freeland:

RE: Disaster Financial Flood Assistance Relief

The atmospheric river storm is over in the eastern side of the Fraser Valley but not before damaging a lot of infrastructure, killing hundreds of livestock, eroding lands, destroying trees, and consuming residential/commercial properties. Deputy Prime Minister Freeland, we were so pleased to hear the announcement on December 14th, 2021 that this government is ready to step up to protect our communities from the significant impacts of climate change in the future. Setting aside \$5 billion in flood disaster recovery efforts for British Columbia demonstrates your government's leadership to help rebuild our communities.

Let us emphasize, we urgently need to invest in rebuilding the infrastructure that connects all our communities within the region. In our recent meeting with the Lets'emot Community to Community (C2C) Forum we shared our ongoing concerns with the Province about the immediate and ongoing impacts to our communities with respect to water safety, fishery health, farmland erosion, future food security, river navigability of unmanaged gravel, sediment accumulation, riverbank erosion, recurring seepage, and reinforced dikes. These are all topics of critical organic infrastructure that were compromised by climate change that we have been collectively discussing and studying for more than 30 years.

Certainly, some of the ongoing endless studies conducted by several non-profit organization(s) provided no resolution to our communities to address flood protection, salmon enhancement, and prevention of our farmlands from washing into the Fraser and Harrison River each year. We have raised this concern with the Province for many years however no pro-active measures have been applied to address these issues. Today, with funding allocated to address flood disasters, we must find new ways to work together with

the Federal and Provincial government to restore our land and reinforce infrastructure to protect our environment.

It is even more critical now for all the communities in our region to stay focused and reconstruct what mother nature took away and strengthen all our infrastructure. Collectively the C2C Forum has been committed to working together for more than 20 years in preparing a long-term strategy to hopefully bring innovative methods and fish friendly pump technology to reinforce storm water management and drainage flows in our region. We have developed plans and isolated key projects that will benefit parts of our communities and our region if these key principles were supported by the Federal/Provincial government:

- 1) Agree to develop a long-term sediment removal plan for addressing gravel bars;
- 2) Fund riverbank protection along the Fraser River and Harrison River;
- Fund dike enhancement upgrade strategy;
- Fund culverts and bridges where needed to prevent public roads from being washed away; and
- 5) Fund the recommendations of completed professional engineer studies from the different C2C Lets'emot communities in our region to manage the river and fish in a more sustainable way.

We would ask Deputy Prime Minister Freeland to refer to the attached appendices that reflect the individual community needs, as endorsed by the C2C forum group. These priority projects are recognized as essential infrastructure service connections that will eventually, if not immediately, strengthen the social and economic fabric of our communities. Furthermore, by taking pro-active steps, we will inevitably reduce the need for emergency road disasters relief in the future.

- a) Appendix "A" Seabird Island 2021 Flood Assessment Damage Assessment by Tetra Tech
- b) Appendix "B" District of Kent Flood Recovery and Mitigation Priority Projects
- c) Appendix "C" Cheam First Nation
- d) Appendix "D" Village of Harrison Hot Springs

Deputy Prime Minister Freeland, thank you for fostering infrastructure improvements and disaster relief in all of our communities. We request funding support for the projects identified by our C2C Forum group.

Chief Andrew Victor Cheam First Nation

Andrew Vie

Mayor Sylvia Pranger District of Kent James Hamis

Chief Jim Harris Seabird Island Band Chief Johnny Williams Sq'éwlets First Nation

Jak Gel

Tribal Chief Tyrone McNeil Stó:lō Tribal Council Chief Ralph Leon Sts'ailes

y wees

Mayor Leo Facio Village of Harrison Hot Springs

pc: Brad Vis, Member of Parliament, Mission-Matsqui-Fraser Canyon (brad.vis@parl.gc.ca)
Kelli Paddon, Member of Legislative Assembly, Chilliwack – Kent (kelli.paddon.mla@leg.bc.ca)
Honourable Josie Osborne, Minister of Municipal Affairs (MAH.minister@gov.bc.ca)
Honourable Murray Rankin, Minister of Indigenous Relations and Reconciliation
(IRR.Minister@gov.bc.ca)

APPENDIX 'A'





To:

Mr. Jason Campbell,

Executive Director

Date:

December 10, 2021

Reviewed by:

David Moschini, P.Eng.

Memo No.:

From:

Josh Weidner, M.Eng. P.Eng.

File:

704-ENG.WTRI03072-01

Subject:

Seabird Island 2021 Flood Damage Assessment

1.0 INTRODUCTION

Tetra Tech Canada Ltd. (Tetra Tech) was retained by Seabird Island Band (SIB) to complete an Emergency Flood Damage Assessment for Seabird Island and surrounding areas within the District of Kent. The objective of the assignment is to assess the immediate damages and medium-term impacts from the recent southern BC extreme rain events, identify emergency repairs to be completed under the BC Emergency Program and develop preliminary options to improve the island's resilience against future events. As part of the project, a team of Tetra Tech engineers and a biologist visited the project site on December 2nd, 2021 to conduct a field investigation including consultation with local community members, completion of aerial drone survey, and measurement of erosion damage for future monitoring.

This is the initial Technical Memorandum completed as part of Tetra Tech's Flood Damage Assessment. This memo is intended to provide an overview of Tetra Tech's preliminary findings and analysis from this first stage of the assignment. Further analysis and design work will be required to formalise the appropriate set of upgrades needed to repair observed damages and improve SIB's resilience against future flooding events.

A base map of the project site is provided for reference in Figure 1-1 on the following page.

2.0 BACKGROUND INFORMATION AND FIELD INVESTIGATION

2.1 Background Information

Based on the meeting with Seabird Island on November 16th, 2021, and available climate data from Environment Canada, Tetra Tech has determined the following:

- Seabird Island and the catchment draining into Maria Slough experienced an extreme rainfall event from Nov 13th to Nov 15th, 2021. Based on Environment Canada's rainfall data from the Agassiz RCS Station, the intensities of the rain events were greater than a 1 in a 100-year event. In total 155.6 mm of rain was recorded over a 24-hour period between Nov 13th and Nov 14th. The 6-hour and 12-hour intensities for the same period also exceeded 1 in a 100-year events.
- The rainfall led to extreme runoffs and flow events along several watercourses and streams at Seabird Island. A base map of the area highlighting the location of each event of concern is provided in Figure 1-1 on the following page. The identified problem areas (labelled Site 01 06) are as follows:
 - High water levels and elevated flows in Maria Slough have led to slope and road instabilities particularly along Seabird Island Road (Site 01).

OQM Organizational Quality Management Program	☐ Corp.S.	☐ Dir. Fin.	☐ Bylaw	RCMF	□ In Camera Date	Tetra Tech Canada Inc 0 – 10th Floor, 885 Dunsmuir Stree Vancouver, B C V6C 1N5 CANADA
	☐ Dev S.	☐ Dep. Fin.	☐ GIS / IT	☐ FIRE	☐ Agenda Place ☐	el 604.685.0275 Fax 604.684.6241
	☐ MAYOR	☐ Council	☐ Dir. Rec	HR	Other	





- Landslides along the northwest mountains bordering the District of Kent leading to stream blockages and road washouts. SIB is concerned blockages and flow path changes may affect fish habitat and passage at several watercourses bordering the island (Site 02A – 02D).
- 3. Landslide along Highway 7 near the northern connection of Maria Slough and the Fraser River impacting future plans to reinstate the original connection (Site 03).
- 4. The Strawberry Island Development by Sch'iye Road experienced drainage issues and several houses suffered basement flooding due to the absence of a formal drainage system needed to efficiently drain the Island. Additional concerns exist as to the potential for erosion along the banks of the island (Site 04).
- Culverts along Maria Slough were submerged, and in particular, a culvert was removed near the north side
 of Peters Road, which may have led to rapid flow and increase in water level across Maria Slough. (Site
 05A 05G).

With this base level understanding of the issues facing Seabird Island, Tetra Tech staff proceeded with a full day field investigation as detailed in Section 2.2.

2.2 Field Investigation

In undertaking an initial investigation, Tetra Tech's Hydrotechnical Engineers David Moschini, P.Eng. and Josh Weidner, P.Eng., Geotechnical Engineer Patrick Korner P.Eng., and Aquatic Biologist Cameron Kulak R.P.Bio. visited the site on December 2nd, 2021. During the site visit, the following activities were completed:

- Tetra Tech met with Seabird Island staff Jason Campbell, Executive Director and Chuck McNeil, Strategy Advisor among other personnel and conducted a tour of the areas and regions which were impacted by the recent climate events.
- Each site was reviewed for its existing state of erosion and damage and assessed for its ability to withstand near term large rainfall events.
- Multiple drone flights were conducted to obtain aerial imagery of the island's shoreline, infrastructure, and surrounding mountains. A selection of images from these flights is provided in Appendix A.
- Measurements were taken at various erosion/failure sites to document the existing conditions and to provide baseline data against which future monitoring should be compared.
- A photographic inventory of all sites of concern were compiled for reference during the desktop analysis.
- Multiple community members/landowners from SIB and District of Kent were included in the site discussions to obtain anecdotal information regarding the sequence of events and pre-flood conditions.

3.0 SITE SPECIFIC ASSESSMENTS

Following the site investigation, Tetra Tech reviewed each problem area individually from a hydrotechnical, geotechnical and environmental point of view. Our high level findings including risks and potential solutions for the five identified sites/issues are detailed below.





3.1 Seabird Island Road Erosion

High water levels and elevated flows along Maria Slough have led to saturation of the bank and loss of strength causing slope and road instabilities. Three sections of bank adjacent to Seabird Island Road were observed to have sloughed towards Maria Slough on the southwestern side of the roadway. Tetra Tech staff took measurements of the instabilities to document the slope failure and allow for monitoring of any future failure progression. The three failures were observed to have approximate lengths of 40, 15, and 14 m with a maximum height of sloughing observed between 0.7 - 1.2 metres. Photographs of two of the sloughing sites are provided in Figures 3-1 and 3-2 below and in Appendix A. Similar failure were also noted along Chaplin Road within the District of Kent.



