



Cumberland Community Forest Society
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May 20th, 2019

Mr. David Frisch
Chair, Comox Valley Water Committee
Comox Valley Regional District

On behalf of the Cumberland Community Forest Society, I am writing to formally request the support of the Comox Valley Regional District for the acquisition of 91.7 hectares (226 acres) of land alongside and including Perseverance Creek from Allen Lake to Comox Lake Road as part of Watershed Protection efforts underway in the Comox Lake Watershed.

1. Project Location

Village of Cumberland, Comox Valley, K'omoks First Nation Territory, Eastern Vancouver Island Ecoregion, British Columbia. The 91.4 hectares included in Project Perseverance will be subdivided from three master parcels (PID 003-634-167; 006-515-584 and 006-642-497) to create a new parcel connecting Allen Lake to Comox Lake. The legal survey in support of this subdivision has been completed.

The land acquisition for which we are seeking support is described informally as 4 zones:

- Zone 1 Lands directly below Allen Lake (the southernmost land in the proposed upcoming acquisition) that have been identified by Eco Fish as suitable for culvert replacement and wetland creation to help mitigate high flows.
- Zone 2 Lands along both sides of the Perseverance Creek Canyon.
- Zone 3 Lands that form the forested slope above Perseverance Creek along China Creek Trail and the extensive floodplain forest below.
- Zone 4 Forest lands and significant riparian areas directly adjacent to and including Perseverance Creek behind Japanese # 1 Townsite/Coal Creek Park to Comox Lake Road.

2. Watershed Protection and Climate Adaption

The project supports regional climate change adaptation through the protection and restoration of watershed systems to:

- Mitigate impacts to drinking water from increasing winter weather events,
- retain water and slow water release during drought conditions and
- provide ecosystem services for the region through supporting the quality and sustainability of drinking water resources.

Project Perseverance will ultimately protect the entire riparian corridor of Perseverance Creek from Allen Lake to Comox Lake, the drinking water supply for over 45,000 Comox Valley residents. In recent years, frequent boil water advisories due to sedimentation during high precipitation events have called the quality of this drinking water supply area into question. Industrial logging has also been implicated as a causal factor in sedimentation.

Protecting generous riparian buffers alongside major tributaries has been recommended by scientists in the CVRD's Watershed Protection Plan as a means to prevent sedimentation problems. The Comox Valley Regional District is spending \$110M on a deep-water intake, UV disinfection and filtration system. Protecting the forests within the watershed can reduce maintenance costs and extend the lifespan of this infrastructure.

3. Watershed Protection Plan

The **Comox Lake Watershed Protection Plan** (WPP 2016) provides clear rationale for CVRD participation in this acquisition including:

- a. Executive Summary Hazards to Watershed- High Risk Rating (WPP p. 6)
- Timber harvesting - cutblock locations and extent

The lands in question for harvesting are directly adjacent to and above Perseverance Creek. Comox Timber has walked these lands with us and confirmed their plans to extract timber adjacent to and upslope from Perseverance Creek leaving the minimum 10 meter buffer as required by the Private Managed Forests Land Act. The riparian areas (that provide an ecological service in preventing erosion and supporting filtration) identified in the **Perseverance Creek Fish Habitat and PFC Assessment** far exceed this 10 meter buffer.(map attached)

- b. Executive Summary Key Recommendations (WPP p.7)
- "Should land be available for sale within the Comox Lake Watershed, the CVRD should purchase that land to gain additional control over the water supply. Priority should be given to those portion of lands within the Village of Cumberland that are not within the CVRD's zoning jurisdiction and any properties that directly border Comox Lake."

- c. Appendix 1 (WPP p. 57)
- Hazard 13 - Timber Harvesting. Comments and Recommendations.
 - "Ensure that adequate riparian buffers are maintained to protect and stabilize stream banks during expected extreme weather events, including more frequent intense rainstorms, regardless of fish status and including headwater streams"
 - No harvesting should occur in riparian buffers in order to permit regeneration of trees, especially in legacy harvesting areas.

4. Perseverance Creek Fish Habitat and PFC Assessment

A recent report from **EcoFish Research (2018)** had designated Perseverance Creek as **'functional at risk'** and also provided the following recommendation to supports protection and restoration of this system. These recommendations apply to the lands currently slated for acquisition.

