

**SENECA ENTERPRISES LTD.**

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SPRUCE BARK BEETLE REPORT

FH17DPG218

STAR PROBE# **2016-PHI-042**

85

NUMBER OF CODE 1-4 ATTACK

1PROBE LINE **YES****SUMMARY OF CURRENT INFESTATION****LIGHT ATTACK**

Very steeply sloped site with lots of blowdown, Site had one Code1 and one older Code 5 attacked tree, extremely large DBH that was hit fairly hard/ Higher attack density, tree both 1 and 2 year cycle. Site 50% spruce 50% balsam, one isolated attacked tree on edge of river/

ACCESS

Lots of Blowdown, site alongside river. From truck walk 190m at 330 degrees

SITE FEATURES (Topography, Terrain, Timber Types, Age)

Site alongside river. Large DBH trees. Sparse stand. Heavy blowdown

SIZE, BOUNDARY and PATTERN OF INFESTATION

1 code 1 attacked trees found in site

INCIDENCE AND SEVERITY OF ATTACK

One C1 tree with large DBH showing heavy attack signs. Light attack amongst older attack as found 1 C5

RISK OF BEETLE SPREAD and SURROUNDING SITES

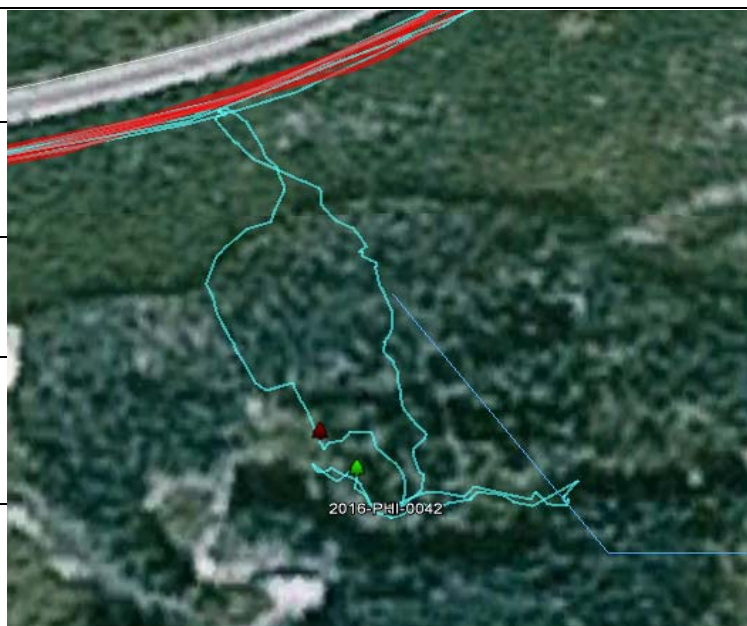
Site has immature trees and cutblocks around it as well as the lake to the east. Large DBH spruce along river as well as heavy blowdown conducive to beetle spread. Will spread minimally down the river, site to the west PHI-0043 had one older attacked tree.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

From truck, short distance to site, adjacent to cutblock and river, could not cross river, steep slopes with heavy blowdown.

RECOMMENDATIONS**OPTION 1** **NO ACTION**

Although high priority rating, access difficult with 60% slopes down to river and single Large DBH attacked tree in area of heavy blowdown. No action, but monitor site and area/

OPTION 2 **MONITOR**

Summary		
2016-PHI-042		85

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line									
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			2015		2014		2013		
			1	2	3	4	5	6	
17.5-25.0	3.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
25.1-30.0	5.3	0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
30.1-35.0	7.1	0	0.0	0.0	0.0	0.0	0.0	0.0	21.3
35.1-40.0	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	18.8
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0
45.1-50.0	13.8	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	37.4	18.7	0.0	0.0	0.0	0.0	0.0	0
60.1 +	25.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0
TOTALS	123.3	104.6	18.7	0	0.0	0.0	0.0	0	50.7

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating				
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density			5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density			15-24.9 HIGH Mean Larval Density
3.50	< 3.9 SEVERE Attack Density		2.50	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough				
% 2016 ATTACK	15.2%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING	
% 2015 ATTACK	0.0%	##	LIGHT 0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	0.0%	##	MODERATE 600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	70.9%	##	HEAVY 1000+	RECOMMEND CRUISING/ LOGGING
			1074.7	