Figure 3-1: Tetra Tech staff measuring sloughing on the west side of Seabird Island Road



Figure 3-2: Sloughing on the west side of Seabird Island Road

3.1.1 Hydrotechnical Considerations

Subsequent future high-water events will serve to advance erosion at these locations and others along Seabird Island Road's steep embankments. Highwater events equal to and greater than the one witnessed will occur in the future and due to Climate Change these events are likely to occur with greater frequency. This will promote additional erosion if instabilities are not addressed.

3.1.2 Geotechnical Considerations

Geotechnical considerations specific to this site include:

- Failures exposed polyethylene sheeting approximately 0.3 m below ground surface. This sheeting was presumably placed during road/shoulder works, possibly to control weeds or vegetation along the road shoulder. It is unknown whether the sheeting extends beneath the roadway but if so, would not contribute significantly to road stability. No geogrid or other reinforcement was observed along the failure scarps.
- The rest of the bank / shoulder between Maria Slough and Seabird Island Road may be subject to similar movements / failures during future high-water events.
- Slope stability analyses should be carried out to assess how stable these banks are under typical as well as flood conditions.
- More detailed repair and reconstruction recommendations can be provided once the stability modelling is completed, and the extent of stabilization required is better understood.



3.1.3 Environmental Considerations

In general, the information presented in this section will apply to emergency repair works associated with all five sites from a regulatory requirement perspective.

Emergency works to repair the instabilities observed along Seabird Island Road can take place prior to regulatory agency reviews in order to stabilize the problem without delay, assuming temporary repairs are being made under the provincial emergency order if there remains substantial risk to the road, flood protection provided by the dike and access to the community. If the risk is reasonably stable, future permanent works would be subject to full review by the applicable agencies.

Two regulatory agencies with interest in works that could affect Maria Slough, Hicks Creek and other fish habitat include Fisheries and Oceans Canada (DFO) via the *Fisheries Act* through which fish and fish habitat is governed in Canada, and the Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNRORD) via the *Water Sustainability Act* through which provincial waterways, their habitat and water users are governed in British Columbia. The process to complete emergency works when an emergency has been declared under the *Emergency Program Act* includes:

- 1. DFO's approach to emergency response is such that where it is necessary to be conducting works, undertakings or activities that need to be carried out without delay in response to the recent flooding emergency (i.e., an emergency that poses a risk to public health or safety, to property or to the environment and fish or fish passage), DFO is available to support these efforts through the following ways:
 - a. If death of fish is likely to occur as a result of the works, but there is some time in advance of the works, the proponent is to submit an emergency *Fisheries Act* authorization application to DFO via the link: https://www.dfo-mpo.gc.ca/pnw-ppe/reviews-revues/request-review-demande-d-examen-005-eng.html).
 - b. If there is not time to submit an emergency Fisheries Act authorization application and steps are needed immediately to deal with an emergency that is likely to result in a harmful alteration, disruption or destruction of fish habitat or death of fish, the proponent is required to notify DFO at the earliest possible time per the Duty to Notify in s. 38 of the Fisheries Act. The notification must be submitted to the Observe, Record, Report line at DFO.ORRONS.MPO@dfo-mpo.gc.ca and a copy submitted to DFO.PACViolations-InfractionsPAC.MPO@dfo-mpo.gc.ca.
 - c. Where flood recovery has stabilized and generally the risk to public health or safety, to property or to the environment and fish (i.e. no longer an immediate emergency or threat) is reduced but, where there are possible impacts to fish and fish habitat related to post-flood clean up works, a Request for Review of the planned works to the Program's referrals email inbox at DFO.PACFPP-PPPAC.MPO@dfo-mpo.gc.ca is required.
 - d. Under all three scenarios presented above, a Qualified Environmental Professional should be involved to support the repair efforts such that in-stream works best management practices and/or DFO's appropriate standards and codes of practice are employed during the works to limit adverse effects to fish and fish habitat, including direct habitat impacts, such as losses of riparian habitat, or of the potential for the release of a deleterious substances to fish habitat from equipment used during the emergency repairs. DFO should be notified of the emergency repairs as soon as possible and follow up assessments may be necessary, including the potential for habitat offsetting applied retroactively to avoid loss of habitat.
- FLRNORD's approach to emergency response is such that following a declaration of a State of Emergency by the Provincial Government, certain changes in and about a stream do not require approval or





notification¹. In situations where there is potential danger to life or property during an emergency, the construction or placement of erosion protection works or flood protection works and the act of clearing a bridge or culvert obstruction, the proponent does not need to submit an Approval or Notification under Section 11 of the *Water Sustainability Act* (WSA). Qualifications to this include:

- Emergency work must be carried out by the Province, municipalities, regional districts and their agents.
- b. Emergency flood work must be reported to the FLNRORD habitat officer before beginning work or within 72 hours of beginning the work and all works must comply with habitat officer's specifications such that best practices² for instream works are employed as appropriate. The local FLNRORD office is located in Surrey BC³.
- c. Flood damage restoration or permanent solutions to flood damage are not considered emergency works and would require standard applications for Notifications and/or Change Approvals under Section 11 of the WSA.

Therefore, it is recommended that emergency works files be opened with both DFO and FLNRORD for specific locations where emergency works are necessary along Seabird Island Road, if not done so already. This would account for any locations where there is still an immediate risk to public health or safety, to property or to the environment and fish. However, as per this guidance, any longer-term solutions for repairs to Seabird Island Road (and elsewhere) would be assessed and addressed through regulatory applications and liaison to complete the works.

3.1.4 Remediation Options

Tetra Tech recommends the following steps be taken to address the present instabilities and improve resilience during future flooding events:

- The bank should be repaired and armored to prevent further failures. Roadway embankment grades should be reduced to a maximum slope of 1.5:1.
- Vegetation with deep and high strength root systems should be planted such as willow stakes to improve bank stability and erosion protection.
- Areas where erosion has already progressed requires repair as soon as practical. Stability analyses and development of a repair design should be completed soon.
- Repair work along affected portions of the embankment can proceed without upfront environmental approvals
 as it falls under the current Provincial Emergency Order if the road remains at risk for further damage; however,
 a duty to notify each of DFO and FLNRORD is required per above.
- Stabilization and rebuilding of the length of Seabird Island Road between Highway 7 and the Chaplin Road
 intersection is recommended to ensure long term resiliency of the corridor. Tetra Tech can provide a proposal
 for the design and tendering of this work as desired.

3.2 Northwest Landslides & Channel Blockages

Multiple landslides have occurred along the mountains to the northwest of the island which back several properties within the District of Kent. These slide events were typically either debris flows (a failure type where existing debris

³ Lower Mainland Region FLNRORD office for reporting Emergency Flood Works: <u>Report Emergency Flood Work - Province of British Columbia (gov.bc.ca)</u>



Lower Mainland Region Working Around Water Exemptions: <u>Exemptions from Approval or Notification - Province of British Columbia (gov.bc.ca)</u>

² Lower Mainland Region Habitat Officer Terms and Conditions: <u>Terms and Conditions Lower Mainland Region March 2006.doc (gov.bc.ca)</u>

and material within a stream channel becomes heavily saturated and loses strength, such that it 'flows' down the channel as a fluidized mass until the material slows down and is eventually deposits) or shallow landslides over bedrock. Multiple debris flows occurred during the storm event, scouring mountain channels to bedrock and obstructing historical creek channels, leading to road washouts and flooding of agricultural land. Photographs of one such slide, and ensuing washouts are provided in Figures 3-3 and 3-4 below and in Appendix A. Additionally, several shallow landslides occurred, depositing material and debris along the base of the slope (in some cases in close proximity to existing residences/out-buildings).

Multiple watercourses tributary to Maria Slough including Hicks Creek were observed of be partly blocked by the landslides causing overland flow and restricting fish passage. Private driveways were washed out and water will continue to be diverted until the blockage is removed. If not addressed, diverted flows will continue to cause erosion along the banks and gravel access roads as well as restrict farming activities on flooded land.



Figure 3-3: Landslide near in northwest mountains off Chaplin Road impacting Hicks Creek. Site 02C.

Figure 3-4: Road washout caused by landslide redirecting flows from Hicks Creek, Site 02D.

3.2.1 Geotechnical Considerations

Geotechnical considerations specific to this site include:

- As noted above, these slide events are related to debris flows or landslides initiating along existing creek channels or on slopes in the mountains to the north of Maria Slough and Hicks Creek. Tetra Tech notes that this area is outside the SIB's lands and is administered by the District of Kent. Additionally, a BC Hydro right-of-way runs through the area. As such, jurisdiction / responsibility may be complex.
- There is little that can be done to prevent debris flows from occurring periodically, assuming that the primary cause/trigger is not related to anthropogenic activities (improperly deactivated or maintained Forest Service Roads, for example). At present, no evidence of non-natural causes triggering these failures exists.
- Typically, debris flows do not re-occur in the same channel for a number of years (while debris/material re-accumulates). The channels observed had been scoured down to bedrock. Other channels which did not fail during this storm event may experience failures triggered by similar events in future.
- Shallow landslides in steep, bedrock-controlled, terrain can occur periodically, especially during particularly intense storm events that saturate the relatively thin soil veneer overlaying bedrock. It is possible that similar failures may occur again in future, possibly in other areas of the slopes.
- Exposed bedrock at slide or debris flow locations may also be more vulnerable to freeze/thaw and surface runoff, increasing the potential for rockfall in future.



- A hazard and risk assessment (either qualitative or quantitative) of these channels and slopes lies outside a reasonable scope of work for Tetra Tech for this assignment, as the terrain in question lies outside the SIB's boundaries. Since the responsibility for property development and residential safety lies with the District of Kent, Tetra Tech has assumed that appropriate studies in this area would be undertaken by qualified Geotechnical Engineers retained by the District. The findings or outcomes of these studies, if any, should be shared with the SIB and Tetra Tech.
- Development of the properties along Hicks Creek / north side of Maria Slough would likely have been subject to a geohazard review as part of the permit application process (such reviews are typically conducted in accordance with the Guidelines for Legislated Landslide Assessments for Proposed Residential Developments in BC, published by Engineers & Geoscientists British Columbia in 2010). This process may have resulted in geohazard assessments already having been completed. These studies, if any, should also be shared with the SIB and Tetra Tech.
- As Tetra Tech has not completed or reviewed any previous reports that address likely event return period, frequency-magnitude relationship, etc. for these channels and the events associated with them, stability assessments or reviews of soil slopes in the area, detailed recommendations for mitigation measures (catchment structures, deflection berms, etc. to protect property and/or sensitive fish habitat) cannot be provided at this time. Once suitable studies are completed, Tetra Tech can review and provide applicable recommendations.

