



CULTUS LAKE PARK BOARD REGULAR MEETING AGENDA

WEDNESDAY, MARCH 20, 2019

7:00 PM

PARK OFFICE BOARDROOM

4165 Columbia Valley Highway, Cultus Lake, BC

(1) CALL TO ORDER

(2) RESOLUTION TO PROCEED TO CLOSED MEETING (5:00 PM)

THAT the meeting be closed to the public to consider matters pursuant to the following sections of the **Community Charter**:

Section 90(1), (d) security of the property of the municipality; and

Section 90 (1), (k) negotiations and related discussions respecting the proposed provision of a municipal service that are at their preliminary stages and that, in the view of the council, could reasonably be expected to harm the interests of the municipality if they were held in public.

(3) RECONVENE

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(4) APPROVAL OF AGENDA

- (a) **THAT** the Cultus Lake Park Board approve the Agenda for the Regular Meeting of March 20, 2019; and

THAT all delegations, reports, correspondence and other information set to the agenda be received.

(5) ADOPTION OF MINUTES

Page 5

- (a) **THAT** the Cultus Lake Park Board adopt the minutes of the Regular Meeting held February 20, 2019.

(6) ADOPTION OF COMMITTEE MINUTES

Page 15

THAT the Cultus Lake Park Board receive the minutes of the Environmental and Public Areas Planning Committee held on January 25, 2019.

THAT the Cultus Lake Park Board receive the minutes of the Environmental and Public Areas Planning Committee held on March 8, 2019.

(7) DELEGATION

(a) Sudden Impact Paddling Club

- Presentation from Mehran Famili, Sudden Impact Paddling Club

(8) CORRESPONDENCE

(a) Canadian Cancer Society – Permission to Canvass

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- Letter dated February 6, 2019 from Jennifer Saunders, Annual Giving Coordinator, Canadian Cancer Society

(9) BYLAWS

Page 25

(a) Cultus Lake Park 2019 - 2023 Financial Plan Bylaw No. 1137, Amendment Bylaw No. 1131, 2018

***THAT** the Cultus Lake Park Board give Final reading to Cultus Lake Park 2019 - 2023 Financial Plan Amendment Bylaw No. 1137, 2019.*

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(b) Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017, Amendment Bylaw No. 1138, 2019

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- Report dated March 20, 2019 from Jacquie Spencer, Acting Manager of Visitor Services, Accommodations and Bylaw Enforcement

***THAT** the Cultus Lake Park Board give First, Second and Third reading to the Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017, Amendment Bylaw No. 1138, 2019.*

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(c) Cultus Lake Park Cabins at Cultus Lake Park Bylaw No. 1118, 2018, Amendment Bylaw No. 1139, 2019

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- Report dated March 20, 2019 from Jacquie Spencer, Acting Manager of Visitor Services, Accommodations and Bylaw Enforcement

***THAT** the Cultus Lake Park Board give First, Second and Third reading to the Cultus Lake Park Cabins at Cultus Lake Park Bylaw No. 1118, 2018, Amendment Bylaw No. 1139, 2019.*

(10) STAFF REPORTS

(a) Community Wildfire Protection Plan

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- Report dated March 20, 2019 from Bonny Bryant, Chief Administrative Officer
- Attachment #1 - Cultus Lake Park Community Wildfire Protection Plan
- Attachment #2 – Board Policy 2005 – 01
- Attachment #3 – Cultus Lake Park, Burning Conditions, Restrictions and Fire Ban Bylaw, Bylaw No. 1104, 2018

***THAT** the Cultus Lake Park Board review the Community Wildfire Protection Plan Status Report for information; and*

THAT the Cultus Lake Park Board direct the Chief Administrative Officer to bring this report forward for discussion during the strategic planning session.

(b) **Fir Street Alleyway Potential Parking Development**

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- Report dated March 20, 2019 from Bonny Bryant, Chief Administrative Officer
- Attachment #1 - Email to Fir St. & Second Ave. residents dated March 1, 2019 from Bonny Bryant, Chief Administrative Officer
- Attachment #2 – Survey map of Fir St. and Second Ave.
- Resident email responses

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THAT the Cultus Lake Park Board receive the Fir Street Alleyway Potential Parking Development report for information.

(c) **Star Nation Canoe Storage Update**

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- Report dated March 20, 2019 from Bonny Bryant, Chief Administrative Officer
- Attachment #1 to 6 – Site location options

THAT the Cultus Lake Park Board approve one of following options for canoe storage for the Star Nation Canoe Club:

1. Sunnyside Campground (Group Camping site A)
2. A location next to the 76 Sunnyside Blvd. - previously the Sailing Club Storage building
3. That no location be provided at Cultus Lake Park

Further that the Cultus Lake Park Board not permit a covered area and post and beam shelter. A fenced area will be permitted.

(d) **Special Event – Western Canoeing & Kayaking 3rd Annual Event: Paddle Expo 2019**

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- Report dated March 20, 2019 from Paul Holman Special Events Coordinator

THAT the Cultus Lake Park Board receive the report for information.

(11) REPORTS BY COMMISSIONERS

(a) **Environmental and Public Areas Planning Committee**

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- Report dated March 20, 2019 from Darcy Bauer, Chair, Environmental and Public Area Planning Committee
- Attachment #1 – Tree Selection

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the attached foreshore tree planting plan.

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the following Non-Indigenous trees, not on the Approved Tree Replacement List of the Cultus Lake Park Tree and Plant Bylaw No. 1091, 2018: Gingko biloba 'Maidenhair'; Pyrus calleryana 'Chanticleer', Tilia Cordata 'Little Leaf Linden', Acer platanoides 'Royal Red' and Metasequoia glyptostroboides 'Ogon' for planting along the foreshore.

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve that residents along the foreshore be consulted with respect to the tree planting.

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the relocation of one (1) memorial tree, including plaque and one (1) standalone memorial post to a memorial garden grouping and that the respective family's be consulted regarding the re-location of the memorial trees and plaques.

(12) PUBLIC QUESTION PERIOD

(13) ADJOURNMENT

THAT the Regular Meeting of the Cultus Lake Park Board held on March 20, 2019 be adjourned.



CULTUS LAKE PARK BOARD REGULAR MEETING MINUTES

Wednesday, February 20, 2019
CULTUS LAKE PARK OFFICE BOARDROOM
4165 Columbia Valley Highway, Cultus Lake, BC

Present Commissioner J. Lamb – Chair
Commissioner D. Bauer – Vice-Chair
Commissioner L. Payeur
Commissioner C. Smit

Staff Chief Administrative Officer – B. Bryant
Manager of Park Operations – D. Driediger
Chief Financial Manager – E. Lee
Acting Manager of Visitor Services, Accommodations and Bylaw Enforcement – J. Spencer
Executive Assistant – R. Litchfield

Absent Commissioner D. Renwick

(1) **CALL TO ORDER**

The Chair called the meeting to order at 7:01 pm.

(2) **RESOLUTION TO PROCEED TO CLOSED MEETING**

4298-19 Moved by: Commissioner Smit Seconded by: Commissioner Payeur

THAT the meeting be closed to the public to consider matters pursuant to the following sections of the **Community Charter**:

Section 90(1), (d) security of the property of the municipality; and

Section 90(1) (k) negotiations and related discussions respecting the proposed provision of a municipal service that are at their preliminary stages and that, in the view of the council, could reasonably be expected to harm the interests of the municipality if they were held in public.

(3) **RECONVENE**

The meeting reconvened at 6:58 pm.

(4) **APPROVAL OF AGENDA**

4299-19 Moved by: Commissioner Smit Seconded by: Commissioner Payeur

- (a) ***THAT** the Cultus Lake Park Board approve amending the Agenda for the Regular Meeting of February 20, 2019 by adding under Section 8, Correspondence, 8 (c), Letter dated December 5, 2018 from Chris Steunenbergh, Cultus Lake Business Association (CLBA) Chair; and by replacing schedules under Section 9, Bylaws, Item 9 (a), Cultus Lake Park 2019 – 2023 Financial Plan Bylaw No. 1137, Amendment Bylaw No. 1131, 2018; and by removing page 117 from the Agenda; and*

***THAT** the Cultus Lake Park Board approve the Agenda as amended; and*

***THAT** all delegations, reports, correspondence and other information set to the Agenda be received.*

(5) **ADOPTION OF BOARD MINUTES**

4300-19 Moved by: Commissioner Smit Seconded by: Commissioner Bauer

***THAT** the Cultus Lake Park Board adopt the minutes of the Regular Meeting held January 16, 2019.*

CARRIED

(6) **ADOPTION OF COMMITTEE MINUTES**

4301-19 Moved by: Commissioner Bauer Seconded by: Commissioner Payeur

***THAT** the Cultus Lake Park Board receive the minutes of the Environmental and Public Areas Planning Committee held on January 25, 2019.*

CARRIED

(7) **DELEGATIONS**

(a) **Cultus Lake Farmers Market**

- Presentation from Malcolm Weatherston, Farmers Market Coordinator regarding the 2019 Farmers Market

Malcolm Weatherston Farmers Market Coordinator proposed to the Board to hold this year's Farmers Market from June 22, 2019 to August 31, 2019 from 9:00 am – 3:00 pm. He proposed to market fresh local produce as well as local artisan products to attract residents and visitors.

Chair Lamb suggested that the request from Malcolm Weatherston, Farmers Market Coordinator be referred to the Community Events and Engagement Committee to provide recommendations to the Board.

(a) **Spirit Abreast Dragon Boat Society**

- Letter dated January 22, 2019 from Susan Grant, Chair, Spirit Abreast Dragon Boat Team regarding parking passes for paddle teams

4302-19 Moved by: Commissioner Payeur Seconded by: Commissioner Bauer

THAT the Cultus Lake Park Board approve to extend the 2019 parking pass for paddlers to include Saturday morning before 10:00 am, valid in Lot A in addition to approval of parking being valid from April 1 – Sept 30, for Lots A, B & C, one license plate per pass and sold at the Park Office. The passes are not valid Sundays and Statutory holidays and parking is on a first come first serve basis and passes do not guarantee availability.

CARRIED

(b) **Neighborhood Golf Carts**

- Letters dated January 22, 2019 from Owen Skonberg regarding consideration of neighborhood golf carts

Chair Lamb noted that Board will be discussing the use of golf carts in the neighborhood at the Strategic Planning Session in April of this year.

(c) **Cultus Lake Business Association (CLBA)**

- Letter dated January 16, 2019 from Chris Steunenberg, CLBA Chair and Jeff Bahnman, CLBA Vice Chair
- Letter dated December 5, 2018 from Chris Steunenberg, CLBA Chair

Chair Lamb announced that the Business Association has appointed Bob McCrea as their Administrator.

(8) **BYLAWS**

(a) **Cultus Lake Park 2019 - 2023 Financial Plan Bylaw No. 1137, Amendment Bylaw No. 1131, 2018**

- Report dated February 20, 2019 from Erica Lee, Chief Financial Officer

4304-19 Moved by: Commissioner Smit Seconded by: Commissioner Bauer

THAT the Cultus Lake Park Board give First, Second and Third readings to Cultus Lake Park 2019 - 2023 Financial Plan Amendment Bylaw No. 1137, 2019.

CARRIED

(9) **CONSENT AGENDA**

2018 Fourth Quarter Reports

- Reports dated February 20, 2019 for:
 - Strategic Priorities
 - Finance

- Public Works
- Lions Parking
- Campground and Cabins
- Bylaw Enforcement
- Fire Department
- Lease Assignment

4305-19 Moved by: Commissioner Payeur Seconded by: Commissioner Bauer

***THAT** the Cultus Lake Park Board receive the 2018 Fourth Quarter reports for information.*

CARRIED

(10) **STAFF REPORTS**

(a) **Municipal Affairs and Housing Statutes Amendment Act, 2019**

- Verbal report dated February 20, 2019 from Bonny Bryant, Chief Administrative Officer
- Bill 3 – 2019 Municipal Affairs and Housing Statutes Amendment Act,

Bonny Bryant, Chief Administrative Officer provided the public with an update on the Amendments to the *Cultus Lake Park Act*.

Chair Lamb noted that staff have been working with the Province for many years to request changes needed in the Act. The Board believes this is step two in the process and step three is next in addressing business licenses and many other things needed in order to support Cultus Lake Park.

(b) **IT Services and Insurance Requirements**

- Report dated February 20, 2019 from Bonny Bryant, Chief Administrative Officer
- Attachment # 1 - IT Consultant Agreement
- Attachment # 2 – Myriad Expenses, 2018

4306-19 Moved by: Commissioner Payeur Seconded by: Commissioner Smit

***THAT** the Cultus Lake Park Board direct the Chief Administrative Officer to renew the contract with Myriad Information Technology Solutions Inc. for the additional 5 year term as indicated in the current contract.*

CARRIED

4307-19 Moved by: Commissioner Payeur Seconded by: Commissioner Bauer

***THAT** the Cultus Lake Park Board direct the Chief Administrative Officer to issue a Request for Proposal (RFP) for the Insurance requirements of Cultus Lake Park.*

CARRIED

(c) **Cultus Lake Park Corporate Policy: Purchasing, Consulting & Publicly Tendered Contracts – Preferred Supplier List**

- Report dated February 20, 2019 from Erica Lee, Chief Financial Officer
- Attachment 1 – Resolution 4245-18

4308-19 Moved by: Commissioner Payeur Seconded by: Commissioner Bauer

THAT the Cultus Lake Park Board direct the Chief Administrative Officer to incorporate the following changes into the Cultus Lake Park Corporate Policy: Purchasing, Consulting & Publicly Tendered Contracts:

1. Addition to table in Section 3 – Purchasing Authority Levels

Estimated Value of	Procedure to use.....	Approval Required
<i>Recurring Purchases of Goods or Services Expected to exceed \$20,000 in aggregate.</i>	<i>Use the Preferred Supplier List process.</i>	<i>CAO approves and signs preferred supplier list upon recommendation of Manager(s).</i>

2. Addition as Section 4.A.4. – Administrative Procedure – Preferred Supplier Lists

Preferred Supplier Lists

Description: *For the reoccurring purchase of the same type of goods or services expected to exceed \$20,000 a review of available suppliers should be done to establish a preferred supplier list.*

The process steps are:

- *A list of suppliers for the goods or service in question should be compiled.*
- *Suppliers should be contacted to request the relevant information in order to be considered and evaluated as a preferred supplier.*
- *Suppliers should be notified that any purchases over \$5,000 will still require staff to obtain quotes or use the tender process as applicable.*
- *Manager should evaluate the supplier based on relevant criteria such as payment terms, delivery times and rates, rebates, discounts available, etc.*
- *Managers should request that suppliers added to the preferred supplier list be able to provide an annual summary of cost savings, when possible.*
- *The preferred supplier list and the evaluation process for each type of good or services expected to exceed \$20,000 should be approved by the CAO.*
- *A list of the preferred suppliers for each good or service type should be distributed to each staff member that is authorized to make purchases.*
- *Annually, if any additional goods or services are expected to exceed \$20,000, a preferred supplier should be establishment and the preferred supplier list should be updated.*
- *The preferred supplier list should be reviewed and re-established once every three years.*

3. Addition to Section 4.D.2. – Administrative Procedures – Annual Supply Contracts

Where it is expected that a department or multiple departments will require the same type of goods or service on a recurring basis (i.e. building supplies, gravel, shop supplies, janitorial supplies, office supplies, etc.) and the value of the goods or services is expected to exceed \$20,000 a list of preferred suppliers should be established and maintained at a minimum once every three year.

CARRIED

(d) **Residential Parking Permit Cost**

- Report dated February 20, 2019 from Dave Driediger, Manager of Park Operations

4309-19 Moved by: Commissioner Bauer Seconded by: Commissioner Payeur

Option #2

***THAT** the Cultus Lake Park Board direct the Chief Administrative Officer to charge \$200 per residential parking permit; and*

***THAT** the Cultus Lake Park Board authorize the purchase of residential parking permits, to a maximum of six (6) (including the four (4) free permits), be valid for the two year term (permits to be pro-rated) after April 2019.*

CARRIED

Commissioner Smit voted in opposition.

(e) **Cultus Golf Course Entrance Proposal**

- Report dated February 20, 2019 from Dave Driediger, Manager of Park Operations
- Attachment #1
- Attachment #2
- Attachment #3

4310-19 Moved by: Commissioner Payeur Seconded by: Commissioner Smit

***THAT** the Cultus Lake Park Board approve the Cultus Golf Park revised entrance/exit proposal.*

DEFEATED

Chair Lamb and Commissioner Bauer voted in opposition.

Jeff Bahnman was invited to answer questions regarding the proposal. Chair Lamb noted that if FVRD request the assessment then we will comply with their direction.

4311-19 Moved by: Commissioner Bauer Seconded by: Commissioner Lamb

***THAT** Mr. Bahnman be requested to perform an archaeological impact assessment and that Board be provided with the receipt of letter in opposition of the entrance proposal.*

CARRIED

Commissioner Smit voted in opposition.

(f) **Star Nation Canoe Club (Stó:lō Nation) Canoe Storage**

- Report dated February 20, 2019 from Dave Driediger, Manager of Park Operations
- Attachment #1 – Site location 1
- Attachment #2- Site location 2
- Attachment #3- Site location 3

Chair Lamb deferred the report back to staff to invite the Commissioners to undertake a walk a bout to discuss the pros and cons for each proposed site and that a report be prepared for the next meeting.

(g) **Special Event – Western Canoeing & Kayaking 3rd Annual Event: Paddle Expo**

- Report dated February 20, 2019 from Paul Holman, Special Events Coordinator

4312-19 Moved by: Commissioner Smit Seconded by: Commissioner Bauer

***THAT** the Cultus Lake Park Board approve the request from the Western Canoeing and Kayaking to have Lakeside Beach Club provide burgers and wraps for sale to event participants and the public; and*

***THAT** the Cultus Lake Park Board approve the request from the Western Canoeing and Kayaking to use propane fire pits on Main Beach; and*

***THAT** staff be directed to contact Mr. Kosub, owner of Main Beach Boat Rentals to inform him of the event and to report back to the Board any concerns at the March 20, 2019 meeting providing comments from Mr. Kosub, owner of Main Beach Boat Rentals.*

CARRIED

(11) **REPORTS BY COMMISSIONERS**

(a) **Memorandum of Understanding – RCMP Services**

- Verbal report by Chair Lamb

Chair Lamb announced that Cultus Lake Park is entering into a joint agreement with the Royal Canadian Mounted Police to establish Community Policing office in Cultus Lake Park.

(b) **Recommendations from the 2019 Environmental and Public Areas Committee**

- Report dated February 20, 2019 from Darcy Bauer, Chair, Environmental and Public Areas Committee

4313-19 Moved by: Commissioner Payeur Seconded by: Commissioner Bauer

***THAT** section 5.3 of the Environmental and Public Areas Planning Committee Terms of Reference be amended from: A member of a Committee will have one (1) vote only, to: All voting members of a committee will have one (1) vote only.*

CARRIED

(c) **Recommendations from the 2019 Environmental and Public Areas Committee Volunteer Recognition**

- Report dated February 20, 2019 from Darcy Bauer, Chair, Environmental and Public Areas Committee
- Attachment #1
- Attachment #2
- Attachment #3

4314-19 Moved by: Commissioner Smit Seconded by: Commissioner Payeur

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to direct the Chief Administrative Officer to proceed with the Main Beach Critical Root Zone Enhancement Project; and

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to direct the Chief Administrative Officer to proceed with the proposed landscaping in front of Main Beach Rentals; and

THAT the Environmental and Public Areas Planning Committee request that the Cultus Lake Park Board approve the plans for Fir Lane restoration of green space drawing; and

THAT the Environmental and Public Areas Planning Committee request that the Cultus Lake Park Board approve the removal of invasive species in designated areas; and

THAT the Environmental and Public Areas Planning Committee request that the Cultus Lake Park Board approve volunteers to help with the implementation of both the Fir Lane restoration of green space plan, removal of invasive species and Main Beach Critical Root Zone Enhancement project as outlined by the Committee; and

THAT the Environmental and Public Areas Planning Committee request that the Cultus Lake Park Board direct the Chief Administrative Officer to consult with the neighborhood for potential parking in this area.

CARRIED

(12) **PUBLIC QUESTION PERIOD**

Q: Brent Shirley, Park Drive, observed financial information on the Agenda with respect to parking revenue. He noted that were losses in revenue throughout the low season. He suggested that if the Park did not charge for parking in the winter, that more people may visit during that time. He also observed in the 2018 budget information, operating expenses vs. actuals and had further questions regarding these allocations.

A: Chair Lamb noted that the Board would take this suggestion under advisement and suggested that Mr. Shirley may consult with Erica Lee, Chief Financial Manager.

Q: Rick Williamson, First Avenue, inquired if there will be an annual lease fee attached to the Canoe storage if a site is selected and construction begins for a canoe storage area?

- A: Bonny Bryant, Chief Administrative Officer noted that the group is prepared to pay a lease rate and at this time, staff are currently considering site locations.
- Q: Owen Skonberg, Mountain View Road asked if the Board is prepared to enter into agreements with other First Nations clubs or groups in Chilliwack and are they prepared accommodate all of them?
- A: Chair Lamb noted that they have considered other avenues and that this is part of the exploration in fostering our relationships and by doing this, consideration will be taken in determining space and areas that may be available.
- Q: Brenda Senft, First Avenue, asked if the canoes that are stored between 106 First Ave and Main Beach, will be removed or be allowed to remain there?
- A: Chair Lamb noted that the request was submitted from a different group. The new request has been submitted as they are hoping to have a secure area to reduce any damages or vandalism to their canoes and the Board would like to try to accommodate their request.
- Q: Ernie Vance, Mountain View, offered some suggestions with respect to the budget amendments and surplus management. He inquired on the allocation of IT Services. He noted that the Golf Course Open House advisement for the entrance proposal, he missed the notice as it appeared as an advertising piece. He further noted with respect to the Policing Services, he suggested the use of Block Watch again in the community and that it was a budgeted item.
- A: Chair Lamb clarified that the Block Watch Program is through the City of Chilliwack and is for the Chilliwack area itself however, he noted that it is a very valuable program and suggested that it would be great for the community.
- Q: Bob McCrea, Lakeshore Drive, inquired on the schedule for the RCMP services. He asked for clarification on the full time status of the members.
- A: Chair Lamb noted that the Memo of Understanding is to fund a full time officer and that the Park will be given the equivalent of a two full time members during that period. He noted that there are current changes happening behind the scenes with rural RCMP funding.
- Q: Chris Skonberg, Mountain View, wished to thank the Board for acknowledging the process for receiving correspondence. She expressed her concern with providing the public with the bus transit schedule information as she heard the service schedule delivers up to ten times a day. She also noted that there may be concerns with respect to the stream area as it is used for spawning if the boathouse for canoe storage were to be placed in that area. She suggested that the Board consider the option to purchase the property for sale along the highway.
- Q: Andrew Steunenberg, Cultus Lake Waterpark, inquired if there is any impact with the request for proposal for security in the park for Sunnyside Campground? He also inquired on the expansion or repaving for the Community Hall? He noted that the park is currently running a deficit with respect to the rentals.
- A: Chair Lamb noted the importance of providing a service to the community and currently the hall parking lot is at capacity and they would like to address the safety concern with respect to those parking across the street.

Q: Chris Skonberg, Mountain View Road, noted that their security cameras captured some of the footage when a home had caught on fire on their road. She thought it would be helpful in providing the information to the fire service members. She suggested that residents may wish to install cameras on their home.

Q: Ken Dosen, Park Drive, complimented the Board on their great accomplishment with the policing agreement. He inquired if this service also extends to the Park Drive and Mountain View areas. He further commented on the size of the building for the proposed canoe storage and referenced past unsightly storage areas in Sunnyside Campground and cautioned the Board.

A: Chair Lamb clarified that the only exclusion area will be in Sunnyside Campground where they will have their own security.

(13) **ADJOURNMENT**

4315-19 Moved by: Commissioner Smit Seconded by: Commissioner Bauer

***THAT** the Regular Meeting of the Cultus Lake Park Board held on February 20, 2019 be adjourned at 9:14 pm.*

CARRIED

I hereby certify the preceding to be a true and correct account of the meeting of the Cultus Lake Park Board held February 20, 2019.

Joe Lamb
Chair

Bonny Bryant
Chief Administrative Officer
Corporate Officer



ENVIRONMENTAL AND PUBLIC AREAS PLANNING COMMITTEE

January 25, 2019

Meeting Minutes

Present:

Darcy Bauer	Committee Chair/Cultus Lake Park Commissioner
Larry Payeur	Committee Vice-Chair/Cultus Lake Park Commissioner
Steve Arnold	Public Appointee
Brenda Senft	Public Appointee
Bonny Bryant	CAO-Cultus Lake Park
Dave Driediger	Manager of Park Operations
Katrina Craig	Cultus Lake Park Staff

Absent:

Brenda Cosgrove	Public Appointee
Paul Gough	Public Appointee

The meeting was called to order by the Chair at 9:02 am

ADOPTION OF AGENDA

Moved by: Larry Payeur

Seconded by: Brenda Senft

***THAT** the Agenda for the January 25, 2019 Environmental and Public Areas Planning Committee meeting be approved.*

CARRIED

INTRODUCTION OF COMMITTEE MEMBERS

- Committee members were introduced.

TERMS OF REFERENCE

- The Terms of Reference for the Environmental and Public Areas Planning Committee were reviewed by the committee.
- During the review, one amendment was recommended. That section 5.3 be amended from: A member of a Committee will have one (1) vote only, to: All voting members of a committee will have one (1) vote only.

COMMITTEE OBJECTIVES

- As per the Environmental and Public Areas Planning Committee's Terms of Reference section 1.1 – This Standing Committee is to review and assist in developing the Main Beach/Foreshore Masterplan and the Urban Forest Management Plan.
- Shoreline Erosion.
- Protecting the mature trees within the Park.
- Protecting the trees on Main Beach from heavy foot traffic.

TREE ASSESSMENT REPORT

- A discussion was had regarding the 2016 Main Beach and Park Office Hazard Tree Risk Assessment / Arborist Report.
- Focus on the highest priority hazard trees. The next step would be going beyond a visual assessment and possibly coring the trees flagged as high hazard trees to determine what the next steps would be.
- Brenda Senft presented a plan to address the protection of the roots of the larger fir trees on Main Beach. This plan included the use of “island” landscaping to deter heavy foot traffic that can cause damage to the roots of trees.
- The drainage near Main Beach is being addressed and is ongoing.
- Irrigation on Main Beach: working on recouping “brown areas” and bringing in more grass vs. gravel areas.
- Incorporating Goose Management Landscaping at Main Beach, starting near the creek, would help with goose control.

RECOMMENDATIONS:

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to direct the CAO to proceed with the Main Beach Critical Root Zone Enhancement Project.

ENGINEERING AND REPORTS FROM DESIGN CONSULTANTS

- A discussion was had regarding the January 11, 2019 Proposal for Shoreline Erosion Assessment from Golder.
- Cultus Lake Park will continue to work with Golder following their proposed scope of work.

GENERAL DISCUSSION

- **Invasives:**
 - The newly planted area near the 2nd foot bridge at the creek has become inundated with blackberries. Volunteers are willing to help with this issue, keeping them trimmed back until the fall.
- **Fir lane green space:**
 - The green space in the land behind the houses on Fir St needs some TLC. Residents in the area are willing to tidy and care for this area. Brenda Senft to connect with the residents to offer support and come up with a plan. This design will be forwarded to the Chief Administrative Officer for Board approval. In the meantime, general cleanup ie: removal of blackberry bushes may proceed.
- Placing mulch at the base of the maple trees across from the Park office would help them thrive.
- Having the community help with the watering of trees within the Park during the high heat season may be beneficial.
- Could the Fire Department help with watering during their Monday night practices?

AGENDA ITEMS FOR THE NEXT MEETING

- Forest Conservation
- Bonny Bryant to report back on recommendation on types and costs for larger trees.
- Brenda Senft to report back on volunteers.