Executive Summary

- a) “High flows can be mediated by timber retention (especially of riparian habitat) and wetland creation” (p. iii) Suitable locations for wetland creation may exist at the base of the Allen Lake overflow and upstream of the Davis Lake Main Bridge and the lower floodplain reaches near the Comox Lake Road Bridge.”
- b) “Undersize culverts and can be replaced with appropriately styled and sized culverts to facilitate fish passage and reduce erosion.”
- c) “Bank erosion can be remediated by armouring with carefully planned and sited vegetation planting, boulders and LWD”

The Eco Fish Report also provides a list of recommended research activities to determine turbidity sources and relevant bank stabilization projects, opportunities for water attenuation in the Cumberland wetlands, wetlands creation, instream flow targets and more.

5. The Unique Opportunity

This acquisition is a unique opportunity for the Comox Valley Regional District. Rather than holding responsibility for the total purchase, protection and management of these lands within the Comox Lake Watershed, the CVRD has the opportunity to engage in a significant partnership with the Cumberland Community Forest Society, Village of Cumberland, CV Land Trust and other key community partners.

Funding: the CCFS is well positioned and will have 50% of the acquisition funds in place to complete this acquisition and is currently seeking support for the remaining 50%. The requested contribution from the CVRD is for less than 30% of project costs.

Community Support: The CCFS has significant support from residents (and taxpayers) from across the community (across the Comox Valley) for their efforts to protect these land. This support come from diverse communities including conservation and habitat protection, sport and recreation, and watershed protection. This project reaches beyond the residents of the Village of Cumberland. It is understood that Perseverance Creek forms part of the Comox Lake Watershed and that we share the responsibility for watershed protection in the Comox Valley as a whole.

Covenant Protection: Lands purchased and protected by the CCFS to date have been protected through the application of a conservation covenant to ensure their protection of these lands in perpetuity. This Section 219 conservation covenant (*Land Act*) ensures a plan for long term monitoring of the lands and stability regardless of changing political or economic contexts.

Restoration Partners: Land purchased will be ready for next steps! Recent research projects have outlined next steps for a restoration prescription and the CCFS is ready apply for funding to work with our municipal and conservation partners to develop a restoration strategy that will benefit the Perseverance Watershed, the Comox lake Watershed as a whole.

6. Overall Project Budget

Land Acquisition (land plus timber) cost is \$2.6 million. Associated costs for covenant registration, survey, subdivision, restoration plan development, project management and legal fees \$200,000. Total project costs - \$2,800,000.

Request from the CVRD: to support acquisition for Zone 2,3 and 4 \$500,000

Request from the CVRD to support acquisition of Zone 1 \$200,000

Request from CVRD to support restoration plan development \$50,000

7. Detailed Project Description and Background

Project Perseverance is an initiative of the Cumberland Community Forest Society (CCFS) to acquire and protect 226 acres (91.7 hectares) of wetlands and riparian areas alongside and including Perseverance Creek in the Village of Cumberland on Vancouver Island. This purchase will add to the existing 110 hectares (270 acres) protected by the CCFS in 2005 and 2016. These lands are adjacent to, and provide connectivity with, Cumberland's Coal Creek Historic Park (41.6 hectares/102.8 acres) and Village of Cumberland Watershed Lands (229 Ha/566 acres) bringing the total protected land-base to 471.4 hectares (1164.8 acres).

This land protection effort is part of a larger effort that includes subsequent purchases of adjacent lands to the North (lower Perseverance Creek- 55 acres) and the East (Middle Earth – 80 acres) of Project Perseverance. These lands connect to additional protected areas at Comox Lake and will eventually bring the contiguous protected area to 1300 acres.

The CCFS has been purchasing and protecting privately owned industrial forest lands scheduled for logging on the east coast of Vancouver Island since the year 2000. These lands are removed from the timber harvesting land base and protected in perpetuity for the conservation of biological diversity and watershed protection. Lands acquired by the CCFS to date are protected by a comprehensive conservation covenant held by the Comox Valley Land Trust.

Project Perseverance is guided by the principles of collaboration and collective action. Project Perseverance is a cooperative effort between local government (Village of Cumberland, Comox Valley Regional District), private timber companies (Hancock Resource Group), the community (recreation and conservation partners), other ENGO partners (Comox Valley Land Trust, Courtenay Fish and Game Protective Association, Comox Valley Conservation Partnership) and our society (the CCFS).