3.2.2 Environmental Considerations

The regulatory requirements presented above in 3.1.3 will also apply here with exception that the origin of the flood damage into Hicks Creek is outside SIB's jurisdiction. Nonetheless, impacts or changes to fisheries resources is of high importance to SIB. Therefore, the SIB's support, involvement and input to the repairs should be facilitated and welcomed. Per the Geotech input above, these jurisdictional issues may affect the appropriate environmental response. Some earlier efforts had already taken place within Hicks Creek that involved DFO, Stqó:ya Construction and the SIB (and possibly others).

It is understood that the emergency response has already been initiated at this site where flooding damage originated or occurred outside the Seabird Island lands but have affected Seabird Island resources (i.e., salmon spawning access). The earlier efforts included removal of debris to allow Hicks Creek to resume flow within its banks prior to Tetra Tech's site visit. However, based on observations of flow outside the channel and fish passage being affected where fish have been observed migrating over the driveway and farmland to access Hicks Creek, the situation may still constitute an emergency to facilitate channel repairs and improve fish passage upstream within the Creek or in the event future heavy rainfall events are still a risk to the property, as per Section 3.1.3 item 1.B or C above.

It is possible that a file has already been opened by other jurisdictions or land owners, or from the SIB, and SIB should continue to work with the DFO habitat officer assigned to the file. Tetra Tech has not been part of this initial work but, will continue to support SIB as needed given further works are likely required to keep flows within the channel.

Tetra Tech and SIB can work with DFO (and FLNRORD) for information on potential actions being taken by others in order that the Seabird Island Band be given opportunity to provide input to the recovery actions.

It is possible that a FLNRORD file is also already open based on this initial emergency response. Tetra Tech will support SIB in obtaining the file number and facilitating SIB input to further maintenance of Hicks Creek.

Photographs of the described issues are provided in Figures 3-5 and 3-6 below.



Figure 3-5: Orthographic of Hicks Cr debris blockage



Figure 3-6: Landslide debris fan near Hicks Cr.

3.2.3 Remediation Options

The impacts of these flows (assuming that the houses have appropriate setbacks from potentially hazardous areas in keeping with the reviews noted above) is assumed to be limited to streams, pastures, etc. To limit these impacts, berms or catchment structures could be constructed to prevent major changes to streamflow, damage to arable lands, etc. All such measures would come with a need for periodic maintenance or re-establishment of stream channel post-event. As noted above, sizing/design of such measures can only be completed once an understanding of potential event magnitudes and return periods is obtained.

At minimum Tetra Tech recommends the following steps be taken to address the present conditions and improve resilience against future events:

- Clear the debris and restore historical creek connections.
- Work should be conducted under supervision of environmental professionals and input from the SIB to optimize restored channels for fish passage and aquatic health. If possible, access to the debris that has come down in and around the SIB lands (in any location) should be investigated. Within that debris multiple large logs and root-wads were observed and can be kept on site for various instream habitat improvements.
- Risk/hazard assessments should be completed by a qualified Geotechnical Engineers retained by the District
 of Kent. Study progress and outcomes should be shared with SIB.
- Further mitigation measures may be constructed to protect particularly vulnerable or sensitive pastureland, or
 properties. Such measures should be designed in accordance with study outcomes. Mitigation measures should
 be subject to SIB input and review.

An additional study could be considered to understand the risks that these failures pose to salmon habitat and other fisheries resources important to SIB and look at what kind of mitigation measures are warranted to provide some level of protection. This would require:

- a) Input and likely participation by the District of Kent,
- b) Review of all previous studies in the area,
- c) A clear delineation of risk so that Tetra Tech and SIB don't overstep and take on extra liability, and
- d) A better definition of what impacts are worth trying to mitigate and how these overlap with other mitigation measures discussed above.

3.3 Highway 7 Landslide at Maria Slough's North End

Tetra Tech visited the landslide which occurred along the northwest side of Highway 7 near the northern connection of Maria Slough and the Fraser River. The slide at present is blocking mountain stream inflows to Maria Slough at





its northern end. The slide and its aftermath are being addressed by MOTI and their Geotechnical Consultant and it is outside Tetra Tech's scope to comment extensively on the event other than the habitat re-establishment aspect. Long-term stability of slide debris affecting the highway, and safety of travelers on Highway 7 are assumed to be the responsibility of others.

Aerial photographs of the slide area and resulting debris blockage are provided in Figures 3-7 and 3-8 below and in Appendix A.





Figure 3-7: Landslide near Highway 7 looking downslope

Figure 3-8: Hwy 7 landslide from Fraser River side.

3.3.1 Geotechnical Considerations

Geotechnical considerations specific to this site include:

- When re-establishing the slough / habitat, this work should be undertaken in a way that maintains stability of any slide debris left on site.
- When clearing slide debris, removal of any portion of the highway embankment should be avoided.
- If culvert clearing / replacement / etc. is required that may affect the highway, coordination with MOTI and their Geotechnical Consultant should be carried out.
- Removal of the portion of the slide mass that can affect the highway should be monitored to ensure a complete clean up and restoration.
- Not all debris or disturbed soils may have reached the base of the slope during the recent event. While the slide channel appears relatively clear and scoured to bedrock, smaller failures may initiate due to the over steepened nature of the slide track. Work within and below the slide track should be conducted during drier weather if possible. A rainfall shutdown criterion could be developed for worker safety.
- Further slough clearing may be required in future if additional slide material is deposited at the base of the slope. Similar recommendations as above would apply in such instances.

3.3.2 Environmental Considerations

The regulatory requirements and processes presented above in 3.1.3 will also apply here with respect to temporary emergency works to manage flood damage within Maria Slough or its tributaries. Any culvert replacements or maintenance would be included in the same documentation to be provided to DFO and FLNRORD for flood maintenance as other locations.

Any work carried out by others (MOTI etc.) that is occurring within or affecting the connection of Maria Slough to tributaries and incoming flows may already be occurring under an open file with DFO and FLNRORD. Tetra Tech and SIB can work with DFO and FLNRORD for information on potential actions being taken by others in order that



the Seabird Island Band be given opportunity to provide input to the recovery actions. Tetra Tech will support SIB in obtaining the file number and facilitating SIB input to further maintenance of Maria Slough.

It would be worth investigating whether large woody debris from this event could be kept on site by the SIB for future fish habitat projects.

3.3.3 Remediation Options

Tetra Tech recommends the following steps be taken to address this issue and improve resilience during future flooding events:

- Ensure MOTI reconnects Maria Slough with historical creek inflows and all historical habitat is restored at the end of their remediation efforts;
- The culvert under the highway connection to the Fraser River is buried and should be re-opened as part of MOTI's efforts;
- Ensure MOTI continues to monitor the slope and remove any excess debris in the coming years due to ongoing slope instability;
- Consider additional efforts to further the Maria Slough Fraser River reconnections project (previously initiated by SIB);
- SIB should obtain a copy of their Geotechnical Consultant's assessment of the slide (which should include some commentary on potential for new movements, etc.) to help inform their decision-making.
- Further geotechnical recommendations for long-term disposition of the site can be provided once a reestablishment scope has been determined.

3.4 Strawberry Island Flooding

The high-water level on Maria Slough has caused basement damage to houses (5 private and 1 public) at the Strawberry Island Development by Sch'iye Road. Poor drainage and ponding was observed on the island during the field investigation and field photographs taken by SIB during the event. Several properties have depression storage and are not connected to any observable drainage network. There was concern about erosion occurring on the banks of the island during the periods of elevated flow however inspection of the banks surrounding Strawberry Island suggest that no observable erosion or sloughing occurred during the event. Photographs of the island and associated drainage issues are provided in Figures 3-9 and 3-10 below and in Appendix A.



Figure 3-9: Tetra Tech staff inspecting ponding near sewage lift station on Strawberry Island

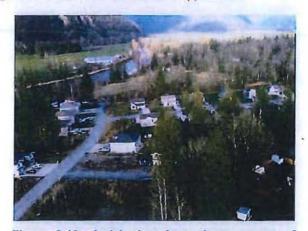


Figure 3-10: Aerial view from drone survey of Strawberry Island looking northeast



3.4.1 Hydrotechnical Considerations

Hydrotechnical considerations specific to this site include:

- A maximum flood level should be defined and future development should be limited to above this elevation.
- Future development of this area may consider a 'tanked', or fully waterproofed, basement treatment below the
 maximum flood level to limit future flooding.
- Roadway and house foundations should be constructed in accordance with typical municipal bylaws in the area, with sufficient drainage provisions to avoid soil deformation or distress.
- A formal drainage system designed to convey surface runoff within the Island should be designed and constructed to efficiently drain the new development.

3.4.2 Environmental Considerations

The regulatory requirements and processes presented above may not be required to accomplish the flood management concerns at Strawberry Island. In the event that erosion protection is required as a temporary or permanent measure, appropriate environmental inputs will be necessary to complete any instream works according to best practices and notices to DFO and FLNRORD will be necessary should this impact fish or fish habitat.

3.4.3 Remediation Options

- Private properties should be graded so to direct water away from the foundation during storm events. Sump pumps should be installed for properties where grading alone is not sufficient.
- A Master Drainage Plan should be commissioned to address the developments ponding and excess water problems. Once implemented properties will be able to direct excess runoff towards a designated community drainage channel and ditch network safely conveying runoff into Maria Slough and mitigating damage during future similar events. The plan will also include minimum building elevations for any future development.

3.5 Maria Slough Culvert Surchaging

Many culverts conveying water through Maria Slough across Kamp Road, Chaplin Road and several private District of Kent driveways were significantly surcharged during the November 13th-15th flood event. One culvert connection on Chaplin Road is a wood stave pipe noted to be collapsing in on itself and nearing a state of failure with a sinkhole developing at the outlet end of the culvert.

Due to concerns over a surcharged culvert, a private driveway was excavated allowing for overtopping and water level drawdown in order to avoid flooding adjacent properties. A FortisBC gas line was accidentally severed during this work and FortisBC was contacted to repair the raptured pipe. Photographs of the issues described are provided in Figures 3-11 and 3-12 below and in Appendix A.



Figure 3-11: Deconstructed Private driveway.