NEXT MEETING DATE

- March 8, 2019 from 9:00 am – 11:00 am

ADJOURNMENT OF THE MEETING

Moved by: Larry Payeur
Seconded by: Brenda Senft

***THAT** the January 25, 2019 Environmental and Public Areas Planning Committee meeting be adjourned.*

CARRIED

Meeting Adjourned at 11:00 am

Committee Chair Commissioner Bauer



ENVIRONMENTAL AND PUBLIC AREAS PLANNING COMMITTEE

March 8, 2019

Meeting Minutes

Present:

Darcy Bauer	Committee Chair/Cultus Lake Park Commissioner
Larry Payeur	Committee Vice-Chair/Cultus Lake Park Commissioner
Brenda Cosgrove	Public Appointee
Paul Gough	Public Appointee
Brenda Senft	Public Appointee
Dave Driediger	Manager of Park Operations
Katrina Craig	Cultus Lake Park Staff

Absent:

Steve Arnold	Public Appointee
Bonny Bryant	CAO-Cultus Lake Park

The meeting was called to order by the Chair at 9:03 am

ADOPTION OF AGENDA

Moved by: Larry Payeur

Seconded by: Brenda Senft

***THAT** the agenda for the March 8, 2019 Environmental and Public Areas Planning Committee be approved.*

ADOPTION OF COMMITTEE MINUTES from January 25, 2019

Minutes adopted via email circulated January 31, 2019

Moved by: Larry Payeur

Seconded by: Brenda Senft

FORESHORE PLANTING

- Tree selections and locations, see attachment #1.
- All deciduous trees.
- Group planting.
- The goal is to not block any views.
- The committee has received some donations of trees.
- The committee is committed to planting trees in the Park as there have been lots of trees lost over the last few years.
- Attachment #2 – Chief Administrative Officer to review: letter to residents, contacting residents and community tree tags.

*** Minutes approved via email on March 14, 2019**

- Memorial tree grouping: would require the movement of one tree and would include three (3) posts and two (2) trees.
- Staff has mapped all memorial trees, benches and plaques in the Park.
- Cultus Lake Park staff to dig holes for tree planting.
- Possibly have residents adopts trees, helping out with watering in the dry months;
- The committee would like to use the arborist mulch in the surrounding forest when planting along the foreshore.

Recommendations to the Board:

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the attached foreshore tree planting plan;

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the following Non-Indigenous trees not on the Approved Tree Replacement List of the Cultus Lake Park Tree and Plant Bylaw No. 1091, 2018: *Gingko biloba* 'Maidenhair', *Pyrus calleryana* 'Chanticleer', *Tilia Cordata* 'Little Leaf Linden', *Acer platanoides* 'Royal Red' and *Metasequoia glyptostroboides* 'Ogon' for planting along the foreshore;

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve that residents along the foreshore be consulted with respect to the tree planting;

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the relocation of one (1) memorial tree, including plaque and one (1) standalone memorial post to a memorial garden grouping and that the respective family's be consulted regarding the re-location of the memorial trees and plaques.

MAIN BEACH TIMELINES

- Dave Driediger, Manager of Park Operations is working with CHP Architects for upgrades to Main Beach. Their main focus are:
 - Addition of irrigation to greenspace above Main Beach;
 - Resurfacing and defining service roads;
 - Improving drainage across the Main Beach areas between Parking Lot B and the lake;
 - Outdoor shower installation;
 - Connecting the footpath between the Sweltzer Creek/Parking Lot A bridge and the foreshore trail at First Avenue; and
 - Addition of landscaping/greenscaping at tree bases to promote tree health and improve picnic area's presentation.
- Vector Geomatics & Surveying are working on a survey of Main Beach.
- The main goal is sequential planning to make sure these items all complement each other.
- Boulder placement at Main Beach:
 - Brenda Senft has boulders that have been donated and they will be delivered April 1, 2019;

- Helmer Contracting to be hired for boulder placement, for \$2000 on the weekend of April 6, 2019;
 - Boulders to be placed soon, mulch to be placed after the drainage is addressed.
- The committee would like to use some stumps that are in the surrounding forest as part of the critical root zone landscaping on Main Beach. Coordination with staff will be required.

FIR LANE GREENSPACE

- Visitors to the Park use the Fir Lane greenspace as an access way to and from Main Beach depending on where they park.
- Residents would like to see the trails blocked from public access; they do not want paths in the greenspace.

TIMELINES FOR THE REMOVAL OF DEAD TREES

- Staff has met with Rim Tree to devise a plan for the removal of dead trees within the Park.

FOREST

- A discussion was had regarding the forest behind Monroe Avenue and from the Plaza to the golf course, focusing on improvement and safety of trails; the committee would like to be involved.
- Concerns of smoking and fire safety in the trails behind the Community School were discussed.

EROSION UPDATE

- Golder Associates has spent the last month collecting information and data and are now working on recommendations.

MISCELLANEOUS

- Mulch drop placement and why mulch is important, see attachment #3.
- Prior to mulch placement, dump sites are to be determined by staff and approved by the Chief Administrative Officer.
- Can the volunteer fire fighters incorporate watering the larger treed area's during the summer months as part of their training?
- Can there be fire safety and fire extinguisher proper usage training/education to commercial lease holders that are in proximity to areas with mulch? This is addressed in the Community Wildfire Protection Plan.
- The committee discussed communication between committee and staff.
- Blackberries: volunteers to be removing some blackberry bushes at the Fir Lane greenspace. Park staff to remove the pruned branched.
- Committee members would like to re-use and keep the ground cover that is cleaned up by Public Works. To be discussed at the next committee meeting.

NEXT MEETING DATE

- May 3, 2019 at 9:00 am

ADJOURNMENT OF THE MEETING

Moved by: Larry Payeur

Seconded by: Brenda Senft

THAT the March 8, 2019 meeting of the Environmental and Public Areas Planning Committee
be adjourned

Meeting Adjourned at 11:09 am

February 6, 2019

Chief Administrative Officer
Cultus Lake Park

4165 Columbia Valley Hwy
Cultus Lake, BC V2R 5B5

Re: Permission to Canvass

From April 1 to April 30, 2019 the Canadian Cancer Society holds its annual Daffodil Campaign. During the month the Door to Door fund raising drive takes place. The dollars raised assist the Canadian Cancer Society in providing funds for cancer research, services to people living with cancer, education, information and advocacy for healthy lifestyles. Hundreds of volunteers participate each year.

At this time I am requesting permission to canvass in Cultus Lake Park from April 1 to April 30, 2019.

I look forward to your positive response to the request.

Sincerely,

Jennifer Saunders
Annual Giving Coordinator
Canadian Cancer Society
Phone: 250-762-6381
Email: jennifer.saunders@cancer.ca
Web: www.cancer.ca



Cultus Lake Park

2019-2023 Five-Year Financial Plan Amendment Bylaw No. 1137, 2019

A Bylaw to amend The Cultus Lake Park Board 2019-2023 Financial Plan

The Board for Cultus Lake Park did enact a bylaw cited as "*Cultus Lake Park 2019-2023 Financial Plan Bylaw No. 1131, 2018*".

The Board for Cultus Lake Park deems it advisable to amend said bylaw;

The Board for Cultus Lake Park, in open meeting assembled, enacts as follows:

1. TITLE

This Bylaw may be cited for all purposes as "The Cultus Lake Park 2019-2023 Financial Plan Bylaw No. 1131, 2018, Amendment Bylaw No. 1137, 2019"

2. AMENDMENTS

Schedule "A" titled 2019 Financial Plan and Schedule "B" titled 2019-2023 Financial Plan, attached hereto and forming part of this Bylaw, are hereby declared to be the 2019-2023 Amended Financial Plan for Cultus Lake Park.

3. EFFECTIVE DATE

READ A FIRST TIME this 20 day of February, 2019

READ A SECOND TIME this 20 day of February, 2019

READ A THIRD TIME this 20 day of February, 2019

ADOPTED this XX day of XXXX, 2019

Joe Lamb, Chair
Cultus Lake Park Board

Bonny Bryant
Chief Administrative Officer

I HEREBY CERTIFY the foregoing to be a true
and correct copy of "Cultus Lake Park
2019-2023 Five-Year Financial Plan
Amendment Bylaw No. 1137, 2019"

Chief Administrative Officer



CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0550

SUBMITTED BY: Jacquie Spencer,
Acting Manager of Visitor Services, Accommodations and Bylaw Enforcement

SUBJECT: Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017, Amendment
Bylaw No. 1138, 2019

PURPOSE:

To provide information for the Board to consider prior to amending Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017.

RECOMMENDATIONS:

***THAT** the Cultus Lake Park Board give First, Second and Third reading to the Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017, Amendment Bylaw No. 1138, 2019.*

DISCUSSION:

At the December 19, 2018 Cultus Lake Park Board meeting the following motion was carried:

THAT the Cultus Lake Park Board give Final reading to Cultus Lake Park 2019-2023 Financial Plan Bylaw No. 1131, 2018. As these increases are different from the current bylaws they need to be amended for consistency.

STRATEGIC PLAN:

This report does not impact the Board's Strategic Plan Initiative.

Prepared by:

Approved for submission to the Board:

Jacquie Spencer,
Acting Manager of Visitor Services,
Accommodations and Bylaw Enforcement

Bonny Bryant
Chief Administrative Officer



Cultus Lake Park

SUNNYSIDE CAMPGROUND BYLAW NO. 1099, 2017 AMENDMENT BYLAW NO. 1138, 2019

A Bylaw to amend Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017

The Board for Cultus Lake Park did enact a bylaw cited as "*Cultus Lake Park - Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017*".

The Board for Cultus Lake Park deems it advisable to amend said bylaw;

The Board for Cultus Lake Park, in open meeting assembled, enacts as follows:

1. TITLE

This Bylaw may be cited for all purposes as "Cultus Lake Park Sunnyside Campground Bylaw No. 1099, 2017, Amendment Bylaw No. 1138, 2019"

2. AMENDMENTS

Delete Schedule A Fees and Fines and replace with the attached Schedule A.

3. EFFECTIVE DATE

READ A FIRST TIME this XX day of XX, 2019

READ A SECOND TIME this XX day of XX, 2019

READ A THIRD TIME this XX day of XX, 2019

ADOPTED this XX day of XX, 2019

Joe Lamb, Chair
Cultus Lake Park Board

Bonny Bryant
Chief Administrative Officer

I HEREBY CERTIFY the foregoing to be a true
and correct copy of Cultus Lake Park Sunnyside
Campground Bylaw No. 1099, 2017, Amendment Bylaw
No. 1138, 2019

Chief Administrative Officer

Schedule A

Fees and Fines

Fees

Administration fee (charged to seasonal and waitlist refunds).....	\$25.00
Annual on-site refrigerator fee: up to 5.0 cu ft.....	\$45.00
Annual on-site refrigerator fee: over 5.0 cu ft (grandfathered).....	\$90.00
Buoy rental (Weekly).....	\$75.00
Buoy rental (Daily).....	\$15.00
Cancellation fee (if cancelled 7 days prior to arrival).....	\$13.00
Cost of rectifying non-approved site alterations.....	Actual Hourly rate + 25%
overhead + materials + other related costs	
Cost of removal of unauthorized items disposed of.....	Actual Hourly rate + 25%
overhead + materials	
Cost of replacement tree due to willful damage.....	Actual Hourly rate + 25%
overhead + materials (mature tree up to 14 feet in height)	
Cost of seasonal site clean-up.....	Actual Hourly rate + 25%
overhead + other related costs	
Day visitor.....	\$10.00
Extra seasonal parking spot and/or boat storage.....	\$100.00 per season
Extra seasonal vehicle pass (maximum 2).....	\$50.00 each
Full hookup – daily – Sunday to Thursday low season	\$45.00
Full hookup – daily Friday and Saturday – low season.....	\$46.00
Full hookup – daily long weekend – low season	\$54.00
Full hookup – daily Sunday through Thursday – high season.....	\$49.00
Full hookup – daily Friday and Saturday – high season.....	\$56.00
Full hookup – daily long weekend – high season.....	\$58.00
Group site day use – low season	\$150.00
Group site day use – high season.....	\$200.00
Group site overnight – low season.....	\$275.00

Group site overnight – high season.....	\$320.00
Late night entry keycard deposit	\$25.00
Late night entry keycard fee for lost, stolen or damaged cards.....	\$25.00
Late payment fee (per day)	\$5.00
Overnight full hook-up April monthly camping fee.....	\$750.00/month
Overnight full hook-up May monthly camping fee.....	\$750.00/month
Overnight full hook-up June monthly camping fee.....	\$750.00/month
Overnight full hook-up September monthly camping fee.....	\$750.00/month
Overnight visitor – no vehicle – extra adult on site (maximum - 4 adults per site).....	\$10.00
Overnight guest boat launch	\$20.00
Overnight Camping visitor vehicles (maximum 1 per site, includes driver).....	\$20.00
Overnight family vehicle (must be from same address and may be required to show proof of address)	\$10.00
Overnight campers with pets	\$5.00 daily per pet or max \$20.00 per week per pet
Picnic fee (extended campsite time – low season only).....	\$20.00
Reservation fee	\$12.00
Tenting – double Site – daily Sunday through Thursday – low season.....	\$65.00
Tenting – double Site – daily Friday and Saturday – low season.....	\$66.00
Tenting – double Site – daily long weekends – low season.....	\$66.00
Tenting – double Site – daily Sunday through Thursday – high season.....	\$73.00
Tenting – double Site – daily Friday and Saturday – high season.....	\$77.00
Tenting – double Site – daily long weekends – high season.....	\$82.00
Tenting – regular – daily Sunday through Thursday – low season.....	\$33.00
Tenting – regular – daily Friday and Saturday – low season.....	\$34.00
Tenting – regular – daily long weekend – low season.....	\$34.00
Tenting – regular – daily Sunday through Thursday – high season.....	\$37.00
Tenting – regular – daily Friday and Saturday – high season.....	\$44.00

Tenting – regular – daily long weekend – high season.....	\$46.00
Tenting – view – daily Sunday through Thursday – low season.....	\$36.00
Tenting – view – daily Friday and Saturday – low season.....	\$37.00
Tenting – view – daily long weekend – low season.....	\$37.00
Tenting – view – daily Sunday through Thursday – high season.....	\$41.00
Tenting – view – daily Friday and Saturday – high season.....	\$48.00
Tenting – view – daily long weekend – high season.....	\$50.00
Tenting – waterfront – daily Sunday through Thursday – low season.....	\$45.00
Tenting – waterfront – daily Friday and Saturday – low season.....	\$46.00
Tenting – waterfront – daily long weekend – low season.....	\$54.00
Tenting – waterfront – daily Sunday through Thursday – high season.....	\$49.00
Tenting – waterfront – daily Friday and Saturday – high season.....	\$56.00
Tenting – waterfront – daily long weekend – high season.....	\$58.00
Tenting – preferred beachfront sites A, B, C and D – daily Sunday through Thursday – low season.....	\$46.00
Tenting – preferred beachfront sites A, B, C and D – daily Friday and Saturday – low season.....	\$47.00
Tenting – preferred beachfront sites A, B, C and D – daily long weekend – low season.....	\$58.00
Tenting – preferred beachfront sites A, B, C and D – daily Sunday through Thursday – high season.....	\$50.00
Tenting – preferred beachfront sites A, B, C and D – daily Friday and Saturday – high season.....	\$58.00
Tenting – preferred beachfront sites A, B, C and D – daily long weekend – high season.....	\$60.00
Sani-dump non-camper.....	\$10.00
Seasonal deposit.....	\$250.00
Seasonal non-refundable prepayment.....	\$1,000.00
Seasonal regular site	\$4,697.00
Seasonal view site.....	\$5,124.00
Seasonal waterfront site.....	\$5,486.00
Seasonal waitlist	\$100.00
Unrequired early positioning - application fee.....	\$100.00

Fines

Alcohol left unattended on site	\$50.00
Animal nuisance.....	\$50.00
Disregarding 11:00 pm beach closure.....	\$50.00
Dog feces clean-up	\$50.00
Dog off leash	\$50.00
Dog off leash without an ID Tag.....	\$50.00
Dog without an ID Tag	\$50.00
Fires after 11:00 pm	\$50.00
Fires burning after check out	\$50.00
Disrespectful behaviour.....	\$50.00
Late check out	\$50.00
Non-approved site alteration.....	\$50.00
Noise regulation infraction.....	\$50.00
Open alcohol off site	\$50.00
Persons 18 years or under not accompanied by an adult while off site after 11:00 pm.....	\$50.00
Quiet time violations.....	\$50.00
Removal of recycling or waste from any disposal receptacle or any other site than a camper's own.	\$50.00
Solicitation of recycling material from other persons within the Campground	\$50.00
Seasonal cleanup	\$50.00
Speed – exceeding posted speed limit.....	\$50.00
Tree violation.....	\$50.00
Unauthorized disposal.....	\$50.00
Unauthorized off site storage	\$50.00
Unauthorized vehicle parking	\$50.00
Unauthorized vehicle	\$50.00

Unregistered fridge.....	\$50.00
Unsightly campsite	\$50.00
Use of electricity contrary to regulations.....	\$50.00



CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0550

SUBMITTED BY: Jacquie Spencer,
Acting Manager of Visitor Services, Accommodations and Bylaw Enforcement

SUBJECT: Cultus Lake Park Cabins at Cultus Lake Park Bylaw No. 1118, 2018,
Amendment Bylaw No. 1139, 2019

PURPOSE:

To provide information for the Board to consider prior to amending Cultus Lake Park Cabins at Cultus Lake Park Bylaw No. 1118, 2018.

RECOMMENDATIONS:

***THAT** the Cultus Lake Park Board give First, Second and Third reading to the Cultus Lake Park Cabins at Cultus Lake Park Bylaw No. 1118, 2018, Amendment Bylaw No. 1139, 2019.*

DISCUSSION:

At the December 19, 2018 Cultus Lake Park Board meeting the following motion was carried:

THAT the Cultus Lake Park Board give Final reading to Cultus Lake Park 2019-2023 Financial Plan Bylaw No. 1131, 2018. As these increases are different from the current bylaws they need to be amended for consistency.

STRATEGIC PLAN:

This report does not impact the Board's Strategic Plan Initiative.

Prepared by:

Jacquie Spencer,
Acting Manager of Visitor Services,
Accommodations and Bylaw Enforcement

Approved for submission to the Board:

Bonny Bryant
Chief Administrative Officer



Cultus Lake Park

THE CABINS AT CULTUS LAKE PARK BYLAW NO. 1117, 2018 AMENDMENT BYLAW NO. 1139, 2019

A Bylaw to amend Cultus Lake Park The Cabins at Cultus Lake Park Bylaw No. 1117, 2018

The Board for Cultus Lake Park did enact a bylaw cited as "*Cultus Lake Park - The Cabins at Cultus Lake Park Bylaw No. 1117, 2018*".

The Board for Cultus Lake Park deems it advisable to amend said bylaw;

The Board for Cultus Lake Park, in open meeting assembled, enacts as follows:

1. TITLE

This Bylaw may be cited for all purposes as "Cultus Lake Park The Cabins at Cultus Lake Park Bylaw No. 1117, 2018, Amendment Bylaw No. 1139, 2019"

2. AMENDMENTS

Delete Schedule A Fees and Fines and replace with the attached Schedule A.

3. EFFECTIVE DATE

READ A FIRST TIME this XX day of XX, 2019

READ A SECOND TIME this XX day of XX, 2019

READ A THIRD TIME this XX day of XX, 2019

ADOPTED this XX day of XX, 2019

Joe Lamb, Chair
Cultus Lake Park Board

Bonny Bryant
Chief Administrative Officer

I HEREBY CERTIFY the foregoing to be a true
and correct copy of Cultus Lake Park The Cabins
at Cultus Lake Park Bylaw No. 1117, 2018, Amendment
Bylaw No. 1139, 2019

Chief Administrative Officer

Schedule A

Fees and Fines

Fees

Administrative fee	\$25.00
Arbutus nightly low season	\$154.00
Arbutus nightly high season	\$306.00
Arbutus weekly low season	\$922.00
Arbutus weekly high season	\$1837.00
Birch nightly low season	\$130.00
Birch nightly high season	\$237.00
Birch weekly low season	\$781.00
Birch weekly high season	\$1421.00
Cancellation fee (if cancelled 7 days prior to arrival)	\$13.00
Cedar or Fir nightly low season	\$108.00
Cedar or Fir nightly high season	\$155.00
Cedar or Fir weekly low season	\$647.00
Cedar or Fir weekly high season	\$928.00
Dogwood or Elm nightly low season	\$117.00
Dogwood or Elm nightly high season	\$172.00
Dogwood or Elm weekly low season	\$704.00
Dogwood or Elm weekly high season	\$1031.00
Forestview nightly low season	\$187.00
Forestview nightly high season	\$377.00
Forestview weekly low season	\$1120.00
Forestview weekly high season	\$2260.00
Lakeview nightly low season	\$179.00

Lakeview nightly high season	\$369.00
Lakeview weekly low season	\$1076.00
Lakeview weekly high season	\$2215.00
Pet nightly	\$10.00
Pet weekly	\$50.00
Pet monthly	\$80.00
Replacement cabin key	\$50.00
Reservation fee	\$12.00
Cabin damage or replacement of broken item(s)	actual cost plus 25 percent overhead
Cost of cleaning and deodorizing a cabin due to smoking	actual cost plus 25 percent overhead
Cost of replacement tree.....	actual cost of mature tree of up to 14 feet in height plus 25 percent overhead + costs

Fines

Animal nuisance	\$50.00
Fines during prohibited periods	\$50.00
Fires left unattended	\$50.00
Ill-mannered or disrespectful behaviour	\$50.00
Late check out	\$50.00
Noise regulation infraction	\$50.00
Open alcohol in restricted areas	\$50.00
Persons 18 years or under not accompanied by an adult while off site after 11:00pm	\$50.00
Persons in excess of cabin occupancy	\$50.00
Pet off leash	\$50.00
Pet violation	\$50.00
Quiet time violations	\$50.00
RV or camperized van parked in restricted area	\$50.00
Speed exceeding posted speed limit	\$50.00
Tent on cabin grounds	\$50.00
Tree violation	\$50.00
Unauthorized vehicle	\$50.00



CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0550
SUBMITTED BY: Bonny Bryant
Chief Administrative Officer
SUBJECT: Community Wildfire Protection Plan

PURPOSE:

This purpose of the report is to provide an update to the Board as to what actions have been taken with regard to the Community Wildfire Protection Plan recommendations.

RECOMMENDATION:

***THAT** the Cultus Lake Park Board review the Community Wildfire Protection Plan Status Report for information; and*

***THAT** the Cultus Lake Park Board direct the Chief Administrative Officer to bring this report forward for discussion during the strategic planning session.*

DISCUSSION:

In October of 2011, Fireline Consulting was engaged to assist Cultus Lake Park in developing a Community Wildfire Protection Plan in consultation with Cultus Lake Park staff. The project was jointly funded by the Park and the Union of British Columbia Municipalities. The report is attached to this report as **Attachment #1**.

STRATEGIC PLAN:

This report does not impact the Cultus Lake Park Board's Strategic Plan Initiative.

Prepared by and approved for submission to the Board:

Bonny Bryant
Chief Administrative Officer

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
WILDFIRE PREVENTION		
5.1.1.1	CLP fire officials should seek to develop and distribute targeted Wildland Urban Interface (WUI) fire prevention materials at CLP recreational facilities (sites where human caused fire ignitions are likely to occur.) Water Park, recreational trail and golf course users are a prime audience for delivery of fire prevention messages	February 27, 2019 – Prevention materials are distributed at the onset of a fire ban such as signage at strategic locations in the Park (as per Policy 2005-01) Attachment #2 , press releases advising of fire ban and if necessary trail closures and the Park website and RSS updates. Further action could include partnering with commercial leaseholders such as Waterpark, Golf Course and others to post a link with the Fire Prevention message. Sunnyside Campground has in the past provided information to people coming to camp as well.
PUBLIC EDUCATION		
5.1.2.1	CLP planning and fire officials should commit to provision of regularly scheduled public education presentations augmented with additional presentation series following periods of heavy wildfire activity. One methodology would be to establish different target groups – schools, residents and business leaders – and ensure each group received a customized presentation on a multi-year rotation basis.	February 27, 2019 – Nothing has been done on this recommendation. Cultus Lake Park (Cultus Lake Park) has a challenge that many of the recommendations to FireSmart a property would not be realistic based on setbacks and the proximity of the forest to the community. The Fire Chief will contact the Fire Chiefs' Association of BC (FCABC) members to see if a community will share their resources.
5.1.2.2	CLP planning and fire officials should work to develop a CLP specific PowerPoint presentation product. Developed in consultation with interface fire protection specialists the presentation would address FireSmart structural fire protection issues - 'Understanding Structural Ignitions' - why structures ignite during wildland interface fire events with an overview coverage of the three part FireSmart mitigation strategy (vegetation management, structural options and infrastructural modifications) specific to the CLP area.	February 27, 2019 – Nothing has been done on this recommendation. The Fire Chief will contact the (FCABC) membership to see if any community will share their resources.

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
5.1.2.3	CLP planning and fire officials should work to develop a CLP wildland urban interface specific fire prevention messages for use with: CLP website, public education displays, fire danger signs and FireSmart demonstration properties in consultation with both interface fire protection, planning and media development specialists.	February 27, 2019 – Nothing has been done on this recommendation. The Fire Chief will contact the FCABC membership to see if any community will share their resources.
5.1.2.4 <i>(this was not part of word doc. saved in computer report page 36 but is on page 36 of the printed report)</i>	Cultus Lake Park should review all wildfire prevention and suppression policies to ensure that activities such as industrial closures, fire tool requirements and prevention activities are regulated by CLP bylaw as provincial authority under the provincial Wildfire Act and Regulation does not apply within municipalities.	February 27, 2019 – Currently there are no policies or bylaw in place. To create a bylaw addressing this concern could have financial implications to the Park
5.1.2.5 (aka 5.1.2.4 in Section 5)	CLP should develop an ancillary wildfire prevention program for use during periods of high fire danger (when provincial fire bans or fire advisories are in place for the CLP area). Such restrictions would be determined by an appointed staff representative via consultation with the BC Ministry of Forests and Range - Wildfire Management Branch website which features a 'Fire Prohibitions' link - http://bcwildfire.ca/hprScripts/WildfireNews/Bans.asp	February 27, 2019 – Cultus Lake Park uses the Burning Conditions, Restrictions and Fire Ban Bylaw No.1104, 2018 to address Fire Bans. (Attachment #3) There is no ancillary wildfire prevention program in place.
WILDFIRE PREPAREDNESS		
5.2.1.1	During periods of high wildfire activity in the CLP area - CLP should monitor (via appointed staff representative) the BC Ministry of Forests and Range - Wildfire Management Branch website which features a 'Current Wildfire Situation' link - http://bcwildfire.ca/Situation/ providing details on any active wildfires in the CLP area. The CLP staff representative should contact the Wildfire Management Branch - Coastal Fire Centre fire management staff for the latest information on any fires adjacent to or affecting CLP.	February 27, 2019 – During the period when the fire rating increases, Coastal Fire Centre distributes a newsletter which several staff members receive and closely monitor. It was also posted on the RSS feed last year.

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
5.2.1.2	In the event that significant wildfire activity is occurring in the CLP area, a 'Daily Wildfire Update' should be provided by an appointed CLP Media / Communications person. Wildfire updates should be accessible on the CLP website and available to assist all front line service staff in providing responses to resident and visitor inquiries regarding wildfire activity.	February 27, 2019 – If there was a wildfire occurring in or around our community, an Emergency Operations Centre would be established by the FVRD with staffing from the FVRD and Cultus Lake. Media releases would most likely come from the FVRD.
STRUCTURE PROTECTION		
5.2.2.1	ELECTRICAL INFRASTRUCTURE CLP fire officials should ensure FireSmart recommended guidelines for critical electrical infrastructure hazard reduction are followed to reduce vulnerability of electrical lines to wildfire. CLP fire officials should meet with BC Hydro officials to discuss powerline right-of-way vegetation clearing procedures and standards along the Columbia Valley Road / highway access route to CLP.	February 27, 2019 – BC Hydro conducts ongoing maintenance throughout the Park and along Columbia Valley Highway yearly as they see is required. Cultus Lake Park has installed emergency generators at Park Office and Fire Hall to ensure continuance of services. They are monitored to ensure vegetation does not impede their use and a weekly test is conducted.
5.2.2.2	WATER INFRASTRUCTURE CLP fire officials should ensure FireSmart recommended guidelines for vegetation management are applied to all CLP water supply structures.	February 27, 2019 – CLP staff works in conjunction with FVRD staff to maintain the recommended guidelines where necessary.
5.2.2.3	SEWAGE INFRASTRUCTURE CLP fire officials should ensure FireSmart recommended guidelines for vegetation management and structural modifications are applied to all CLP sewage structures.	February 27, 2019 – CLP staff works in conjunction with FVRD staff to maintain the recommended guidelines where necessary.
5.2.2.4	COMMUNICATION INFRASTRUCTURE CLP fire officials should ensure FireSmart recommended guidelines for vegetation management and structural modifications are applied to all CLP communications structures. CLP fire officials should meet with communications officials to discuss FireSmart guideline compliance at communication structures.	February 27, 2019 – Internal communications are handled using our UHF radios. There is no communication infrastructure that we are responsible for.