SUMMARY OF ALL CARDS FS1111	NUMBER OF CARDS	1
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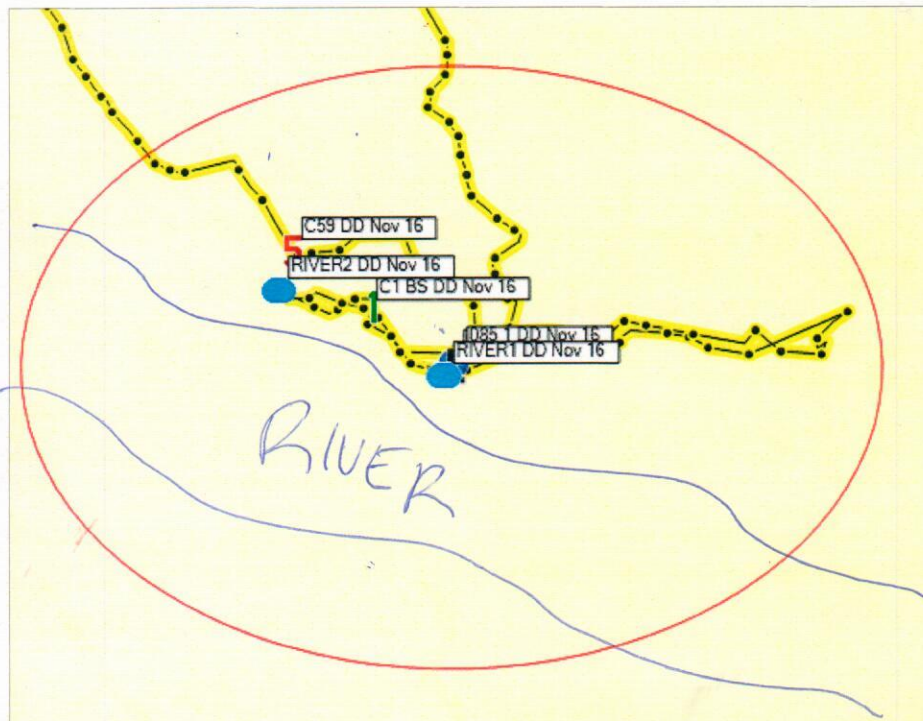
ACCESS -	Lots of Blowdown, site alongside river. From truck walk 190m at 330 degrees
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SITE FEATURES -	Site alongside river. Large DBH trees. Sparse stand. Heavy blowdown
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DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			2015		2014		2013		BL	AT
			1	2	3	4	5	6		
17.5-25.0	3.3	0	0	0	0	0	0	0	0	0
25.1-30.0	5.3	0	0	0	0	0	0	0	2	0
30.1-35.0	7.1	0	0	0	0	0	0	0	3	0
35.1-40.0	9.4	1	0	0	0	0	0	0	2	0
40.1-45.0	11.6	1	0	0	0	0	0	0	0	0
45.1-50.0	13.8	1	0	0	0	0	0	0	0	0
50.1-55.0	16.2	2	0	0	0	0	0	0	0	0
55.1-60.0	18.7	2	1	0	0	0	0	0	0	0
60.1 +	25.3	0	0	0	0	0	0	0	0	0
TOTALS		7	1	0	0	0	0	0	7	0

BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN		
						Attacked Yr	Yr	Unattacked
2	7	5	5	0	3	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION
1 code 1 attacked trees found in site
INCIDENCE AND SEVERITY OF THE INFESTATION
One C1 tree with large DBH showing heavy attack signs. Light attack amongst older attack as found 1 C5
RISK OF BEETLE SPREAD
Site has immature trees and cutblocks around it as well as the lake to the east. Large DBH spruce along river as well as heavy blowdown conducive to beetle spread. Will spread minimally down the river, site to the west PHI-0043 had one older attacked tree.
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES
From truck, short distance to site, adjacent to cutblock and river, could not cross river, steep slopes with heavy blowdown.