Figure 3-12: Surcharged culvert servicing private driveway



3.5.1 Hydrotechnical Considerations

As observed, many of the culvert connections through Maria Slough are undersized to convey greater than a 100-year event without surcharging. Occasional surcharging can be considered tolerable provided it does not cause damage to the surrounding embankment. SIB should weigh the capital costs of replacement against the risk of failure or overtopping of roadways under future similar events. If capital work is completed, re-establishment of the culvert should be completed during low water levels if possible. If not possible, a cofferdam or other temporary measures should be considered to limit water ingress. Jurisdictional limits should be reviewed. Based on Tetra Tech's understanding, these culverts fall within the responsibility of the District.

3.5.2 Geotechnical Considerations

Geotechnical considerations specific to this site include:

- The culvert should be replaced in accordance with applicable District / municipal bylaws and requirements. Soil
 placement / backfill should be completed in a similar manner. It is assumed that the District will be responsible
 for the repair, as the site is outside the SIB boundary.
- Armouring or other protection against scour/erosion should be considered for causeways across Maria Slough
 to prevent loss of material and introduction of fines into fish-bearing waters during future flood events.

3.5.3 Environmental Considerations

The regulatory requirements and processes presented above in 3.1.3 will also apply here with respect to temporary emergency works to manage flood damage within SIB lands. Generally, culvert replacements are not complex projects and both DFO and FLNRORD have specific conditions under which these can be done without a prolonged regulatory review. Under an emergency situation, culvert replacement/maintenance/installation and associated erosion protection required as a temporary measure should be completed under similar environmental considerations. Appropriate environmental inputs will be necessary and subsequent notices to DFO and FLNRORD will be necessary due to potential effects to fish and fish habitat.

If emergency response actions have already been initiated through another jurisdiction, Tetra Tech and SIB can work with DFO and FLNRORD on potential actions being taken by others in order that the Seabird Island Band be given opportunity to provide input to the recovery actions. Tetra Tech will support SIB in obtaining the file number(s) (if existing) and facilitating SIB input to further maintenance affecting fish passage through Maria Slough.

3.5.4 Remediation Options

Tetra Tech recommends the following steps be taken to address present concerns and improve resilience during 'future flooding events:

- Existing obstructions and organic debris should be cleared from blocked culverts as soon as possible.
- An ongoing care and maintenance program should be implemented to ensure debris is regularly cleared from culverts particularly when precipitation events are forecasted.
- The failing wood stave culvert on Chaplin Road should be removed and replaced as soon as possible.
- · Further design and capital works should be considered to upsize the remaining culverts





4.0 SUMMARY AND RECOMMENDATIONS

4.1 Issues Summary

The following table summarizes Tetra Tech's understanding of the various project sites following our field investigation. Additional photos and supporting technical information such as preliminary model results in Appendix C.

Site ID	Descriptor	Key Issues	Bank slope grade needs to be reduced. Improved vegetation to improve bank stability and fish habitat Areas where erosion has progressed require full reconstruction Regulatory submissions can be provided subsequent to or at the time of planned temporary emergency repairs Long term repair works should also review the need to raise certain sections of the road. Clear debris and restore historical creek connections Conduct work under supervision of environmental professionals to optimize restored channels for fish passage and aquatic health Regulatory submissions can be provided subsequent to or at the time of planned temporary emergency repairs Coordinate all repair works with landowners and the District.	
01	Seabird Island Road Erosion	High water levels and elevated flows in Maria Slough have led to slope and road instabilities. Three sections of bank adjacent to Seabird Island Road were observed to have started to slide into Maria Slough		
02 (A – D)	Northwest Landslides and Channel Blockages	 Multiple landslides have occurred in the mountains to the northwest of the island obstructing historical creek channels and leading to road washouts Watercourses tributary to Maria Slough including Hicks Creek were partly blocked by the landslides noted above causing overland flow and restricting fish passage 		
03	Highway 7 Landslide at Maria Slough's North End	 A landslide near the northern connection of Maria Slough and Fraser River leading to a potential blockage of inflows to Maria Slough at its north end. 	 Ensure MOTI reconnects Maria Slough with historical creek inflows during their remediation efforts Consider additional efforts to further the Maria Slough Fraser River reconnections project 	
04	Strawberry Island Flooding	 The high-water level at Maria Slough has caused basement damage to houses (5 private – 1 public) at the Strawberry Development by Sch'iye Road; Poor drainage and ponding was observed on the island during the field visit There was concern about erosion occurring on the banks of the island during period of elevated flow 	 Private properties should be graded so to direct water away from the foundation during storm events. Sump pumps should be installed for properties where grading alone is not sufficient. Commission a Master Drainage plan to address ponding and excess water problems Inspection of the banks surrounding Strawberry Island suggest that no observable erosion occurred at the banks during the event 	



05 (A -G)	Maria Slough Culvert Surcharging	 Many culverts conveying water through Maria Slough across Kamp Road, Chaplin Road and private driveways (some under District of Kent jurisdiction) were surcharging during the flooding event One culvert connection on Chaplin Road was of wood stave construction and observed to be failing Surcharging culverts lead to a driveway being removed and overtopped to avoid flooding adjacent properties. The Fortis BC gas line was also severed during this work. 	 Obstructions should be cleared from culverts as soon as possible The failing wood stave culvert should be removed and replaced as soon as possible. Further design and capital works should be considered to upsize remaining culverts Regulatory submissions can be provided subsequent to temporary emergency repairs
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4.2 Recommendations

Based on the foregoing investigation and analysis, Tetra Tech has developed the following overarching recomendations:

- Drainage and water management across much of the island (esp. Strawberry Island) is recommended to make sure that roadways and house foundations remain sufficiently dry so as not to experience loss of strength, erosion/piping, or other potential failures.
- Ensuing remediation work should be tied to ongoing larger flood protection and mapping studies to provide guidance as to the type of flood levels which should be designed for.
- Regulatory submissions can be provided subsequent to temporary emergency repairs if still required; while long-term solutions will require standard regulatory review and input prior to in-stream works.

Considering the foregoing findings, Tetra Tech recommends SIB take the following steps towards remediating the damages caused by flooding and improving resiliancy for future flooding.

- Undertake emergency works to remediate the sloughing observed on the banks of Seabird Island Road.
- Considering initiating a design and tendering process to upgrade the entire length of Seabird Island Road from Highway 7 to its intersection with Chaplin Road.
- Commision a Master Drainage Plan for Strawberry Island to drain the development area more effectively.
 Potential solutions will likely include:
 - Upgrading of the existing ditch network;
 - Infilling flood prone areas;
 - Installing new strategic pumping and/or flow control devices
- Initiate discussions with the District to oversee the replacement of the failing wood stave pipe currently servicing Chaplin Road.
- Undertake additional design and analysis to determine if additional Maria Slough culvert crossing require removal and upsizing.
- Continue to record and document future flooding occurrences for post event analysis and model calibration.





5.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Seabird Island Band and their agents. Tetra Tech Canada Inc. (Tetra Tech) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Seabird Island Band, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in Tetra Tech Canada Inc.'s Services Agreement. Tetra Tech's General Conditions are attached to this memo.

6.0 CLOSURE

We trust this technical memo meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted, Tetra Tech Canada Inc.

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APPENDIX A - PHOTO RECORD INCLUDING AERIAL IMAGERY

SITE 01 - SEABIRD ISLAND ROAD EROSION



Figure A-1: Section of Seabird Island Road embankment sloughing - approximately 50 m long



Figure A-2: Tetra Tech staff measuring sloughing section along Seabird Island Road



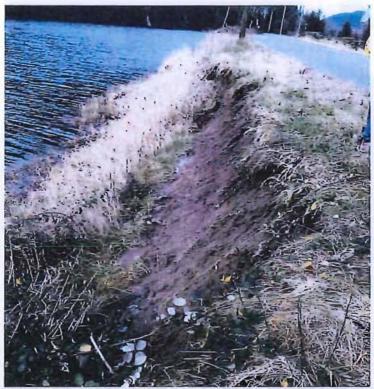


Figure A-3: Section of Seabird Island Road embankment sloughing - approximately 10 m long



Figure A-4: Sloughing section along Seabird Island Road

SITE 02 - NORTHWEST LANDSLIDE AND CHANNEL BLOCKAGES



Figure A-5: Aerial Image Northwest Landslide and Channel Blockage. Site 02C.



Figure A-6: Orthographic Image Northwest Landslide and Channel Blockage. Site 02C/02D





Figure A-7: Ground level view of newly deposited debris flow with minor stream cutting through. Site 02C



Figure A-8: Aerial Image Northwest Landslide and Channel Blockage. Site 02C/02D



Figure A-9: Several fish and salmon fatalities observed on riverbanks due to blockage



Figure A-10: Road washout due to channel blockage. Site 02D





Figure A-11: Landslide and debris near District of Kent private property. Site 02B



Figure A-12: Landslide and debris near District of Kent private property. Site 02B

SITE 03 - HWY 7 LANDSLIDE & MARIA SLOUGH NORTH END BLOCKAGE



Figure A-13: Site 03 landslide looking downslope of slide towards Hwy 7



Figure A-14: Site 03 looking upslope across Hwy 7 towards landslide.



Figure A-15: Orthographic image looking down on Hwy 7 and debris clearing activities.



Figure A-16: Progress of landslide remediation at time of site visit

SITE 04 - STRAWBERRY ISLAND FLOODING



Figure A-17: Tetra Tech staff inspecting ponding water near developments sewage lift station



Figure A-18: Aerial view of Strawberry Island development





Figure A-19: Aerial view of Strawberry Island development and shared bank with Maria Slough



Figure A-20: Aerial view of Development. Ponding can be seen on several sights at top of photo.

SITE 05 - MARIA SLOUGH CULVERT SURCHARGING

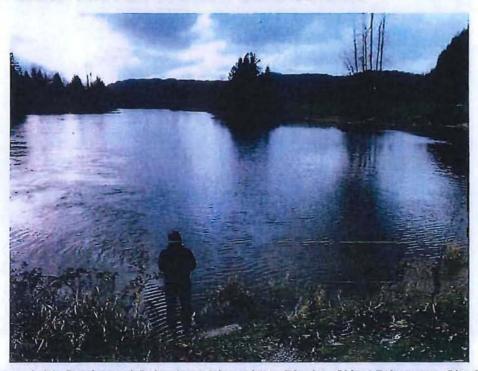


Figure A-21: Surcharged Culvert servicing private District of Kent Driveways. Site 05D



Figure A-22: Deconstructed private access road intentionally overtopping during field visit. Site 05D.

