

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK010**

POLYGON: EKL-001

HECTARES: 22.59

WALKTHROUGH DISTANCE: 1100

ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)

0 0.0%

SUMMARY OF CURRENT INFESTATION

Walkthrough of Polygon showed no attack. There was little attack outside of polygon to the south, but limited.

NO ATTACK, NO ACTION

ACCESS

Access via Truck and ATV from NW.

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

Sloped from west to east down to Drainage at bottom of Polygon. Some additional drainages with polygon with steeper slopes as well. Mixed stand with Pine, Balsam and Spruce, Spruce roughly 40% with average DBH 30-35 cm.

SIZE, BOUNDARY and PATTERN OF INFESTATION

There was no attack found, found one Code1 attack just outside to the south of the polygon,

INCIDENCE AND SEVERITY OF ATTACK

None

RISK OF BEETLE SPREAD

Minimal risk as surrounded by cutblocks, and no attack found.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Truck and ATV access from NW

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

No beetle found on Walkthrough,

OPTION 2**NO ACTION**

EKL-001

SPRUCE BEETLE WALKTHROUGH

Legend

- PROBE
- Path

HIT

Probe 1

Google earth

© 2015 Ches/Spot Image

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N

700 m

Summary						
EKL-001	HEC	22.59	METERS WALKED	1100	% TRAVERSED	4.9%
PIXELS COVERED BY WALKTHROUGH	11	INFESTED PIXELS	0	ESTIMATED % OF BLOCK INFESTED (From Walk through)		0.0%

TABLE 5- Spruce Beetle Infestation Summary Sheet

OF NOTE- Results taken from a 100m Probe Line established at 1 per 50 hectares to represent

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	3.3	0.0	0.0	0.0	0.0	0.0	0.0	23.1
25.1-30.0	5.3	42.4	0.0	0.0	0.0	0.0	0.0	0.0	37.1
30.1-35.0	7.1	28.4	0.0	0.0	0.0	0.0	0.0	0.0	49.7
35.1-40.0	9.4	18.8	0.0	0.0	0.0	0.0	0.0	0.0	47
40.1-45.0	11.6	0	0.0	0.0	0.0	0.0	0.0	0.0	58
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	48.6	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	0	0.0	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	155.3	155.3	0.0	0	0.0	0.0	0.0	0	214.9

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
0.00	< 3.9 SEVERE Attack Density	0.00	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	0.0%	0.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	0.0
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	42.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

SUMMARY OF ALL CARDS FS1111						NUMBER OF CARDS		1		
ACCESS -		Access via Truck and ATV frpm NW.								
POLYGON FEATURES -		Sloped from west to east down to Drainage at bottom of Polygon. Some additional drainages with polygon with steeper slopes as well. Mixed stand with Pine, Balsam and Spruce, Spruce roughly 40% with average DBH 30-35 cm.								
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	BL	AT
17.5-25.0	3.3	1	0	0	0	0	0	0	7	0
25.1-30.0	5.3	8	0	0	0	0	0	0	5	2
30.1-35.0	7.1	4	0	0	0	0	0	0	4	3
35.1-40.0	9.4	2	0	0	0	0	0	0	2	3
40.1-45.0	11.6	0	0	0	0	0	0	0	4	1
45.1-50.0	13.8	1	0	0	0	0	0	0	0	0
50.1-55.0	16.2	3	0	0	0	0	0	0	0	0
55.1-60.0	18.7	0	0	0	0	0	0	0	0	0
60.1 +	25.3	0	0	0	0	0	0	0	0	0
TOTALS		19	0	0	0	0	0	0	22	9
BARK SAMPLES 15 cm x 15 cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN				
						Attacked Y r	Y r	Unattacked		
0	0	0	0	0	0	0	0	0	0	
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
There was no attack found, found one Code1 attack just outside to the south of the polygon,										
INCIDENCE AND SEVERITY OF THE INFESTATION										
None										
RISK OF BEETLE SPREAD										
Minimal risk as surrounded by cutblocks, and no attack found.										
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES										
Truck and ATV access from NW										

SPRUCE BEETLE PROBE CARD

LOCATION 104 2430305 6179249		EKL-001 Probe 1		PAGE OF						
BEARING 300°		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		20							10	13
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN				
						Attacked	Unattacked			
COMMENTS All green, no attack										
CREW NAMES Aaron Colebank					DATE 2015 M D 10 11					

TOPOGRAPHY	STRIP No.	TIMBER TYPE
60/40 Sw/ba-pl	700	
20% Slope	600	
60 Sw/40 dead pl		
20% Slope	500	
114° bearing	400	
20% Slope	300	
70% dead pl 130% Sw		
30% Slope	200	
20% Slope		
80% dead pl 120% Sw	100	
80% dead pl 120% Sw		
10% Slope	0	

STRIP NO.: EK1001 DIRECTION: 38°
 START STRIP: 10 U 043 0073 C17933/
 JOB NO.: EK1001 DATE: Oct 11th, 2015
 CREW: Aaron Colebant
 REMARKS: hit tree outside of



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TOPOGRAPHY	STRIP No.	TIMBER TYPE
	1400	
	1300	
	1200	
probe @ 1130m 300°	1100	probe @ 1130m 300° bearing
heavy blowdown		
300° bearing	1000	
60/40 Sw/ba-pl		
20% Slope	900	
60/40 Sw/ba-pl		
20% Slope	800	
20% Slope		
60/40 Sw/ba-pl		
222° bearing	700	

STRIP NO.: DIRECTION:
 START STRIP:
 JOB NO.: DATE:
 CREW:
 REMARKS:



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