The lands targeted for conservation have been determined through a planning process between conservation partners identifying sensitive ecosystems, species at risk, threats to ecological integrity (harvesting), watershed protection, climate adaption, opportunities for habitat restoration, connectivity with adjacent protected lands, community interest and alignment with local and regional watershed protection, parks and greenways strategies. The development of future conservation covenants will be done in consultation with ENGO Partners, local government and the K'omoks First Nation Guardian Program.

Acquired lands to date have been protected by a Section 219 conservation covenant (*Land Act*), registered in favour of the Comox Valley Land Trust, and then transferred to, and managed by, the Village of Cumberland as parkland. Future acquisitions will be reviewed to ensure parkland is the appropriate designation.

8. MNAI Alignment

This project strongly aligns with the opportunities presented by the Municipal Natural Assets Initiative (MNAI) Comox Lake Watershed Project. The MNAI team is currently lending scientific, economic and municipal expertise to support and guide the CVRD in identifying, valuing and accounting for natural assets offered by the Comox Lake Watershed and the sustainable and climate resilient infrastructure services they provide.

The inaugural steering committee meeting in March 2019 identified Perseverance Creek as a strong candidate for the focus on this project due to pending land ownership transfer, direct connection to turbidity issues, clear restoration opportunities and availability of up to date data/information (PFC, Land Valuation, Timber Valuation, Sensitive Ecosystems Inventory Data, Baseline Inventory Data)

9. Conservation Priorities

Project Perseverance is part of both the Trent and Puntledge River watersheds and is an important link in a habitat corridor that connects Vancouver Island's mountains and lakes to the Salish Sea. These dry maritime Coastal Western Hemlock forests on eastern Vancouver Island (CWHxm1) are a significant conservation priority for organizations including the Nature Conservancy of Canada, the Coastal Douglas-fir Conservation Partnership, the Canadian Wildlife Service and the Comox Valley Conservation Partnership. With less than 1% of these forests remaining as old growth (>250 years) in our region it is critically important to protect mature second-growth forests to enable old-growth recruitment.

Project Perseverance contains forest, wetlands and riparian areas adjacent to Perseverance Creek, a salmon bearing tributary to Comox Lake. The area also includes important biodiversity corridors identified in 2013 and 2017 by the Comox Valley Land Trust's as the highest priority for protection in the region. The adjacency of Project Perseverance to existing protected areas makes it a valuable conservation investment. Concurrent regional efforts to protect lands around Comox Lake, Maple Lake, in the Morrison Headwaters, and down the Puntledge River to the estuary make this project a significant contribution to a landscape-scale conservation vision.