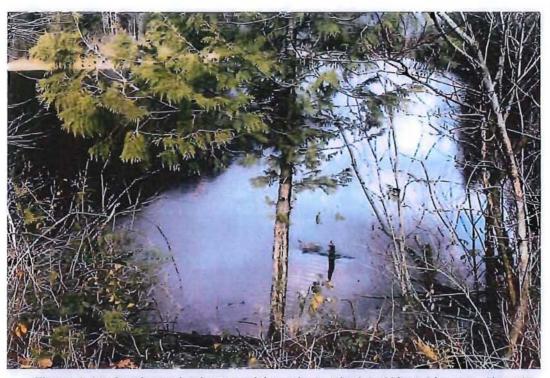


Figure A-23: Surcharged culvert servicing private District of Kent driveway. Site 05D



Figure A-24: Aerial view of failing wood stave culvert crossing site. Site 05B.



APPENDIX B - LIMITATIONS



LIMITATIONS ON USE OF THIS DOCUMENT

HYDROTECHNICAL

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TETRA TECH is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.



1.7 ENVIRONMENTAL AND REGULATORY ISSUES

Unless expressly agreed to in the Services Agreement, TETRA TECH was not retained to investigate, address or consider, and has not investigated, addressed or considered any environmental or regulatory issues associated with the project.

1.8 LEVEL OF RISK

It is incumbent upon the Client and any Authorized Party, to be knowledgeable of the level of risk that has been incorporated into the project design, in consideration of the level of the hydrotechnical information that was reasonably acquired to facilitate completion of the design.



LIMITATIONS ON USE OF THIS DOCUMENT

GEOTECHNICAL

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TETRA TECH is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.



1.7 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, TETRA TECH has not been retained to explore, address or consider and has not explored, addressed or considered any environmental or regulatory issues associated with development on the subject site.

1,8 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems, methods and standards employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. TETRA TECH does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

1.9 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

1.10 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historical environment. TETRA TECH does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional exploration and review may be necessary.

1.11 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

1.12 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

1.13 INFLUENCE OF CONSTRUCTION ACTIVITY

Construction activity can Impact structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques, and construction sequence are known.

1.14 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, and the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

1.15 DRAINAGE SYSTEMS

Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function. Where temporary or permanent drainage systems are installed within or around a structure, these systems must protect the structure from loss of ground due to mechanisms such as internal erosion and must be designed so as to assure continued satisfactory performance of the drains. Specific design details regarding the geotechnical aspects of such systems (e.g. bedding material, surrounding soil, soil cover, geotextile type) should be reviewed by the geotechnical engineer to confirm the performance of the system is consistent with the conditions used in the geotechnical design.

1.16 DESIGN PARAMETERS

Bearing capacities for Limit States or Allowable Stress Design, strength/stiffness properties and similar geotechnical design parameters quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition used in this report. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions considered in this report in fact exist at the site.

1.17 SAMPLES

TETRA TECH will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

1.18 APPLICABLE CODES, STANDARDS, GUIDELINES & BEST PRACTICE

This document has been prepared based on the applicable codes, standards, guidelines or best practice as identified in the report. Some mandated codes, standards and guidelines (such as ASTM, AASHTO Bridge Design/Construction Codes, Canadian Highway Bridge Design Code, National/Provincial Building Codes) are routinely updated and corrections made. TETRA TECH cannot predict nor be held liable for any such future changes, amendments, errors or omissions in these documents that may have a bearing on the assessment, design or analyses included in this report.





Appendix B

District of Kent Flood Recovery and Mitigation Priority Projects

Note: * denotes the highest priority projects

McDonald Road - Fraser River Bank Erosion *

Cost Estimate: \$2 Million

<u>Brief Project Status</u>: Identified as priority project as part of comprehensive Flood Risk and Mitigation Plan completed by Northwest Hydraulic Consultants (NHC). Conceptual design for bank armouring and rock spurs is complete. Next steps are environmental review, detailed design, regulatory approval, funding identification, and implementation.

<u>Project Description</u>: The side channel at the lower end of Seabird Island/Maria Slough outlet has widened since 2014, resulting in increased flow and higher velocities along the bank. As a result, the reach upstream of McDonald Road and lower end of Seabird Island is experiencing renewed bank erosion. The existing bank protection upstream of McDonald Road is discontinuous or actively failing.

Phase 1 of the project is proposed over the 350 m long reach upstream of McDonald Road where the bank retreat has been greatest. A separate conceptual design report was completed by NHC in 2021. The work-to-date has included conducting a bathymetric survey, design of mitigation options and preparation of cost estimates. Installing a series of short spurs (7 in total) with additional scour protection between spurs was determined to be the most cost effective option. The total volume of riprap required for the spurs is approximately 7,500 cubic meters and the estimated cost is 2 million dollars.

Dike A Freeboard Restoration *

Cost Estimate: \$4.1 Million

<u>Brief Project Status:</u> Identified as priority project as part of comprehensive Flood Risk and Mitigation Plan completed by Northwest Hydraulic Consultants (NHC). Risk identification and Class D cost estimate complete. Next steps are detailed design, Dike Maintenance Act approval, and implementation.

<u>Project Description:</u> The Agassiz townsite is District's residential, commercial, industrial, and institutional hub, and is the most densely populated area of the District. It is currently protected by dikes A, B, and C. Dike A received a Poor to Fair rating, while B and C were rated fair to good. Dike A is located the furthest upstream and closest to the actual townsite; as a result, breaching or overtopping this dike would result in the greatest flooding impacts. In addition, this Dike A is more susceptible to breach because several segments are within 40 metres of the Fraser River bank.

The most recent 2D Hydraulic modelling identified deficient freeboard of up to 0.5 metres in various locations along Dike A. This section of Dike is roughly 5.5 kilometres long, and the deficient freeboard is discontinuous and less than half of it would need to be raised between 0 and 0.5 metres.



Flood Mapping and Modeling Update

Cost Estimate: \$300,000

<u>Brief Project Status:</u> Identified as priority project as part of comprehensive Flood Risk and Mitigation Plan completed by Northwest Hydraulic Consultants (NHC). No further work has been completed.

<u>Project Description:</u> The most recent flood mapping for the District of Kent was completed in 2007 by Water Management Consultants. These models do not include Harrison Mills and Seabird Island areas. In addition, these models are losing relevance as they do not include recent observations and climate change analyses.

As flooding in the eastern Fraser Valley is a regional issue, the Lets'emot Community to Community Forum is proposing similar work be undertaken on a regional scale, with mapping for all local communities, including municipalities and First Nations. In addition, any modelling should be dynamic and include changes to water flow under multiple scenarios and inputs.

Chaplin Road Wood-Stave Culvert Replacement with Seabird Island *

Cost Estimate: \$575,000

<u>Brief Project Status:</u> Identified as a priority project as part of an assessment of post-November 2021 flooding impacts performed by TetraTech. No further work has been completed.

Project Description: During the November 2021 flood event, several culverts on the Maria Slough were observed surcharging, and have since been determined to be undersized for a 1-100 year storm event. The Chaplin Road wood-stave culvert appears to be in the poorest condition and poses the greatest risk of failure. This culvert crosses the only access point for several properties on the north side of Maria Slough, all of whom would be cut off from vital supplies in the event of catastrophic failure. The culvert is of undetermined age, but appears very old, is of wood-stave design, and is visibly missing boards at inlets and outlets, causing small sink holes to appear in the road shoulder. Designs that accommodate a 1-200 year storm should be considered, including larger culverts, open-bottom culverts, and bridges, and then the wood-stave should be removed and replaced.

This replacement is urgent and high priority as it has significant impact on Chinook salmon habitat in this area with our neighbouring community Seabird Island.

Regional Study of Water Storage and "Flood Zone" Improvements *

Cost Estimate: \$500,000

<u>Brief Project Status:</u> The Lets'emot Community to Community Forum has used a traditional ecological knowledge approach to develop a water storage concept for further exploration.

<u>Project Description:</u> It is known that there are many historical sloughs and former river channels in this region that no longer act as viable overflow routes or water storage during freshet. Identifying and



restoring these historical sloughs could provide designated "flood zones", intended to receive freshet waters during high flow while acting as valuable habitat for salmon and other vulnerable species. This aligns well with current understandings of rivers as dynamic systems that require space during extreme events. The Lets'emot Community to Community Forum is seeking funding to pursue a science-based regional study of this concept to determine local sites that could be of greatest impact.

Localized Study of Gravel Bar Removal/Reshapement

Cost Estimate: \$200,000

<u>Brief Project Status:</u> The Lets'emot Community to Community Forum has used a traditional ecological knowledge approach to identify local areas of gravel deposition that are having detrimental effects to upstream river system flooding.

<u>Project Description:</u> The eastern Fraser Valley receives an enormous amount of gravel from the upper Fraser Basin, deposited on an annual basis. This results in the formation of gravel bars, which when formed in critical places, can disrupt drainage in minor systems or redirect channel flow causing river bank erosion. Although it is not feasible to remove enough gravel on an annual basis to keep pace with deposition, localized removal of problematic gravel bars can have a positive effect on upstream drainage. The Lets'emot Community to Community Forum has identified several appropriate places, including the Spring Bar and the Harrison Bump. The Lets'emot Community to Community Forum is seeking a regional study to study and seek regulatory approval for localized gravel removal in targeted locations.

Kilby Pump Station Capacity Upgrades

Cost Estimate: \$150,000

<u>Brief Project Status:</u> Identified as priority need during District of Kent's internal review of post-November 2021 flooding impacts.

<u>Project Description:</u> The Kilby pump station has difficulty keeping pace with seepage in the Kilby area during prolonged freshets. The District frequently requests emergency EMBC funding for portable pumping capacity to keep pace. The District is seeking funding for permanent upgrades to the Kilby pump.

Duncan Bateson Flood Gate Improvements

Cost Estimate: \$110,000

<u>Brief Project Status:</u> Identified as priority need during District of Kent's internal review of post-November 2021 flooding impacts.