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
5.2.2.5	CLP fire officials should ensure FireSmart recommended guidelines for vegetation management, structural and infrastructural modifications are applied to all CLP structures and infrastructure.	February 27, 2019 – Currently applied where applicable.
WILDFIRE EVACUATION PLANNING		
5.2.3.1	<p>A written wildfire evacuation procedure should be included as part of the CLP Emergency Response Plan – a component of the CLP Emergency Program. CLP fire and emergency response officials should meet with BC Ministry of Forests and Range Wildfire Management Branch, BC Parks, Provincial Emergency Program (PEP) and Regional District emergency planning representatives to review and update the wildfire evacuation plan on a regular basis.</p> <p>The CLP wildfire evacuation procedure should:</p> <ul style="list-style-type: none"> -Identify primary or secondary evacuation routes for all areas of CLP; -Identify reception centre, marshalling points, safe zones; -Identify all resources required to implement the evacuation plan; -Develop a communications – public awareness strategy to inform the public. 	February 27, 2019 – The Emergency Preparedness Coordinator from the FVRD is working on an Evacuation Plan which encompasses all of Area H. The Plan has not been completed but a draft plan had been distributed for comments last summer.
POST WILDFIRE REHABILITATION PLANNING		
5.2.4.1	CLP planning officials should develop post wildfire rehabilitation plans that address the full range of rehabilitation activities that may be required on a large burn area (500 – 4,000 ha's). Initially, rehabilitation work will focus on stabilization of slopes and protection of infrastructure.	February 27, 2019 – No work has been done on this recommendation.
5.2.4.2	CLP planning officials should prepare a list of contractors that are qualified and capable of providing post-wildfire assessments and emergency stabilization/rehabilitation of damaged areas.	February 27, 2019 – No work has been done on this recommendation. In the event of an emergency, Staff would work with current contractors that are able to provide the service.

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
WILDFIRE RESPONSE		
5.3.1.1	CLP fire and emergency response officials should review wildfire reporting and initial response procedures with BC Ministry of Forests and Range - Wildfire Management Branch - Fraser Fire Zone representatives annually.	February 27, 2019 – Completed and information is sent out annually to the Fire Chief from the Ministry of Forests.
TRAINING		
5.3.2.1	All CLPVFD members should be provided with a basic wildland fire suppression training course on an annual basis. CLPVFD members should also be provided with interface fire operations and Incident Command System training with review/refresher training provided on an annual basis.	February 27, 2019 – All volunteer firefighters are required to take this course annually. It consists of three annual maintenance topics and is done internally.
WILDLAND EQUIPMENT		
5.3.3.1	Additional wildfire suppression equipment would improve CLPVFD wildfire suppression effectiveness. The following items should be purchased: -pressure pump (Wildfire Striker II Plus, Wildfire Ultra-Striker or Wildfire Mark 3) complete (suction hose, fuel can, tool kit with valves + nozzles etc.); -volume pump (Honda WH30X or equivalent) complete (suction hose, fuel can, tool kit with valves + nozzles etc.); -1,000' x 1 1/2" wildland lined fire hose lengths; -500' x 3/4" econoflow hose lengths; -sufficient quantity of wildland personal protective equipment to outfit 20 firefighters with Nomex coveralls, helmets, wildland boots, gloves, goggles, ear protection.	February 27, 2019 – The Wildfire Rescue truck has been ordered and is expected to be delivered in the early summer.
5.3.3.2	CLPVFD should purchase a basic structural sprinkler protection system. A basic sprinkler kit package would include sufficient equipment (sprinkler heads, hoses, valves and adapters, mounting poles and brackets) to provide rooftop sprinklers for 10 - 15 structures and Priority Zone 1 and 2 sprinkler coverage for 250 metres of sprinkler line. CLPVFD members should be trained and exercise in the rapid assembly and activation of the sprinkler system.	February 27, 2019 – CLPVFD has not purchased a structural sprinkler protection system. If necessary, it would be budgeted and purchased by the Park. Priority zones need to be established and the purchase the equipment based on the needs.

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
5.3.3.3	CLP fire and emergency response officials should conduct a needs analysis and assess options for acquiring a CLPVD fire/rescue boat. The boat if equipped with adequate pumping capability and other equipment would provide significant advantage to Fire Dept. response effectiveness during responses to structure or wildland fires adjacent to the lakeshore.	February 27, 2019 – No work has been done on this recommendation, but there would be a financial cost to purchase a fire/rescue boat.
WATER SUPPLY		
5.3.4.1	CLPVD fire officials should commence a formal tactical response planning process for all foreseeable wildfire tactical response situations. Tactical response access as well as resource and water requirements for both planned sprinkler systems and tactical engine needs should be included in the tactical response plan. This process should include an evaluation of requirements for dry hydrant, engine accessible reservoir or gravity standpipe installations for use during a wildland fire response.	February 27, 2019 – No work has been done on this recommendation. It is difficult to have training on response situations when you do not have the necessary equipment. Could need to complete recommendations 5.3.3.1 and 5.3.3.2 before addressing this resolution adequately.
5.3.4.2	CLPVD fire officials should work with City Works personnel to ensure adequate hydrant water supply in all foreseeable wildfire tactical response situations. Exercises to test the effectiveness of emergency firefighting water supplies during wildfire tactical response are recommended.	February 27, 2019 – FVRD has updated water main sizes to ensure fire flow, and they have completed the installation of fire hydrants in the campground. CLPVD has also increased the supply line sizing on their two engines.
LEGISLATION		
5.4.1.1	Cultus Lake Park planning and fire officials should ensure that guidelines for development permit issuance in any Development Permit Area – Wildfire Hazard Area require that all new development or addition/retrofitting to existing structures takes place in accordance with FireSmart recommended guidelines applying to vegetation management, structural design and construction and infrastructural design or modification.	February 27, 2019 – This resolution would be difficult to implement due to existing lot sizes and current bylaw setbacks.

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
5.4.2.1	Cultus Lake Park planning and fire officials should consider opportunities to ensure that any regulatory approach to wildfire risk mitigation be coordinated with neighbouring jurisdictions.	February 27, 2019 – CLP has a healthy relationship with neighbouring communities and have put Mutual Aid Agreements in place to assist each other.
5.4.3.1	Cultus Lake Park planning and fire officials should review and compare both existing CLP bylaws and examples of successful interface fire legislation in consultation with an interface fire protection specialist. Development of viable interface fire legislation may be most effectively facilitated by implementing an Official Community Plan or equivalent legislative vehicle with a Development Permit section that incorporates a schedule designated Development Permit Area – Wildfire Hazard Area.	February 27, 2019 – No work has been done on this recommendation and any work on this recommendation would be at the direction of the Board.
FUEL TREATMENT		
5.5.3	CLP should commence an area specific fuel treatment program (implemented over 5 years on a priority basis) that targets progressive fuel reduction in higher hazard fuel type areas identified by the CWPP planning process (section 5.5.6 – CLP Hazard Reduction Fuel Treatments). The goal of fuel treatment is to reduce both crown and surface fire potential in priority areas. Fuel treatment programs will require that fuel treatment plans and site specific prescriptions be developed in consultation with qualified interface fire protection professionals.	February 27, 2019 – In the past CLP staff have worked in conjunction with Coastal Fire Staff to complete this work on a yearly basis. Staff plan to continue working with Coastal Fire on this recommendation.
5.5.4.1:	CLP fire officials should meet with BC Ministry of Forests, Lands & Natural Resource Operations officials to request the opportunity to provide input on all harvesting plans proposed in the vicinity of CLP	February 27, 2019 – Staff are unsure how to address this recommendation. No work has been done on this recommendation
5.5.4.2	CLP should meet with BC Ministry of Transportation & Highway officials to discuss highway right-of-way vegetation clearing procedures and standards along those sections of highway adjacent CLP that could function as a strategic fuel break.	February 27, 2019 – No work has been done on this recommendation

Recommendations from the Cultus Lake Park – Community Wildfire Protection Plan

Rec #	Recommendation	Status
5.5.4.3	CLP should develop vegetation clearing procedures and standards for recreational trail maintenance in areas identified as strategic fuel breaks – thinning with understory fuels removed over a 5m area on each side of the trail is proposed. Use of trails to facilitate access by fire suppression crews should also be considered in the development of any trail maintenance standard.	February 27, 2019 – No work has been done on this recommendation. Due to the size of the forested area in our community the scope of this works seems to be unachievable.
5.5.4.4	CLP should meet with BC Hydro officials to discuss powerline right-of-way vegetation clearing procedures and standards along those sections of transmission or distribution line that could function as a fuel break. CLP should work with utility companies to establish critical electrical infrastructure hazard reduction guidelines and cooperative arrangements for maintenance of low wildfire hazard conditions on and adjacent transmission or distribution line right-of-ways. MAINTENANCE OF FUEL TREATED AREAS	February 27, 2019 – There are no power line right-of-ways that could act as a fuel break within the Park. Not applicable.
5.5.7.1 (aka 5.5.5.1 page 8)	CLP should commit to performing required maintenance on fuel treated areas within its jurisdiction. CLP should implement a program to encourage residents to maintain leasehold properties in compliance with FireSmart vegetation management guidelines. Implementation of an ancillary program to assist residents in disposing of vegetative yard debris safely is also recommended. Cooperative arrangements in support of required maintenance should also be considered for fuel treated areas outside CLP jurisdiction.	February 27, 2019 – CLP staff, when possible, do perform maintenance on fuel treated areas. A program would need to be developed to provide information to residents about FireSmart management guidelines. We are currently working with the FVRD and Coastal Fire and jurisdictions within Area H.

**CULTUS LAKE PARK
COMMUNITY WILDFIRE
PROTECTION PLAN**

Considerations for Wildland Urban Interface Management
in Cultus Lake Park, British Columbia

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Cultus Lake Park Community Wildfire Protection Plan

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Section 1.0: Executive Summary

1.1.1 Background

In October of 2011, Fireline Consulting was engaged to assist Cultus Lake Park (CLP) in developing a Community Wildfire Protection Plan (CWPP) in consultation with CLP staff. The CWPP project is jointly funded by CLP and the Union of B.C. Municipalities.

1.1.2 Project Scope: The purpose of this project is to:

- i) conduct a detailed assessment and mapping of the hazard, defining the risk from wildland urban interface (WUI) fire to Cultus Lake Park,
- ii) recommend mitigation activities necessary to improve community safety, and;
- iii) use the assessment data and recommended mitigations to develop a comprehensive 'Community Wildfire Protection Plan' for Cultus Lake Park.

1.1.3 CWPP Overview: The CWPP planning process reviews the following items:

Section 2: Community Profile – a general overview of the community, infrastructure and previous wildfire related projects.

Section 3: Wildland/Urban Interface Issues – FireSmart Solutions – Full background information on WUI issues, structural ignition factors, WUI fire suppression challenges, community impacts and responsibilities, FireSmart principles and guidelines with respect to structure protection and vegetation management.

Section 4: Fire Environment – a discussion of the 3 fire environment factors – weather, terrain and fuels. Weather analysis in terms of high fire danger class days, wind patterns, historic ignitions and terrain is provided. Forest fuels are reviewed with respect to standard fuel types, biogeoclimatic zones and natural disturbance units. A fuel management overview and strategy is provided in this section.

Section 5: Wildfire Risk Reduction Recommendations – a full range of wildfire prevention, preparedness and response, legislative and fuel treatment issues were investigated with a variety of initiatives proposed to mitigate potential wildfire impacts on CLP. Five key areas where changes can be made to address community wildfire risk are identified:

- 1) Wildfire Prevention
- 2) Wildfire Preparedness
- 3) Wildfire Response
- 4) Legislation
- 5) Fuel Treatment

Wildfires in the CLP area are infrequent (averaging 2/year since 1980) and small (<0.2 ha average size). However the community is subject to periods of hot dry weather (averaging 23 and up to 53 high fire dangers days per year) and ignition potential is increasing with settlement and recreational use trends. Reducing wildfire ignitions through the use of targeted WUI fire prevention materials and public education initiatives is an effective way of safeguarding the community.



Cultus Lake Park Community Wildfire Protection Plan

FireSmart fuel management guidelines recommend that fuel treatments be applied first to those fuels adjacent values at risk. Significant wildfire hazard mitigation can be realized by the application of site level fuel treatments adjacent specific structures or structure groups in the CLP study area. CLP's overarching fuel treatment program will need to merge any fuelbreak strategy with other strategic initiatives such as site level fuel treatments, FireSmart modifications to structures and implementation of wildfire prevention, preparedness and response recommendations.

It is recognized that CLP has limited resources to implement these recommendations. The recommendations are all significant and many can be implemented with little direct cost to CLP. Given the reality that not all recommendations will be acted on, CLP should review the recommendations and address the ones that are within their resources to act on. To address the remaining recommendations, CLP should put together a plan that identifies the resources required and develop an implementation timeline.

1.1.4 Recommendation Summaries

While there are no strategies providing fail safe wildfire protection to municipal areas located in forested areas - the FireSmart recommended guidelines are the current national standard and provide an established and reasonable benchmark based primarily on National Fire Protection Association standards that are published as a code: NFPA 1144 - Standard for Protection of Life and Property from Wildfire.

The FireSmart program manual 'FireSmart – Protecting Your Community from Wildfire' (Partners in Protection – July 2003) was referenced extensively in the development of the CLP CWPP.

Wildfire protection of interface values at risk located adjacent forested areas is attained through compliance with FireSmart recommended guidelines in the categories of vegetation (fuel) management, structural and infrastructural design, installation or modification. Effective wildfire protection also requires strong fire prevention, preparedness and response planning.

In total, 32 recommendations were developed for implementation by CLP.

Section 5.0: Wildfire Risk Reduction Recommendation Summary

1. Wildfire Prevention

Recommendation 5.1.1.1 CLP fire officials should seek to develop and distribute targeted WUI fire prevention materials at CLP recreational facilities (sites where human caused fire ignitions are likely to occur.) Water Park, recreational trail and golf course users are a prime audience for delivery of fire prevention messages.

Recommendation 5.1.2.1 CLP planning and fire officials should commit to provision of regularly scheduled public education presentations augmented with additional presentation series following periods of heavy wildfire activity. One methodology would be to establish different target groups – schools, residents and business leaders – and ensure each group received a customized presentation on a multi-year rotation basis.



Cultus Lake Park Community Wildfire Protection Plan

Recommendation 5.2.2.1 CLP fire officials should ensure FireSmart recommended guidelines for critical electrical infrastructure hazard reduction are followed to reduce vulnerability of electrical lines to wildfire. CLP fire officials should meet with BC Hydro officials to discuss powerline right of way vegetation clearing procedures and standards along the Columbia Valley Road / highway access route to CLP.

Recommendation 5.2.2.2 CLP fire officials should ensure FireSmart recommended guidelines for vegetation management are applied to all CLP water supply structures.

Recommendation 5.2.2.3 CLP fire officials should ensure FireSmart recommended guidelines for vegetation management and structural modifications are applied to all CLP sewage structures.

Recommendation 5.2.2.4 CLP fire officials should ensure FireSmart recommended guidelines for vegetation management and structural modifications are applied to all CLP communications structures. CLP fire officials should meet with communications officials to discuss FireSmart guideline compliance at communication structures.

Recommendation 5.2.2.5 CLP fire officials should ensure FireSmart recommended guidelines for vegetation management, structural and infrastructural modifications are applied to all CLP structures and infrastructure.

Recommendation 5.2.3.1 A written wildfire evacuation procedure should be included as part of the CLP Emergency Response Plan – a component of the CLP Emergency Program. CLP fire and emergency response officials should meet with BC Ministry of Forests and Range Wildfire Management Branch, BC Parks, Provincial Emergency Program (PEP) and Regional District emergency planning representatives to review and update the wildfire evacuation plan on a regular basis.

The CLP wildfire evacuation procedure should:

- Identify primary or secondary evacuation routes for all areas of CLP;
- Identify reception centre, marshalling points, safe zones;
- Identify all resources required to implement the evacuation plan;
- Develop a communications – public awareness strategy to inform the public.

Recommendation 5.2.4.1 CLP planning officials should develop post-wildfire rehabilitation plans that address the full range of rehabilitation activities that may be required on a large burn area (500 – 4,000 ha's). Initially, rehabilitation work will focus on stabilization of slopes and protection of infrastructure.

Recommendation 5.2.4.2 CLP planning officials should prepare a list of contractors that are qualified and capable of providing post-wildfire assessments and emergency stabilization/rehabilitation of damaged areas.



Cultus Lake Park Community Wildfire Protection Plan

Recommendation 5.3.4.2 CLPVFD fire officials should work with CLP Works personnel to ensure adequate hydrant water supply in all foreseeable wildfire tactical response situations. Exercises to test the effectiveness of emergency firefighting water supplies during wildfire tactical response are recommended.

4. Legislation

Recommendation 5.4.1.1 Cultus Lake Park planning and fire officials should ensure that guidelines for development permit issuance in any Development Permit Area – Wildfire Hazard Area require that all new development or addition/retrofitting to existing structures takes place in accordance with FireSmart recommended guidelines applying to vegetation management, structural design and construction and infrastructural design or modification.

Recommendation 5.4.2.1 Cultus Lake Park planning and fire officials should consider opportunities to ensure that any regulatory approach to wildfire risk mitigation be coordinated with neighbouring jurisdictions.

Recommendation 5.4.3.1 Cultus Lake Park planning and fire officials should review and compare both existing CLP bylaws and examples of successful interface fire legislation in consultation with an interface fire protection specialist. Development of viable interface fire legislation may be most effectively facilitated by implementing an Official Community Plan or equivalent legislative vehicle with a Development Permit section that incorporates a schedule designated Development Permit Area – Wildfire Hazard Area.

5. Fuel Treatment

Recommendation 5.5.3 CLP should commence an area specific fuel treatment program (implemented over 5 years on a priority basis) that targets progressive fuel reduction in higher hazard fuel type areas identified by the CWPP planning process (section 5.5.4 – Existing and Proposed Landscape Fuelbreak Units and section 5.5.6 – CLP Hazard Reduction Fuel Treatments). The goal of fuel treatment is to reduce both crown and surface fire potential in priority areas. Fuel treatment programs will require that fuel treatment plans and site specific prescriptions be developed in consultation with qualified interface fire protection professionals.

Recommendation 5.5.4.1: CLP fire officials should meet with BC Ministry of Forests, Lands & Natural Resource Operations officials to request the opportunity to provide input on all harvesting plans proposed in the vicinity of CLP.



Cultus Lake Park Community Wildfire Protection Plan

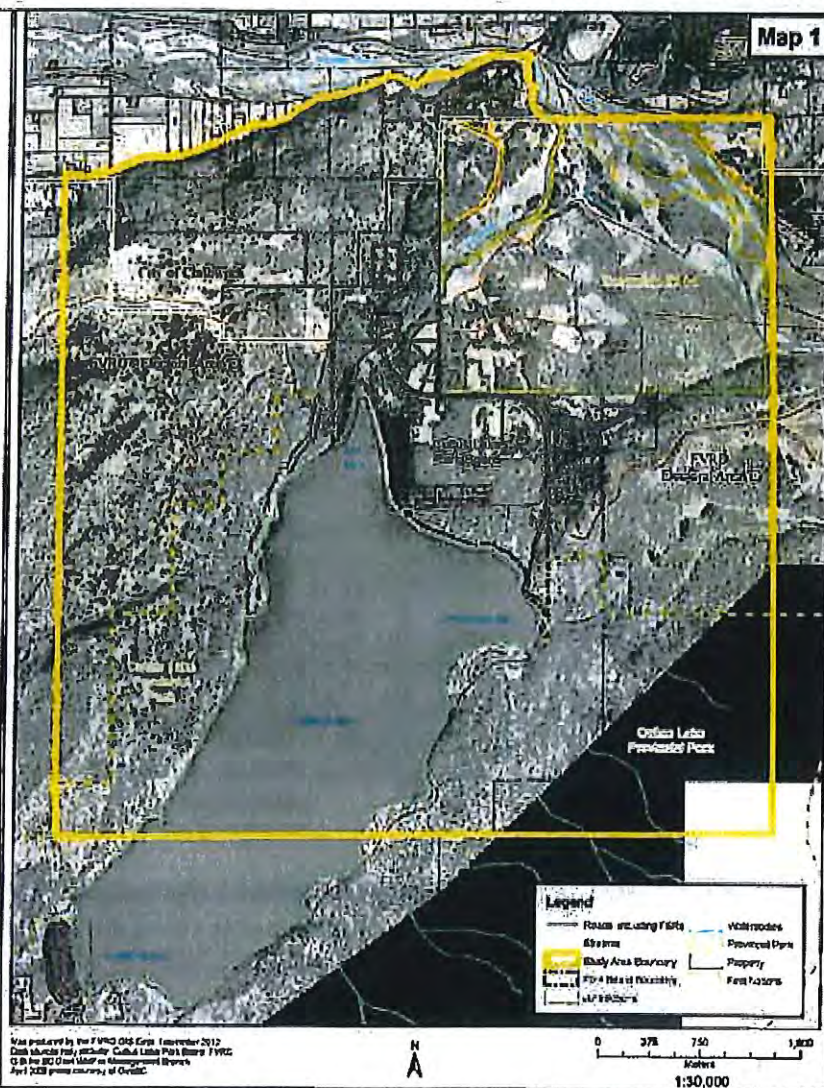
Section 2.0 Community Profile

2.1 The Community

Cultus Lake Park (CLP) is located in the Fraser Valley on the Columbia Valley Road at the north end of Cultus Lake approx. 3.5 km's south of the Vedder River. CLP is located approximately 10 km's south of the City of Chilliwack and 23 km's east of the City of Abbotsford. The study area for the CLP CWPP includes a 2 kilometre buffer around the community.

Cultus Lake is the source of the Sweltzer River. Cultus Lake itself is warm, and the area has become a popular tourist recreation destination with ample opportunities for fishing, water skiing, wind surfing, and hiking. In 1950, Cultus Lake became a BC Provincial Park. Cultus Lake Park covers an area of 656 hectares, evenly on either side of the lake with over 465 full time residences, 21 commercial businesses, and Sunnyside campground with 586 camp sites.

Map 1: Study area for the Cultus Lake Park Community Wildfire Protection Plan



2.1.2 Population & Settlement

Cultus Lake Park has a summer population of approx. 2,500 persons – winter 1,000 persons. Situated near Cultus Lake Provincial Park - tourism has been an important economic driver for the community.

Many of the jobs in the community are in the industries of accommodation and food services or retail trade.



Cultus Lake Park Community Wildfire Protection Plan

2.1.5 Water Infrastructure

A piped aquifer is the sole source of water for CLP. A 100,000 IG (Imperial gallon) reservoir is located between the south end of Monroe Ave and Parmenter Road. The reservoir is supplied by an intake pumping station located at the CLP water supply well house (located at Sunnyside Ave. and Cedar Ave.) with two independent well heads located on Sunnyside Ave in concrete pumphouses with backup diesel generator power supply. One well head is located behind the water supply well house and the other is located at Sunnyside Ave. and Alder St.

The CLP water supply well house is a critical infrastructure facility where CLP has installed a backup generator. The generator is vulnerable to wildfire due to proximity to forest vegetation.

Figure 2-2b – CLP Well house



Figure 2-2a – CLP Reservoir



2.1.6 Sewage Infrastructure

There are 4 pumping stations or sewer lifts that pump sewage to effluent fields located north of the Water Park or behind the CLP school. There are no backup diesel generators for power to the sewer lifts in the event of power outage.

Fig 2-3: CLP Sewer Lift 3



2.1.7 Communications Infrastructure

There is a telecommunications tower in the overflow parking / compostables landfill area adjacent the Cultus Lake Water Park. A Telus telecommunication sub-station is located on the east side of the Water Park adjacent Soowahlie Indian Reserve 14.

Figure 2-4 – Comm. Tower



2.1.8 Previous Wildfire Related Projects

With the exception of a minor MFNLRO Wildfire Management Branch project conducted on public lands in CLP - there have been no previous wildfire related projects in the CLP jurisdiction.

There is no community forest in the CLP jurisdiction.

CLP works crew responds to resident requests or reports and typically dedicates approximately 30 person days per year to rudimentary fuel reduction work (felling, bucking and chipping – landfilling) dead and diseased or wind felled tree stems and branches as required around CLP. Rim Tree Services is occasionally engaged and has additional capacity with a 55 foot bucket truck.



Cultus Lake Park Community Wildfire Protection Plan

3.1.2 How are Buildings Ignited by Wildfire?

Fires spreading into the wildland/urban interface from the forest can impact community structures in two distinct ways:

First, wildland fires produce firebrands that are lofted into the air and travel great distances, often igniting spot fires ahead of the main fire. Firebrands that land on a combustible roof will usually start a fire that will consume the building if the fire is not suppressed. The reality of firebrand-caused ignitions is that buildings located in relatively urban settings, some distance inside the community interface boundary, are still vulnerable to wildland fire.

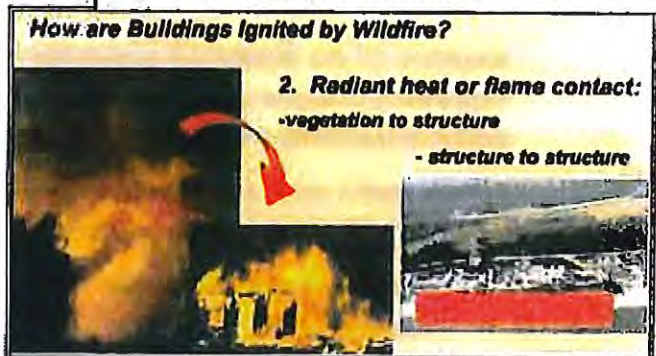
Second, direct flame contact or radiant heat can ignite vulnerable buildings. Ignitions can result from both vegetation-to-structure spread and structure-to-structure spread. Fire can ignite a vulnerable structure when the structure is in close proximity (within 10 meters of the flame) of either the flaming forest edge or a burning house.

Structural fires also have the potential to move from a house into the adjacent forest. FireSmart principles not only address fire coming from the WUI to a structure but they also reduce the probability of a structural fire igniting the forest interface.

Figure 3-2 – Firebrand Caused Ignitions



Figure 3-3 – Radiant Heat / Flame Caused Ignitions



3.1.3 Interface Fire Suppression Challenges

Another reason buildings are so rapidly ignited during interface fires is that all available firefighting resources are often rapidly overwhelmed. Wildland/urban interface fires are complex incidents that typically involve both wildland and structural fires. They often demand a joint response by wildland and structural firefighting agencies with specialized operating procedures and tactics. Even so, unless interface stakeholders have applied FireSmart principles and standards, these fires frequently overwhelm all available firefighting resources. There are not enough engines, equipment, or firefighters to protect a large number of threatened homes at the same time.



3.2 FireSmart

FireSmart: Protecting Your Community from Wildfire¹ is a comprehensive interface fire protection manual developed by Partners in Protection. The FireSmart program has been adopted by a variety of government agencies charged with interface fire protection responsibilities.

FireSmart provides individuals and agency personnel with a structured and practical approach for assessing wildfire site and structure hazard, selecting viable solutions or mitigative approaches to reduce the hazard posed by interface fire to communities or homes.

The principal aspects and recommended guidelines for interface fire hazard mitigation are discussed in three sections - vegetation management, structural modification and infrastructural modification. A FireSmart structure or community meets or exceeds these guidelines.

3.2.1 FireSmart Structure Protection

In the interface, FireSmart buildings are the result of owners' efforts. FireSmart structure protection focuses on structural modification and vegetation management – the application of mitigative actions on the structure or on vegetation close to the structure.

