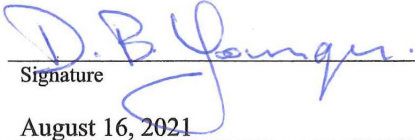


WOODLOT LICENCE # 0161

WOODLOT LICENCE PLAN

2021 to 2031

Younger Brothers Holdings Ltd.
P.O. Box 118
Quathiaski Cove, BC
V0P 1N0
Email: dyounger@telus.net
Phone: 250 202-1553



Signature
August 16, 2021

Authorized Licensee Signature:

Dave Younger

Print Name

Date

DISCLAIMER

This disclaimer forms part of the Woodlot Licence Plan (WLP) for Woodlot Licence #0161 and advises that:

- The decision to operate under one or more of the Practice Requirements provided in the Woodlot Licence Planning and Practices Regulation (WLPPR) is the sole responsibility of the woodlot licence holder.
- This disclaimer is signed on the explicit understanding that abiding by the Practice Requirements stated in Parts 3 and 4 of the WLPPR meets the expectations of government with respect to the management of woodlot licences;
- The undersigned Registered Professional Forester has been retained with respect to the practice of professional forestry as it pertains to alternative performance requirements, results, strategies, standards and measures presented in this WLP.

Name: John Marlow, R.P.F.

RPF # 2638

Contact phone number: 250-830-8099

Email: jmarlow@gicable.com

Seal:

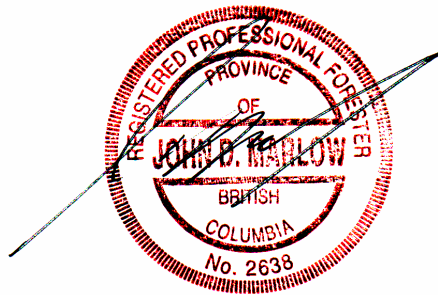


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I. WOODLOT LICENCE PLAN (WLP) REQUIRED CONTENT

PLAN AREA

This plan covers the entire Woodlot Licence area.

MAP AND INFORMATION

Information Item	Map	Text	N/A
Forest cover	X		
Topography (unless exempted by DM)	X		
Location and riparian class of streams, wetlands and lakes as shown on gov't endorsed forest cover maps, terrain resource inventory maps, & fish & fish habitat inventory maps	X		
Identification of fish streams on gov't endorsed maps	X		
Biogeoclimatic zones and subzones (unless exempted by DM)		X	
Public utilities (transmission lines, gas & oil pipelines, and railways)	X		
Special Situations that may not Apply to the WL area		X	
Resource Management Zones, Landscape Units or Sensitive Areas		X	
Wildlife Habitat Areas (unless exempted by DM)			X
Scenic Areas		X	
Ungulate Winter Ranges			X
Community Watersheds			X
Fisheries Sensitive Watersheds			X
Community and domestic water supply intakes			X
Contiguous areas of sensitive soils			X
Existing roads	X		
Temporary or permanent barricades to restrict vehicle access			X
Private property within or adjacent to the woodlot licence area	X		
Resource features other than wildlife habitat features and archaeological sites (unless the location of the resource feature is not to be disclosed)			X

BIOGEOCLIMATIC ZONES AND SUBZONES

The entire Woodlot Licence area is in the CWH wh1 (Coastal Western Hemlock, wet hypermaritime) biogeoclimatic subzone.

RESOURCE MANAGEMENT ZONES, LANDSCAPE UNITS OR SENSITIVE AREAS

The entire Woodlot Licence area is within the :
Lower Yakoun and Naikoon Landscape Units

HIGHER LEVEL PLANS

This WLP has been prepared in accordance with the following objectives set by government:
Haida Gwaii Land Use Objectives Order (HGLUOO)

WILDLIFE HABITAT AREAS

There are no WHAs located in whole or in part within the WLP area.

SCENIC AREAS

There is one or more scenic areas located in whole or in part within the WLP area.

An exemption has been granted: Yes No

A Visual Quality Objective (VQO) of Retention has been established adjacent to the NW corner of the Schedule B (Public Land) portion of Woodlot Licence W0161 along the Yellowhead Hwy. Any harvesting planned in this area will be specifically designed to meet the Retention VQO.

The VQO at the Schedule A blocks DL284 and DL501 is 'Preservation' as viewed from the Yellowhead Hwy and the marine environment. Any harvesting planned in this area will be specifically designed to meet the Preservation VQO.

There is no established VQO at the Rudd Island block of Woodlot Licence W0161.

UNGULATE WINTER RANGES

There are no Ungulate Winter Ranges located in whole or in part within the WLP area.

COMMUNITY WATERSHEDS

There are no Community Watersheds located in whole or in part within the WLP area.

FISHERIES SENSITIVE WATERSHEDS

There are no Fisheries Sensitive Watersheds located in whole or in part within the WLP area.

COMMUNITY AND DOMESTIC WATER SUPPLY INTAKES THAT ARE LICENSED UNDER THE *WATER SUSTAINABILITY ACT* AND ANY RELATED WATER SUPPLY INFRASTRUCTURES

There are no community or domestic water supply intakes or related water supply infrastructures within the WLP area or nearby that could be affected by operations carried out under this plan.

CONTIGUOUS AREAS OF SENSITIVE SOILS

- The WL holder is not aware of any contiguous areas of sensitive soils within the WLP area.

TEMPORARY OR PERMANENT BARRICADES THAT RESTRICT VEHICLE ACCESS

- At the time of preparing this WLP there were no permanent or temporary barricades on the WLP area to restrict vehicle access.

PRIVATE PROPERTY WITHIN OR ADJACENT TO THE WLP AREA

The location and boundaries of private land within or adjacent to the WLP area are identified on the map in Appendix 3.

RESOURCE FEATURES OTHER THAN WILDLIFE HABITAT FEATURES AND OTHER FEATURES WHERE THE LOCATION MUST NOT BE DISCLOSED

There are no “Resource Features other than Wildlife Habitat Features and other Features where the location must not be disclosed” wlocated within Woodlot Licence W0161. Prior to harvest, appropriate Archaeological or CMT surveys are completed and should any features be identified, the location of those features is forwarded to the Council of the Haida Nations (CHN) as proprietary information for CHN.

AREAS WHERE TIMBER HARVESTING WILL BE AVOIDED OR MODIFIED

1. Type I Fish habitat (HGLUOO s10) – As per HGLUOO, Type I Fish Habitat is protected and a minimum riparian reserve zone of 2 tree lengths will be maintained.
 - The width of the Reserve Zone may be increased or decreased by up to 0.5 tree length provided there is no net loss of reserve zone.
 - Within an individual development area, up to 5% of the total area of the reserve zone may be altered or removed providing that
 - The integrity of Type I fish habitat is maintained, and
 - The alteration is required for road or bridge construction and there is no practicable alternative.
 - Kumdis Creek and Millard Creek are specifically identified as ‘Type I Fish Habitat’ in the HGLUOO.

2. Type II Fish Habitat (HGLUOO s11) - As per HGLUOO, Type II Fish Habitat is protected and a minimum riparian reserve zone of 1 tree lengths will be maintained.
 - The width of the Reserve Zone may be increased or decreased by up to 0.5 tree length provided there is no net loss of reserve zone.