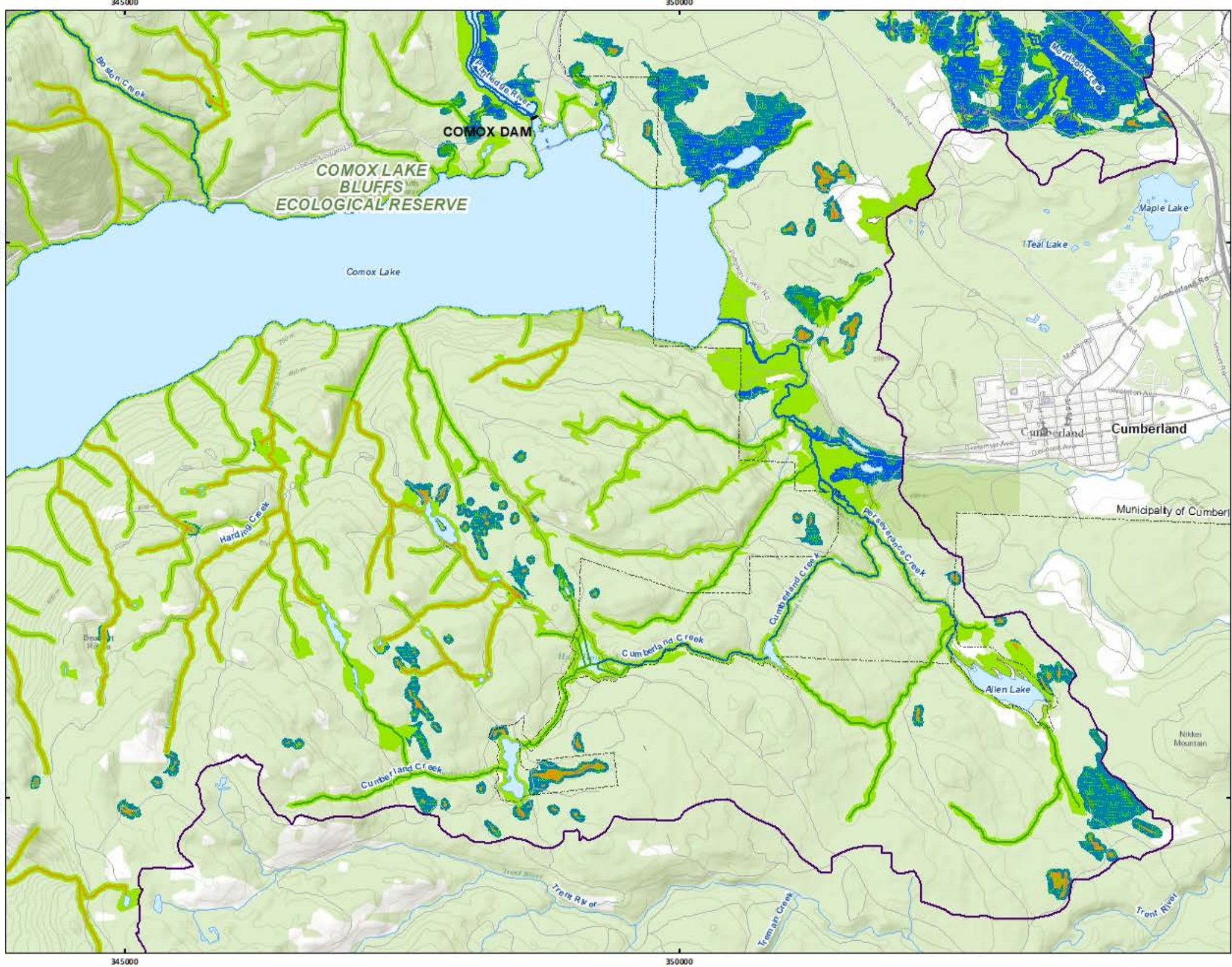
Project Perseverance protects an interconnected system of forests, creeks, wetlands and riparian areas, home to numerous species at-risk, and identified by the Sensitive Ecosystems Inventory (SEI) as containing rare and intact ecosystems including mixed, coniferous and broadleaf forests, wetlands and watercourses and forests that protect riparian and aquatic habitats. If allowed to age, these habitat corridors can reconnect the Salish Sea to higher elevation areas in the Beaufort and Vancouver Island Mountains and link existing sensitive ecosystems and protected areas to allow wildlife and species at risk (e.g., Little Brown Myotis,

Olive-sided flycatcher, Common Nighthawk, Townsend's Big-eared Bat, Roosevelt Elk, Western Screech-Owl and Red-legged Frog) to migrate and adapt to climate and landscape-scale changes.

10. In Conclusion

Please let me know if there is any other information I can provide to support this request.

Meaghan Cursons,
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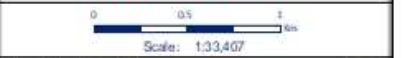
RWCP PUNTLEDGE WATERSHED
RIPARIAN AND WETLAND PRIORITIZATION

Fish-bearing Model for Perseverance Creek

- Legend**
- Stream Fish-bearing Status**
- Observed Habitat
 - Inferred Fish Habitat
 - Inferred Non-Fish Habitat
 - Unclassified
- Wetland Fish-bearing Status**
- Observed Habitat
 - Inferred Fish Habitat
 - Inferred Non-Fish Habitat
- Modelled Habitat**
- Riparian
 - Wetland
 - Stream
- Land Designations and Features**
- Puntledge Watershed Study Area
 - Municipal Boundary
 - Parks and Protected Areas



