DETAILED SITE ASSESSMENT FOR FORESTRY HERBICIDE APPLICATIONS

1. Tenure Identification

LICENSEE NAME:	BCTS – Chinook Business Unit	**PMP NUMBER:**	402-0670-17/22
DISTRICT:	Chilliwack Natural Resources District		

2. Location, Access and History

OPENING NO.	92H.031-293		**LICENCE:**	A83905	**CP / BLOCK:**	APR-83905/HW108
GENERAL LOCATION:	Chilliwack Forest District		**SPECIFIC LOCATION:**	Harrison West	**LAT / LONG:**	49° 21’ 49” N 121° 50’ 18” W
STANDARDS UNIT:	1		**SLOPE / ASPECT:**	20-60% (40% avg)/ East	**ELEVATION RANGE:**	110-190 m
ACCESS:	Drive	4X4	Access Details: Follow West Harrison FSR for approx. 7km to the Francis Lake FSR on the left. Access is via the deactivated spur at this junction or walk in from the Harrison West Mainline, 400 m past the Francis Lake turnoff.		**HISTORY:**	DIST 11, PL 12

3. Target Vegetation Description, Objective and Rationale for Treatment

TREATMENT UNIT:	**A**
AREA (ha):	2.4
TARGET VEGETATION: (common name)	Alder, Birch, Cherry, Cottonwood, Bigleaf Maple, Vine Maple, Willow
DECIDUOUS TREE HT (m) / SPH / DIAM (cm):	2.0 m / 600 sph / 2.0 cm
SHRUB HEIGHT (m) / % COVER:	1.3 m / 20%
HERB HEIGHT (m) / % COVER:	1.0 m / 30%
NON-TARGET VEGETATION:	Herbs, Conifers
PRIMARY OBJECTIVE:	**Brushing**
Rationale For Treatment:	Conifer release is required to ensure 150% height above brush is achieved within a reasonable timeframe. Tall woody shrubs and patchy hardwood stems require brushing. Basal treatment is recommended instead of a foliar treatment to ensure that scattered unprotected crop trees are not damaged by foliar spray. Variable conifer heights due to patchy brush competition throughout.

4. Crop Tree Description and Recent Survey Activity

CROP TREE SPECIES / HEIGHT (m) / WS (sph)**:**	Fd,Cw 0.6m – 1.6m / 730 sph
% IMPEDED BY BRUSH: (Total WS)	60%
PREF (ACC) SPECIES: (From SP)	Fd,Cw (Pw,Hw,Bg)
RECENT SURVEY:	SU BR WALK / 2016 12

5. Pesticide, Treatment Methods and Timing

TREATMENT UNIT:	**A**
PRODUCT:	Release (Triclopyr)
METHOD:	Basal spray
TECHNIQUE:	Streamline
MAX APPLICATION RATE (L/ ha):	15.0
EST. PRODUCT REQUIRED (L):	2.9
APPLICATION TIMING:	April – June 2017

6. Bodies of Water, Water Courses and Wetland Areas

RIPARIAN FEATURE ID	RIPARIAN CLASS	ACTIONS PRESCRIBED TO PROTECT RIPARIAN FEATURES
N/A	N/A	No bodies of water, water courses, or wetland areas in or near treatment area.

7. Other Resource Values and Interests

CONCERNS IDENTIFIED	ACTIONS PRESCRIBED TO PROTECT OTHER RESOURCE VALUES
Powerlines run alongside eastern boundary of block, opposite mainline road.	Aerial treatment limited by powerlines. BR CG BASAL recommended due to power lines as well as a more controlled treatment of patchy competition without risk to exposed crop trees.
Crop Trees	Target all competing deciduous stems within 2m of well-spaced conifers and those deciduous stems whose branches encroach within a 2m radius of any well-spaced crop trees.