- Adjacent to the Type II Fish Habitat Reserve Zone, a Management Zone of 0.5 tree height is required.
 - The area of the Management Zone may be reduced up to 20%.
 - The combined area of Reserve Zone and Management Zone adjacent to Type II Fish Habitat may be reduced further providing that:
 - The alteration is required for road or bridge construction and there is no practicable alternative.
 - An assessment of the risk to the fish stream from the forest development is completed by a qualified professional,
 - The integrity of Type II fish habitat is maintained,
 - An adaptive management plan is developed and implemented, and
 - An intergovernmental process is completed.
3. Active Fluvial (HGLUOO s12) – Where operations occur adjacent to Active Fluvial Units:
- All forest within Active Fluvial Units is protected
 - Adjacent to Active Fluvial Units, a management zone of 1.5 tree lengths will be established to maintain the integrity of the Active Fluvial Unit.
 - Within an Active Fluvial Unit, the total amount of old forest and mature forest in the Management Zone may be reduced up to 10%
 - The Management Zone Area may be reduced by a further 10% providing that:
 - Sufficient functional riparian forest is retained to protect the integrity of the active fluvial unit, and
 - An adaptive management plan is developed and implemented.
4. Upland Stream Areas (HGLUOO s13)
- For upland streams that are direct tributaries to Type I and Type II Fish Habitat, retain sufficient vegetation to maintain streambank and channel stability.
5. Sensitive Watersheds (HGLUOO s14)
- There are no Schedule B Lands (public) containing Sensitive Watersheds (Schedule 7 HGLUOO) within Woodlot Licence W0161.
 - Rudd Island (Schedule A Private Lands included in Woodlot Licence W0161) is within a Sensitive Watershed (Schedule 7, HGLUOO).
 - Up to 5% of the watershed may be harvested in any 5-year period.
6. Forested Swamps (HGLUOO s15) – As all of Woodlot Licence W0161 is located with the CWH wh1 Biogeoclimatic Class, Forested swamps are field identified as site series 12 (CwSs-Skunk Cabbage) as identified in the ‘Field Guide for Site Interpretation and Identification – Coast Forest Region.
- All Forested Swamps >0.25ha are reserved from harvest

- Adjacent to Forested Swamps a Management Zone (MZ) of 1.5 tree lengths will be established.
 - Within the MZ a minimum of 70% of the forest will be maintained as mature or old forest
 - The amount of mature or old forest can be reduced to 60% provided that:
 - The amount of mature or old forest retained is sufficient to maintain the integrity of the forested swamp, and
 - An adaptive Management Plan is developed and implemented.
7. Ecological Representation (HGLUOO s16) – As per FRPA S13(3), ‘*A Woodlot Licence need not be consistent with Objectives Set by Government to the extent that those objectives pertain to retention of old forest*’. Younger Brothers holding has commenced communications with Taan Forest (pers communication w Jeff Mosher, Planning Manager, Taan Forest) and will provide spatial data to help attain retention levels for under-represented ecosystems.
8. Red and Blue Listed Ecosystems (HGLUOO s17)
- All occurrences of Red or Blue Listed ecosystems >0.25ha are protected
 - Up to 5% of the area of Red Listed ecosystems may be harvested if required for road access or to address a safety concern
 - Up to 30% of the area of Blue Listed ecosystems may be harvested if required for road access or to address a safety concern
 - Up to 30% of the area of Blue Listed ecosystems may be harvested if required providing an intergovernmental process is completed.
 - All retained areas under Section 8 of this WLP will be documented and submitted spatially to the Council of the Haida Nation and the Province of BC.
9. Black Bear Dens (HGLUOO s18)
- All black bear dens will be protected within a Reserve Zone with a minimum 20m width reserve around the den.
 - Removal or Black Bear dens may occur if:
 - An intergovernmental process is completed
 - The alteration or removal is required for road access or due to a safety concern
 - The alteration cannot occur during the winter hibernation season
 - A management zone with an average width equal to 1 tree length, measured from the outer edge of the reserve zone will be established at all bear dens.
 - Alterations or removals are permitted (outside of the winter hibernation season) to accommodate operational road and bridge requirements where no other practicable option exists
 - Alterations or removals are permitted (outside of the winter hibernation season) to mitigate the impact of windthrow

- All existing and newly discovered bear dens and areas reserved or managed for bear habitat will be documented and submitted spatially to the Council of the Haida Nation and the Province of BC.
- Where practicable, trees, snags, stumps, and logs >0.8m diameter will be retained for the recruitment of future denning habitat.

10. Marbled Murrelet Nesting Habitat (HGLUOO s19).

- There is no Marbled Murrelet included in Schedule 11, HGLUOO
- Communication received from Christine Rock, R.P. Bio, Ecosystem Biologist, HG Natural Resource District confirms that there is a exceedance of Class 1 and Class 2 habitat available and further retention is not required. Christine Rock email included in Appendix C (Copies of written comments received)

11. Northern Goshawk Nesting Habitat

- Within Woodlot Licence W0161, there is no Northern Goshawk habitat as identified in Schedule 12, HGLUOO
- If a Northern Goshawk nest is found anywhere in the Woodlot Licence:
 - The nest location will be reported to the Province of BC and the Haida Nation
 - A restricted activity zone will be established at 800m radial width from the nest location
 - A reserve zone of a minimum of 200ha will be established adjacent to the nest site that maximizes the best available nesting and foraging habitat, to protect the integrity of the site
- A Northern Goshawk Reserve Zone may be reduced providing that:
 - An intergovernmental process is completed
 - The reduction is required for road access where no other practicable alternative exists, or to address a safety concern,
 - The reduction does not occur during the Northern Goshawk breeding season,
 - There is no net loss to the Northern Goshawk reserve area.

12. Great Blue Heron Nesting Sites

- Where a Great Blue Heron Site is identified within the Woodlot Licence area, a reserve will be established with a minimum size of 45ha and a minimum distance of 350m from any nest site.
- A restricted activity zone of 350m will be established adjacent to any Great Blue Heron Reserve Zone.
- All Great Blue Heron Nest sites will be reported to the Province of BC and the Haida Nation.

13. Northern Saw Whet Owl nesting habitat

- Within Woodlot Licence W0161, there is no Northern Saw Whet Owl habitat as identified in Schedule 12, HGLUOO

- Where a Northern Saw Whet Owl site is identified within the Woodlot Licence area, a reserve will be established with a minimum size of 10ha.
- All Northern Saw Whet Owl Nest sites will be reported to the Province of BC and the Haida Nation.

14. Forest Reserves

- There are no Known Forest Reserves within Woodlot Licence W0161 as identified in Schedule 8, HGLUOO.

15. Rudd Island

- Consistent with the 2008 Woodlot Licence Plan for Woodlot Licence W0161, Rudd Island is recognized as a unique ecological feature. “Due to the unique ecological characteristics of Rudd Island, as well as engineering constraints to timber development, no harvesting is planned on Rudd Island. Any harvesting would be limited to very low impact systems as well as salvage” (from 2008 WLP).

RETENTION OF TREES IN A RIPARIAN MANAGEMENT ZONE

- Unless exempted or as provided for under WLPPR section 40, the Woodlot Licence holder will retain the following post-harvest stand structure in riparian management areas (RMAs):

Description of Post-Harvest Stand Structure to be Retained in Riparian Management Areas
100% retention at Reserve Zone. Retention levels at the Riparian Management Zone will be established site specifically.

CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES

The result or strategy applicable to the WLP area is as follows:

- Result:**
Should a CHR be made known the woodlot licence holder will, after due consideration of the factors listed in WLPPR, Schedule 1, Section 5, only carry out forest practices at a time and in a manner that will conserve and protect cultural heritage resources that are the focus of a traditional use by an aboriginal people that is of continuing importance to that people.

Strategy:

The following strategy is consistent with the Haida Gwaii Land Use Objectives Order (HGLUOO)

1. Cedar Stewardship Areas (HGLUOO s3)

- Within Woodlot Licence W0161, there are no Known Cedar Stewardship Areas identified in Schedule 3, HGLUOO

2. Cultural Feature Identification (HGLUOO s4)

- Prior to harvesting or road building at Woodlot Licence W0161, a field assessment for cultural features will be completed by a person certified by the Council of Haida Nations. The CFI Assessment will be provided to the CHN and will be treated as proprietary property of the CHN.