085

Nov 16

AD

50 m

overzoom

Attack - C1 = 1
CS = 1

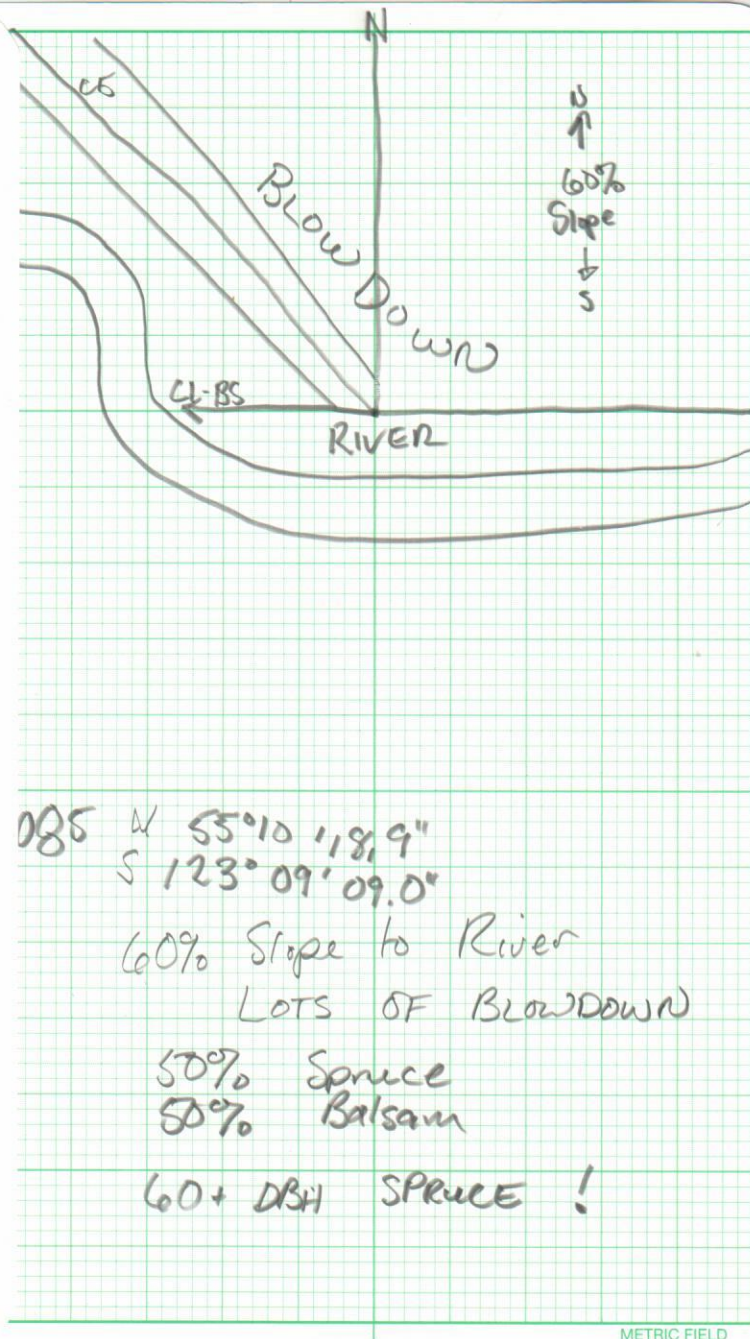
Access - From truck, walk 240m @ 153°

Features - Very steep. 0-60%
- Lots of blowdown
- 50% Sx
- 50% BI
- Large Sx 60 dbh.

SPRUCE BEETLE PROBE CARD

LOCATION 55°10'19.5" N 123°09'10.0" W		PAGE — OF —							
BEARING NW		DISTANCE 100m	STRIP WIDTH 10m						
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			1	2	3	4	5	6	
17.5 - 25.0	3.3								
25.1 - 30.0	5.3								
30.1 - 35.0	7.1								
35.1 - 40.0	9.4								
40.1 - 45.0	11.6								
45.1 - 50.0	13.8								
50.1 - 55.0	16.2								
55.1 - 60.0	18.7								
60.1 +	25.3								
TOTALS		7	1						7
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
N	7	2	4						
S	8	3	1						
COMMENTS 0 BS 60% Slope up N 50%/50% S/B									
CREW NAMES DARRYL					DATE Y M D 16 11 16				

FS 1111 RPG 2000/01 7530881048 (100/bdl)



085 N 55°10'18.9"
S 123°09'09.0"

60% Slope to River
LOTS OF BLOWDOWN

50% Spruce
50% Balsam

60+ DBH SPRUCE !

METRIC FIELD