DSA PREPARED BY:	Janet Li, reviewed by Matt Day	**FOR:**	B.A. Blackwell and Associates Ltd.
DATE:	17 January 2017	**ATTACHMENTS:**	Map

1. Fdc under VS

2. Patches of unimpeded areas growing well

3. Medium to taller brush overtopping conifers

4. Planted Fd overtopped by brush

5. Patches of heavy herbaceous competition

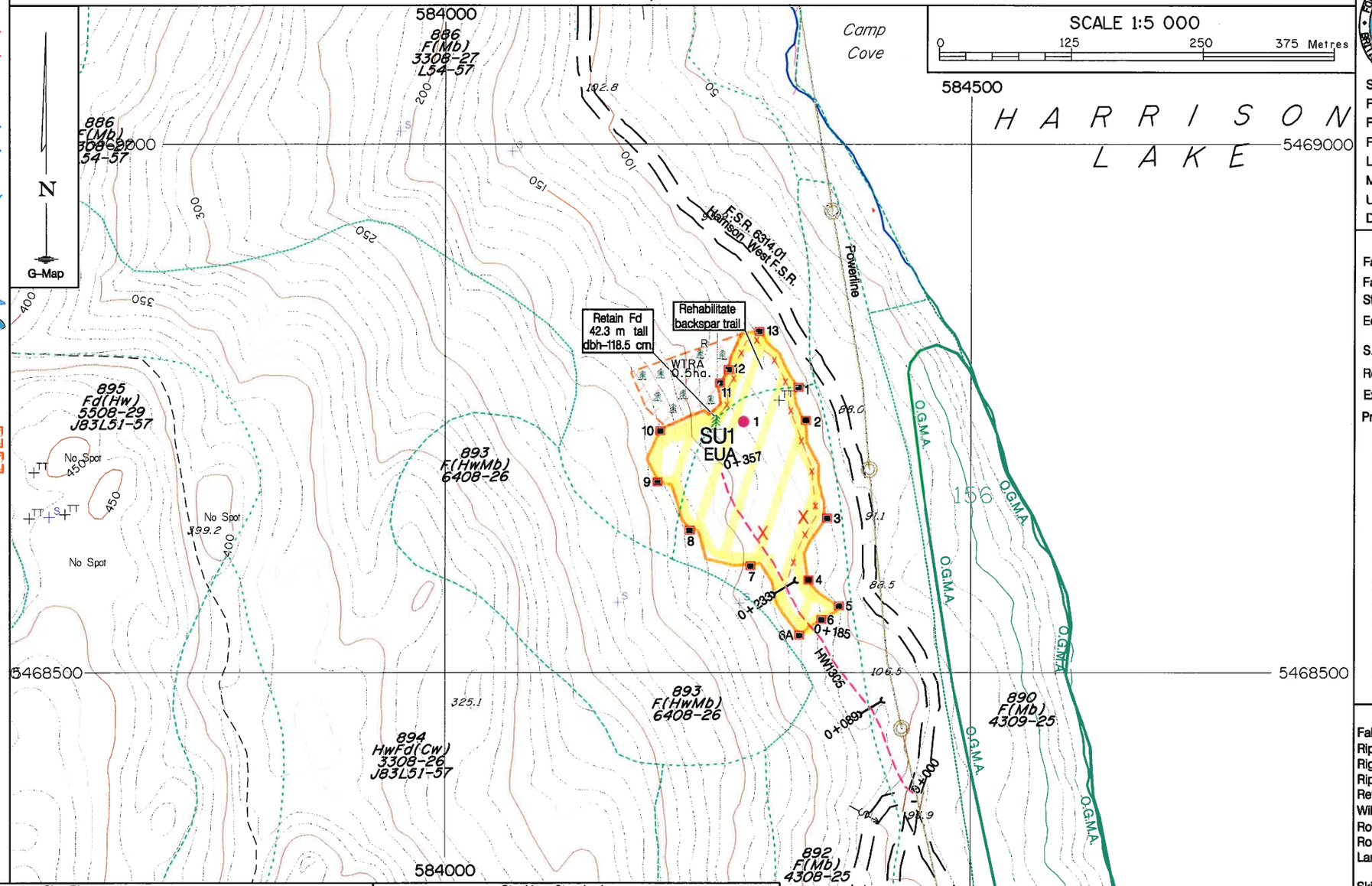
6. Proximity of power lines to edge of block at top of slope, left