3. Haida Traditional Heritage Features (HGLUOO s5)

- Haida Traditional Heritage features are identified in Schedule 2, HGLUOO.
- All Class 1 Traditional Heritage Features will be protected
 - A Reserve Zone of 500m will be established adjacent to all Class 1 Traditional Heritage Features
 - The Reserve Zone adjacent to Class 1 Traditional Heritage features may be reduced providing that:
 - An intergovernmental process is completed, and
 - The reduction is for access or to address a safety concern and no other practicable alternative exists.
- All Class 2 Traditional Heritage Features will be protected
 - A Reserve Zone of 100m will be established adjacent to all Class 1 Traditional Heritage Features
 - The Reserve Zone adjacent to Class 2 Traditional Heritage features may be reduced providing that:
 - An intergovernmental process is completed, and
 - The reduction is for access or to address a safety concern and no other practicable alternative exists.
- The width of Reserve Zones for any Haida Traditional Feature may be decreased up to 0.5 tree length to address specific values providing there is no net loss of Reserve Area.
- All identified Haida Traditional Features will be documented and submitted as digital spatial data to the Province of BC and the Council of Haida Nation.

4. Haida Traditional Forest Features (HGLUOO s6)

- Haida Traditional Heritage features are identified in Schedule 2, HGLUOO.
- The integrity of all Class 1 Traditional Heritage Features will be protected
 - Adjacent to Class 1 Traditional Forest features, a Reserve Zone of 1 tree length from the feature will be established
 - Adjacent to the RZ for Traditional Forest features, a MZ of 1 tree length will be established to protect the integrity of the RZ.
 - The width of the MZ may be reduced to 0.5 tree length to address site specific values providing there is no net loss of MZ area.
 - The area of the RZ and MZ may be modified providing:
 - An intergovernmental process is completed, and
 - The reduction is for access, to address a safety concern, or to protect the feature from windfall, and

- an adaptive Management Plan is developed and implemented.
- The integrity of a minimum of 50% of all Class 2 Haida Traditional Forest Features that occur within a development area will be protected.
- A minimum of 50% of Indian Hellebore features will be maintained in stand level retention and
 - Maintain directional falling away from the feature
 - Retain non-merch trees around the features
 - Maintain and machine free zone around the feature.
- A Class 2 Haida Traditional Feature may be altered or removed providing:
 - The alteration or removal is required for road access or other infrastructure and there is no practicable alternative, and
 - An intergovernmental process is completed
- Haida Traditional forest features, RZs, MZs, and stand level retention will be documented and submitted as spatial data to the Province of BC and the Haida Nation.

5. Red and Yellow Cedar Retention (HGLUOO s7)

- Within Development Areas, a minimum of 15% combined pre-harvest composition of western red cedar and yellow cedar will be retained with a minimum area of 1.0ha where:
 - The development area exceeds 10ha and the combined pre-harvest red cedar and yellow cedar component exceeds 30%, or
 - The development area is less than or equal to 10ha and the combined pre-harvest red and yellow cedar component exceeds 60%.
- Where the pre-harvest component of red and yellow cedar exceeds 20%, regenerate the area to establish a composition of western red cedar and yellow cedar that are equivalent to the pre-harvest composition.
- All areas Red and Yellow Cw Retention Areas retained will be documented and submitted as spatial data to the Province of BC and the Haida Nation.

6. Yew Retention (HGLUOO s8)

- All western yew patches will be protected with stand level retention
 - Western yew patches may be altered or removed to accommodate road and bridge construction where no other practicable alternative exists.
- Where practicable, individual western yew trees will be included in Stand Level Retention (SLR).
- All Yew Retention Areas retained will be documented and submitted as spatial data to the Province of BC and the Haida Nation.

7. Culturally Modified Trees and Monumental Cedar

- All Cultural Cedar stands will be protected at Woodlot Licence W0161
- All Culturally Modified Trees (CMTs) will be protected at Woodlot Licence W0161
- All Monumental Cedar >120cm dbh will be protected at Woodlot Licence W0161

- Cultural Cedar Stands, CMTs, and Monumental Cedars >120cm dbh may be altered or removed providing:
 - An intergovernmental process is completed.
 - The alteration or removal is required for road or bridge construction or to address a safety concern, and no other practicable alternative exists, and
 - Any CMT, or Monumental cedar harvested will be provided to the Haida Nation
 - Monumental cedar not located within Cultural Cedar Stands and <120cm dbh, may be harvested provided that >10% (minimum 1) Monumental Cedar are retained within the Development Area, and it is confirmed through an intergovernmental process that:
 - The Monumental Cedar is not required for a cultural use, or
 - Harvest of the Monumental Cedar is required for road access or to address a safety concern. The Monumental Cedar will be made available to the Haida Nation or other specific measures will be identified.
 - Adjacent to Cultural Cedar Stands, CMTs, and Monumental Cedar that are protected, maintain a RZ with a minimum width of 0.5 tree lengths.
 - The RZ width can be reduced providing:
 - An intergovernmental process is completed
 - Alteration or harvesting is required for road access or to address a safety concern, where no other practicable alternative exists, and
 - The integrity of the Cultural Cedar Stand, CMT, or Monumental Cedar is maintained.
 - Adjacent to RZs, a MZ of 1.0 tree length will be maintained to protect the integrity of the RZ.
 - The area of the MZ may be reduced providing:
 - An intergovernmental process is completed,
 - The reduction is necessary to address operational constraints or a safety concern, and
 - The integrity of the RZ is maintained.
 - All areas retained or managed under Section 7 of this WLP will be documented and submitted as spatial data at the end of each calendar year to the Province of BC and the Haida Nation.

WILDLIFE TREE RETENTION STRATEGY

The proportion of the woodlot licence area occupied for wildlife tree retention purposes is defined in the Performance Requirements section of this WLP.

The proportion of the woodlot licence area occupied by wildlife trees will be achieved through:

- Dispersed retention (Individual wildlife trees or small clumps of trees within a cutblock area)
- Patch retention (intact areas of forest)

- Areas where harvesting will be avoided
- Areas where harvesting will be modified

Trees that pose a safety hazard or are damaged by insects or disease and pose a forest health risk to adjacent trees or forests may not be retained either as an individual wildlife tree, in a patch or in an area where harvesting will be avoided or modified.

DISPERSED RETENTION

- Applicable (dispersed retention of individual wildlife trees **will** be used)

(a) Species and Characteristics:

Species:

All coniferous and deciduous species found within the license area will be eligible for retention as wildlife trees. Cedar and Yellow Cedar retention levels will be consistent with Section 5 of this WLP, and Western Yew retention levels will be consistent with section 6 of this WLP.

Characteristics:

To the extent practicable, trees that exhibit one or more of the following attributes will be retained.

- internal decay, heart rot or cavities,
- crevices, cracks or loose bark that is suitable for wildlife,
- large brooms,
- active or recent wildlife use,
- suitable for wildlife use including a large nest, a hunting perch, or a bear den,
- a veteran tree (i.e., one of the largest trees on site as determined by height or diameter),
- important as habitat for species at risk and/or local wildlife.

(b) Conditions Under Which Individual Wildlife Trees May Be Removed:

Individual wildlife trees may, subject to the proper authorization being in place, be removed if they are:

- a safety hazard,
- a fire hazard,
- diseased or infested with insects which threaten the health of adjacent trees, or
- obstructing access or operations.
- Specifics of removal of Wildlife trees or modification of reserve areas is outlined in the “AREAS WHERE TIMBER HARVESTING WILL BE AVOIDED OR MODIFIED” section of this WLP as well as in the “CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES” section

(c) Replacement of Individual Wildlife Trees:

An individual wildlife tree that is removed will be replaced with another tree with acceptable attributes as described in section (a) “Species and Characteristics”.

Replacement will occur within 12 months after the removal and will be recorded and tracked within the Site Plan or a suitable wildlife tree tracking summary.

PATCH RETENTION

Applicable (patch retention of wildlife **will** be used)

(a) Forest Cover Attributes:

Wildlife tree patches will consist of forests comprised of mature timber that is generally consistent with typical forests common throughout the Woodlot Licence Area. A significant proportion of the trees will exhibit one or more of the individual wildlife tree attributes listed in the previous section. Trees that pose a safety hazard, or are infested with insects or infected with a pathogen that could threaten adjacent trees or forests, will not be retained.