<u>Project Description:</u> The flood-gate at the Duncan-Bateson pump station is aging and seals poorly, resulting in seepage and poor overall effectiveness of the system. The District is seeking to replace this gate with a top-mounted, fish-friendly sluice gate in the default-open position.



Standby Generators *

Cost Estimate: \$300,000

<u>Brief Project Status:</u> Identified as priority need during District of Kent's internal review of post-November 2021 flooding impacts.

<u>Project Description:</u> The three major pump stations in the District of Kent are all dependent on BC Hydro centralized power. In the event of their failure during freshet, especially during a heavy rain event, there would be immediate and catastrophic upstream flooding, which would result in evacuations, infrastructure damage, and property damage. The District is seeking to purchase standby generators for all 3 of its pump stations.

Portable Pumping Capacity

Cost Estimate: \$50,000

<u>Brief Project Status:</u> Identified as priority need during District of Kent's internal review of post-November 2021 flooding impacts.

<u>Project Description:</u> The District of Kent, using EMBC emergency funds, frequently rents a portable 6" trailer pump to provide additional pumping capacity during freshets as needed, or to address seepage issues from subsurface channels flowing under dikes. Purchasing one of these pumps would alleviate the need for annual EMBC funds and would pay for itself within 5 years.

Kamp Road Raising and Reconstruction

Cost Estimate: \$220,000

<u>Brief Project Status:</u> Identified as priority need during District of Kent's internal review of post-November 2021 flooding impacts.

<u>Project Description:</u> Kamp Road, north of Maria Slough, contains a low belly for approximately 150 metres that makes it prone to flooding, which has impacts to the adjacent farming community and the associated homeowners. A raised road crest could prevent the spread of localized flooding.

Appendix 'C'

Cheam First Nation Flood Management Priority Projects

- Ferry Island Park backwash and Hope Slough stream restoration
- Edwards Road evacuation route and Hope Slough crossing
- Assessment of flood risks for Tseatah and Cheam floodplains and develop mitigation measures required; Tseatah on the unprotected side of the dike infrastructure but interim Cheam dikes in place
- Funding of Environmental Management Plan and Emergency Planning
- Require CN to elevate their ROW at Cheam Beach as the dike elevation is impacted by CN rail elevation (protect the gravel pit and precast building locations for potential development goals)
- Funding for bank erosion assessment and mitigation strategies for Cheam
 Fishing Village, Cheam Beach and Ferry Island Park/Boat Launch.

Appendix D



Priority # 1: Access Road to HHS Sanitary Sewage Treatment Plant

COST ESTIMATE: \$750,000 - \$1,000,000 (Source: Northwest Hydraulic Consultants (NHC))

SCOPE: Raise the elevation of the 400 m road to the HHS Sanitary Sewage Treatment Plant by 1.5 meters and add external rip rap armouring along Harrison Lake. This project will come forward at part of the HHS Flood Risk Assessment currently underway by NHC.

RATIONALE: Due to increased flooding associated with climate change, the Village has identified the vulnerable access road to the Waste Water Treatment Plant (WWTP) as a disaster risk. Increasing erosion will eventually result in the road being washed out preventing Village staff from accessing and maintaining the Plant. Damage may also result to the sanitary force main, which would result in the release of untreated sewage into Harrison Lake.

This project will protect public health & safety and safeguard environmental assets, thus protecting the source for drinking water for residents and visitors who obtain drinking water from Harrison Lake.

REGIONAL IMPACT: Maintaining water quality in Harrison Lake is essential to downstream communities who are located along and who rely upon the water quality in the Harrison River such at the Sts'ailes and Sq'éwlets First Nation, and to the fisheries and other wildlife which are dependent on these waters.

Priority # 2: Upgrade Harrison Lake Dike to meet current standards

COST ESTIMATE: \$4,500,000 – 6,750,000 (Source: Northwest Hydraulic Consultants)

SCOPE: Raise the elevation of the Harrison Lake Dike by 1.0 meters to address deficiencies identified in the July 2015 <u>Lower Mainland Dike Assessment</u> prepared by Northwest Hydraulic Consultants for the BC Ministry of Forest Lands and Natural Resources. <u>Microsoft Word - 3000427 Final Lower Mainland Dike Assessment docx (gov.bc.ca)</u>

RATIONALE: The deficiencies identified in the 2015 Lower Mainland Dike Assessment need to be addressed to avoid a potential dike breach along the Harrison Dike. A breach would cause flooding in the Village of Harrison Hot Springs and damage to property and essential infrastructure including the roads required for emergency evacuation purposes. The proposed remediation would provide protection against the 200-year water level plus climate change impacts up to the year of 2100. (Source: Northwest Hydraulic Consultants)

REGIONAL IMPACT: A breach to the Harrison Dike would impact residents of the District of Kent to the north, whose only access road may be blocked by floodwaters. This would also impact residents and recreational users in Area C of the Fraser Valley Regional District whose access and egress is also through the Village. Kent residents south of the Village could also be impacted by flooding in the event of a dike breach.

Priority # 3: Elevate Miami River Sanitary Sewer Force Main

Project Estimate: \$1,497,000 (Source: CTQ Engineering)

SCOPE: Relocate existing Miami River Force Main from river bed to an elevated bridge crossing and install associated lift station to replace current siphon system.

RATIONALE: The Sanitary Siphon Crossing of the Miami River services 5 sanitary catchments representing 50% of the Village. In the winter of 2013, a routine field inspection by VHHS personnel noted that the sanitary siphon lines running parallel to Hot Springs Road were exposed and 'floating' in the Miami River and the line was re-bedded, to mitigate the risk of a sewage spill into the river. The cause of this exposure was the increased dynamic flow of the Miami River during major storm events, an occurrence which is increasing due to climate change. The impact of a potential spill on the riparian and aquatic habitat would be potentially damaging to the environment and would impact water quality in Harrison Lake.

REGIONAL IMPACT: Maintaining water quality in Harrison Lake is essential to downstream communities who are located along and who rely upon the water quality in the Harrison River such at the Sts'ailes and Sq'éwlets First Nation, and to the fisheries and other wildlife which are dependent on these waters.

Priority # 4: Floodplain Mapping

COST ESTIMATE: \$200,000 for Harrison Hot Springs (Source: Northwest Hydraulic Consultants)

SCOPE: Update floodplain mapping

RATIONALE: The Village relies upon floodplain mapping undertaken by the Province in previous years. The Village strongly supports the development of new comprehensive and contiguous floodplain on a regional scale to ensure that data is consistent and readily available between jurisdictions.

REGIONAL IMPACT: This work would strongly benefit the region as an entirety.

Tel: (604) 796-2235 Fax: (604) 796-9854 Web: www.kentbc.ca

March 17, 2023

File: 7130-01

VIA EMAIL EMCR.Minister@gov.bc.ca

The Honourable Bowinn Ma Minister of Emergency Management and Climate Readiness

Dear Minister Ma:

Re: Disaster Financial Flood Relief

As you know Minister Ma the atmospheric river hit our community in the eastern Fraser Valley quite hard in 2021. To-date, we are still trying to recover from that horrific storm that flooded so many communities.

We are grateful that an additional \$557 million was recently announced by the Honourable Bill Blair to go towards "Disaster Financial Assistance". We are pleased that your Ministry is following up on improving flood resilience.

For your convenience we have attached two engineering reports for your staff to review and have highlighted key sections where we feel as a community that we need to urgently review, invest and rebuild that infrastructure that connects our communities. The Thurber Engineering Memo comments on the Trout Creek Flooding should be given high priority as this flooding has a significant blow on our highway infrastructure on Rockwell Drive (see Appendix 'A').

In the second report, we have made recommendations on the Tetra Tech Report (Appendix 'B'). While Seabird Island retained the engineering services of Tetra Tech, a lot of our infrastructure is directly connected and has serious municipal consequences if the infrastructure is not restored.

Thank you for taking the time to review our submission and I look forward to receiving your response as to how the District may access this much needed funding.

Sincerely yours,

Sylvia Pranger

Mayor

Encl.

Agenda Date Ma

☐Dir. P.W. ☐Bylaw







11.3.3

April 26, 2023 Ref: 653215

Wallace Mah Chief Administrative Officer District of Kent Email: wmah@district.kent.bc.ca

RE: LMD IHIT Retroactive Pay Liability

Dear Wallace Mah:

On March 29, 2023, Public Safety Canada met with the Contract Management Committee (CMC) to share the Government of Canada's decision regarding local governments' request for financial assistance related to the retroactive liability of the Royal Canadian Mounted Police's (RCMP) first Collective Agreement. The Government of Canada has communicated to contract policing partners that they are responsible for paying their retroactive liability in full. The RCMP has now invoiced all contract policing jurisdictions their retroactive liability costs.

The RCMP invoices for the retroactive liability, however, did not include costs associated with the Lower Mainland District Integrated Homicide Investigation Team (IHIT). As such, the Province's Policing and Security Branch will be absorbing municipalities' retroactive liability costs specifically associated with IHIT.

Any potential future impacts to IHIT resulting from RCMP wage increases will remain the responsibility of participating municipalities.

If you have any questions, please contact me by email at <u>Billy.Castillo@gov.bc.ca</u>. Sincerely,

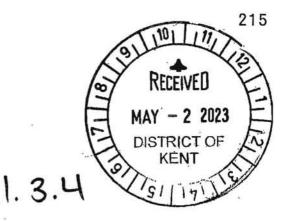
Billy Castillo

Executive Director, Finance & Administrative Division Policing and Security Branch
Ministry of Public Safety and Solicitor General

A 9

PC mveenbaas@kentbc.ca;





May 2, 2023 Our Ref. 129004

I am pleased to share with you information about the provincial government's **StrongerBC**: Future Ready Action Plan designed to meet the challenges of today, to make sure people in British Columbia are ready to succeed and grow our inclusive and sustainable economy now and into the future.

The Future Ready Action Plan will develop trained, skilled and talented people to fill the jobs of today and tomorrow. It is the BC government's commitment to ensuring everyone in the province can access the post-secondary skills and training they need to build good lives, while developing the talent and skills that businesses and employers need so we can drive our economy forward and deliver the services we all rely on.

As a key pillar of the StrongerBC Economic Plan launched in February 2022, the Future Ready Action Plan invests an additional \$480 million dollars over the next three years in targeted supports to a broad range of British Columbians.