Structures located in interface zones are frequently inadequate with respect to their ability to withstand an interface fire event. Structures need to be able to withstand the radiant and convective heat generated by adjacent forests during wildfires and also must be constructed to minimize the chance of ember ignitions on the structure as spot fires carried surprisingly long distances from nearby wildfires ignite structures.

Roofing

Roofs that catch fire are the main cause of building losses in the interface. The roof is the most vulnerable component of the building. It is a more-or-less horizontal surface that catches and holds much of what falls on it. Firebrands and flaming debris generated by large fires can travel great distances. Once airborne, these brands are pushed by prevailing winds or driven aloft great distances by the fire's convection column. The firebrands respect no boundaries and jump over built and natural fuel breaks to ignite spot fires.

Firebrands landing on a combustible roof surface will often start a new fire. This new fire, in turn, may produce more airborne firebrands (particularly if the roof is built of untreated wooden shakes).

Many jurisdictions have no legislation requiring the use of fire rated roofing in interface areas. Legislation fails to deal with existing combustible roofs.

¹ For further information on the FireSmart Canada see: <https://www.firesmartcanada.ca/>



Building Exterior – Adjacent Combustibles

Firewood, building material (and other combustible debris piles), neighbouring buildings and wooden storage sheds are all serious fire dangers. These items will ignite and burn intensely. Homeowners often do not consider the potential fire danger of these items and must be encouraged to clean up or relocate such accumulations of fuel farther from the building. Locate firewood, building material (and other combustible debris piles), neighbouring buildings and wooden storage sheds >10 m from structure. Where combustibles are located downslope from structure, the hazard to buildings is increased.

3.2.2 FireSmart Vegetation Management

Reduction of fire danger in fuels capable of supporting fast-spreading, high-intensity fires often requires significant intervention – removal, reduction or conversion of on-site fuels. Vegetation management results in the creation of fuel modified areas between a building and a potential wildland fire.

Fuel modified areas have combustible materials and vegetation removed, reduced or converted to reduce fire spread potential and prevent wildland fires from spreading to buildings (or structural fires spreading to wildland fuels). Without fuel modified areas, fire intensity and rate of spread can make firefighting difficult or impossible.

Establishing Priority Zones

Vegetation management is typically conducted within three priority zones established around each building. There are unique vegetation management activities recommended for each priority zone. The general strategy involves starting vegetation management in Priority Zone 1 and as effective hazard mitigation is accomplished there, moving out to perform similar activities in Priority Zone 2 and 3.



Section 4: Fire Environment

Wildfires respond to three distinct fire environment factors – weather, terrain and fuels.

4.1 Weather

Analysis of weather is important in determining fire danger and potential for high intensity fire behaviour. The BC Forest Service Wildfire Management Branch fire weather stations provide data that can be interpreted to determine fire danger in the forested areas surrounding CLP. The Canadian Forest Fire Danger Rating System (CFFDRS) uses the terms - Danger Class 4 (high) and - Danger Class 5 (extreme) to describe periods of critically high fire danger. Fire danger class conditions are used to impose fire prevention restrictions on industrial and recreational forest users and also assist fire management agencies in complying with fire preparedness and response standards.

While fire danger affecting Cultus Lake Park (CLP) varies from year to year, analysis of historical weather station data can provide information on the number and distribution of days that CLP is typically subject to high fire danger conditions – useful information in assessing fire risk to CLP.

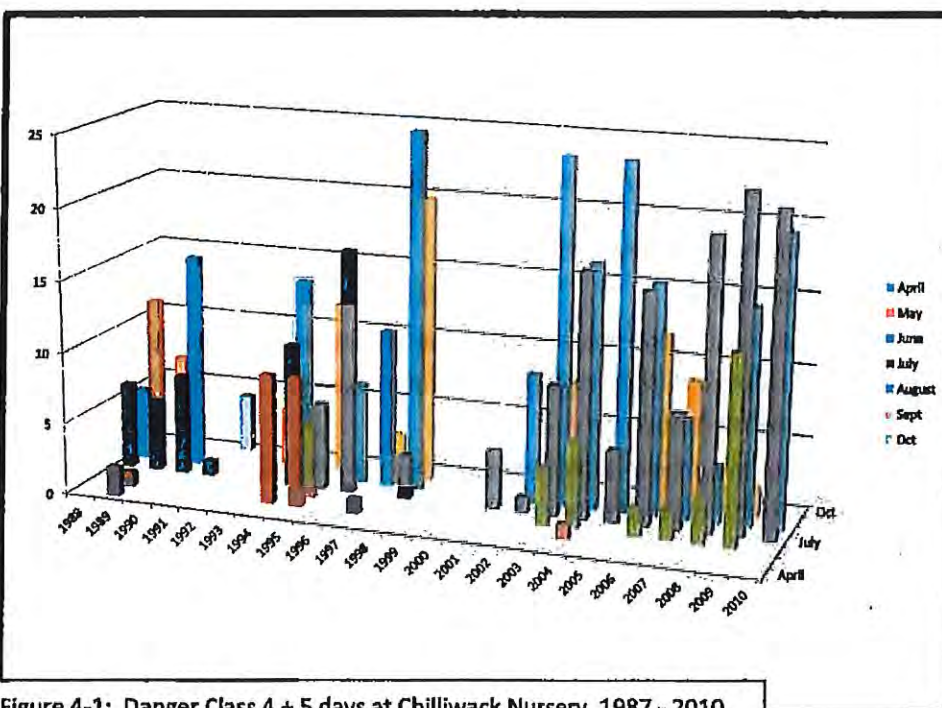


Figure 4-1: Danger Class 4 + 5 days at Chilliwack Nursery 1987 - 2010

Figure 4-1 provides a summary of BC Forest Service Wildfire Management Branch Chilliwack Nursery weather station data dating back to 1987. The graph provides a summary of Danger Class 4 + 5 days occurring between April and October for each year 1987 to 2010.

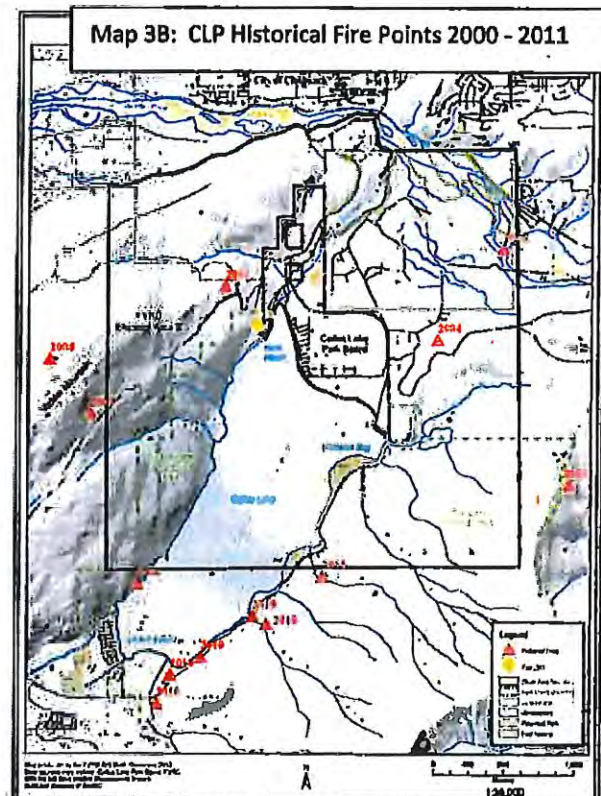


Cultus Lake Park Community Wildfire Protection Plan

Table 4-1: Fire history summary within and adjacent (10 km's) the CLP study area from 1970 – 2012

1970 – 2012	Lightning	% of Total	Human	% of Total	Industrial	% of Total	TOTAL 46 fires
< 4.0 ha's	24	52%	20	43%	1	2.5%	45
4.0 – 10.0 ha's	1	2.5%					1
> 10.0 ha's							
1980 – 1989	Lightning	% of Total	Human	% of Total	Industrial	% of Total	TOTAL 30 fires
< 4.0 ha's	3	10%	16	53%	8	27%	27
4.0 – 10.0 ha's			1	4%			1
> 10.0 ha's					2	6%	2
1990 – 1999	Lightning	% of Total	Human	% of Total	Industrial	% of Total	TOTAL 14 fires
< 4.0 ha's	6	43%	6	43%	1	7%	13
4.0 – 10.0 ha's	1	7%					1
> 10.0 ha's							
2000 – 2012	Lightning	% of Total	Human	% of Total	Industrial	% of Total	TOTAL 24 fires
< 4.0 ha's	3	12%	19	80%	2	8%	24
4.0 – 10.0 ha's							
> 10.0 ha's							

Map 3B shows CLP Historical Fire Points from 2000 - 2011.





4.2 Terrain

The CLP community is located at the end of a lake in a wide valley bottom. Topographic influences on fire behaviour are somewhat complex although the community and lake are located between Vedder Mountain to the west and Mt Amadus to the east - features which can be expected to channel winds and affect upslope and downslope fire behavior. In general, forested terrain rises away from the majority of the CLP interface perimeter and there are few CLP values that are located in intermix situations with forest fuels on a slope below the value.

4.3 Fuels

Fuel type classification in the CLP area uses the CFFDRS (Canadian Forest Fire Danger Rating System). Provincial Strategic Threat Assessment data for the CLP study area was provided to CLP by MFR and fuel typing data was confirmed and updated during fieldwork. A total of 45 field checks were made in the CLP Study Area to perform Wildfire Threat Assessments and complete Wildfire Threat Worksheets on representative plots. Fuel types were assigned to each plot and the MFR fuel typing provided was updated and refined to reflect local variations.

4.3.1 CLP Fuel Type Summary

Generally speaking, the CFFDRS fuel types considered most dangerous with respect to supporting dangerous fire behavior and spotting (transport of fire embers on wind or fire convection) are C4 and C3. Fuel type M2 although a mix of deciduous and coniferous fuels, becomes more hazardous as the ratio of coniferous trees to deciduous trees increases within the stand. Examples of the predominant CLP CFFDRS fuel types are provided below:

C3 fuel type

There is a moderate amount of C3 fuel type in the study area (24% of total area). This fuel type is comprised of young to mature forests with few ladder fuels but generally good crown connectivity. The C3 forests in the study area are often dominated by second growth cedar and Douglas fir with reduced separation of surface fuels and live crown. Suppression difficulty is moderate and increases with downed and dead surface fuel loading and ladder fuels on younger regen specimens.

C4 fuel type

There is only a small portion of C4 fuel type located in the study area (0.5%). The C4 fuel types are comprised of denser stands of second growth cedar and Douglas fir with ladder fuels closer to surface. This fuel type was located in Cultus Lake Provincial Park further from the CLP interface. Suppression in this fuel type is more difficult due to the tendency for crown fire behavior in the fuel type.

Figure 4-2: C3 Fuel Type



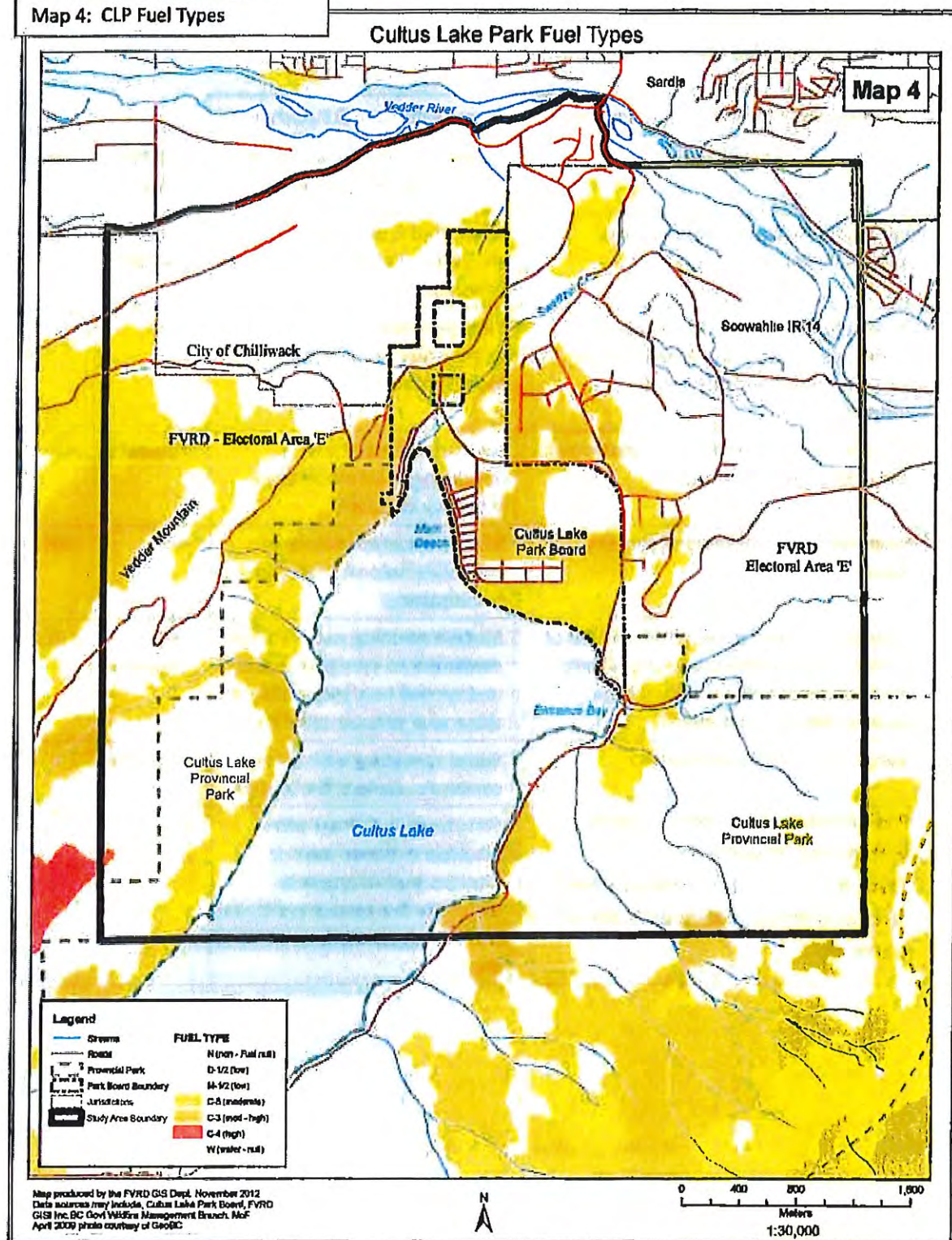
Figure 4-3: C4 Fuel Type





Cultus Lake Park Community Wildfire Protection Plan

Map 4: CLP Fuel Types





4.3.2 Biogeoclimatic Units

In British Columbia, the Biogeoclimatic Ecosystem Classification (BEC) system describes different zones by vegetation, soils, and climate. Variant zones within the principal BEC classification are established from rainfall and temperature. The principal ecosystem in the Cultus Lake area is the Coastal Western Hemlock Dry Maritime subzone (CWHdm³). Two other variant zone ecosystems are found in the Cultus Lake area - Coastal Western Hemlock Very Dry Maritime subzone (CWHxm1) and Coastal Western Hemlock Very Wet Maritime subzone (CWHvm2). A brief description of all the ecosystems in the study area is provided below.

In addition, a summary is provided of the Natural Disturbance Units (NDU⁴) associated with this area.

Coastal Western Hemlock Dry Maritime Subzone (CWHdm)

CWHdm occurs at low elevations on the mainland and immediately adjacent islands. It extends from Hardwicke Island in the north to the Chilliwack River in the southeast. Along the Sunshine Coast and lower Fraser Valley it occurs above and adjacent to the CWHxm, respectively. Elevational limits range from sea level (or above CWHxm if present) to approximately 650 m (lower in wetter valleys).

The CWHdm has warm, relatively dry summers and moist, mild winters with little snowfall. Growing seasons are long, and feature only minor water deficits on zonal sites.

Coastal Western Hemlock Very Dry Maritime Subzone (CWHxm1)

The CWHxm extends up the south side of the Fraser River as far as Chilliwack. Elevational limits range from sea level (or above the CDFmm where present) to approximately 700 m. Near the wetter parts of its distribution, the upper limit is lower (e.g., 150 m in the Fraser Valley).

The CWHxm has warm, dry summers and moist, mild winters with relatively little snowfall. Growing seasons are long, and feature water deficits on zonal sites.

Coastal Western Hemlock Very Wet Maritime Subzone (CWHvm2)

The CWHvm2 occurs at higher elevations, above the CWHvm1. Elevational limits range from approximately 650-1000 m in the south to 450-800 m in the north. It grades into the MH zone above.

The CWHvm2 has a wet, humid climate with cool, short summers and cool winters featuring substantial snowfall. Compared with the submontane variant, the CWHvm2 has cooler temperatures, shorter growing seasons, and heavier snowfall, with snowpacks persisting throughout the winter.

³ Subzone descriptions come from the Biogeoclimatic Ecosystem Classification Program:
<http://www.for.gov.bc.ca/hre/becweb/resources/classificationreports/subzones/index.html>

⁴ B. Dorner and C. Wong, Natural Disturbance Dynamics In Coastal BC May 15, 2003



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Essentially, the research noted in Appendix 2 indicates that the flammability ratings of the wet coastal temperate rain forest are low with moisture content of fuels retarding ignition and spread of fire even during years of extreme drought. Stand-Initiating fires have burned coastal forests in the past century, but under unusual circumstances. The spread of fire is influenced by the flammability of fuels, which in turn varies with topography and climate:

Topography: Fuels on steep, southwest-facing slopes will be more flammable than forests on steep, northwest-facing slopes or flat ground in the bottom of valleys. This CWPP proposes hazard reduction fuel treatments for two east / south-east facing slope areas on the west side of Cultus Lake - Unit 2 Lakeshore Munroe West – South and Unit 3 Unit 2 Lakeshore Munroe West – North.

Climate: Historically, years of high fire activity were most likely to occur when persistent high pressure ridges formed along the west coast, blocking westerly winds, reducing precipitation, and allowing fuels to dry for extended periods. Even during extended droughts – factors such as lightning ignitions and the availability of sufficiently flammable fuels were sufficiently rare that stand-initiating fire occurrence remained a 'very rare' event in wet coastal temperate rain forests.

Notwithstanding this historical condition, current ignition factors include:

- i) An increased risk of human ignition (CLP is densely populated and sees high levels of recreational use during periods of high fire danger weather). Most of the recent, large-scale fires in coastal forests were ignited by humans. This CWPP notes a number of fire prevention recommendations that proactively reduce ignition potential.
- ii) An increased possibility of fuel flammability if pure coniferous stands are opened up by a rogue wind event, clear cut harvest or development clearing. The resulting slash accumulations and sun-exposed surface fuels on the forest floor will present a significant fire hazard that can remain for a number of years. Timber harvest was a precursor to the Chilliwack Valley fires in the early 1900s. Logging created large fuel loads and microclimatic conditions that allowed the fuels to dry, making these sites conducive to burning. This CWPP notes that a re-evaluation of crown fire potential should be conducted in the event that fuel structures change.
- iii) Forecast climate change trends may increase the threat of crown fire. This CWPP notes that CLP recorded its longest drought since 1998 in August of 2012 – 28 days with no rain. Temperature records were similarly broken during this period. This CWPP notes that should extended periods of drought become more common in the future, the CLP community may wish to re-evaluate its level of fire preparedness and establish fire prevention or hazard mitigation interventions appropriate to the existing situation.



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Surface fuels - include all of the forest floor combustibles. Understory vegetation such as grass, shrubs, and small trees and coarse woody debris in contact with the forest floor. Forest fuel loading describes the relative mass of fuels in an area of forest floor and will vary with many factors.

Fine fuels (<12 cm diameter) dry quickly and ignite easily – fuel treatments will typically prioritize removal and reduction of these fuels.

Larger fuels (>12 cm diameter) dry more slowly and are less flammable however their role in sustaining higher duration fires is problematic - fuel treatments will also target reduction of high surface fuel loadings in this size category.



Figure 4-11: Surface fuel before fuel treatment

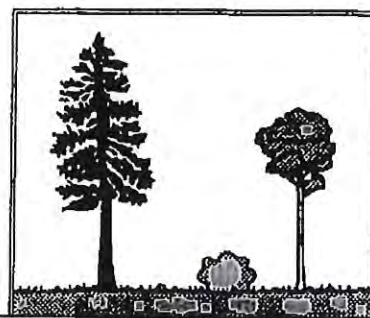


Figure 4-12: Surface fuel after fuel treatment

Aerial fuels - include all forest combustibles not in contact with the forest floor. Fire intensity in these fuels varies with many factors including type (deciduous – which will not usually support crown fire spread vs coniferous), size and arrangement. Aerial fuels that permit fire to move from tree to tree – dense, heavily branched or laddered forests (especially in dead or diseased condition) are the most problematic and are described as having high crown fire potential.

Crown fire potential is reduced by increasing the height to live crown (the proximity of surface fuels to lower canopy branches) and decreasing the crown closure (the proximity of individual tree crowns that determines the ease with which fire spreads in the forest canopy). Dense forest canopies will spread a crown fire once it develops however the dense canopy can also contribute to a substantial reduction of surface fuels and lower branches – a condition that reduces the likelihood of crown fire development.

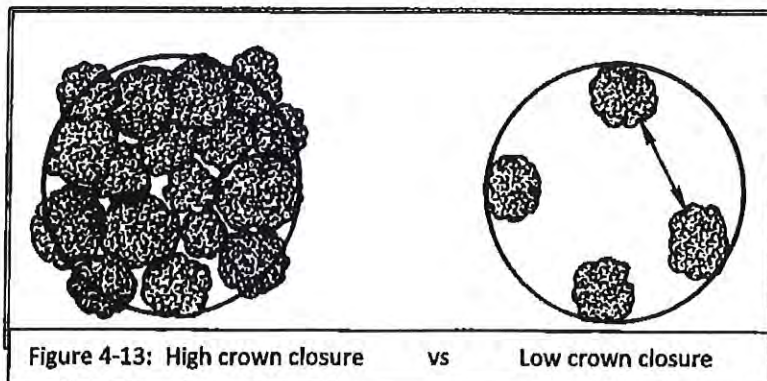


Figure 4-13: High crown closure

vs

Low crown closure

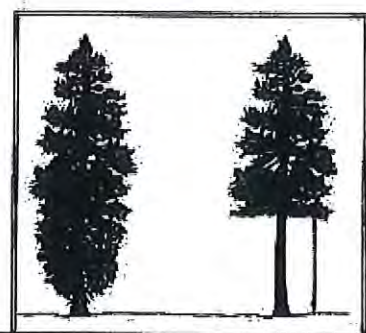


Figure 4-14: Height to live crown reduction



Section 5: Wildfire Risk Reduction Recommendations

Preventing, preparing for and responding to wildfire emergencies are important priorities for Cultus Lake Park (CLP). CLP is located in an area subject to wildfire ignition and - under high fire danger conditions - wildfire impingements on several areas within or adjacent to CLP. Local fire and forestry officials are attempting to mitigate the potential impacts of wildfire on interface communities with a variety of wildfire prevention, preparedness and response initiatives.

5.1 Wildfire Prevention

Programs and initiatives that encourage residents in areas vulnerable to wildfire to implement FireSmart recommended guidelines and increase wildfire preparedness are important in preventing or minimizing interface fire risk. Even highly effective wildfire prevention programs cannot prevent all wildfires and interface wildfire prevention initiatives that focus on prevention of interface fire disasters in addition to conventional fire prevention messages can be highly effective.

Local government can reduce the potential for interface fire disasters and wildfire damage through both public education and the use of legislative tools. Community leaders must continue to support 'FireSmart community' public education initiatives as well as seeking opportunities to mitigate interface fire hazard through the use of FireSmart planning guidelines backed with legislative authority.

5.1.1: Interface Fire Ignitions Human caused fire ignitions are one of the most preventable fire ignition causes. Wildland fire response agencies have always sought to change behaviours that lead to wildland fire ignitions. Wildfire cause statistics in the CLP study area show that over the ten years (2002 – 2012) 22 wildfire starts were recorded with a variety of cause assignments. With the exception of lightning all fire causes detailed on the list are preventable. This knowledge can assist fire officials in targeting wildland urban interface fire prevention messages.

The CLP community features a number of heavily used trails and a golf course with forested perimeter. The CLP Water Park attracts numerous visitors and is located adjacent forested areas. While these frequently used areas present fire prevention challenges they also offer opportunities to develop and distribute targeted WUI fire prevention materials.

Table 5-1: CLP Wildfire Cause Statistics

Wildfire Cause Statistics (2002 – 2012)	
Cause	# of Fires
Incendiary	8
Campers	3
Juvenile fire setter	3
Lightning	3
Smoker	2
Equipment	1
Fire Use	1
Miscellaneous	1
TOTAL	22

Recommendation 5.1.1.1 CLP fire officials should seek to develop and distribute targeted WUI fire prevention materials at CLP recreational facilities (sites where human caused fire ignitions are likely to occur.) Water Park, recreational trail and golf course users are a prime audience for delivery of fire prevention messages.



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FireSmart Powerpoint Presentation: This presentation binder / CD package was developed by the Kootenay Interface Steering Team and was distributed by the BC Office of the Fire Commissioner in 2004. The FireSmart Powerpoint Presentation is very flexible and is designed to assist local planning or fire officials that may be requested to deliver a presentation on standard FireSmart manual content to various audiences.

The package consists of a series of slides and speakers notes prepared for each of the principal FireSmart manual chapters. The slides can be customized to allow presenters to address a wide variety of audiences, each with its own issues and information requirements. Full details on presentation structure and delivery are contained in the presentation package.

Public Education Display: Use of a three-panel display by planning and fire officials at scheduled events is a highly effective public education methodology. Orthophoto maps and sign panels are used to graphically convey information specific to the CLP CWPP and generic FireSmart hazard mitigation information. While highly useful for public education displays the three panel display will also be referenced by CLP fire officials during CWPP orientations provided to Board members and other officials.

Fire Danger Signs - The use of a large, roadside wildfire danger sign is an another highly effective public education tool. A Fire danger sign has been positioned in a prominent location (entry to CLP on Columbia Valley Rd.) that assures residents and visitors alike will view the sign information. The sign is changed with increases or reduction to fire danger by a BC Ministry of Forests and Range – Wildfire Management Branch – Fraser Fire Zone – Cultus Lake Base staff member.

FireSmart Demonstration Properties - CLP should work to establish FireSmart demonstration properties in selected high hazard level areas. FireSmart demonstration properties will feature both FireSmart building materials and construction techniques as well as FireSmart vegetation management techniques. Demonstration properties are especially viable in high visibility locations in areas where CLP fire officials especially wish to encourage compliance with FireSmart recommended guidelines. Signs can be prepared and positioned to show before and after views, explain general FireSmart hazard mitigation strategies and assist in conveying fire prevention messages to the interface public.

Website – Wildfire prevention / interface fire hazard mitigation information can be easily included on the CLP website. Wildfire related information such as fire danger, fire restrictions, and interface fire hazard assessment / mitigation recommendations should be included on the website. Generic FireSmart hazard mitigation information can be posted to the website with specific pictures and maps used to customize the information for the CLP audience.

Recommendation 5.1.2.1 CLP planning and fire officials should commit to provision of regularly scheduled public education presentations augmented with additional presentation series following periods of heavy wildfire activity. One methodology would be to establish different target groups – schools, residents and business leaders – and ensure each group received a customized presentation on a multi-year rotation basis.



5.2 Wildfire Preparedness

Cultus Lake Park (CLP) fire and emergency response officials must be prepared for both the possibility and the effects of periods of high wildfire activity in the vicinity of CLP.

- Large wildfires burning anywhere in the Fraser Valley region can affect CLP businesses, particularly if tourists and the travelling public alter travel plans.
- Protection of values including critical infrastructure, residences, commercial and non-critical infrastructural values requires that FireSmart recommended guidelines for hazard mitigation be implemented as required for optimum value protection.
- Wildfire Ignitions or spread into forests adjacent CLP may require evacuation of residents and visitors to safe areas.
- Post wildfire rehabilitation planning to minimize long term impacts due to wildfire adjacent the CLP community is another responsibility that fire and emergency response officials must plan for.