‘Areas Where Timber Harvesting Will Be Avoided’ will contribute to the WTR performance requirement regardless of forest cover attributes.

(b) Conditions Under Which Trees May Be Removed from Wildlife Tree Retention Areas:

Wildlife trees patches and/or individual wildlife trees in WTR areas may be removed if they are:

- A safety hazard;
- Infested with insects or pathogens which threaten the health of adjacent trees; and/or
- Wind thrown or damaged to the extent that the identified wildlife objectives cannot be met.
- If they become an obstacle or impediment to access or operations.
- Specifics of removal of Wildlife trees or modification of reserve areas is outlined in the “AREAS WHERE TIMBER HARVESTING WILL BE AVOIDED OR MODIFIED” section of this WLP as well as in the “CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES” section

(c) Replacement of Trees Removed from Wildlife Tree Retention Patches:

The woodlot owner will ensure that the proportion of the woodlot licence area occupied for wildlife tree retention that is defined in the Performance Requirements section of this WLP will be maintained over time. Replacement of WTR areas will be designated prior to harvest of the original patches and will be recorded in the Site plan, RESULTS or other supporting documents. The woodlot owner will replace the portion of the WTR area from which the timber is being harvested with one or more WTR areas that provide an equivalent area, number of trees or habitat. The ‘Solutions Table’ will be consulted prior to finalizing replacement strategies for Wildlife Tree Patches.

MEASURES TO PREVENT THE INTRODUCTION OR SPREAD OF INVASIVE PLANTS

Exempted

The Woodlot Licence holder commits to carrying out the following measures to prevent the introduction or spread of invasive plants listed in the Invasive Plant Regulation that is likely the result of the Woodlot Licence holder's forest practices:

- To the extent possible, not park or stage equipment or vehicles, or sort logs on large concentrations or infestations of invasive plants,
- To the extent practicable, begin work in un-infested areas before moving to infested areas,
- Inspect and remove invasive plant parts or propagules from clothing and vehicle/equipment undercarriages if working in an area known to contain prescribed invasive plants.
 - Invasive plant inspections will be required prior to start-up of operations or whenever equipment is moved to the site from other areas. Inspection requirement to be added to pre-work meeting agendas for all new operations.
- Consideration will be given to reseeded disturbed sites >100m² using a HG seeding mixture.
 - Decisions to seeding areas will be subject to % exposed mineral soil, adjacent forest values, and proximity of invasive plant material.

MEASURES REGARDING NATURAL RANGE BARRIERS

Exempted

There are no Natural Range Barriers at Woodlot Licence W0161.

STOCKING INFORMATION FOR SPECIFIED AREAS

The stocking standards indicated below apply to areas where the establishment of a free growing stand is not required and harvesting is limited to commercial thinning, removal of individual trees, or a similar type of intermediate cutting, and for harvesting special forest products; i.e. for the purposes of WLPPR sections 12 & 34(3).

- The Single Entry Dispersed Reserve Stocking Standards 2014 will be utilized for any high retention silviculture systems at Woodlot Licence W0161. Should High Retention Silviculture Systems be planned, a specific Stocking Standard will be amended to this WLP.

PRACTICE REQUIREMENTS

ALTERNATIVE PERFORMANCE REQUIREMENTS

Soil Disturbance Limits

- Default: WLPPR section 24(1)(b)
8% of net area to be reforested.

Permanent Access Structures

- Default: WLPPR section 25
The maximum area occupied by permanent access structures is:
- For cutblocks ≥ 5 ha: 7% of the total cutblock area.
 - For cutblocks < 5 ha: 10% of the total cutblock area.
 - For the WL Area: 7% of the total Woodlot Licence area.

Stocking Standards

- Default: WLPPR section 35(1)(b)
The stocking standards, regeneration dates and free growing dates described in the ministry publication “Reference Guide for Forest Development Plan Stocking Standards,” as amended from time to time, that are in place on the commencement date for the area.
- Minimum stocking levels for red cedar and yellow cedar apply at Woodlot Licence W0161. These standards are outlined in Section 5 of the “CONSERVING AND PROTECTING CULTURAL HERITAGE RESOURCES” section of this WLP.
 - Where there is no Timber Cruise for a development area, a survey to determine species composition will be completed prior to harvest.
 - As per section 7, HGLUOO, tree planting of Red and Yellow Cedar will exceed the proportion of the pre-harvest forest conditions of red and yellow cedar.

Width of Stream Riparian Areas

- Default: WLPPR section 36(4)(b)
The minimum widths of the RRZ, RMZ and RMA are as described in WLPPR section 36(4)(b).

- Alternative: Haida Gwaii Land Use Objectives Order
* Both WLPPR standards and HGLUOO apply for all operations at Woodlot Licence W0161. Reserve widths are measured in metres in the WLPPR, and in tree lengths in the HGLUOO. For all situations, the default standard is the larger of the 2 standards.

Width of Wetland Riparian Areas

Default: WLPPR section 37(3)(b)
The minimum widths of the RRZ, RMZ and RMA are as described in WLPPR section 37(3)(b).

Alternative: Haida Gwaii Land Use Objectives Order

* Both WLPPR standards and HGLUOO apply for all operations at Woodlot Licence W0161. Reserve widths are measured in metres in the WLPPR, and in tree lengths in the HGLUOO. For all situations, the default standard is the larger of the 2 standards.

Width of Lake Riparian Areas

Default: WLPPR section 38(2)(b)
The minimum widths of the RRZ, RMZ and RMA are as described in WLPPR section 38(2)(b).

Alternative: Haida Gwaii Land Use Objectives Order

* Both WLPPR standards and HGLUOO apply for all operations at Woodlot Licence W0161. Reserve widths are measured in metres in the WLPPR, and in tree lengths in the HGLUOO. For all situations, the default standard is the larger of the 2 standards.

Restrictions in a Riparian Reserve Zone

WLPPR section 39(2.1)

Haida Gwaii Land Use Objectives Order

Standards regarding Restriction in a Riparian Reserve Zone (Cutting, modifying, or removing trees) area outlined in the WLPPR (s39(2.1), and in Part 3 (Aquatic Habitats) of the HGLUOO. In all cases, the more restrictive Standard applies.

Restrictions in a Riparian Management Zone

Default: WLPPR section 40(1)(b)(c) or (d)
The construction of a roads in a riparian management zones will be limited to the conditions described in WLPPR sections 40(1)(b), (c) and (d).

Alternative: Haida Gwaii Land Use Objectives Order

Standards regarding Restriction in a Riparian Management Zone (Cutting, modifying, or removing trees) area outlined in the WLPPR (s39(2.1), and in Part 3 (Aquatic Habitats) of the HGLUOO. In all cases, the more restrictive Standard applies.

Wildlife Tree Retention

If not exempted, the proportion of the Woodlot Licence area that will be occupied by wildlife trees will be:

Default: 8% of the woodlot licence area (WLPPR section 52(1)(c))

Coarse Woody Debris



Coastal Default:

WLPPR section 54(1)(b)

A minimum retention of 4 logs per ha ≥ 5 m in length and ≥ 30 cm in diameter at one end.