The action plan is focussed on five pillars:

- Making post-secondary more affordable, accessible and relevant;
- Providing the innovation and skills needed to fill the jobs of tomorrow faster;
- Breaking down barriers so everyone can find a job that works for them;
- Addressing Indigenous People's workforce priorities; and
- Making it easier for people new to Canada to find a job in which they are trained.

I am grateful to those who shared feedback and insights during the StrongerBC: Future Ready Action Plan engagement sessions in May 2022. As a result of this collaborative process, I am confident the Action Plan will support British Columbians to acquire the skills they need to succeed in British Columbia's diverse and innovative economy. I am also confident that it will become easier for employers to find the talent and skills they need to sustain and grow their enterprises.

If you would like more information about the Action Plan and how it can benefit you, I encourage you to reach out to my office or participate in one of the roundtables we will be holding over the next few months.

		12
	-	CAO Dir. Eng. Dir. P.W. PEP Agenda Date May 3
Ministry of Post-Secondary Education and Future Skills	Office of the Minister	Corp. S. Dir. Fin. Bylaw RCMP In Camera Date
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The Future Ready Action Plan is an historic investment in people—because what helps people succeed in our economy, makes our economy succeed for people.

Sincerely,

Honourable Selina Robinson

Minister



MANY -5 2003

DISTIRICTION
KENNT

Westcoast Energy Inc. 217 200, 425 – 1st Street SW Calgary, Alberta T2P 3L8

May 1, 2023

Dear Mayor Sylvia Pranger,

Re: Westcoast Energy Inc. Proposed Project - Sunrise Expansion Program

INTRODUCTION

Westcoast Energy Inc., an Enbridge company, (Enbridge) owns and operates British Columbia's (B.C.) major natural gas transmission infrastructure system, referred to as the Westcoast or BC Pipeline system, which transports processed natural gas to consumers throughout the province and to Alberta and the Pacific Northwest of the United States (U.S.). The Westcoast system is an interprovincial pipeline system with over 2,900 kilometers (km) of pipeline from near Fort Nelson in northeast B.C. and from Gordondale near the Alberta-B.C. border, south to the Canada-U.S. border at Huntingdon/Sumas.

Enbridge plans to apply to the Canada Energy Regulator (CER) in 2024 for approval of the proposed Sunrise Expansion Program (Project). The development of the application will involve a robust environmental assessment process and engagement program to ensure Indigenous, stakeholder and public involvement to identify and mitigate potential effects of the Project. This letter provides information about the Project and a description of upcoming activities related to preparing the regulatory application.

PROJECT OVERVIEW

The Project includes the addition of pipeline looping and additional compression along the southern portion of the Westcoast system, known as T-South. The Project would provide approximately 300 million cubic feet per day (MMcf/d) of additional natural gas transportation capacity. The request for capacity is being driven by the need to meet natural gas demand in B.C. and the U.S. Pacific Northwest.

Project design is under development and configuration of pipeline loops, compressor station modifications and additional compression requirements are subject to change.

Pipeline looping

The preliminary Project design is expected to include a total of approximately 190 km of 42-inch pipeline looping in different segments along the existing T-South system, starting at Compressor Station CS-2 (Willow Flats) near Chetwynd, B.C. The new pipeline looping will be installed next to Enbridge's existing right-of-way to the greatest extent practical to minimize environmental effects. Enbridge's is evaluating the extent of additional permanent and temporary land requirements to accommodate construction and operation of the Project facilities.

Compression facilities

The preliminary Project scope also includes additional compression and associated facilities at CS-2B (Azouzetta Lake), CS-3 (McLeod Lake), CS-6B (93 Mile House) and CS-8A (Kingsvale). Enbridge is also evaluating the option of a new compressor station between CS-8A and CS-9 (Rosedale).

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Calgary, Alberta T2P 3L8



Power transmission

Enbridge is currently evaluating electrification of the new compressor units, which would result in lower emissions. Transmission powerlines and an additional switching station would be required to supply power to the compressor facilities. Powerline routing decisions will require environmental field studies and engagement with local stakeholders and Indigenous groups.

ENVIRONMENTAL AND ENGINEERING FIELD STUDIES

Enbridge is in the early stage of Project development. Early feasibility studies have been conducted and additional environmental, surveying and geotechnical field studies will start this spring. A short description of these activities is provided below.

- Environmental Enbridge plans to begin environmental studies on select pipeline corridors as seasonal
 conditions allow, beginning in May 2023. These studies will determine the environmental considerations that
 need to be factored into the design of the Project. Environmental studies will include surveys of fish and fish
 habitats, vegetation, soils, wetlands and wildlife.
- Geotechnical Studies are planned to begin in summer 2023 and will include surface and subsurface
 exploration to better understand geological conditions for routing design purposes (watercourse crossings,
 potential geohazards, etc.). The work may include the clearing of small pads to set up drill rigs to collect
 subsurface samples. The investigative locations will be selected in consultation with Indigenous
 rightsholders and stakeholders and may be adjusted to mitigate conflicts with respect to safety,
 environmental, archeological, or cultural considerations.
- Archaeology Archaeological resources on public and private land are protected under the B.C. Heritage Conservation Act. Field investigations are planned to begin in June 2023.

Enbridge will develop comprehensive safety and environmental protection measures to mitigate environmental effects of the Project (e.g., effects on soil and terrain, wildlife and wildlife habitat, aquatic habitat and resources, vegetation, wetlands, air quality and greenhouse gas emissions, and heritage resources) and to ensure public and worker safety.

During construction, there are expected to be temporary effects related to an increase in dust, noise, and traffic within the immediate Project area. These effects would result from passenger vehicles, construction vehicles, and equipment (cranes, picker trucks, semis, and various other construction equipment). Enbridge will work closely with local communities to develop mitigation plans to limit the temporary effects.

OPERATIONAL EFFECTS

Once construction activities are complete, the temporary effects described above are expected to end. Along with the environmental protection measures, restoration activities will be implemented following construction.

The Project will be operated by Enbridge personnel and monitored 24 hours per day by Enbridge's Gas Control operations. The Project will be subject to Enbridge's comprehensive pipeline integrity and maintenance program including regular valve maintenance, cathodic protection, inline inspection, and pigging to detect corrosion and pipeline defects.



TIMELINE OF ACTIVITIES

Investigative and engineering activities commenced in late 2022. Field studies will start in spring 2023 with the CER application submission targeted for mid-2024. Subject to the receipt of regulatory approvals, construction activities would begin in 2026 with planned in-service in 2028. These timelines are subject to change.

MAP AND FACTSHEET

The potential locations for additional pipeline looping and compression are depicted in the attached Project map and factsheet. Following further Project studies, design and engagement with Indigenous groups and stakeholders, the scope will be refined.

RESPONSE AND CONTACT INFORMATION

For more information on the CER's regulatory oversight and review process for the Project, please refer to the enclosed CER brochure, "The CER, Energy Projects and You", which can also be found at: https://www.cer-rec.gc.ca/en/consultation-engagement/land-matters-guide/brochures/cer-energy-projects-you/index.html.

We invite you to share interests, comments, questions or concerns regarding the Project so that they may be addressed and considered in the development of this Project. Please advise us if you would like to receive regular updates and information about the Project and, if so, the preferred format (e.g., digital, hard copy, mail, e-mail).

For more information on the Project please visit our website at https://www.enbridge.com/projects-and-infrastructure/projects/sunrise-expansion-program or visit our virtual open house at https://www.enbridge.com/projects-and-infrastructure/projects/sunrise-expansion-program or visit our virtual open house at https://www.enbridge.com/projects-and-infrastructure/projects/sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at www.sunrise-expansion-program or visit our virtual open house at <a href="https://www

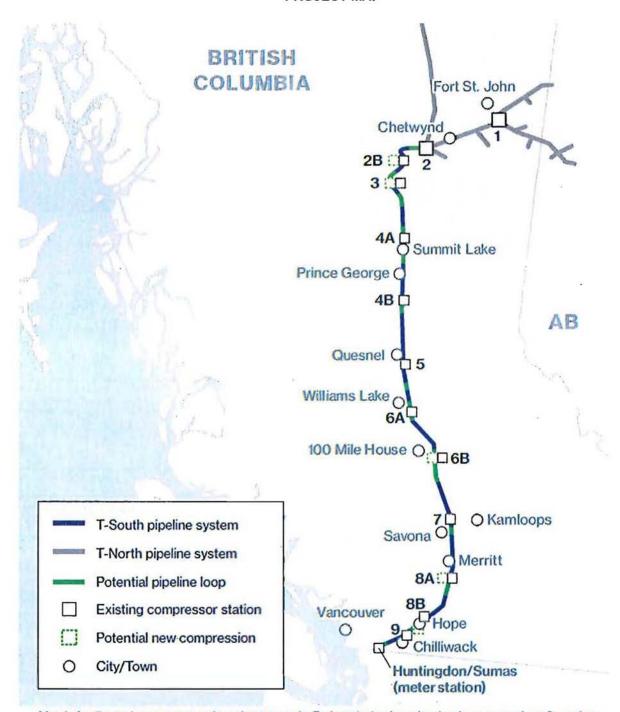
For more information, questions or concerns please contact us directly:

Rikki Beaudet	General Inquiries	
Community and Indigenous Engagement	And an of the Control	
Phone: 250-960-2087	Phone: 1-833-267-2220 (toll-free)	
Email: Rikki.Beaudet1@enbridge.com	Email: BCprojects@enbridge.com	

Enclosures: Factsheet: Sunrise Expansion Program
Pamphlet: The CER, Energy Projects and You



PROJECT MAP



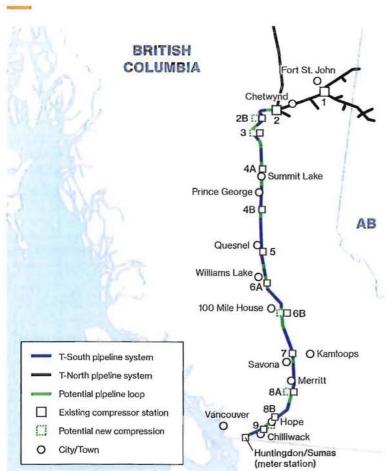
Map is for illustrative purposes only and not to scale. Project design is under development and configuration of pipeline loops, compressor units and additional compressor station modifications are subject to change.