5.2.1 Fire Danger Monitoring and Communications: CLP can be affected by wildfire danger and wildfire activity however the traveling public or tourist perception of wildfire conditions in the CLP area can also have a significant effect on CLP and CLP businesses. Media reportage of fire incidents is often brief, sometimes inaccurate, and can influence the vacation plans of the traveling public and tourists with scheduled reservations – it is important that accurate and up to date information on wildfire status be conveyed to these groups.

Recommendation 5.2.1.1 During periods of high wildfire activity in the CLP area - CLP should monitor (via appointed staff representative) the BC Ministry of Forests and Range - Wildfire Management Branch website which features a 'Current Wildfire Situation' link -- <http://bcwildfire.ca/Situation/> providing details on any active wildfires in the CLP area. The CLP staff representative should contact the Wildfire Management Branch - Coastal Fire Centre fire management staff for the latest information on any fires adjacent to or affecting CLP.

Recommendation 5.2.1.2 In the event that significant wildfire activity is occurring in the CLP area, a 'Daily Wildfire Update' should be provided by an appointed CLP Media / Communications person. Wildfire updates should be accessible on the CLP website and available to assist all front line service staff in providing responses to resident and visitor inquiries regarding wildfire activity.



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Fig 5-1: Roadside electrical infrastructure

Electrical Infrastructure

BC Hydro transmission and distribution lines are located on the Columbia Valley Road / highway access route to CLP and supply CLP with electrical power. Transformers and telecommunications lines are also located on the pole infrastructure. The pole infrastructure is predominantly wooden poles – the location of the lines – often adjacent forests vulnerable to wildfire and tree strikes on the conductors – is problematic.



There are no backup diesel generators for power in the event of power outage. Power loss to the community occurs two or three times in ten years – this is due to tree strikes on conductors.

Recommendation 5.2.2.1 CLP fire officials should ensure FireSmart recommended guidelines for critical electrical infrastructure hazard reduction are followed to reduce vulnerability of electrical lines to wildfire. CLP fire officials should meet with BC Hydro officials to discuss powerline right-of-way vegetation clearing procedures and standards along the Columbia Valley Road / highway access route to CLP.

Water Infrastructure

A piped aquifer is the sole source of water for CLP. A 100,000 IG (Imperial gallon) reservoir is located between the south end of Monroe Ave and Parmenter Road. The reservoir is supplied by an intake pumping station located at the CLP water supply well house (located at Sunnyside Ave. and Cedar Ave.) with two independent well heads located on Sunnyside Ave in concrete pumphouses with backup diesel generator power supply. One well head is located behind the water supply well house and the other is located at Sunnyside Ave. and Alder St.

Fig 5-2: CLP Reservoir



The CLP water supply well house is a critical infrastructure facility where CLP has installed a backup generator. The generator is vulnerable to wildfire due to proximity to forest vegetation.

Fig 5-3: CLP Well house



Structures do not comply with FireSmart recommended guidelines with respect to vegetation management but are generally compliant with FireSmart recommended guidelines with respect to structural modifications.

Water is directed via service and supply lines (single line) that cross under the lake (at the footbridge) – the line is buried up to the footbridge approximately 1 to 1.5 m below surface.

While severe fire can change the hydrologic characteristics of an affected watershed – changing flow volumes, turbidity and timing of traditional surface water flows – fire is unlikely to affect the supply aquifer. Similarly, concern with possible contamination of the CLP water supply by fire retardants used in wildfire suppression is minimized by the existence of the supply aquifer. Nonetheless fire suppression tactics used in the vicinity of CLP should attempt to use water over chemical retardants or suppressants wherever possible.



Cultus Lake Park Community Wildfire Protection Plan

Communications Infrastructure

There is a telecommunications tower in the over flow parking / compostables landfill area adjacent the Cultus Lake Water Park. A Telus telecommunication sub-station is located on the east side of the Water Park adjacent Soowahlie Indian Reserve 14. Facilities do not comply with FireSmart recommended guidelines with respect to vegetation management.

Fig 5-8: CLP Communications Tower



Recommendation 5.2.2.4 CLP fire officials should ensure FireSmart recommended guidelines for vegetation management and structural modifications are applied to all CLP communications structures. CLP fire officials should meet with communications officials to discuss FireSmart guideline compliance at communication structures.

Residential - Commercial – Institutional Infrastructure

Residential - The community of CLP has developed along and inland from the east and west shorelines at the north end of Cultus Lake. Residential development is dense and the community features a well-defined interface with the coniferous forested areas located adjacent the community. With the exception of one 75 metre strip (7 lot) section on the west side of Munroe Avenue and two private developments in the north end of CLP – all residential lots that interface with the forested area are separated from that forested area by a paved roadway. There are no intermix residential developments with the exception of the two private developments in the north end of CLP – located on a non-CLP owned island of land (within the CLP boundary) west of Columbia Valley Road.

Commercial - A commercial core has been established to service the residential community and a number of businesses occupy a strip mall and other commercial lots adjacent the centrally located intersection of Sunnyside Blvd. and Columbia Valley Road. A large park facility with marina and beach is co-located with commercial facilities. None of these commercial facilities feature a direct interface with the forested areas located adjacent the community.

The two largest commercial developments are the Cultus Lake Water Park and Cultus Lake Golf Club. The Cultus Lake Water Park features a well-defined interface with the forested area adjacent the development perimeter and is separated from that forested area by a paved / gravel roadway. The Cultus Lake Golf Club features a well-defined interface with the forested area adjacent the development perimeter – values are separated from that forested area by either a paved roadway or an irrigated fairway.

Institutional – The community of CLP features several administrative buildings adjacent the centrally located intersection of Sunnyside Blvd. and Columbia Valley Road. The CLP Works Yard and Office, as well as the Fire Dept. and Elementary School are located on the east side of Sunnyside Blvd. None of these administrative or institutional facilities feature a direct interface with the forested areas located adjacent the community.



Cultus Lake Park Community Wildfire Protection Plan

Open spaces and greenbelt areas are numerous adjacent the CLP residential core and, where they exist, are effective in moving the edge of the forested area interface away from structures and facilities.

Fig 5-9: CLP Golf Course



Water supply to the community is from a piped aquifer that supplies a large reservoir via an intake pumping station with two independent well heads located on Sunnyside Ave in concrete pumphouses with backup diesel generator power supply. CLP hydrant infrastructure is described as adequate by fire officials with 23 hydrants featuring an average pressure of 50 psi and 200 gpm flow (exception is hydrants in the Lakeshore Rd area with lower pressure). No structure in CLP is located further than 300 metres from a hydrant. There are a total of 51 hydrants in the CLP Fire Protection Area – hydrants outside of CLP vary in with respect to pressure and flow adequacy.

Fig 5-10: CLP Hydrant



Fig 5-11: CLP Powerline



Electrical utilities are above ground and vulnerable to both tree strike (with attendant ignition possibilities) and wildfire threat. Both transmission and distribution lines feature sections of powerline that do not meet FireSmart recommended guidelines. Gas utilities are provided via underground service – above ground LPG tanks are not an issue.

Recommendation 5.2.2.5 CLP fire officials should ensure FireSmart recommended guidelines for vegetation management, structural and infrastructural modifications are applied to all CLP structures and infrastructure.

Fig 5-12: Garden + Forest Debris piles adjacent residential interface.



Fig 5-13: High structural density in residential core.





Cultus Lake Park Community Wildfire Protection Plan

Fraser Valley Regional District (FVRD) Community Emergency Response Program has developed an Emergency Plan for Electoral Area E which encompasses CLP. The plan is comprehensive and contains responsibilities, procedures and contact information in the event of an emergency. The plan also identifies media contact details and lists the organization and volunteers that will provide door to door evacuation procedure notification. Wildfire is identified in the Plan as the primary natural hazard concern of CLP.

Recommendation 5.2.3.1 A written wildfire evacuation procedure should be included as part of the CLP Emergency Response Plan – a component of the CLP Emergency Program. CLP fire and emergency response officials should meet with BC Ministry of Forests and Range Wildfire Management Branch, BC Parks, Provincial Emergency Program (PEP) and Regional District emergency planning representatives to review and update the wildfire evacuation plan on a regular basis.

The CLP wildfire evacuation procedure should:

- Identify primary or secondary evacuation routes for all areas of CLP;
- Identify reception centre, marshalling points, safe zones;
- Identify all resources required to implement the evacuation plan;
- Develop a communications – public awareness strategy to inform the public.

5.2.4 Post-Wildfire Rehabilitation Planning: Watershed stability is dependent on intact standing and surface vegetation and soil that resists erosion and sedimentation. Any significant wildfire disturbance could seriously affect watershed stability. There are some areas in CLP where wildfire impacts on steep, burned slopes with erosive soils could, with sudden storm events, result in a variety of slope stability issues.

Post wildfire rehabilitation planning is important and helps to avoid long term damage to slopes, soils or storm drain infrastructure by designating restoration activities that will mitigate damage caused by fire suppression activity or high intensity fire. Provision of timely post wildfire damage assessments and mitigation recommendations will assist CLP officials to obtain contractors for required rehabilitation work. It is important that the work is completed before any major storm events occur with the potential to trigger undesirable post-wildfire effects. Sudden, high intensity rainfall events, on areas with post wildfire water repelling soils are often linked to flooding and increased erosion.

Recommendation 5.2.4.1 CLP planning officials should develop post wildfire rehabilitation plans that address the full range of rehabilitation activities that may be required on a large burn area (500 – 4,000 ha's). Initially, rehabilitation work will focus on stabilization of slopes and protection of infrastructure.

Recommendation 5.2.4.2 CLP planning officials should prepare a list of contractors that are qualified and capable of providing post-wildfire assessments and emergency stabilization/rehabilitation of damaged areas.



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5.3.2 Training: Wildland fire suppression training is provided to CLVFD members with approximately half (10 out of 19) having completed S-100 training which is provided over two days every other year in a joint training session with Columbia Valley Fire Dept.). ICS 100 training has been undertaken via self-study by approximately half (10 out of 19) of the CLVFD members. No S-115 or S-215 (WUI operations) training has been provided to CLVFD members.

CLVFD members occasionally cross train and engage in joint responses with MoFR Wildfire Management Branch, Fraser Fire Zone wildland fire suppression crews stationed at Cultus Lake Base.

Recommendation 5.3.2.1 All CLPVFD members should be provided with a basic wildland fire suppression training course on an annual basis. CLPVFD members should also be provided with interface fire operations and Incident Command System training with review/refresher training provided on an annual basis.

5.3.3 Wildland Equipment: The CLVFD responds with a 2007 Freightliner pumper truck, a 1980 pumper truck, and a 1992 cube van emergency vehicle.

CLVFD does not have a complete set of personal protective equipment required for wildland fire response. CLVFD maintains a complement of ~12 wildland hand tools (pulaskis, shovels) and backpack pumps.

CLVFD Water delivery equipment includes:

- 1 x Wildfire Mark 3 portable pump (unserviceable)
- 1 x Honda WX15 portable pump
- 1 x Honda GXV 340 11 HP Floto pump
- 1 x 1,500 Imp. Gal self-supporting porta-tank
- 2 ½ inch hydrant gate valves

CLVFD equipment is compatible with equipment used by MoFR Wildfire Management Branch, Fraser Fire Zone fire crews via use of 1 ½ inch quick-connect wildland hose adapters.

CLVFD requires the following water delivery equipment:

- portable wildland pressure pump and volume pump;
- 1½ inch quick-connect wildland hose;
- ¾ inch econoflow hose;
- structure protection sprinklers and accessories

A CLVFD fire/rescue boat with adequate pumping capability would provide significant advantage to Fire Dept. response effectiveness during responses to structure or wildland fires adjacent the lakeshore.

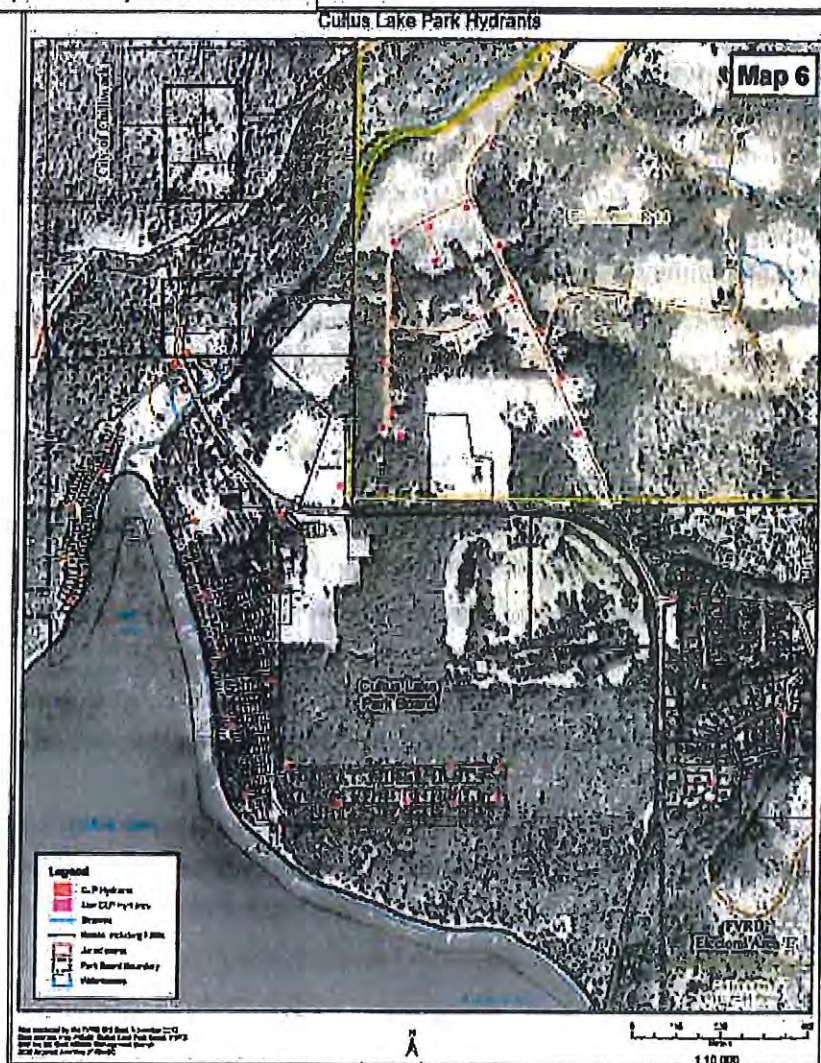


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Recommendation 5.3.4.1 CLPVFD fire officials should commence a formal tactical response planning process for all foreseeable wildfire tactical response situations. Tactical response access as well as resource and water requirements for both planned sprinkler systems and tactical engine needs should be included in the tactical response plan. This process should include an evaluation of requirements for dry hydrant, engine accessible reservoir or gravity standpipe installations for use during a wildland fire response.

Recommendation 5.3.4.2 CLPVFD fire officials should work with City Works personnel to ensure adequate hydrant water supply in all foreseeable wildfire tactical response situations. Exercises to test the effectiveness of emergency firefighting water supplies during wildfire tactical response are recommended.

Map 6: CLP Hydrant Locations





Cultus Lake Park Community Wildfire Protection Plan

Development Permits

Official Community Plan's using development permits options may be employed by a municipality or for designated areas of regional districts covered by an OCP. Development permits as a component of an OCP can provide the basis for influencing development in areas with interface fire risk.

Development Permits:

- apply only to new subdivisions and have no effect on existing development.
- are attached to the title of the property.
- are the responsibility of the property owner to carry out.
- can be required:
 - as a condition of subdivision or;
 - at the time a building permit is required.

OCP's can designate Development Permit Area's (DPA's) for the protection of development from wildfire hazard. DPA's must be accurately defined and justified, a requirement that is often met through the provision of Wildfire Hazard Reports by private consultants or provincial agency expertise. The Local Government Act requires the conditions or objectives justifying the designation to be prescribed and to specify guidelines respecting the manner by which these will be addressed. DPA's may include requirements on development character and landscaping (in relation to wildfire hazard) such as:

- siting, form, exterior design and finish of structures;
- type and proximity of vegetation to the development.

Covenants

Covenants are the most direct method of mitigating interface fire hazard on private land.

The basis for requiring covenants may be lodged in either the OCP or in a subdivision control bylaw. Covenants registered on the title of property are an effective method for addressing a wide range of interface fire hazard issues with one approach. Covenants can address structural and landscaping issues (landscaping and yard storage can contribute to the interface fire hazard and are difficult to address with the other legislative tools). Covenants are only as effective as the will of the Grantor to take on the role of enforcer. In most cases this is local government through bylaw enforcement provisions.

The B.C. Land Title Act - Section 219 allows for the placement of a restrictive covenant against the title of a property requiring that certain restrictions apply to that land.

Restrictive covenants are placed by virtue of the jurisdiction of the Approving Officer and are a commonly utilized method of wildfire hazard reduction in B.C.

Covenants place specific conditions on the use of a property and can be required for lot development within "existing subdivisions" via the building permit system. Covenants may also be a requirement for new subdivisions where the need is based in the respective bylaw.



5.4.3 Status of Interface Fire Legislation – Cultus Lake Park

The CLP community is experiencing increasing redevelopment pressure with continued growth forecast for the foreseeable future. The physical layout of CLP is such that most future development will be required to occur on and adjacent the community perimeter – an area potentially subject to various degrees of wildfire hazard. FireSmart development can occur in this or any area but will require proactive imposition of planning or development controls tailored to wildfire hazard mitigation.

This report uses the following classifications to describe the legislative potency of the various categories of interface fire legislation.

Strong: Legislation refers directly to wildfire hazard and i) provides specific direction on abatement or mitigation of wildfire hazard and ii) further imposes restrictions on development on land that is subject to wildfire hazard.

Moderate: Legislation discusses or refers indirectly to wildfire hazard but i) lacks specific direction on abatement or mitigation of wildfire hazard and ii) does not impose restrictions on development of land that is subject to wildfire hazard.

Pending: Legislation does not discuss or refer to wildfire hazard.

The following legislative items were reviewed for their current and potential capacity to mitigate interface fire hazard through the use of FireSmart planning guidelines backed with legislative authority.

On the basis of this review CLP interface legislation would be classified as ‘pending / moderate’.

General Regulations Bylaw Item 27 – Burning Conditions and Restrictions – prohibits all unpermitted open fires, discusses some details on obtaining an open fire permit and requires that permitted open fires be lit only in designated areas. No other parameters for the use of open fire are provided eg. Size, fuel type, attendance and required suppression equipment, prevailing environmental conditions or open fire use during fire ban.

General Regulations Bylaw Item 6 – Tree Cutting or Removal – regulates a number of activities relevant to wildfire hazard reduction with respect to vegetation management and requires cleanup of any debris resulting from tree cutting or removal. No specific mention of wildfire hazard reduction intent or FireSmart recommended guidelines is made and there are a number of additions or clarifications that could better support implementation of FireSmart vegetation management guidelines.

Fire Department Bylaw Item 14 – General Provision empowering the Fire Chief to cause removal of a hazard to persons or property – discusses structural fire hazard issues. No specific mention of wildfire hazard reduction or application of FireSmart recommended guidelines is made.



5.5 Fuel Treatment

Fuel treatment can be an effective method of preventing high intensity wildfire from developing and for reducing destructive wildfire behaviour. Fuel treatments can limit fire spread towards or away from the WUI community interface.

5.5.1 Fuel Treatment Goals

The goal of fuel treatment is to reduce crown fire behaviour through the reduction in surface fuels, ladder fuels, and crown fuels in priority areas. This threshold of reduction varies by ecosystem type, fuel type present, fire weather, slope, and other variables. However, as a rule of thumb, tree crown continuity must be discontinuous (<400 sph depending on tree size), surface fuels must be below 1kg/m^2 , and ladder fuels must be at least 3 m above surface fuels.

Fuel treatments are applied first to those fuels adjacent values at risk – fuel removal within Priority Zone 1 and subsequently, to fuels further from values at risk – fuel reduction in Priority Zones 2 + 3. Fuel conversion strategies can be used in Priority Zones 1 - 3 and reduce wildfire danger by retaining deciduous or low flammability species over the more combustible coniferous trees or plants. Fuel treatment goals address two priorities:

1. Reduce the chance of structural ignition from direct wildfire impingement by implementing FireSmart fuel reduction recommended guidelines wherever fuels are located within 30 m of residential values at risk. A secondary benefit will be realized in the reduction of accidental wildfire ignition risk within or adjacent interface areas.
2. Reduce the chance of structural ignition from heavy firebrand accumulation and resulting spot fire ignitions by minimizing high intensity and crown fire potential within or up to 100 m from interface areas or within strategically located fuel treatment sites.

5.5.2 Fuel Treatment Application

Fuel treatments are typically applied under prescriptions that accomplish hazard reduction and as much as possible provide a degree of ecosystem restoration. Fuel treatment prescriptions will attempt to mimic the effects provided by natural disturbances historically present in an area. When prescribed fuel treatments duplicate natural disturbances - fundamental ecosystem processes are maintained and the result is a long lasting, ecologically superior and more fire resistant landscape.

Fuel treatments vary in complexity and scale from those undertaken on a landscape scale for community protection to those accomplished immediately adjacent values at risk on a site specific basis.

Fuel treatments are done for 3 reasons

- Reduce fire intensity at impingement with interface or intermix values at risk
- Reduce spotting potential in fuels < 2km from community or values.
- Provide an example of FireSmart fuel treatments conducted on public lands to motivate residents to accomplish similar fuel treatments on private land.



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Fuels are managed by:

- Mechanical means – removal and reduction of fuels with machinery or hand tools, salvage opportunities are maximized and the remainder burned.
- Controlled fire application – prescribed burning – often following a mechanical thinning or treatment – especially when untreated fuels are immediately adjacent values at risk.
- Structural modifications – structures are potential fuel for a fire – structure combustibility is reduced with the application of FireSmart structural modifications.

Recommendation 5.5.3 CLP should commence an area specific fuel treatment program (implemented over 5 years on a priority basis) that targets progressive fuel reduction in higher hazard fuel type areas identified by the CWPP planning process (section 5.5.6 – CLP Hazard Reduction Fuel Treatments). The goal of fuel treatment is to reduce both crown and surface fire potential in priority areas. Fuel treatment programs will require that fuel treatment plans and site specific prescriptions be developed in consultation with qualified interface fire protection professionals.

5.5.4. Existing and Proposed Landscape Fuelbreak Units

As described in Section 4.3, Cultus Lake Park is situated within an encircling network of fuel types that range from higher hazard fuel types such as continuous coniferous to lower hazard fuel types such as deciduous, mixed / open fuel types, non-fuel types and fuel modified areas (highways, golf course or open fields and transmission line right-of-ways).

Fuel Type fuelbreaks - A number of lower wildfire hazard areas featuring deciduous / mixed or open fuel types (D1/2, M1/2, O1) have been identified by the CWPP planning process. (Map 4 – CLP Fuel Types). Fuel type polygons can comprise landscape fuelbreak units and the relative positioning of these areas is of interest for strategic planning purposes.

Note: Higher hazard fuel types featuring continuous coniferous fuel types are similarly identified by the CWPP planning process. While these areas feature varying degrees of wildfire hazard and do not comprise landscape fuelbreak units – planning officials must be aware of the potential for changes in forest cover on these units to increase the on-site wildfire hazard considerably. Slash remaining or juvenile ingrowth occurring on an areas following timber removal by logging or development interests can increase the wildfire hazard substantially in coniferous fuel types.

Highways and Roads - The CLP Study Area is bisected by the main Columbia Valley Road / highway access route and features a number of other paved or graveled roadways on and adjacent the CLP interface with forested areas. Roadways serve as both fuel breaks and access/egress routes.

In several locations the highway RoW and CLP roads and laneways could function, to varying extents, as strategic fuel breaks. It is therefore important to maintain these right-of-ways in a fuel reduced condition with grass and saplings cut back regularly and slash accumulations removed as



Cultus Lake Park Community Wildfire Protection Plan

In addition, fuelbreaks are only one component of a multi-faceted fire protection strategy. CLP will need to merge any fuelbreak strategy with other strategic initiatives such as site level fuel treatments, FireSmart modifications to structures and wildfire prevention, preparedness and response issues.

Recommendation 5.5.4.1: CLP fire officials should meet with BC Ministry of Forests, Lands & Natural Resource Operations officials to request the opportunity to provide input on all harvesting plans proposed in the vicinity of CLP

Recommendation 5.5.4.2: CLP should meet with BC Ministry of Transportation & Highway officials to discuss highway right-of-way vegetation clearing procedures and standards along those sections of highway adjacent CLP that could function as a strategic fuel break.

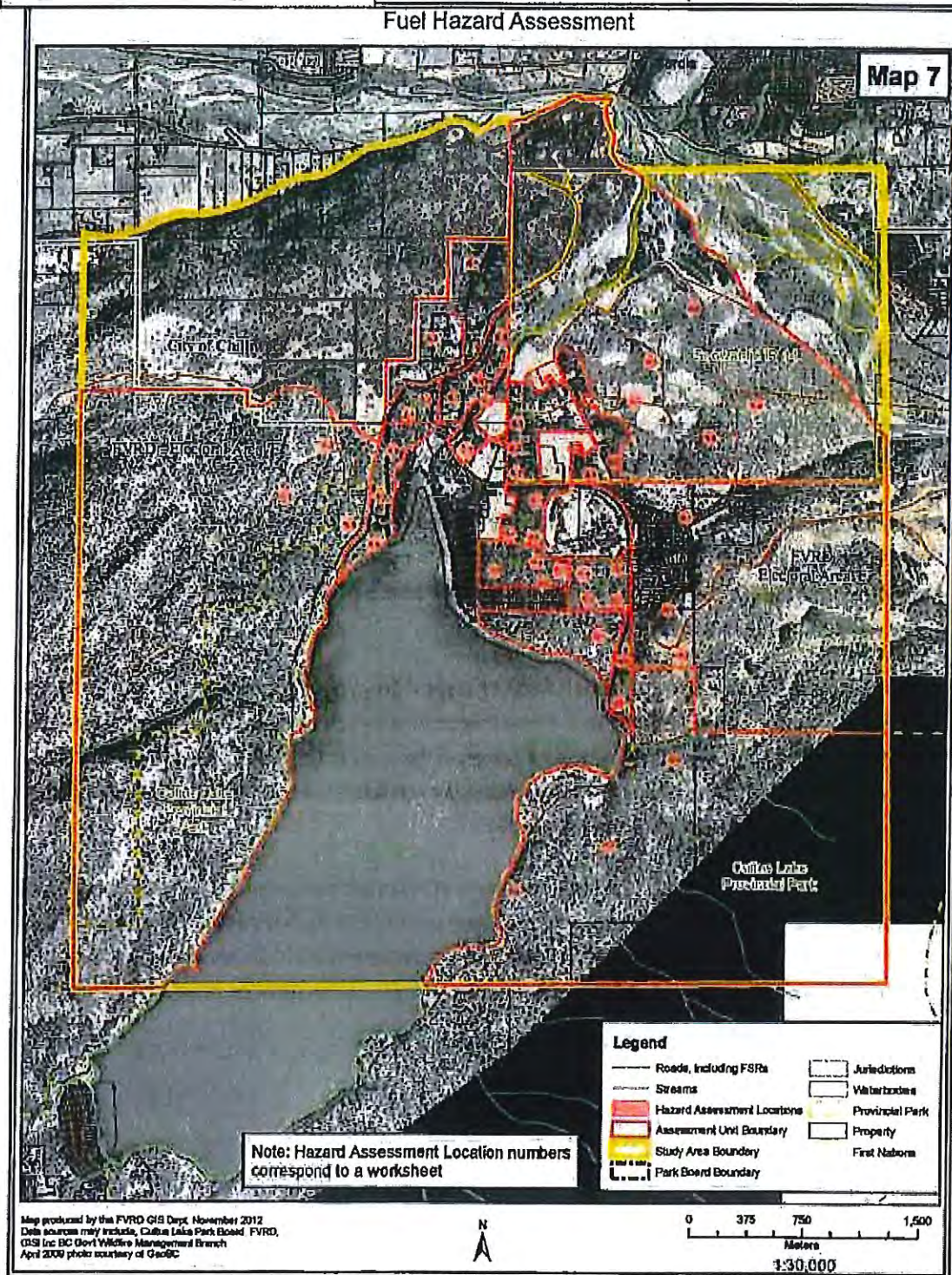
Recommendation 5.5.4.3: CLP should develop vegetation clearing procedures and standards for recreational trail maintenance in areas identified as strategic fuelbreaks – thinning with understory fuels removed over a 5m area on each side of the trail is proposed. Use of trails to facilitate access by fire suppression crews should also be considered in the development of any trail maintenance standard.