Resource Features

If not exempted, the woodlot licensee will:



Default:

WLPPR section 56(1)(b)

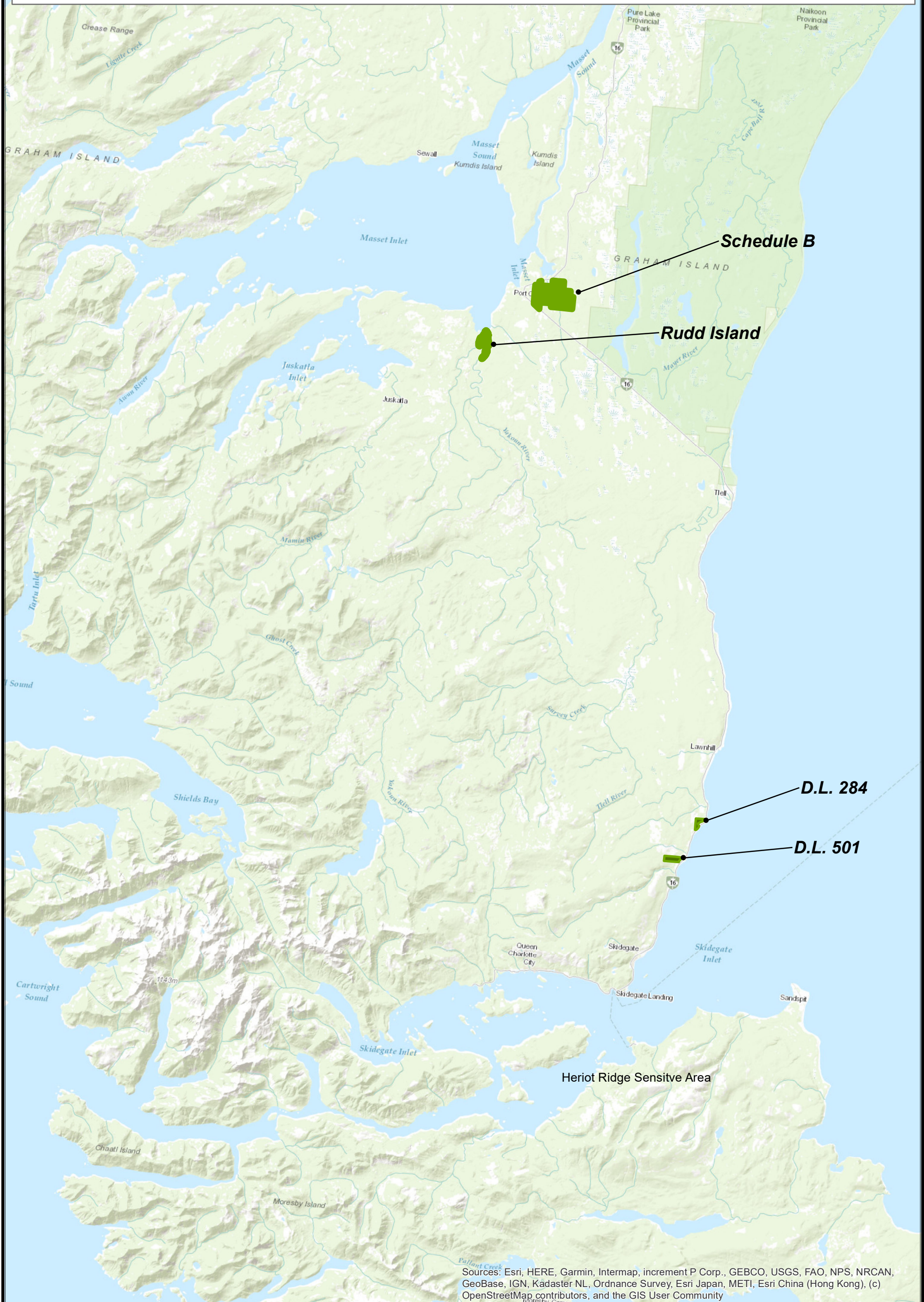
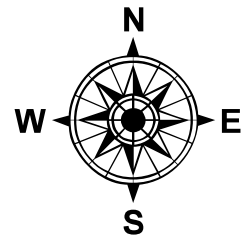
Ensure that forest practices do not damage or render ineffective a resource feature.

APPENDIX 1: WOODLOT LICENCE 0161 KEY MAP

License: Younger Brother Holdings
Forest Region: Coast
Forest District: Haida Gwaii
Ref. Map: 103F070
Projection: BC Albers
Coordinates: 591160.8, 978427.2
Drafted By: Rockview Resources Ltd.
Date: February 2021

Woodlot Licence W0161 Key Map

1:250,000



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

APPENDIX 2: WOODLOT LICENCE PLAN MAP

594800 595200 595600 596000 596400 596800 597200 597600 598000 598400

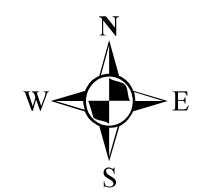
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Woodlot Licence Plan W0161

Graham Island Crown Portion

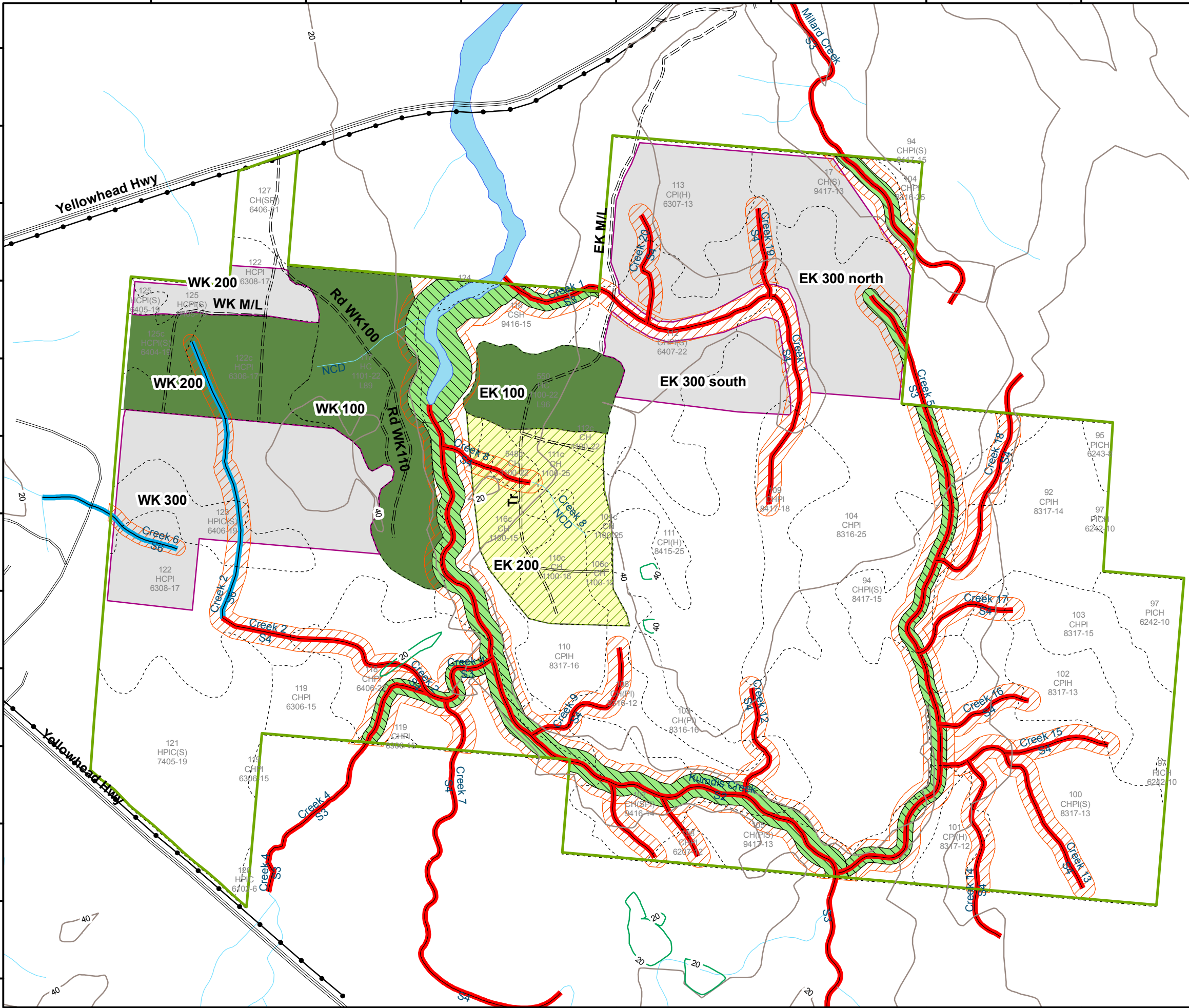
Licensee: Dave Younger
Forest Region: Coast
Forest District: Queen Charlotte Island
Airphoto: BC4211 #31
Ref. Map: 103F070
Datum, UTM Zone: Nad 83, Zone 8
Projection: Albers
TSA: 25 Queen Charlotte
TSB: Graham Island
P.S.Y.U.: 166 Queen Charlotte
FIZ: A
Inv. Reg.: R63
Comp.: 34
Drafted By: Rockview Resources Ltd.
Date: Aug 05, 2008