In case of an emergency, please contact Enbridge's 24-hour emergency number: 1-800-663-9931



Image above: existing compressor station 5—"Australian" – near Quesnel, BC

Westcoast Energy Inc., an Enbridge company, (Enbridge) owns and operates British Columbia's (BC) major natural gas transmission infrastructure system, referred to as the Westcoast or BC Pipeline system, which transports processed natural gas to consumers throughout the province and to Alberta and the Pacific Northwest of the United States. This gas is used to heat homes, businesses, hospitals and schools. It is also used as a fuel for electric power generation and is a staple in many industrial and manufacturing processes.



Map is for illustrative purposes only and not to scale. Project design is under development and configuration of pipeline loops, compressor units and additional compressor station modifications are subject to change.

Project scope

Following a successful open season in 2022 that resulted in requests for additional transportation capacity, Enbridge is proposing an expansion of the southern portion of the Westcoast system known as T-South. The proposed expansion, named the Sunrise Expansion Program (Project), currently includes the addition of pipeline looping and additional compression along T-South to provide approximately 300 million cubic feet per day (MMcf/d) of additional natural gas transportation service. The targeted in-service date is late 2028.

Enbridge is in the early project development stage and studies will be required to support a regulatory application to the Canada Energy Regulator in mid-2024. The upcoming studies will help determine the specific configuration, location and timing of any new facilities, including compressor stations and pipeline loops. Project planning, feasibility studies and consultation with Indigenous groups, landowners and local communities will be undertaken to determine the detailed design of the Project.

Investigative field work studies

Enbridge plans to begin investigative environmental and geotechnical studies on select pipeline corridors as seasonal conditions allow, beginning in spring 2023. This work will determine any environmental or geotechnical considerations that may need to be factored into the scoping of the Project.

Field studies will include surveys of fish and fish habitats, vegetation, soil, watercourses, wetlands, wildlife and archaeology.



The proposed locations of field studies does not necessarily mean that an expansion will occur in that specific area. Rather, the information that is collected in the studies - along with other information such as Indigenous rightsholder interests and knowledge, and input from landowners and other local stakeholders - will inform the Project scope. Enbridge is committed to working with Indigenous groups, landowners and other interested parties. By understanding these interests, Enbridge will be in a better position to incorporate them into any upcoming field studies or Project-related activities.



Indigenous engagement

Enbridge is committed to developing economic opportunities for Indigenous groups and local communities ranging from training and employment opportunities to the procurement of goods and services from Indigenous businesses through a proactive supply chain process. Enbridge will seek to provide opportunities on the Project initially through employment and contracting in the early investigative studies, and during construction.

Enbridge is continuing its efforts to contribute to Indigenous reconciliation through enhanced hiring efforts, cultural awareness training and long-term economic benefits for Indigenous communities.

Stakeholder engagement

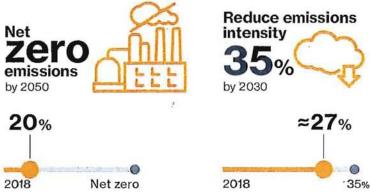
Consistent and transparent engagement with potentially affected stakeholders, including landowners, is a critical part of developing and operating safe projects.

We seek to create and sustain long-term value for landowners and communities near our projects and operations.

The Project is proposed to occur primarily along Enbridge's 23 existing right-of-way. Enbridge is evaluating the extent of additional permanent and temporary land requirements to accommodate construction and operation of the Project facilities, as the project design is refined. Enbridge will work closely with landowners during the Project development and design phase to gather feedback and respond to any questions or concerns.

Environmental performance commitment

Enbridge's environmental, social and governance (ESG) goals represent the next stage of our evolution as an ESG leader to ensure we're positioned to grow sustainably for decades to come. We believe climate change requires serious solutions and we're committed to delivering the energy mix of today and tomorrow - and helping to meet those needs in ways that are ethical, sustainable and socially responsible. Through these efforts, we will be en route to achieving company-wide net-zero emissions by 2050. To find out more about how we plan to meet these goals, please visit enbridge.com/esggoals.



Investing in Canada Infrastructure Program

The Investing in Canada Infrastructure Program allows BC to cost-share infrastructure investments between the governments of Canada and BC, local governments and other partners. As part of our commitment to environmental performance, Enbridge is currently evaluating the development of electric drive compression stations for this Project and applied to the Infrastructure Grant Planning Program in early 2023.

Contact us

Email

BCprojects@enbridge.com

Phone

1-833-267-2220 (toll-free)

Mail

Enbridge Inc. 3985 22 Ave Prince George, BC V2N 1B7







Safety is everyone's responsibility. For us, it is our job. Protecting you and the environment is the CER's priority. Here are a few things you should know.

Damage prevention: If you live or work near a pipeline, find out how to safely do your activities. Before you dig near a pipeline, get the company's consent. Visit clickbeforeyoudig.com to locate buried pipelines or utility lines.

Compliance and enforcement: CER inspection officers regularly go out into the field to verify and enforce requirements and standards in place to keep people and the environment protected.

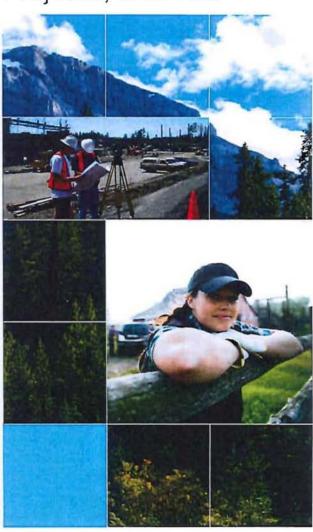
Emergency management: In an emergency, we make sure companies respond in a way that protects people, property, and the environment. We expect them to take the action needed to stop spills, manage the incident, and clean up and pay for any damage done.

Find out more

Find out more about the Canada Energy Regulator by visiting us online at www.cer-rec.gc.ca. Be sure to follow us on social media for the latest updates. For copies of any CER publication or for more information, contact us: www.cer-rec.gc.ca info@cer-rec.gc.ca TOLL FREE 1-800-899-1265 Write us or visit our library at: Canada Energy Regulator Suite 210, 517 Tenth Avenue SW Calgary, Alberta T2R 0A8 O His Majesty the King in the Right of Canada 2023 as represented by the Canada Energy Regulator The CER, Energy Projects and You Cat. No. NE23-210/2023E (PDF) ISBN 978-0-660-46997-3 Cat. No. NE23-210/2023E (Paper) 978-0-660-46998-0

The CER, Energy Projects, and You

Régie de l'énergie





The Canada Energy Regulator (CER) oversees federally regulated pipelines, power lines, and offshore renewable energy projects.







When you hear from a company about a project being proposed on your land, you may have questions and concerns. We understand.

Explore the topics from this brochure on our website. www.cer-rec.gc.ca.

Simply search for the **bolded** words for more information and italicized words for forms and templates.



Be part of the project - work with the company



Contact the company first. Your questions and concerns help shape the company's project. Companies are required to listen and respond to your comments and concerns. They must also identify the possible effects on nearby people, property, and the environment when it applies to the CER. Here are some opportunities to work with the company.

- Early engagement: We expect companies to engage early about a project and demonstrate to us how it considered the information it gathered. Let the company know whether the project may affect you. The company will let potentially affected people and communities know when it files an application with the CER.
- Land agreements: The company must tell you what land it is planning to use to construct, operate, and maintain its proposed project. It may propose a land agreement with you to confirm the lands the company can work on.
- Land use compensation: The company must compensate you for land acquisition, restricted use of lands, or damages caused by its activities.



CER project review

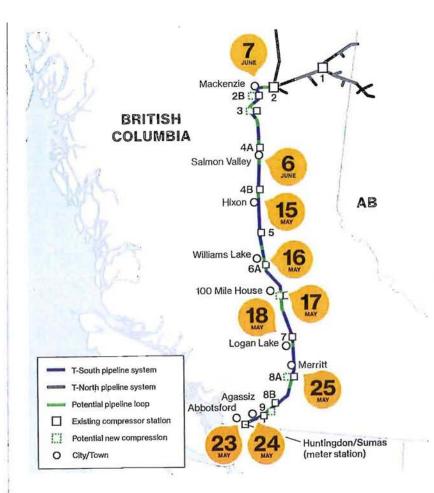
be heard

Before the company can build or abandon a federally regulated pipeline, power line, or offshore renewable energy project, it must apply to the CER. We will review and assess the proposed project, including the company's engagement activities and potential effects on people, property, and the environment.

- Statement of concern: We rely on you to bring forward your concerns and views. If you have concerns about a project, you can send us a Statement of Concern within 21 days of being notified that the company has filed an application. Your concerns will guide the CER in planning its review.
- Projects and hearings: The CER may hold a public hearing for facilities applications. If you have questions about the hearing process, contact a process advisor.



- Land Matters Advisory Service: If you have questions about land matters with respect to CER-regulated energy projects and processes, email LMAS@cer-rec.gc.ca.
- Alternative dispute resolution: Any time during the life of a project, if you are unable to resolve concerns directly with the company, you can email ADR-RED@cer-rec.gc.ca to ask a specialist to work with you and the company to find solutions.
- Complaint resolution: If you are unable to resolve an issue with a CER-regulated company, facility, or activity on lands you use or own, you can send us a completed Complaint Form.



2023 open houses will take place from 3 - 7 p.m. on the following days:

Monday, May 15 Hixon Community Hall

Tuesday, May 16 Williams Lake Tourism Discovery Centre

Wednesday, May 17 100 Mile House Community Hall

Thursday, May 18 Logan Lake District Fire Hall

Tuesday, May 23 Abbotsford Clarion Hotel and Conference Center

Wednesday, May 24 Agassiz Agricultural Hall

Thursday, May 25 Merritt Civic Center

Tuesday, June 6 Salmon Valley Hart Pioneer Centre

Wednesday, June 7 Mackenzie Recreation Centre

Call us toll-free at 1-833-267-2220, email us at bcprojects@enbridge.com or visit sunrise-program.com for more information.

Open house. Open conversation.

Enbridge is proposing an expansion of the southern portion of its natural gas transmission system to meet additional natural gas demand in the province and Pacific Northwest of the United States.

Please join us at an open house near you to learn about the Sunrise Expansion Program and meet members of the team who will be in attendance to gather your input and share information about the proposed Project.

Snacks and refreshments will be served.