7. Scattered, larger Mb

8. Significant number of stock under VS and/or VT

9. Some patches of stunted conifers

Site Plan Map Block HW108



Management Areas

- Riparian Stream Class–FISH:
  - (S1/S4) Sampled
  - (S1/S4) Gradient
  - (Unknown class) Gradient
- Riparian Stream Class–NO FISH:
  - (S5/S6) Sampled
  - (S5/S6) Gradient
  - (Unknown class) Gradient
- Non-classified Drainage
- Seepage
- Stream Class. and Reach Break
- Riparian Lake Class (L1–L4)
- Riparian Wetland Class (W1–W5)
- Water Body ID #
- Retention Patch (Engineered)
- Retention Patch (Proposed)
- Retention Trees
- Wildlife Tree Retention Area (WTRA)
- Other Reserve (RI)
- Riparian Reserve Zone
- Riparian Management Zone (if different than SU prescription)
- Windthrow Management Area
- Machine Free Zone (MFZ)
- Windfall
- Landing / Temporary Landing

BR CG BASL

Note - field layout for treatment area is required. Crews should refer to the Detailed Site Assessment for Forestry Herbicide Applications report for this block, as well as the BCTS Pest MAnagement Plan 2012-2017 (738-0018-12/17) for specifications regarding field layout, and establishment of PFZs and buffer zones as required.

Date: March 9, 2009

BCTS
BC Timber Sales
Chinook

Scale: 1 : 5 000
Forest Region: Coast
Forest District: Chilliwack
Forest Development Unit: West Harrison
Location: Harrison West
Map #: 092H031 (10m = hemlock)
U.T.M.: 10
Declination: 17°30' East

Legend

- Falling Boundary
- Falling Corner 2
- Standard Unit Boundary
- Eco Unit Boundary
- S.P. Plot 3
- Root Rot Centre
- Existing Road
- Proposed Roads:
  - Haul Road – construction
  - Designated Skid Trail
  - Mobile Backspar Trail
  - Machine Crossing (creek)
  - Reference Point
  - Bridge
  - Culvert
  - Slide
  - Gully
  - Rock Outcrop
  - Index Contour and Label
  - Intermediate Contour Contour Interval is 10 m BC Timber Sales

Field Ribboning

- Falling Boundary: Orange Printed
- Riparian Reserve Zone: Orange Printed
- Right of Way Boundary: Orange Printed
- Riparian Mgmt. Zone: Orange Printed
- Retention Patch: Orange / Black stripe
- Wildlife Tree Patch : Orange Printed
- Road Reconnaissance: Yellow
- Road Centre Line: Pink
- Landing Location: Pink "Landing" (hand written)
- Skid / Bladed Trail Location: Pink Printed
- Deflection Line / Base Line: Green / White Stripe
- Fish Stream: Red / White Stripe
- Non–Fish Stream: Blue / White Stripe
- Machine Free Zone: Red Printed
- Traverse Station Marks: White
- Cruise Strip Lines: Blue
- Cruise Plot Centre: Blue and Orange
- Treatment Area Boundary: Green Printed

Safety Location:
Latitude: 49° 21' 51.8" N
Longitude: 121°50' 20.1"W
Harrison West
Flight Distance is 8.1 kms
NW of Harrison Hot Springs

Site Plan

Blk	Standard Unit	Eco Unit	BioGeo SubZone	Site Series	Silviculture System	Stock I.D.	Area Summary (ha) Gross	Perm. Access	Rock / Brush	Reserve /no modification	Retention	Other	N A R
HW108	1	A	CWHdm	01_{75} 05_{18} 03_{5} 04_{6}	Retention	1009467	2.6	0.2					2.4
	WTRA						0.5			0.5			
Total							3.1	0.2		0.5			2.4

Stocking Standards

PREF. (ACC.) SPP	TSS	MSS(p&a)	MSS(p)	RD	FG Assess.	Min. inter-tree dist.	Ht. rel. to comp.
Fd, Cw (Hw, Pw)	900	500	400	3	20	2.0	150%