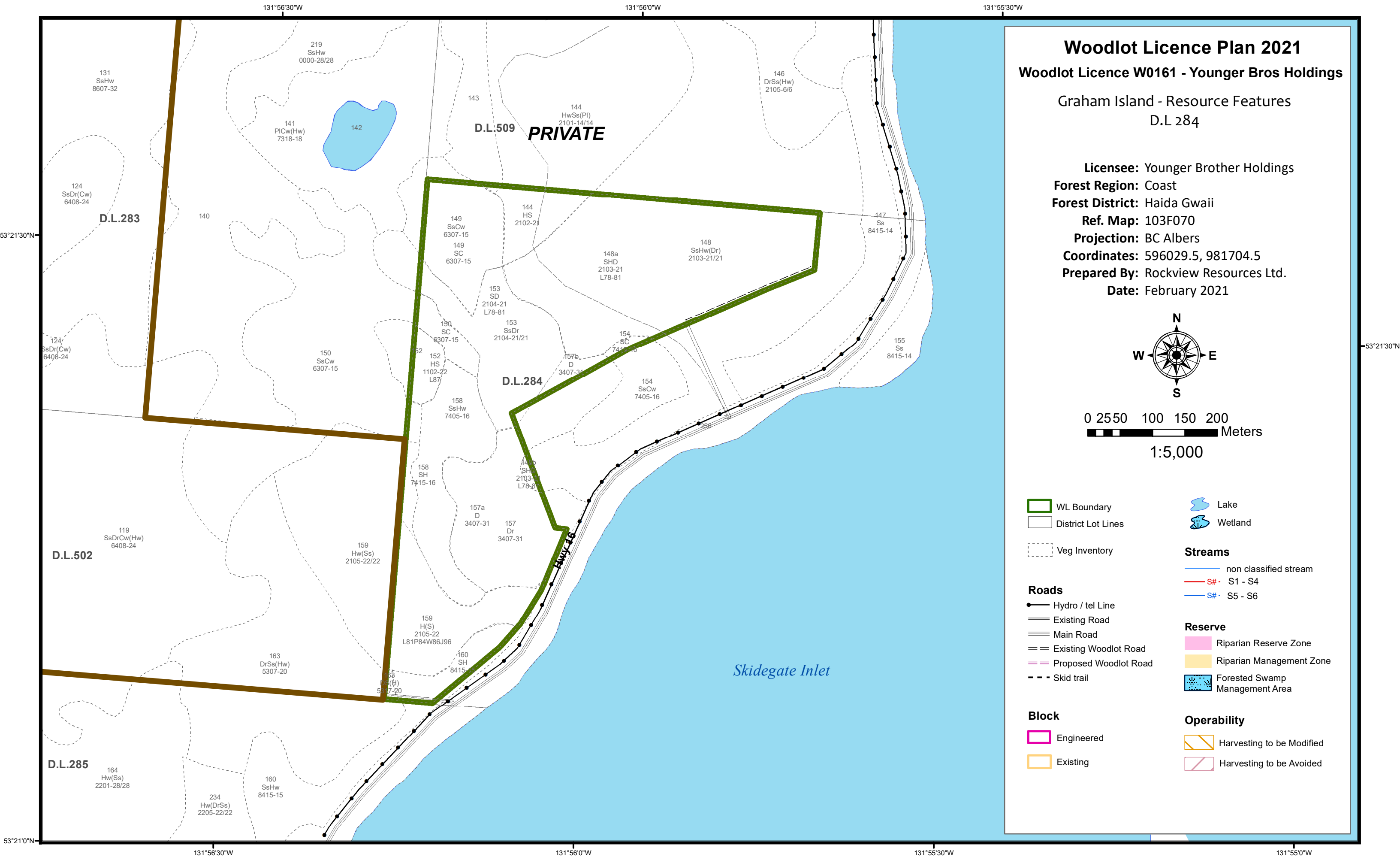


Legend

- | | |
|-----------------------------------|-----------------------|
| WL Boundary | Main Road |
| Logged Block | Existing Road |
| Engineered Block | Existing Woodlot Road |
| Approved Block | Proposed Woodlot Road |
| FTG | Debuilt Road |
| Logged | Old Rail / Trail |
| Stocked | Recreation trail |
| Waterbody | S1 - S4 Fish Creek |
| Reserve / WTP | S5 - S6 Fish Creek |
| | Hydro Line |
| | Contours |
| | Index |
| | Intermediate |
| Area Where Harvesting Be Modified | |
| Area Where Harvesting Be Avoided | |

1:10,000



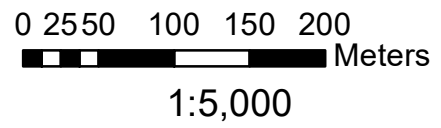
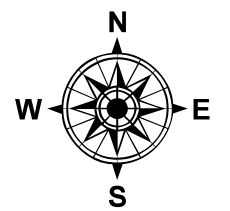


Woodlot Licence Plan 2021

Woodlot Licence W0161 - Younger Bros Holdings

Graham Island - Resource Features
D.L 284

Licensee: Younger Brother Holdings
Forest Region: Coast
Forest District: Haida Gwaii
Ref. Map: 103F070
Projection: BC Albers
Coordinates: 596029.5, 981704.5
Prepared By: Rockview Resources Ltd.
Date: February 2021



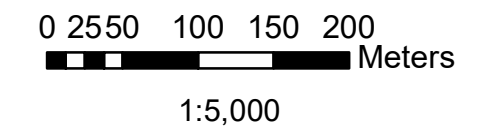
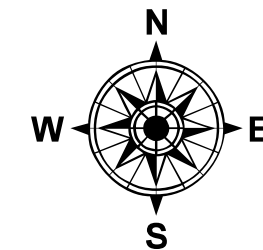
- WL Boundary
- District Lot Lines
- Veg Inventory
- Roads**
 - Hydro / tel Line
 - Existing Road
 - Main Road
 - Existing Woodlot Road
 - Proposed Woodlot Road
 - Skid trail
- Block**
 - Engineered
 - Existing
- Lake
- Wetland
- Streams**
 - non classified stream
 - S# - S1 - S4
 - S# - S5 - S6
- Reserve**
 - Riparian Reserve Zone
 - Riparian Management Zone
 - Forested Swamp Management Area
- Operability**
 - Harvesting to be Modified
 - Harvesting to be Avoided