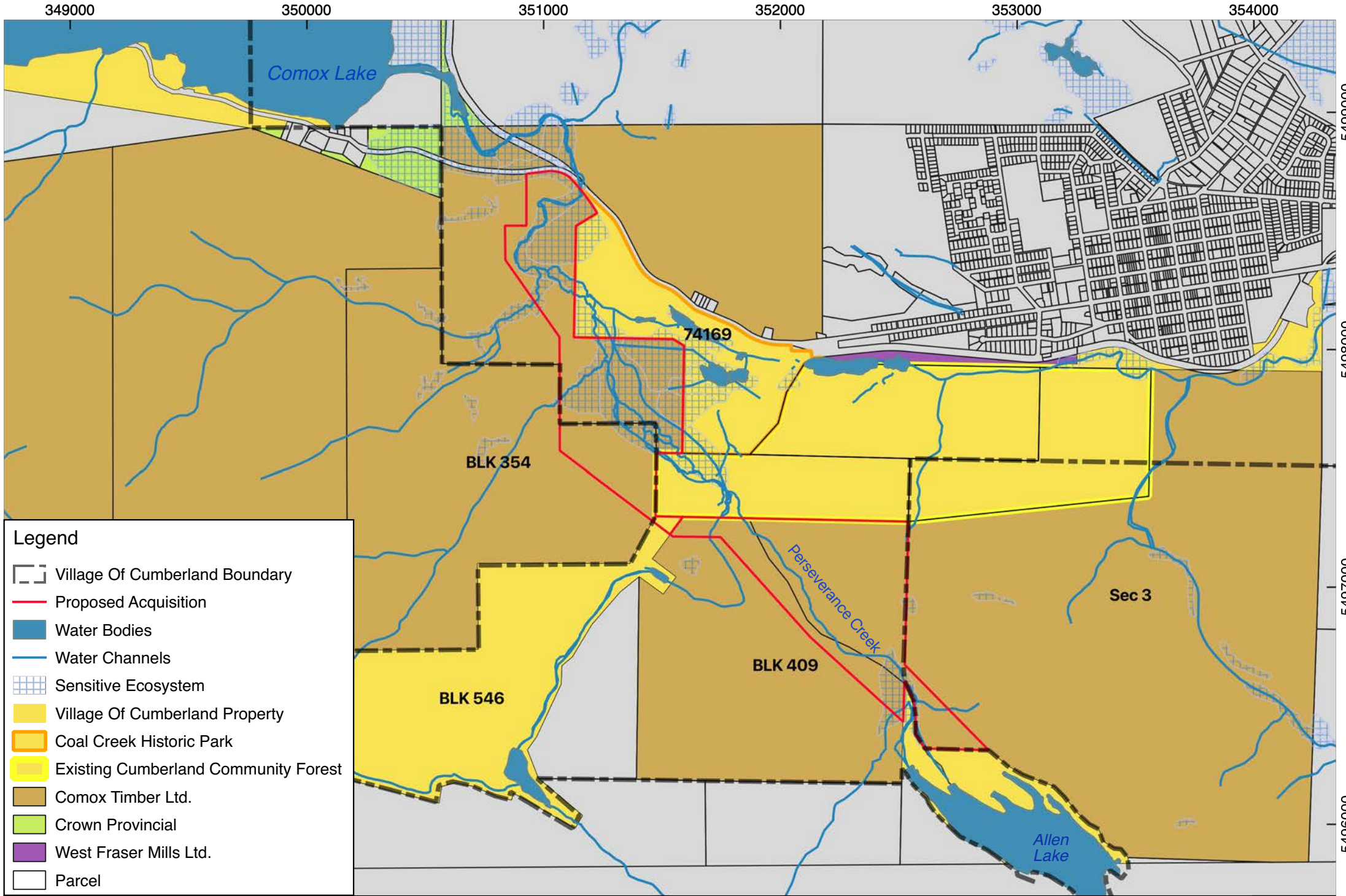
MAP SHOULD NOT BE USED FOR LEGAL OR NAVIGATIONAL PURPOSES



NO.	DATE	REVISION	BY
1	2018-10-26	1st. Model Results. Exp. 2017-2023 Copy	DAK
2			
3			
4			

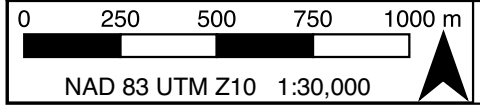
Data Source: 2015-02-28
Coordinate System: NAD 1983 UTM Zone 10N