Recommendation 5.5.4.4: CLP should meet with BC Hydro officials to discuss powerline right-of-way vegetation clearing procedures and standards along those sections of transmission or distribution line that could function as a fuel break. CLP should work with utility companies to establish critical electrical infrastructure hazard reduction guidelines and cooperative arrangements for maintenance of low wildfire hazard conditions on and adjacent transmission or distribution line right-of-ways.



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Map 7: CLP Fuel Hazard Assessment

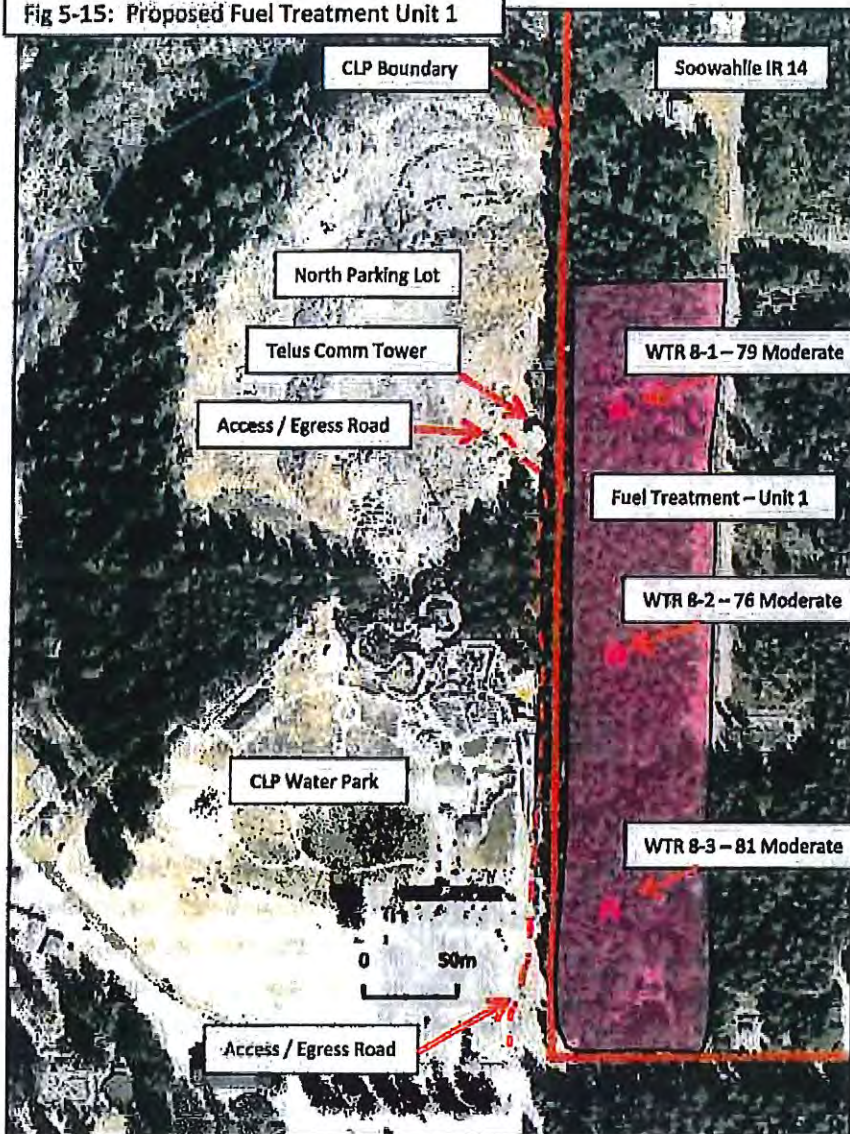




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Unit 1 - Water Park / Soowahlie 14:

Fig 5-15: Proposed Fuel Treatment Unit 1



Forested strip adjacent and east of the Cultus Lake Water Park – This public / commercial facility is one of the largest water park attractions in the nation. Given the high site occupancy of the water park facility (4,500 users/day at peak attendance) coincident with the high wildfire danger conditions typically present during peak attendance periods (hot, dry weather) that increase the risk of an accidental ignition and subsequent rapid spread in the forest fuels adjacent the water park perimeter. Public safety could be endangered if fire behavior in the forested strip impinging on the water park structure. Evacuation of water park users is potentially compromised as egress from the rear parking area north of the water park facility requires vehicles to drive along a narrow roadway between the water park and the forest fuels.

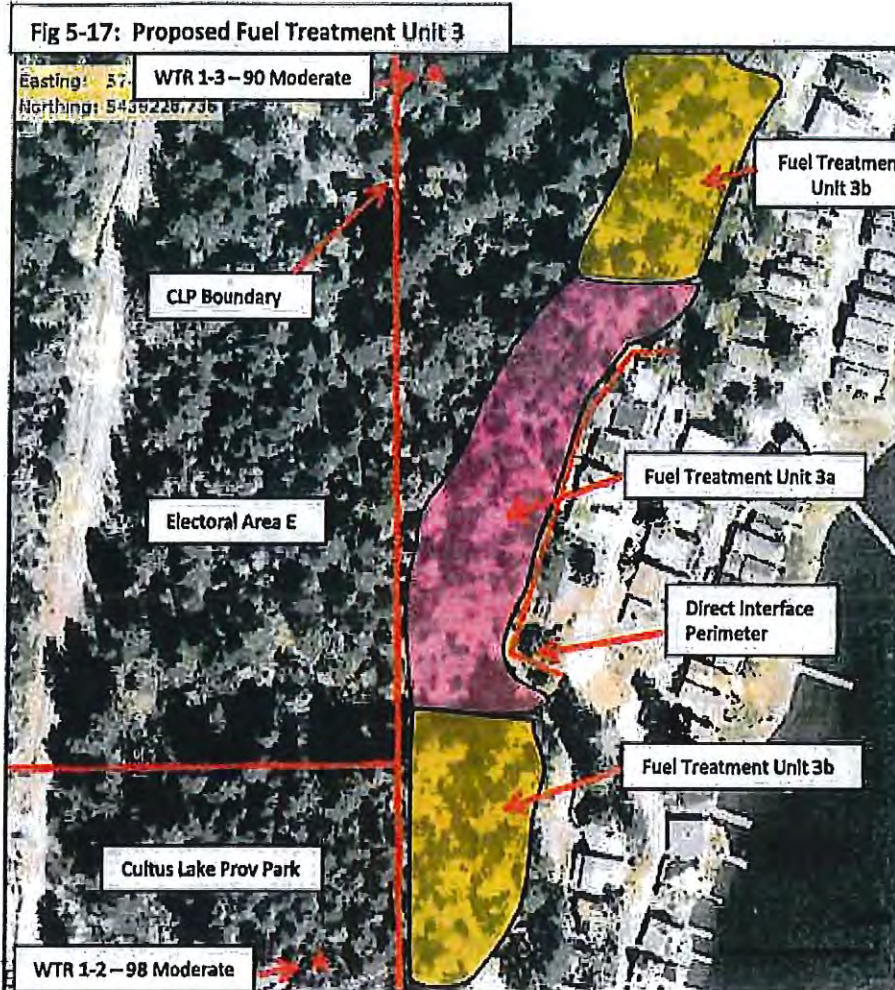
There is evidence of high levels of human use within the forested strip (litter volume, trails and CLP personnel report previous accidental ignitions in this area) It is foreseeable that an ignition in this area on a hot, dry windy day could escape containment and require an evacuation of water park users under emergency conditions.

Treatment to FireSmart recommended guidelines for Priority Zone 2 within the forested strip east of the facility and parking areas, across its entire width or at least to a 30m treatment distance east of the north parking lot access / egress road is recommended. The forested strip is owned by Soowahlie IR 14 and a cooperative approach to funding application and fuel treatment coordination will be required. Installation of an alternate 'emergency use only' vehicle egress from the north parking lot is also recommended.



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Unit 3 - Lakeshore Munroe West - North:



Forested strip adjacent CLP residential properties at: 307 - 313 Monroe Ave.

These seven residences are located on a direct interface perimeter of CLP.

Most other CLP residential properties that interface with an adjacent forested area are separated from that forested area by a paved roadway that significantly increases the subject properties compliance with FireSmart vegetation management guidelines for Priority Zone 1 and 2.

The forested strip adjacent the subject properties is located on an east-facing slope that is subject to

short duration but strong diurnal wind influence. An ignition south of the Lakeshore Rd. / Monroe Ave. properties could be expected to move north with wind influence and impinge on the interface perimeter of the subject properties.

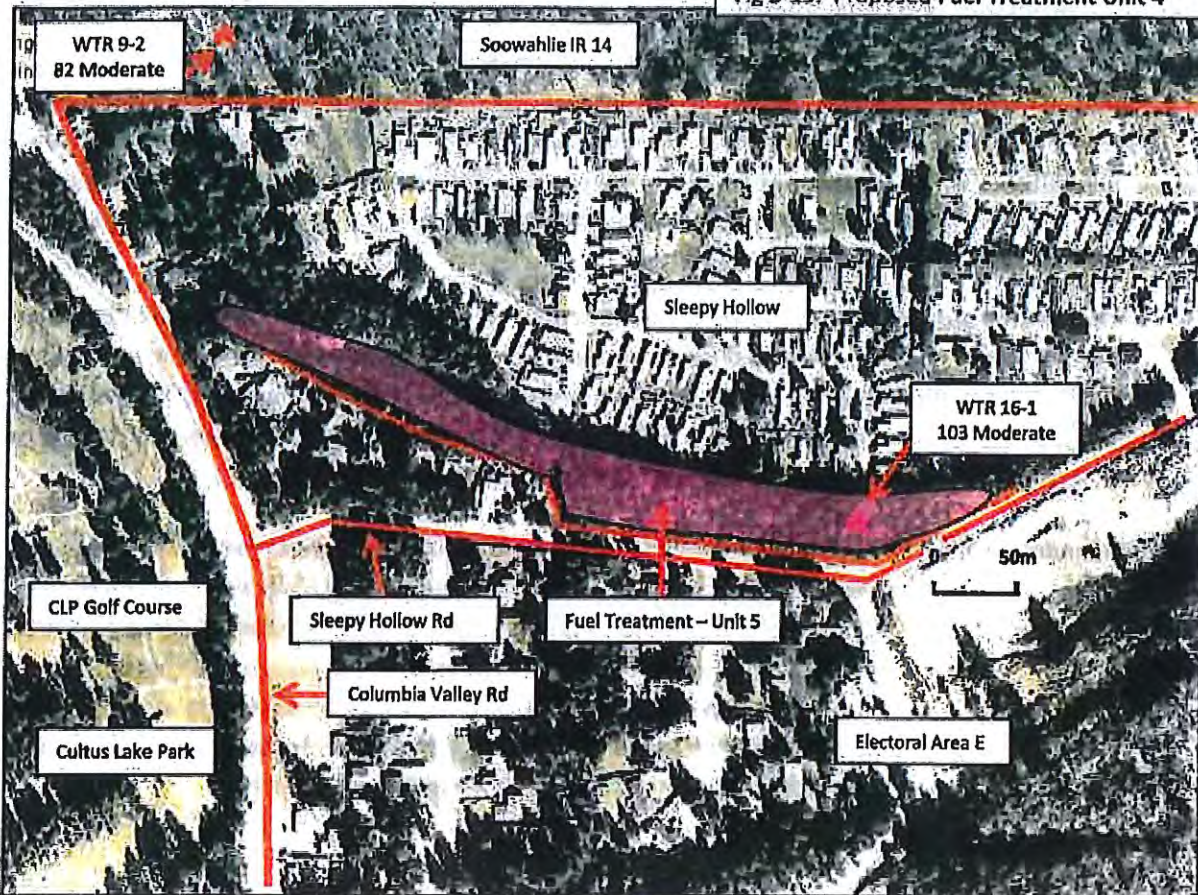
Treatment to FireSmart recommended guidelines for Priority Zone 1 + 2 within a 30m width of forested strip adjacent the residential lease / public land boundary of the subject and adjacent Lakeshore Rd. / Monroe Ave properties is recommended. Fuel treatment in Unit 3a is a higher priority than fuel treatment in Unit 3b. The forested strip is owned by CLP.



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Unit 5: Sleepy Hollow:

Fig 5-19: Proposed Fuel Treatment Unit 4



Forested area north of Sleepy Hollow Rd.

The forested area is located on a steep north facing slope below residential properties north and south of Sleepy Hollow Rd. as shown.

The wildfire risk to residential properties south of Sleepy Hollow Rd. is mitigated to some extent by the paved width of Sleepy Hollow Rd. providing adequate setback between the forested area on the slope and the residences. The wildfire risk to the 8 residential properties north of Sleepy Hollow Rd. (45661, 45651, 45641, 45631 and 45621 Sleepy Hollow Rd and 3900, 3910 and 3920 Columbia Valley Rd.) is greater as no paved fuel break exists to provide setback between the forested area on the slope and the adjacent residences.

There are a number of slash, garden and forest debris piles that have accumulated across the forested area slope – these fuel accumulations can be expected to increase wildfire intensity and spread rates in the area. Treatment to FireSmart recommended guidelines for Priority Zone 1 and 2 as required is recommended. The strip of forested area is privately owned (631429 BC LTD).



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Appendix 1: Wildfire Threat Rating Worksheet Summary

Fire risk assessment in the CLP study area was conducted using the provincial Wildfire Threat Rating worksheet as required by the UBCM SWPI CWPP Program.

Unit	Date	Fuel	Score	Threat Rating
1-1	2012-06-22	C3	110	MODERATE
1-2	2012-06-22	C3	98	MODERATE
1-3	2012-06-22	C3	90	MODERATE
2-1	2012-06-22	C5	78	MODERATE
2-2	2012-06-22	C5	74	MODERATE
3-1	2012-09-27	D1	65	MODERATE
4-1	2012-09-27	C5	98	MODERATE
5-1	2012-09-27	C5	75	MODERATE
5-2	2012-09-27	D1	55	MODERATE
5-3	2012-09-27	C3	74	MODERATE
6-1	2012-06-22	C5	76	MODERATE
6-2	2012-06-22	C5	58	MODERATE
6-3	2012-06-22	C5	65	MODERATE
7-1	2012-06-21	C3	68	MODERATE
7-2	2012-06-21	C3	75	MODERATE
8-1	2012-06-21	C3	79	MODERATE
8-2	2012-06-21	C3	76	MODERATE
8-3	2012-06-21	C3	81	MODERATE
9-1	2012-06-21	C3	78	MODERATE
9-2	2012-09-27	C3	82	MODERATE
10-1	2012-06-21	C3	87	MODERATE
10-2	2012-06-21	C3	86	MODERATE
10-3	2012-06-21	C3	91	MODERATE
11-1	2012-06-21	C3	81	MODERATE
11-2	2012-06-21	C3	82	MODERATE
11-3	2012-06-21	C3	88	MODERATE
11-4	2012-06-21	C3	88	MODERATE
12-1	2012-06-21	C3	87	MODERATE
12-2	2012-06-21	C3	73	MODERATE
12-3	2012-06-21	C3	73	MODERATE
12-4	2012-06-21	C3	63	MODERATE
13-1	2012-06-21	C5	57	MODERATE
14-1	2012-06-21	M2	108	MODERATE
14-2	2012-06-21	M2	76	MODERATE



Appendix 2: Field Research Report Section

From: Daniels, L.D. and R.W. Gray. 2006. Disturbance regimes in coastal British Columbia.

BC Journal of Ecosystems and Management 7(2):44–56. URL:

http://www.forrex.org/publications/jem/ISS35/vol7_no2_art6.pdf

Fuel availability and combustibility are influenced by both “bottom-up” and “topdown” controlling factors (Lertzman *et al.* 1998). Bottom-up controls include local-scale topographic influences on fuel size class distribution, fuel moisture, and fire behaviour. Top-down controls are large-scale, long-term climate regimes such as the dry climate prior to the Little Ice Age versus the current climate regime. Under the influence of a cool, wet climate, bottomup controls strongly influence fire occurrence and extent (Gavin *et al.* 2003). In wet coastal temperate rain forests, fuels accumulate in fine-scale canopy gaps that are dispersed within a stand through time. Fine fuels decompose rapidly; thus, insufficient fine fuels accumulate at any specific location to be a significant pre-cursor for a stand-initiating fire.

In general, the flammability ratings of the wet coastal temperate rain forest are low. Coarse woody debris accounts for the majority of persistent surface fuels. These fuels have high bulk density and remain moist beneath a mantle of moss and herbs in the shade of multiple layers of the canopy (Wetzel and Fonda 2000). Even during years of extreme drought, high moisture content in fuels retards ignition and spread of fire. The spread of fire is influenced by the flammability of fuels, which in turn varies with topography and climate (Huff 1995). Topography determines exposure of fuels to irradiance and wind, and indirectly influences fuel moisture, making certain parts of the landscape more susceptible to fire. For example, forests on steep, southwest-facing slopes are more flammable than forests on steep, northwest-facing slopes or flat ground in the bottom of valleys. Within stands, subtle differences in microtopography can limit the spread of fire and restrict fire size in the wet coastal temperate rain forest (Gavin *et al.* 2003b).

During periods of dry climate, top-down controls are more important than fuel dynamics for determining fire occurrence in the wet coastal temperate rain forests (Hemstrom and Franklin 1982; Gavin *et al.* 2003a). Historically, years of high fire activity were most likely to occur when persistent high pressure ridges formed along the west coast, blocking westerly winds, reducing precipitation, and allowing fuels to dry for extended periods (Agee 1991). Under these conditions, dry winds could spread fire, where fuels were available. This scenario depends on three essential conditions:

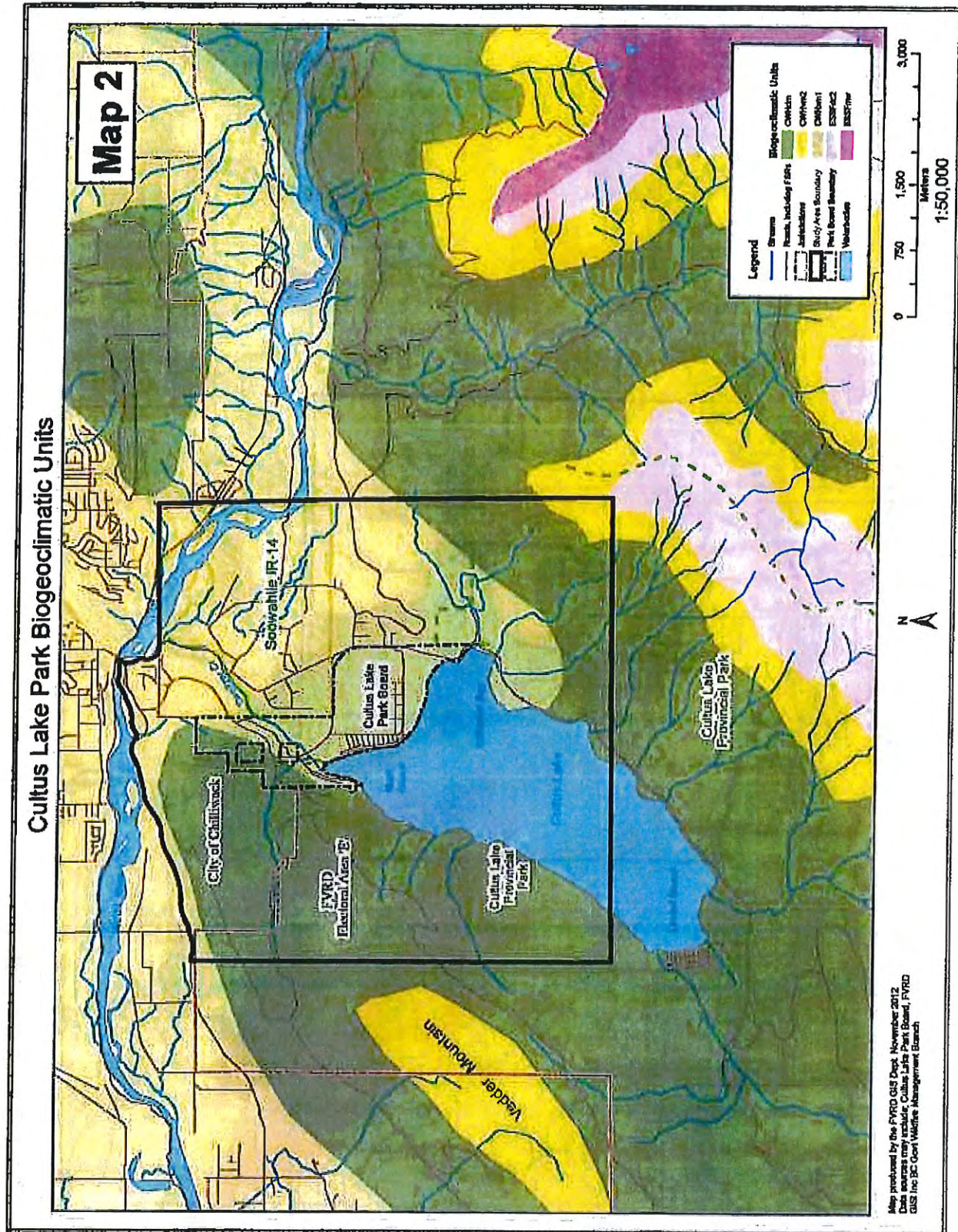
1. Ignition by lightning, and persistence of fire during precipitation and (or) high humidity associated with lightning storms;
2. Availability of fuels of appropriate size and distribution; and
3. An extended period of drought to dry surface fuels and permit the spread of fire.

Using 20th century climate data, Agee and Flewelling (1983) modelled climate-fire scenarios for the west side of the Olympic Peninsula in Washington State and concluded that fire return intervals averaged about 900 years. Evidently, the ideal combination of lightning ignition and bottom-up (fuels) and top-down (climate) controls suitable for stand-initiating fires is very rare in wet coastal temperate rain forests.

Stand-initiating fires since European settlement in the late 1800s have strongly influenced our perception of fire in coastal forests, but these fires do not represent the historic fire regime. For example, the Forks Fire on the Olympic Peninsula in 1951 was preceded by a cyclone in 1921 that created abundant fuel for the subsequent fire. Fires in the 1920s in the Capilano River watershed near Vancouver, B.C., resulted from escaped slash burns. Similarly, timber harvest was a precursor to the Tillamook Fire in Oregon, the Yacolt Fire in Washington, and the Seward and Chilliwack Valley fires in British Columbia in the early part of the 1900s. Logging created large fuel loads and microclimatic conditions that allowed the fuels to dry, making these sites conducive to burning. Moreover, most of these recent, large-scale fires in coastal forests were ignited by humans. Thus, stand-initiating fires have burned coastal forests in the past century, but under unusual circumstances.

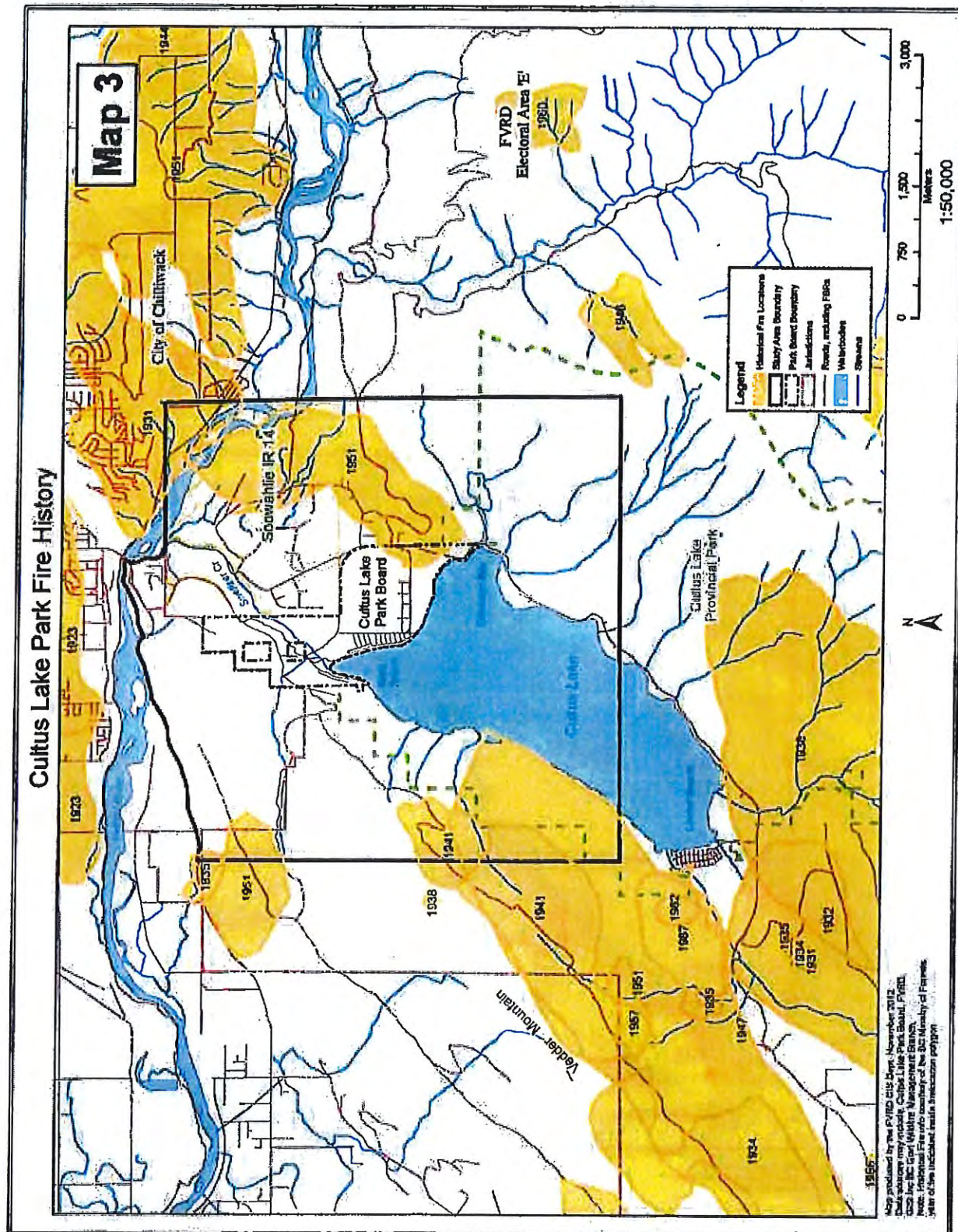


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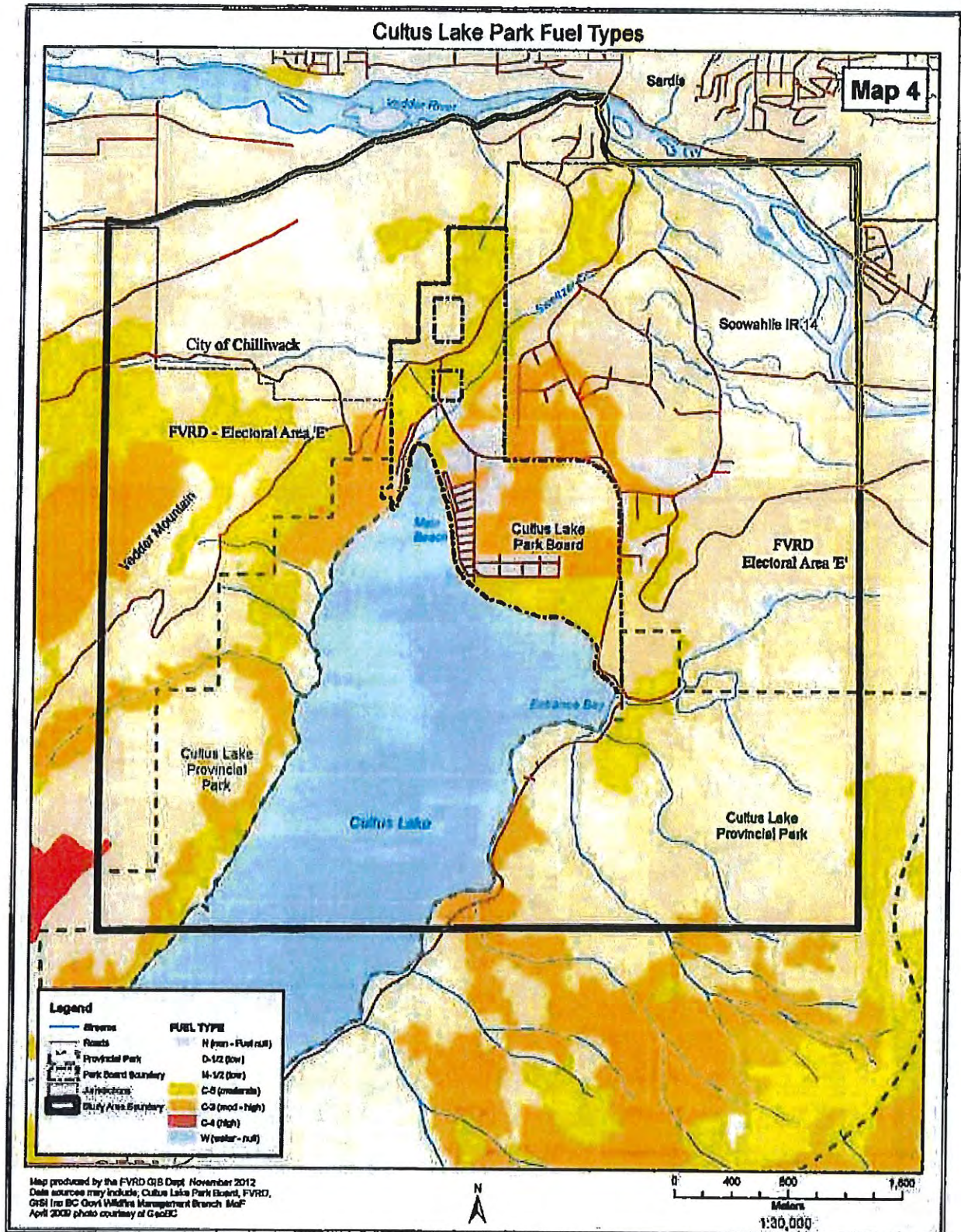