Woodlot Licence Plan 2021

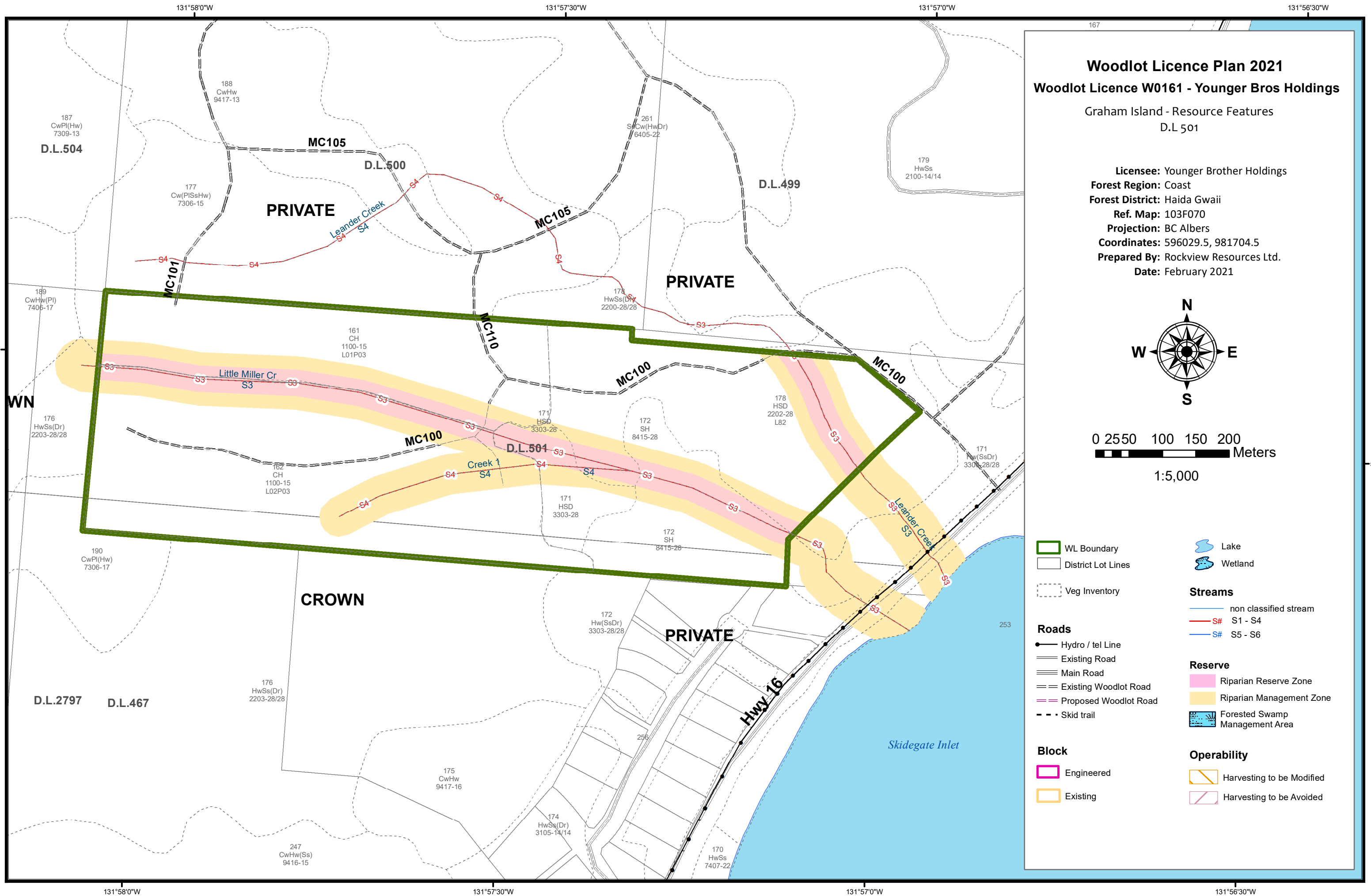
Woodlot Licence W0161 - Younger Bros Holdings

Graham Island - Resource Features
D.L 501

Licensee: Younger Brother Holdings
Forest Region: Coast
Forest District: Haida Gwaii
Ref. Map: 103F070
Projection: BC Albers
Coordinates: 596029.5, 981704.5
Prepared By: Rockview Resources Ltd.
Date: February 2021



- WL Boundary
- District Lot Lines
- Veg Inventory
- Lake
- Wetland
- Streams**
 - non classified stream
 - S1 - S4
 - S5 - S6
- Roads**
 - Hydro / tel Line
 - Existing Road
 - Main Road
 - Existing Woodlot Road
 - Proposed Woodlot Road
 - Skid trail
- Reserve**
 - Riparian Reserve Zone
 - Riparian Management Zone
 - Forested Swamp Management Area
- Block**
 - Engineered
 - Existing
- Operability**
 - Harvesting to be Modified
 - Harvesting to be Avoided



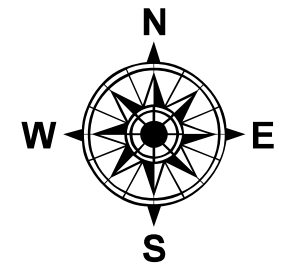
132°13'0"W 132°12'30"W 132°12'0"W 132°11'30"W

Licensee: Younger Brother Holdings
Forest Region: Coast
Forest District: Haida Gwaii
Ref. Map: 103F070
Projection: BC Albers
Coordinates: 596029.5, 981704.5
Prepared By: Rockview Resources Ltd.
Date: February 2021

Woodlot Licence Plan 2021

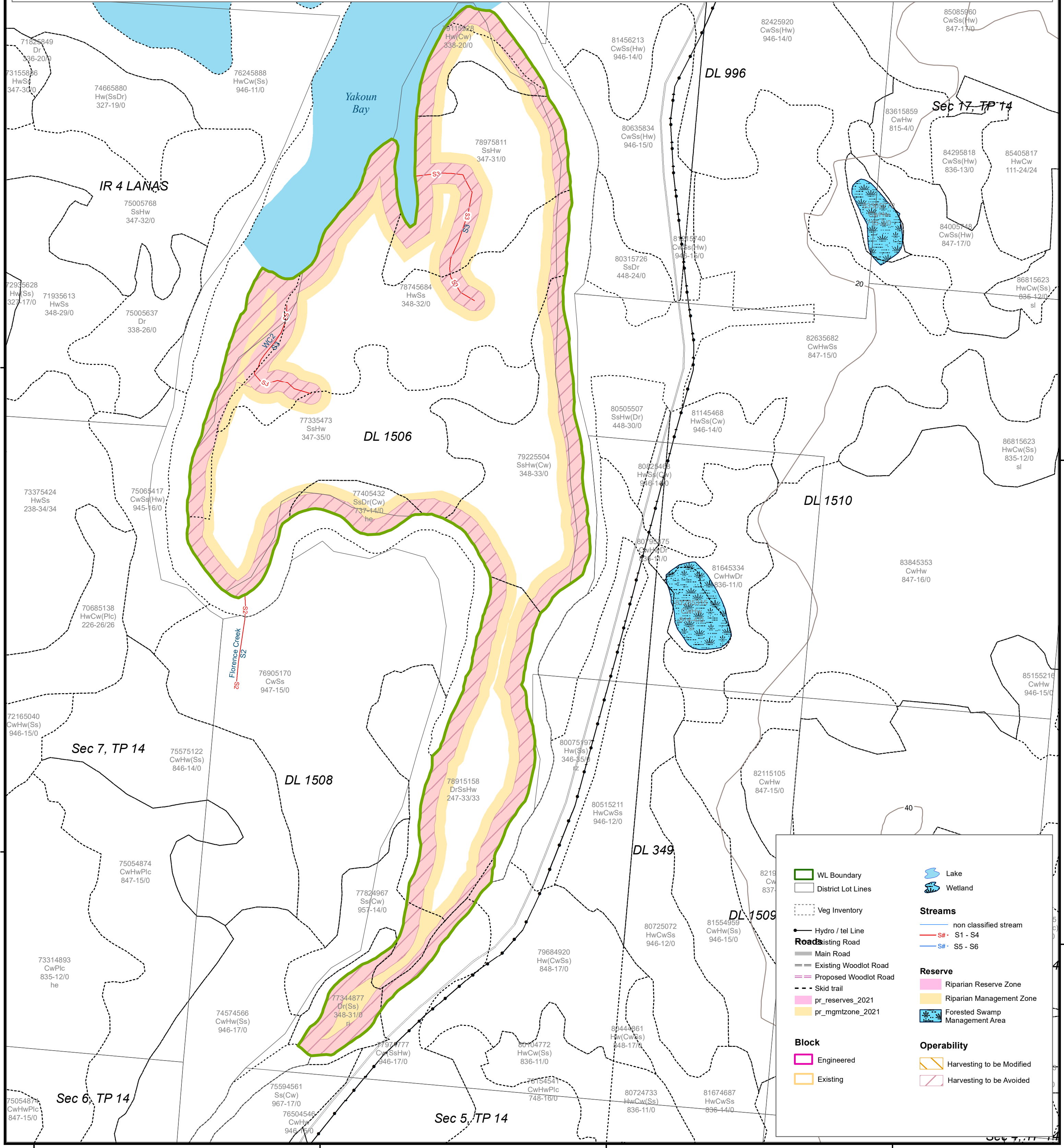
Woodlot Licence W0161 - Younger Bros Holdings