Legend

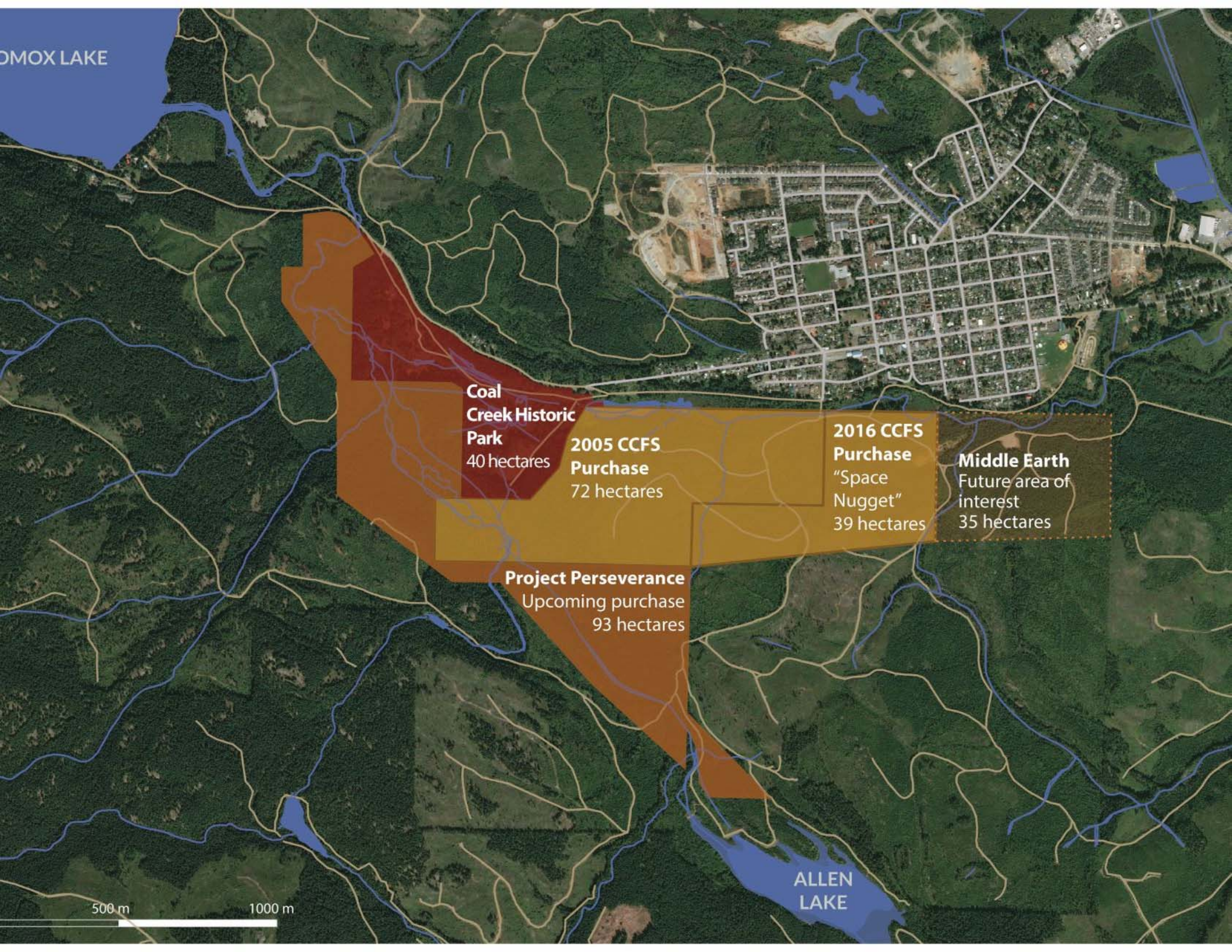
-  Village Of Cumberland Boundary
-  Proposed Acquisition
-  Water Bodies
-  Water Channels
-  Sensitive Ecosystem
-  Village Of Cumberland Property
-  Coal Creek Historic Park
-  Existing Cumberland Community Forest
-  Comox Timber Ltd.
-  Crown Provincial
-  West Fraser Mills Ltd.
-  Parcel



Cumberland Community Forest Society : Targeted Future Land Acquisitions



DMOX LAKE



**Coal
Creek Historic
Park**
40 hectares

**2005 CCFS
Purchase**
72 hectares

**2016 CCFS
Purchase**
"Space
Nugget"
39 hectares

Middle Earth
Future area of
interest
35 hectares

Project Perseverance
Upcoming purchase
93 hectares

ALLEN
LAKE

500 m

1000 m