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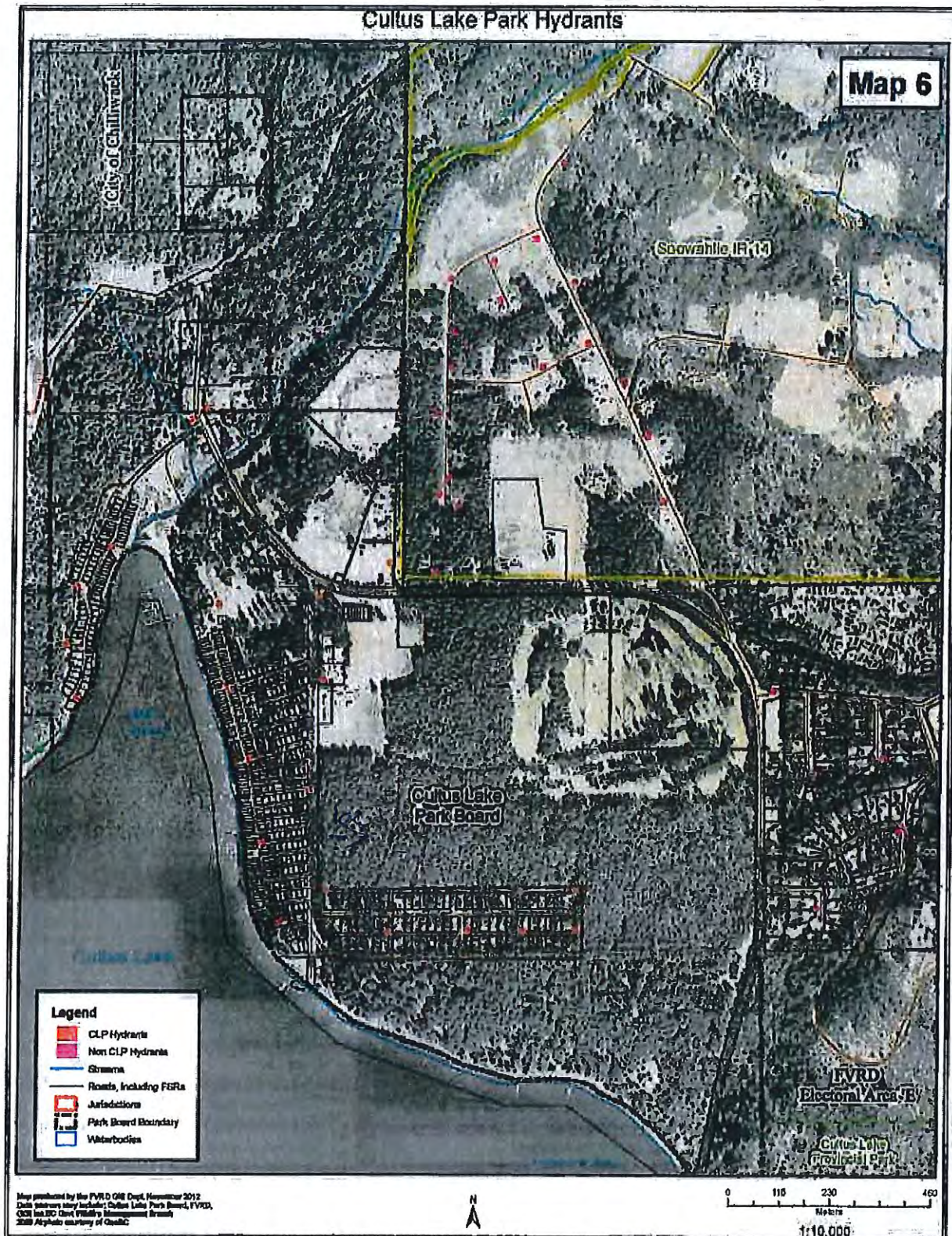


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Cultus Lake Park Board

BOARD POLICY 2005 -01

File No.: 7200-00

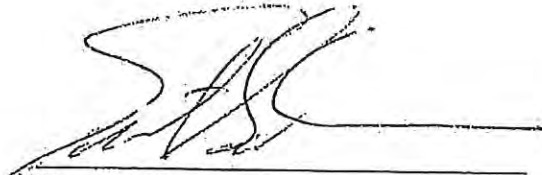
Whereas, for the safety of the public and protection of property and natural resources, it is prudent to prohibit open burning from time to time and when certain weather and other conditions heighten the threat of forest and other wild fires.

It shall be a policy of Cultus Lake Park Board that:

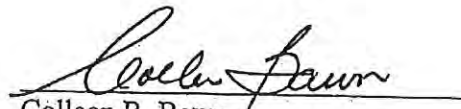
1. The CAO/Park Manager is the Park Board official authorized to and responsible for instituting and/or lifting fire bans within Cultus Lake Park.
2. This authority to institute and/or lift a fire ban, within part or whole of Cultus Lake Park, is at the sole discretion of the CAO or, in the CAO's absence, of her/his authorized delegate.
3. In exercising this authority, the CAO may consider, among other things:
 - a) Consecutive days of heat without precipitation;
 - b) Provincial guidelines and fire restriction regulations;
 - c) An unconfined fire within the Park or immediate area that may spread;
 - d) A hazardous materials incident involving the spill or release of a flammable substance within the Park or immediate area; and
 - e) Any other set of circumstances deemed by the CAO to warrant a ban.
4. A fire ban will prohibit all open flame including candles, tiki torches, wood fires, decorative propane fires and any other open flame not used for cooking. A fire ban will not include cooking appliances such as properly operated barbecues and camping stoves.
5. During a fire ban, the Park Board will provide and maintain receptacles in public areas suitable to receive hot coals/ashes from barbecues.
6. The public will be notified of a fire ban by:
 - a) A banner erected on posts located adjacent to Columbia Valley Highway near the Rental Cabins;
 - b) A banner erected at the entrance to Sunnyside Campground;

- c) A banner erected on the exterior face of the Main Beach washroom building;
- d) A sign posted on the notice board outside the Rec Hall building within Sunnyside Campground;
- e) A sign erected on Lakeshore Drive near the Westside parking lot/across from the Community Hall building;
- f) A notice given to all campers at time of check-in to Sunnyside Campground;
- g) A notice delivered to the operator of the operator of the convenience store within Sunnyside Campground, advising that the sale of fire wood is prohibited during a fire ban; and
- h) Any other means as directed by the CAO or their authorized delegate..

Adopted by Park Board Resolution Number IC174-05 on the 13th day of July, 2005.



Grant Sanborn
Chair, Cultus Lake Park Board



Colleen R. Bawn
Park Manager/CAO



Cultus Lake Park

BURNING CONDITIONS, RESTRICTIONS AND FIRE BAN BYLAW

Bylaw No. 1104, 2018

A Bylaw to regulate Burning Conditions, Restrictions and Fire Bans.

Section 12 of the *Cultus Lake Park Act* (1932 and Amendments) enables the Cultus Lake Park Board to adopt bylaws, provides for the imposition of fees for services and provides for the enforcement of bylaws and payment of fines.

Every person who offends against any of the provisions of this Bylaw or who suffers or permits any act to be done in contravention or in violation of any of the provisions of this Bylaw, or who neglects to do or refrains from doing anything required to be done by any of the provisions of this Bylaw, or who does any act or thing which violates any of the provisions of this Bylaw, will be in breach of this Bylaw, and will be liable to the fines as outlined in Schedule A of this Bylaw and the provisions as outlined in the Cultus Lake Park Bylaw Enforcement, Penalty and Compliance Orders Bylaw, Bylaw No. 1103, 2018.

The Cultus Lake Park Board in open meeting assembled, enacts as follows:

1. TITLE

This Bylaw may be cited as "Cultus Lake Park Burning Conditions, Restrictions and Fire Ban Bylaw No. 1104, 2018."

2. INTERPRETATION

2.1 Words or phrases defined in the *British Columbia Interpretation Act*, *Motor Vehicle Act*, *Local Government Act*, *Community Charter* or any successor legislation, will have the same meaning when used in this Bylaw unless otherwise defined in this Bylaw.

2.2 DEFINITIONS OF TERMS

"Barbeque" means a devise that cooks food by applying heat from below, fueled by propane.

"Board" means the elected Board for the Park.

"Briquette" means a block of compressed charcoal or coal dust used as fuel.

"Charcoal/Coal" means a carbonaceous material obtained by heating wood or other organic substances in the absence of air.

"Camping Stove" a portable stove powered by propane, butane gas canisters, or any other means, designed to be used for cooking while outdoors.

"CAO" means the Chief Administrative Officer; a position appointed by the Board.

"Designate" mean a person appointed by the CAO.

"Designated Areas" means the residences located on Park Drive, Mountain View Road, Sunnyside Campground and the Cultus Lake Cabins.

"Fire Chief" means the person who is in charge of the fire department.

"Fire Pit/Fire Place" means a gas burning structure of stone, brick or metal that contains and prevents a fire from spreading.

"Nuisance" means anything that annoys, irritates, disturbs or interferes with a person's use or enjoyment of private or public property or is offensive to the senses or causes injury to health, comfort or convenience of any person.

"Park" means the area within the Park boundaries and the foreshore assigned to the Park by the Province of British Columbia.

"Park Staff" means any person employed by the Park.

"Person" means a natural person, a company, corporation, partnership, firm, association, society, or party and the heirs, executors, administrators, occupier or tenant of leased land, personal or other legal representatives of a person to whom the context can apply according to law; however does not apply to Park Staff fulfilling or carrying out duties and responsibilities.

"Public Areas" means any street, laneway, avenue, way, drive, boulevard, sidewalk, driveway, beaches, wharves, school ground or such premises as the Board may from time to time designate.

"Smoker Units" means an apparatus for cooking at low temperatures in a controlled, smoky environment, powered by a wide variety of fuels, including electricity, propane or natural gas, wood, charcoal, and pellets.

2.3 In this Bylaw, unless the context otherwise requires, the singular will include the plural and the masculine includes the feminine gender.

2.4 The headings contained in this Bylaw are for convenience only and are not to be construed as defining, or in any way limiting, the scope or the intent of the provisions of this Bylaw.

3. BURNING CONDITIONS, RESTRICTIONS AND FIRE BANS

3.1 Open burning wood fires are prohibited in the Park except in designated areas. Fires must be in a container, apparatus or physical construct that is capable of controlling the spread of the fire and must not be left unattended and an adult must be present at all time. Wood burning fires are only allowed in designated areas. The only material permitted to be burned in fire pits, with the exception of those units as approved in 3.2, is untreated wood.

3.2 CSA-approved free-standing propane and natural gas fireplaces, fire pits, barbeques and camp stoves are permitted on residential leased property in the Park.

- 3.3 Smoker units are prohibited in the Park.
- 3.4 No person will continue to burn if it is the cause of an unreasonable nuisance to any other person in the neighbourhood because of drifting smoke, ash or an unpleasant odour.
- 3.5 Flames must be kept low and a safe distance from any building, combustible structure or any type of material that may be subject to combustion.
- 3.6 Propane barbeques only will be permitted in the areas as shown on Schedule B.
- 3.7 No fires are allowed in public areas of the Park unless approved by the CAO.
- 3.8 All propane or natural gas units are prohibited on the wharves and the beach. See schedule B.
- 3.9 The use of charcoal, coal or briquettes is prohibited within the public areas of the Park.

Fire Bans

- 3.10 For the safety of the public and protection of property and natural resources, it is prudent to prohibit open burning from time to time and when certain weather and other conditions heighten the threat of forest and other wild fires.
- 3.11 The CAO is the Park Board official authorized to and responsible for instituting and/or lifting fire bans within Cultus Lake Park by the following:
 - (a) This authority to institute and/or lift a fire ban, within part or whole of Cultus Lake Park is at the sole discretion of the CAO or in consultation with the Fire Chief,
 - (b) A fire ban will prohibit all open flames including campfires, wood fires, candles, tiki torches, fireworks, firecrackers, sky lanterns, burning barrels or burning cages of any size or description, the use of charcoal, coal, briquettes and the use of binary exploding targets, (e.g. for rifle target practice).
 - (c) This prohibition does not apply to CSA-rated or ULC-rated cooking stoves that use propane or natural gas, unless otherwise directed by CAO or in consultation with the Fire Chief.

4. FINES

- 4.1 All leaseholders, residents, visitors and persons are subject to the fines as outlined in this Schedule A of this Bylaw and the provisions as outlined in the Cultus Lake Park Bylaw Enforcement, Penalty and Compliance Orders Bylaw, Bylaw No. 1103, 2018.
- 4.2 Each occurrence or day that a contravention of the provisions of this Bylaw exists or is permitted to exist will constitute a separate offence.
- 4.3 Any offence stated in any section of this Bylaw not covered in Schedule A will be subject to a \$50.00 fine.
- 4.4 See Schedule A for the list of Fines.

5. SEVERABILITY

If any part of this bylaw is for any reason held invalid by a Court or competent jurisdiction, the invalid portion will be severed and the severance will not affect the validity of the remainder.

6. REPEAL

6.1 Section 9.0 Burning Conditions, Restrictions and Fire Bans of the Good Neighbour Bylaw 1041-13 and all amendments thereto are hereby rescinded.

6.2 Schedule 4 – Good Neighbor Bylaw, Part 5 – Burning Conditions and Restrictions of the Cultus Lake Fees and Fines Bylaw 1076-2016 is hereby deleted. The rest of the bylaw 1076-2016 remains valid and in force.

7. EFFECTIVE DATE

This bylaw will come into force and effect upon its adoption.

READ A FIRST TIME this 17th day of January, 2018

READ A SECOND TIME this 17th day of January, 2018

READ A THIRD TIME this 14th day of March, 2018

ADOPTED this 18th day of April, 2018


Joe Lamb, Chair
Cultus Lake Park Board


Kelly Ridley
Acting Chief Administrative Officer

I HEREBY CERTIFY the foregoing to be a true
and correct copy of Cultus Lake Park
Burning Conditions, Restrictions and Fire Ban Bylaw No, 1104, 2018

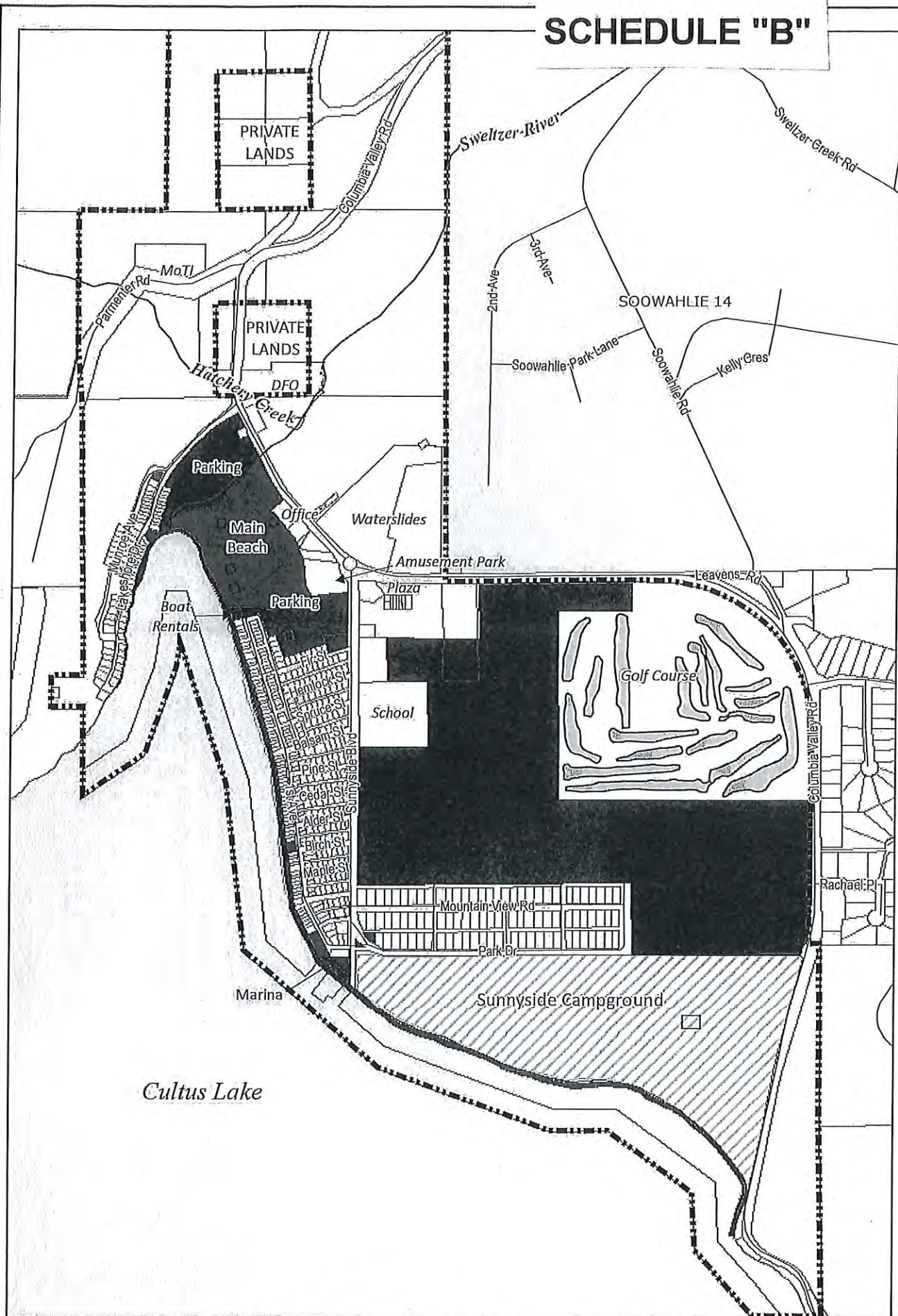
Cultus Lake Park
Chief Administrative Officer

Schedule A

Fines

Contravention of any prohibition during a fire ban.....	\$50.00
Contravention of fire regulation.....	\$50.00
Burning of fires in non-designated areas.....	\$50.00
The use of smoker units within the Park	\$50.00
Burning of fires deemed to be an unreasonable nuisance.....	\$50.00
Propane barbeque use in the areas not permitted, as shown on Schedule B.....	\$50.00
No fires in public areas without permission from the CAO.....	\$50.00
The use of a propane units on wharves or the beach.....	\$50.00
The use of charcoal, coal or briquettes in public areas.....	\$50.00

SCHEDULE "B"



**Cultus Lake Park Board
BBQ Map**

2016 Airtphoto Courtesy of McElharinéy

- BBQ Allowed
- BBQ on Campsite Only
- NO BBQ



0 100 200 400
Meters

Map produced August 20102
For Information purposes only.



CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0550

SUBMITTED BY: Bonny Bryant,
Chief Administrative Officer

SUBJECT: Fir Street Alleyway Potential Parking Development

PURPOSE:

To provide the Board with information regarding the potential development of residential parking along the Fir Street and Second Avenue alleyway.

RECOMMENDATION:

***THAT** the Cultus Lake Park Board direct that no parking spaces be placed in the green space along the Fir Street and Second Avenue alleyway.*

BACKGROUND:

At the February 20, 2019 Cultus Lake Park Board meeting the following motion was carried:

***THAT** the Environmental and Public Areas Planning Committee request that the Cultus Lake Park Board direct the Chief Administrative Officer to consult with the neighborhood for potential parking in this area.*

On March 1, 2019 an email was sent (Attachment #1) along with a map highlighting the potential parking space areas (Attachment #2) to 18 email address we have on file for Leaseholders on Fir Street and Second Avenue that border the alley and green space.

Nine (9) email responses were received prior to the deadline of March 8, 2019, Attachment #3. Of those responses two (2) were in favor and six (6) were against extra parking spaces. One (1) response received was unclear.

DISCUSSION:

Due to the majority of the responses against the implementation of new parking spaces between the alley and green space, staff recommends to no parking spaces be placed there.

STRATEGIC PLAN:

This report does not impact the Board's Strategic Plan Initiative.

Prepared and Approved by:

Bonny Bryant
Chief Administrative Officer

Bonny Bryant

From: Bonny Bryant
Sent: March 1, 2019 3:52 PM
Cc: Board Members; Rachel Litchfield (rachel.litchfield@cultuslake.bc.ca); Katrina Craig
Subject: Question on Parking spaces on Fir St Alleyway
Attachments: 20190301115751494.pdf

To: Residents on Fir Street & Second Avenue who back on to the alleyway.

The Cultus Lake Park Board is in the process of revitalizing the Fir Street greenspace. At the Board Meeting held on Wednesday, February 20, 2019, the Board requested that staff check with the residents who back onto the alleyway along Fir Street and 2nd Avenue, if they would be interesting in converting some of the greenspace in that area into parking spaces. It is estimated that approximately 8-10 spaces could be placed there for residential use only.

I would please ask if you can let me know if you are in favour or against using some of the greenspace as parking. Please see the attached map with the pink highlighted areas which would be the general areas under consideration for parking.

Thank you for taking the time to let us know your opinion as your input is very valuable to the Board in making this decision. Ideally, I would like to receive responses by March 8th, 2019.

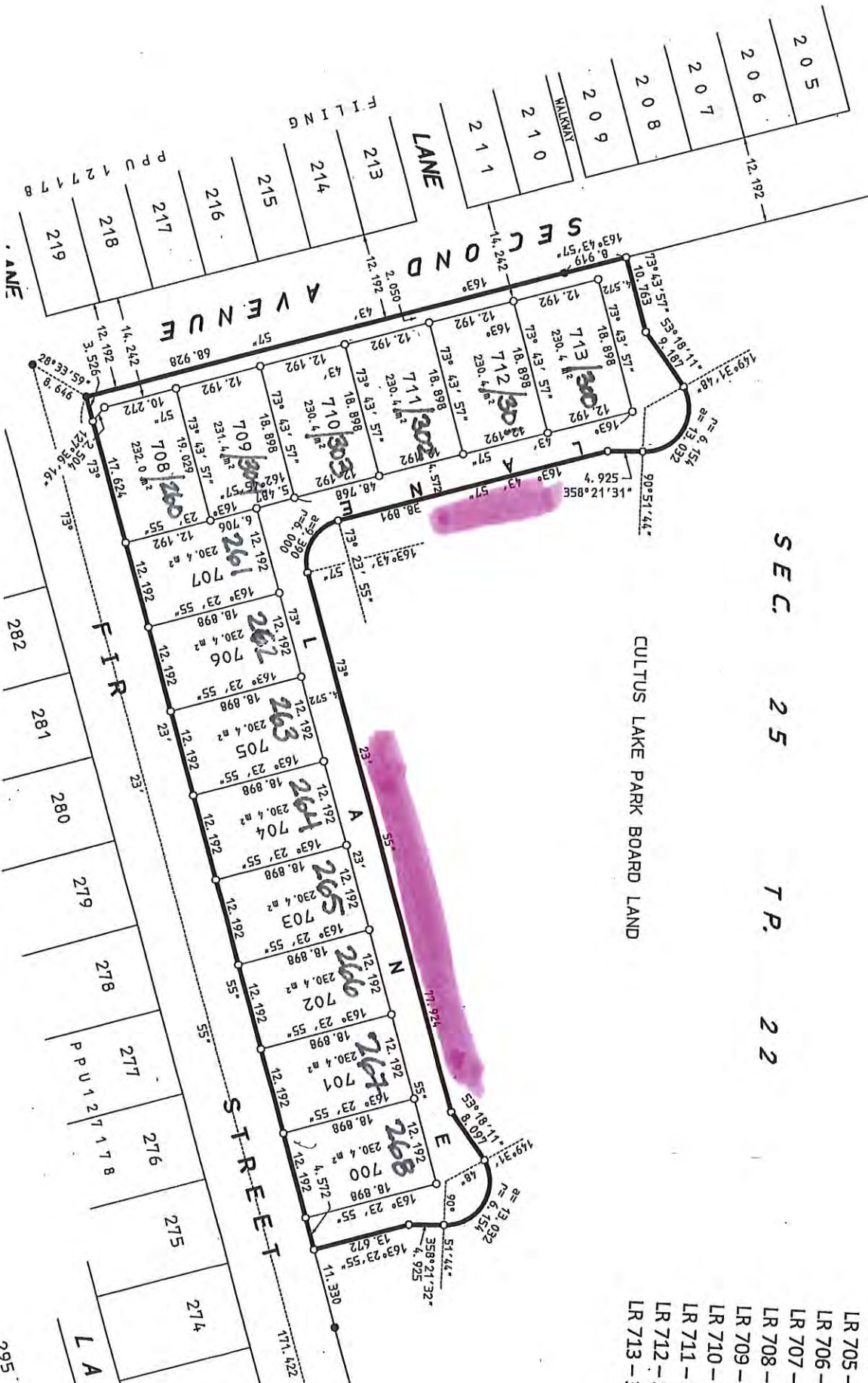
If you have any questions please feel free to contact me.

Bonny Bryant
Chief Administrative Officer
Cultus Lake Park
4165 Columbia Valley Highway
BC V2R 5B5
Direct Line: 604-847-2040
Cell: 604-997-4225

ATTACHMENT #2

10MIC, AND ARE
3 PPU127178.
1ST FOUND
1ST PLACED

SCALE: 1:500 (METRIC)



THE LOTS CREATED IN
REGISTERED IN THE
THESE LOTS ARE LE/
BOARD LANDS ONLY.
12.192 METRES = 41
18.898 METRES = 67

- LR 700 -
- LR 701 -
- LR 702 -
- LR 703 -
- LR 704 -
- LR 705 -
- LR 706 -
- LR 707 -
- LR 708 -
- LR 709 -
- LR 710 -
- LR 711 -
- LR 712 -
- LR 713 -

Bonny Bryant

From:
Sent:
To:
Cc:



Subject: Re: Question on Parking spaces on Fir St Alleyway

Hi Bonny and Board Members,

First of all we want to thank you all for including us in the decision making process regarding the space behind Fir Street.

There are approx 7 plus kids that back onto the green space and they are all under the age of 6. They play back there and that green space provides us with our only buffer from the main beach parking lot and amusement park along with the summer riff raff.

We do not want parking spaces behind our houses. It is a huge safety concern for us and we do not want to lose green space to parking.