Rudd Island



0 25 50 100 150 200 Meters

1:5,000



WL Boundary	Lake
District Lot Lines	Wetland
Veg Inventory	Streams
Hydro / tel Line	non classified stream
Roads	S# - S1 - S4
Main Road	S# - S5 - S6
Existing Woodlot Road	Reserve
Proposed Woodlot Road	Riparian Reserve Zone
Skid trail	Riparian Management Zone
pr_reserves_2021	Forested Swamp Management Area
pr_mgmtzone_2021	Operability
Block	Harvesting to be Modified
Engineered	Harvesting to be Avoided
Existing	

132°13'0"W 132°12'30"W 132°12'0"W 132°11'30"W

APPENDIX 3: REVIEW AND COMMENT

NOTICE OF PUBLIC REVIEW

WOODLOT LICENCE 0161 - DRAFT WOODLOT LICENCE PLAN

A new Woodlot Licence Plan (WLP) for Woodlot Licence W0161 has been submitted to the Ministry of Forests, Lands, and Natural Resource Operations (FLNRO) and is now available for public review.

Woodlot Licence W0161 is owned by Younger Brothers Holdings (Dave Younger) and includes 1 parcel of public land and 3 parcels of private land. The crown land is located near Port Clements, and the private lands includes District Lot 284, District Lot 501, and Rudd Island.

The WLP shows the location of ‘areas reserved from harvest’, ‘areas where harvesting will be modified’, and ‘general forest management areas’. The WLP is available for review by resource agencies and the public before approval is considered by the Ministry of Forests.

This draft WLP is available for review and comment for a 30 day period. Copies of this Woodlot Licence Plan is available at www.quadraislandwoodlots.ca under the W0161 Younger Bros Holdings tab. Please contact John Marlow, R.P.F., at jmarlow@gicable.com to discuss. In order to receive consideration prior to WLP approval, comments must be received in writing by July 15, 2021 although comments regarding this WLP are appreciated at any time throughout the year.

A) ADVERTISING

05/28/21 – Woodlot Licence Plan Notice posted at Bayview Market, Port Clements

05/26/21 – Woodlot Licence Plan emailed to Community Protocol Table

B) REFERRALS

05/26/21 – Woodlot Licence Plan emailed to Community Protocol Table

05/25/21 – Woodlot Licence Plan submitted to MFLNRO for distribution to HG Solutions Table

- As of August 22, 2021 there has been no public response following 10 weeks.
- One email was received from Jana Zamyslicka, CAO, Village of Port Clements seeking clarification of the referral.
 - No further comments received
 - MFLNRO has been copied on both Jana's inquiry and the original response from Younger Brothers Holdings.

C) COPY OF WRITTEN COMMENTS RECEIVED

From: [Rock, Christine FLNR:EX](#)
To: jmarlow@gicable.com
Cc: "[Dave Younger](#)"
Subject: RE: Woodlot 0161 and MAMU
Date: March 9, 2021 10:16:16 AM

Hi John,

Thanks for checking in as you prepare the Woodlot License Plan. Currently, there is an exceedance of the targeted amount of Class I and Class II Marbled Murrelet nesting habitat available within both the Naikoon and Lower Yakoun landscape units.

Please let me know if you have any additional questions.

Thanks,

Christine

Christine Rock, R.P.Bio. (she, her, hers)

Ecosystems Biologist

Haida Gwaii Natural Resource District

Daajing giids/Village of Queen Charlotte

Phone: (250) 559-6424 Fax: (250) 559-8342

E-mail: Christine.Rock@gov.bc.ca

From: jmarlow@gicable.com <jmarlow@gicable.com>
Sent: March 4, 2021 5:39 PM
To: Rock, Christine FLNR:EX <Christine.Rock@gov.bc.ca>
Cc: 'Dave Younger' <dyounger@telus.net>
Subject: Woodlot 0161 and MAMU

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hello Christine ... I am in the process of drafting a new Woodlot Licence Plan (WLP) for Woodlot Licence W0161 (Younger Brothers Holdings Ltd) near Port Clements. The intent is to incorporate the HG LUO in the WLP. It appears that there may be some identified MAMU Class 1 or 2 habitat within or very near to the Woodlot Licence. Can you update me on the efforts to identify and protect the Target MAMU habitat in the Naikoon and Lower Yakoun. It appears that the available habitat exceeds the target so I am hoping the target has been attained.

Thank You

John Marlow, R.P.F.

Rockview Resources Limited

From: jmarlow@gicable.com
To: [CAO](#)
Subject: Re:Woodlot license W0161
Date: May 27, 2021 1:26:20 PM

I was forwarded your email from Sean Muise of the Ministry of Forests. Sean advised I consult with your office regarding this new plan for W1061 (Dave Younger). If there is no interest or concerns from your office that's ok.

Thanks

John Marlow RPF
Rockview Resources Ltd.

Sent from my Huawei phone

----- Original message -----

From: CAO <cao@portclements.ca>
Date: Thu., May 27, 2021, 1:09 p.m.
To: jmarlow@gicable.com
Subject: Woodlot license W0161

We received your email on behalf of Dave Younger, and are not sure of your request, i.e. Community Protocol Table...CAO's as the contacts. Are you referring to the Haida Gwaii Protocol Table? If you are, that is not correct. If not, please clarify.

Thank you

Jana Zamyslicka, CAO

Village of Port Clements

Box 198

Port Clements, BC

V0T 1R0

Phone: 250-557-4295

Fax: 250-557-4568



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D) REVISIONS MADE BECAUSE OF WRITTEN COMMENTS RECEIVED

- August 16, 2021. Revised WLP drafted to include more specifics regarding the Haida Gwaii Land Use Objectives as per Sean Muise comments received July 16, 2021.
- Sept 27, 2021. Final WLP submission. The following revisions incorporated into the final WLP submission as per Sean Muise (MFLNRO) comments Sept 9, 2021.
 - Hydro lines added to WLP Schedule A maps
 - Page 4 - Minor wording change to clarify confusion re Fisheries Sensitive Watersheds, and Community and Domestic Water intakes.
 - Page 5 – Higher Level Plans - minor rewording to clarify that the SDM determines consistency.
 - Page 5 – Revision to the ‘Scenic Area’ section to make reference to the established VQO at the Schedule B Land.
 - Page 6 – Revisions to ‘Resource Features’ Section to provide clarity
 - Page 6 – revised ‘no lost’ to ‘no net loss’
 - Page 7 – removed reference to ‘Landscape Level’ hydrology which does not apply to Woodlot Licences.
 - Page 9 – revised presentation of Bear Den section to clarify where alternation of a Bear den vs alteration of Management Zone can occur.
 - Page 9 – added ‘stumps’ as a feature to be retained for potential Bear dens.
 - Page 9 – revised the lineal measure (200m) of a Goshawk Reserves to a area measure (200ha).
 - Page 10 – grammar – revised word ‘to’ to ‘from’ re Great Blue Heron Nest sites.
 - Page 10 – rewording of “Description of Post-Harvest Stand Structure to be Retained in Riparian Management Zone” to specify variable limits in the Management Zone, and 100% in the Reserve Zone.
 - Page 11 – clarified that any Cultural Feature ID reports will be provided to CHN.
 - Page 12 – clarity provided regarding retention of Haida Traditional Forest Features
 - Page 12 - clarity provided regarding retention of Red and Yellow cedar.
 - Page 12 - clarity provided regarding retention of Yew
 - Page 13 – revised ‘government’ to ‘intergovernmental process’
 - Page 15 – added commitment to consult via ‘Solutions Table’ for replacement of trees in Wildlife Tree Patches.
 - Page 16 – strengthened section regarding Invasive Plants
 - Page 17 – revised Stocking Standard section to improve measurability of Cw and Yc regeneration.