Sincerely,

[Redacted Signature]

Sent from my iPhone

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604-

> Fax Line:

Bonny Bryant

From: [REDACTED]
Sent: March 1, 2019 6:35 PM
To: Bonny Bryant
Cc: Rachel Litchfield; Katrina Craig
Subject: Re: Question on Parking spaces on Fir St Alleyway

Bonny,

We live/own at [REDACTED] and back onto the alleyway. We do NOT want additional parking spaces put in.

We feel strongly that the entire area should be designated green space.

Thank you,

[REDACTED]
Sent from my iPhone

On Mar 1, 2019, at 3:51 PM, Bonny Bryant <Bonny.Bryant@cultuslake.bc.ca> wrote:

Bonny Bryant

From:

Sent:

March 2, 2019 11:32 AM

To:

Cc:

Subject:

Question on Parking spaces on Fir St Alleyway

Attachments:

Fir & 2nd Avenue Lane Traffic/Green Belt

Hi Bonny (and other concerned neighbours)

We have already been down this road. The consensus of lease holders on Fir and 2nd have already turned down the option of having resident parking in the greenspace, please refer to the attached email which was copied to you over a year ago. It's been a 3 year journey, we finally have the bollards and speed bumps installed, along with most of the clearing and replanting done. We continue to vehemently oppose converting any of the greenspace to parking.

I would like to know what the plans are for 'revitalizing' the greenspace. We saw Brenda marking out what appeared to be a myriad of trails throughout the greenspace, we do not consider a bunch of trails as an improvement or a revitalization of our neighbouring greenspace. Before any 'revitalization' takes place we the lease holders who border the greenbelt would like to know what the plans are, and would appreciate being able to give feedback if we do not agree with what is being planned.

Bonny Bryant

From: [REDACTED]
Sent: March 2, 2019 9:57 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: Re: Question on Parking spaces on Fir St Alleyway

Hi Bonny,

Thank you for including us on the future development of the green space off Fir Street.

I would like to echo some of the other resident's sentiments in keeping as much green space as possible. We are not in favour of converting green space for parking. I would also ask for more stringent control of the laneway parking that is currently happening off of the Fir Street laneway as someone parks in front of our property on a daily basis.

Thank you,

[REDACTED]

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Bonny Bryant

From: [REDACTED]
Sent: March 1, 2019 5:15 PM
To: Bonny Bryant
Cc: [REDACTED]
Subject: Re: Question on Parking spaces on Fir St Alleyway

Hi Bonny and Board Members,

When we leased the lot at [REDACTED] we were assured that the green space would remain to act as a buffer between the back of our home (bedroom side) and the main beach parking lot and Adventure Park.

As you are aware, the stand of trees has taken a beating over the past 3 or 4 winters. We have plead park staff for as many years, to help us clean up this space and replant our buffer. We have also just recently received the promised bollards, to prevent parking in the green space.

Although we are aware there is a shortage of parking in the park, we strongly oppose the further reduction of our buffer. The main beach parking lot is already a dirt track course in the summer for some local drifters and the Adventure Park is like living next to Wally World. The last thing Elsa and I want is additional traffic racing through the back lane and parked cars coming and going at all hours.

The speed bumps in the lane were also recently installed, because speeding cars and little children playing back there, is just an accident waiting to happen.

We know this probably reads as a somewhat aggressive response, but the buffer has been a source of frustration, for many of us, for some time.

We oppose the reduction of our buffer space for additional parking.

Best regards,

[REDACTED]
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Katrina Craig

From:

Sent:

Sunday, March 10, 2019 12:55 PM

To:

Cc:

Subject:

sharon@bimbaravetta@gmail.com, Braden, Carey, David

Re: Question on Parking spaces on Fir St Alleyway/Greenspace Revitalization

[REDACTED]

[REDACTED]

We am unsure if we have received all of the information with the changes Brenda Senft has recently made. The start of the area truly starts at the post office boxes and then around the lane. Many dead trees have been cut down reducing the buffer to the adventure park (which we did not know was being created at the time of purchasing the lot). However recently trees have been placed in that area to help improve the buffer. The area behind our residence is frequently used for people to urinate, smoke cigarettes and marijuana in the summer months. Placing the portable washroom helps to alleviate some of the issue.

I am unsure as to why there is a need for pathways in the green space but am not completely opposed to it. However any access from Parking Lot B to the green space would further create foot traffic in that area.

As for parking in the lane way the 2 spots across from 712/711 (301/302 civic address) would be in the area of an embankment and would require a geotechnical engineering survey to determine the stability in an area that needs more stability than creating more issues.

As for the Upper end of Fir lane and creating parking it would only work if it is similar to Lakeshore where specific homes are given additional parking. If it is left open for public use it will create more traffic in the lane which has been an issue since day one of the creation of these 14 residential lots. The lane is not an engineered roadway that I am aware of and it is starting to show wear in different locations due to traffic and often large weighted vehicles.

We are grateful to the Park office and Brenda Senft and her team in wanting to improve the green space in the back of Second/Fir Streets. Thank you Bonny for starting the dialogue and including the affected residence and giving us all an opportunity for input. [REDACTED]

[REDACTED]

[REDACTED]

>

Rachel Litchfield

From: [REDACTED]
Sent: Monday, March 04, 2019 11:33 PM
To: Bonny Bryant
Subject: Re: Question on Parking spaces on Fir St Alleyway

Hi there I live at [REDACTED] I have no problem with the parking as long as it's not on the corner directly behind me ...
👍. Thanks [REDACTED]

Sent from my iPhone

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Bonny Bryant

From: [REDACTED]
Sent: March 3, 2019 9:03 AM
To: Bonny Bryant
Subject: Re: Question on Parking spaces on Fir St Alleyway

Yes for residential use only
Regards
[REDACTED]

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Bonny Bryant

From: [REDACTED]
Sent: March 3, 2019 10:19 AM
To: Bonny Bryant
Subject: Re: Question on Parking spaces on Fir St Alleyway

We don't have a problem with converting some of the green space into parking spaces as long as your not going to put the expense of doing that onto the residents that back onto the alleyway.



CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0550

SUBMITTED BY: Bonny Bryant,
Chief Administrative Officer

SUBJECT: Star Nation Canoe Club (Stó:lō Nation) Canoe Storage

PURPOSE:

To present options to the Board with respect to possible canoe storage for Star Nation Canoe Club.

RECOMMENDATION:

***THAT** the Cultus Lake Park Board approve one of following options for canoe storage for the Star Nation Canoe Club:*

1. Sunnyside Campground (Group Camping site A)
2. A location next to the 76 Sunnyside Blvd. - previously the Sailing Club Storage building
3. That no location be provided at Cultus Lake Park

Further that the Cultus Lake Park Board not permit a covered area and post and beam shelter. A fenced area will be permitted.

BACKGROUND:

In August, 2018 staff received a letter from Star Nation Canoe Club (Stó:lō Nation) requesting a safe place to store their traditional war canoes at Cultus Lake Park. The Club also asked to make a presentation to the Cultus Lake Park Board.

At the August 15, 2018 Cultus Lake Park Board meeting Theresa Warbus-Point, Gwen Point and Steven Point invited the Board to partner with them in seeking a canoe storage site close to Main Beach appropriate for housing their eight to twelve canoes. The following motion was passed:

4243-18 Moved by: Commissioner Renwick Seconded by: Commissioner Bauer

THAT the Cultus Lake Park Board directed staff to explore and establish a relationship with the members of the Star Nation Canoe Club to find a suitable location for their canoe storage and report back to the Board.

CARRIED

DISCUSSION:

In the fall of 2018 staff met with Theresa Warbus-Point and Chelan Charlie to discuss canoe storage, the Club's needs and potential sites. Generally the Club requires space to accommodate a 20m x 6m covered, post and beam shelter enclosed with secure fencing. Since last fall, additional opportunities became available and on February 7, 2019 the Chief Administrative Officer and Staff met with Gwen Point and Chelan Charlie to view the potential sites below:

1) Main Beach – the grass area near the Sweltzer Creek (Attachment #1)

This location was requested by the Club and described to staff as their ideal location given the proximity to the water, availability of parking and playgrounds and access to the west side of the lake where paddlers frequently train. Staff understands this site's appeal but is uncomfortable:

- Building on this portion of the Park's core;
- encouraging watercraft use within designated swim only areas; and
- Anticipating conflict with the high level of recreational use at this site.

2) Main Beach – Green space near the 2nd Avenue and south of Main Beach (Attachment #2)

This grassy location was identified by the Club as suitable and further examination of the site is required including but not limited to: tree removal, availability of room for future expansion should the Board field additional requests and consideration of proximity to residential areas.

3) A location next to the 76 Sunnyside Blvd. - previously the Sailing Club building (Attachment #3)

Staff anticipates this optimal location will:

- Minimize loss of green space and disruption to residential areas;
- afford opportunity for expansion should the need arise;
- provide ease of access via Parking Lot B and Main Beach's south service road; and
- Align with immediately adjacent use of the Sailing Club building.

At the February 20, 2019 Board meeting Chair Lamb referred the report back to staff to invite the Commissioners to undertake a walkabout to discuss the pros and cons for each proposed site and that a report be prepared for the next meeting.

Commissioners Lamb, Payeur and Smit met with the CAO on March 14, 2019 to view various sites. It was suggested that three sites be brought back to the board for consideration as follows:

1. Sunnyside Campground Group Site A

This is the area that a number of paddling/sailing groups presently use. (See attachment #4). It has direct access to the lake.

The issue would be that if more canoe storage was added to this area the group site would not be available for camping.

A solution to this situation would be to move Group Site A to the Rec Bowl (Attachment #5). This would be an ideal site for a Group Site as it would occupy an area that is presently

underutilized. It is beside a washroom and has ample parking on both sides of the road (attachment #6). In addition there is a playground beside the site and it is on the waterfront (attachment #7). With the larger site which can accommodate up to 100 people, staff would be able to rent it out for a higher price.

This is staff's preferred option.

2. A location next to the 76 Sunnyside Blvd. - previously the Sailing Club storage building (Attachment #3)

This optimal location will:

- Minimize loss of green space and disruption to residential areas;
- afford opportunity for expansion should the need arise;
- provide ease of access via Parking Lot B and Main Beach's south service road; and
- Align with immediately adjacent use of the Sailing Club building.
- Is relatively close to the main beach.

The drawback would be its proximity to the residential area. Understory such as blackberry bushes would have to be removed to accommodate this use.

3. No location be provided

Although this option is presented it would not be well received. Cultus Lake Park has limited area that can be provided for this type of use. If Cultus Lake Park receives further requests of this nature our options are finite.

STRATEGIC PLAN:

This report does not impact the Cultus Lake Park Board's Strategic Plan Initiative.

Prepared by:

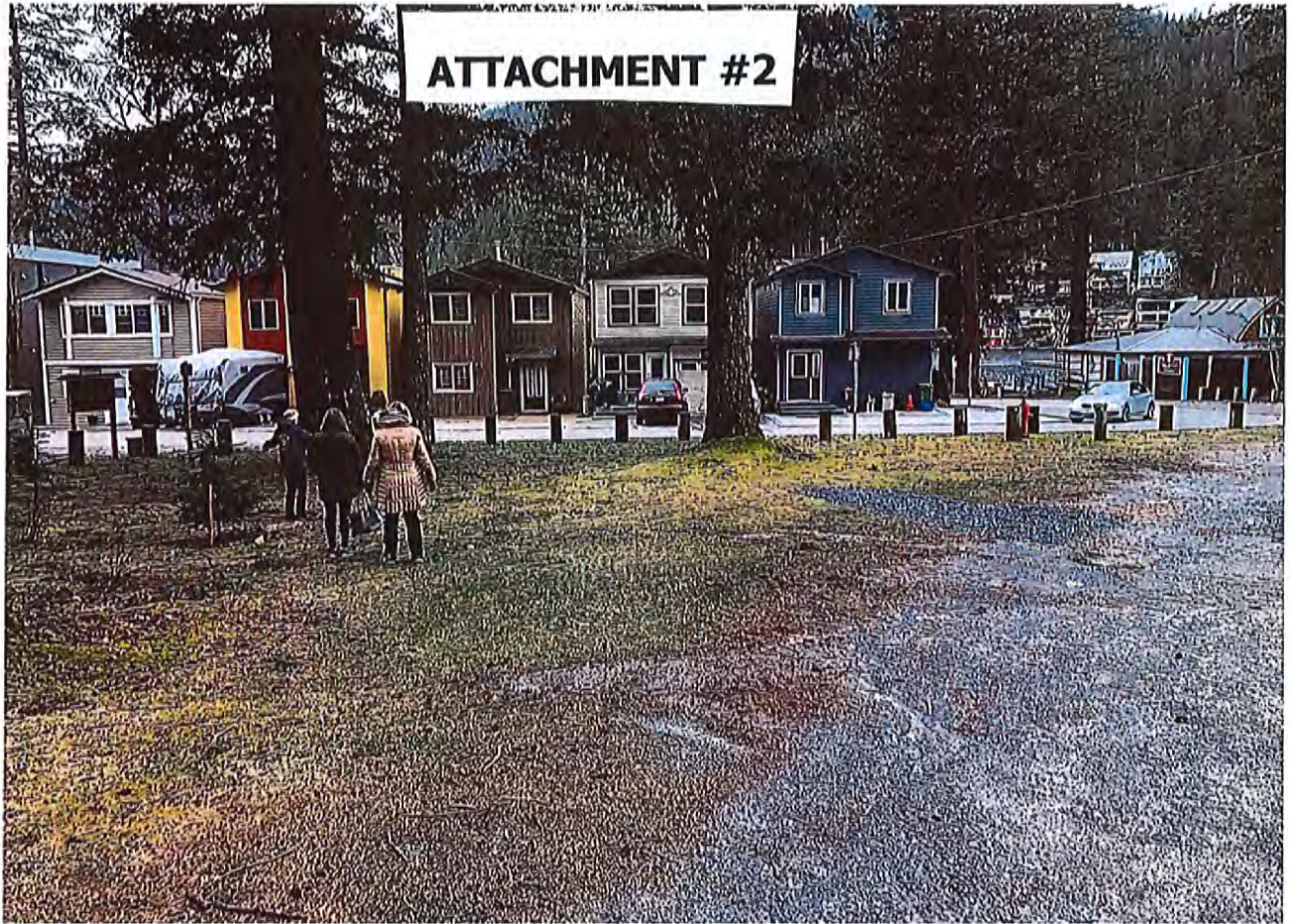


Bonny Bryant
Chief Administrative Officer

ATTACHMENT #1



ATTACHMENT #2



ATTACHMENT #3



Attachment # 4



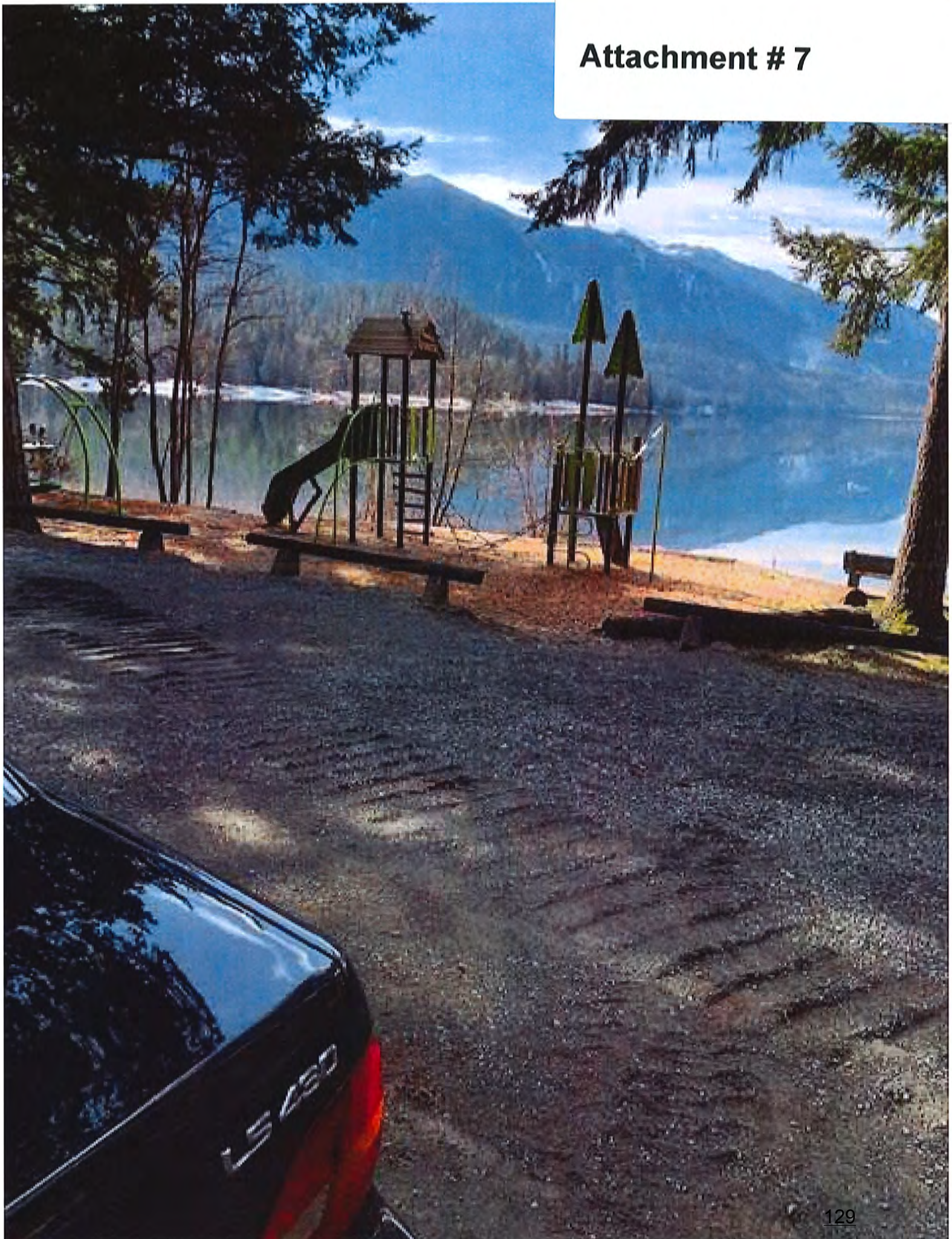
Attachment # 5



Attachment # 6



Attachment # 7





CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0550

SUBMITTED BY: Paul Holman
Special Events Coordinator

SUBJECT: Special Event – Western Canoeing & Kayaking 3rd Annual Event:
Paddle Expo 2019

PURPOSE:

To provide the Board with information relating to the Special Event application for the Western Canoeing & Kayaking 3rd Annual Paddle Expo, proposed to take place on April 28, 2019.

RECOMMENDATIONS:

THAT the Cultus Lake Park Board receive the report for information.

DISCUSSION:

After approving the original recommendations listed on page two of this document at their February 20, 2019 meeting, the Board requested:

THAT staff be directed to contact Mr. Kosub, owner of Main Beach Boat Rentals to inform him of the event and to report back to the Board at the March 20, 2019 meeting providing comments from Mr. Kosub, owner/operator of Main Beach Boat Rentals.

As Mr. Kosub is on vacation and not available, I spoke with Gage at Main Beach Boat Rentals, on March 4, 2019 to advise that:

- Paddle Expo will be on April 28 from 7 a.m. – 5 p.m.
- They expect 300+ participants, plus 30-40 volunteers, plus others coming to the event.
- Paddle Expo requested that Lakeside Beach Club serve burgers and wraps.

Gage said that the event went quite well last year and has no concerns for this year's event. Gage said that he would connect with Geoff regarding the phone call and Gage expects that they will be open for the event.

Similar to last year, Main Beach Boat Rentals would like the event to be held away from the beach on their side of the main dock. They also requested that the event organizers are prohibited from launching any boats from that side of the dock.

I have informed the organizer of Paddle Expo twice about this requirement and she replied that she doesn't have any issue with it.

Below is information from the original Report/Recommendations to the Board document, in case additional information on the event is needed.

RECOMMENDATIONS:

THAT the Cultus Lake Park Board approve the request from the Western Canoeing and Kayaking to have Lakeside Beach Club provide burgers and wraps for sale to event participants and the public;

THAT the Cultus Lake Park Board approve the request from the Western Canoeing and Kayaking to use propane fire pits on Main Beach.

DISCUSSION:

Western Canoeing & Kayaking's event organizer has applied for Special Event approval for their 3rd annual Paddle Expo, proposed to take place on April 28, 2019. After having successful events in 2017 and 2018, they are looking forward to this year's event.

This year, they would like to once again include food sales by Lakeside Beach Club and use propane fire pits on Main Beach for the comfort of the volunteers and participants, in case it's a cold day. They also feel that having a roving megaphone to announce when and where events are happening helps participants effectively find all activities.

The estimated number of participants, spectators and volunteers is 340. Event participants will be made aware that parking fees are in effect. Professional first aid attendants will be on site for the event duration. Event organizers and volunteers will be responsible for garbage removal during and after the event.

Event organizers are required to submit general liability insurance, naming Cultus Lake Park as an additional insured for \$5 million, at least 5 days prior to the event date.

The fee for the event for 200+ people is \$500, due at least 5 days prior to the event date.

A \$1,000 security deposit is required at least five days prior to the event date.

The \$100 Special Event Application Fee has been paid.

An event map is required at least five days prior to the event date.

The event organizer has confirmed that the event will not go past the dock nearest to Main Beach Boat Rentals and Concession.

The event will have approximately 12 tents on Main Beach.

The event plans to have one to two vehicles on Main Beach displaying vehicle roof racks for kayaks.

The event plans to use a megaphone to announce when and where events are happening and a sound system to be used to play background music, between 10 a.m. and 3 p.m.

As there were no damages and the grounds and facilities were left in good condition from the 2017 and 2018 events, staff recommends that this event be approved by the Cultus Lake Park Board for 2019.

STRATEGIC PLAN:

This report does not impact the Cultus Lake Park Board's Strategic Plan Initiative.

Prepared by:



Paul Holman
Special Events Coordinator

Approved for submission to the Board:



Bonny Bryant
Chief Administrative Officer



CULTUS LAKE PARK

REPORT/RECOMMENDATION TO BOARD

DATE: March 20, 2019 **FILE:** 0360

SUBMITTED BY: Darcy Bauer,
Chair, Environmental and Public Areas Planning Committee

SUBJECT: Recommendations from the Environmental and Public Areas Planning Committee

PURPOSE:

The purpose of this report is to provide the recommendations from the March 8, 2019 meeting of the Environmental and Public Areas Planning Committee.

RECOMMENDATIONS:

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the attached foreshore tree planting plan.

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the following Non-Indigenous trees, not on the Approved Tree Replacement List of the Cultus Lake Park Tree and Plant Bylaw No. 1091, 2018: *Ginkgo biloba* 'Maidenhair', *Pyrus calleryana* 'Chanticleer', *Tilia Cordata* 'Little Leaf Linden', *Acer platanoides* 'Royal Red' and *Metasequoia glyptostroboides* 'Ogon' for planting along the foreshore.

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve that residents along the foreshore be consulted with respect to the tree planting.

THAT the Environmental and Public Areas Planning Committee request the Cultus Lake Park Board to approve the relocation of one (1) memorial tree, including plaque and one (1) standalone memorial post to a memorial garden grouping and that the respective family's be consulted regarding the relocation of the memorial trees and plaques.

DISCUSSION:

At the March 8, 2019 meeting of the Environmental and Public Areas Planning Committee a discussion was had regarding tree planting along the foreshore. See attachment #1 and #2.

The reasoning behind the tree recommendations that are being requested are, that they are locally grown, deciduous, high canopy form for shade, walk under, view under, disease resistant, wind resistant, hardy, appropriate to site, attractive seasonal color, low maintenance, long lived and suited to natural environment.

The committee felt the grouping of the memorial trees, plaques and posts would be more visibly pleasing and provide better protection for the trees.

Prepared by:

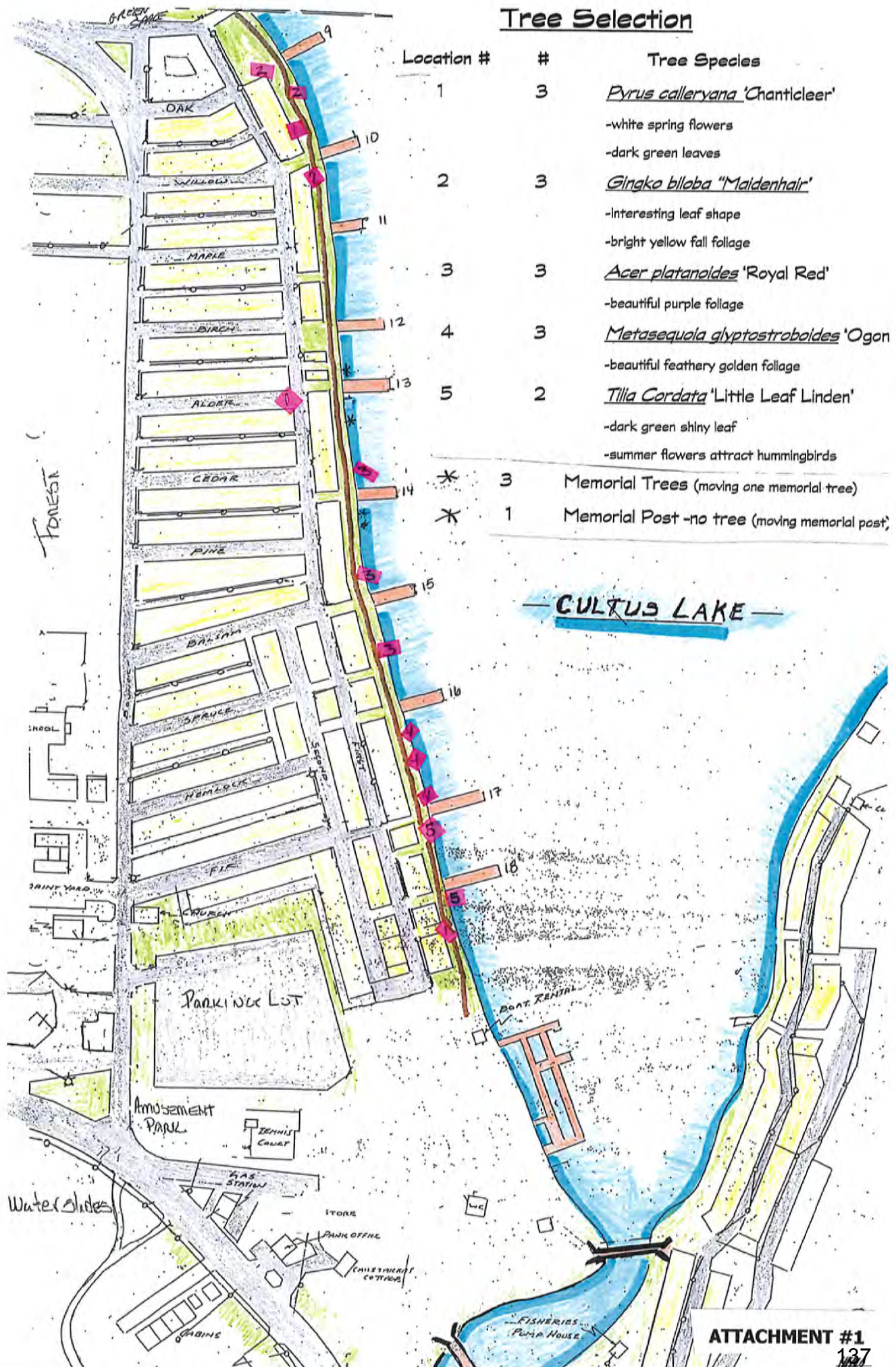
Approved for submission to the Board:

Commissioner Bauer,
Chair, Environmental and Public
Areas Planning Committee



Bonny Bryant
Chief Administrative Officer

Tree Selection





Ginkgo biloba "Maidenhair"

-interesting leaf shape

-bright yellow fall foliage



Pyrus calleryana 'Chanticleer'

-white spring flowers

-dark green leaves



Tilia Cordata 'Little Leaf Linden'

-dark green shiny leaf

-summer flowers attract hummingbirds



Acer platanoides 'Royal Red'

-beautiful purple foliage



Metasequoia glyptostroboides 'Ogon'

-beautiful feathery golden foliage