

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK016,017**

POLYGON: 2015-MIS-030

HECTARES:

54.23

WALKTHROUGH DISTANCE:

1500

ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)

0 0.0%

SUMMARY OF CURRENT INFESTATION

Walkthrough found no signs of current attack. Polygon dominated by heavy areas of Balsam and Dead pine with spruce being of small DBH within heavy blowdown areas.

NO CURRENT ATTACK

ACCESS

Access is from 7km on 1500 road. Than sled 7km, walk 200meters to west of polygon.

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

Steep polygon at entrance with 35% grade at entranc. Rest flat with heavy blowdown and contains very dmall spruce.. River runs through.

SIZE, BOUNDARY and PATTERN OF INFESTATION

No recent attack found, very small spruce amongst heavy blowdown, no old or recent attack noticed.

INCIDENCE AND SEVERITY OF ATTACK

No current attack

RISK OF BEETLE SPREAD

Areas of heavy balsam, very small DBH Spruce., no attack found.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access on old cutblocks roads for 7km, very steep at entrance to polygon, 35% grade. Very wet throughout.

RECOMMENDATIONS**OPTION 1****MONITOR**

With heavy blowdown and often difficult to dig through, may want to schedule another walkthrough 2016-2017 with MIS-030. All spruce seemed very low DBH and very low risk.

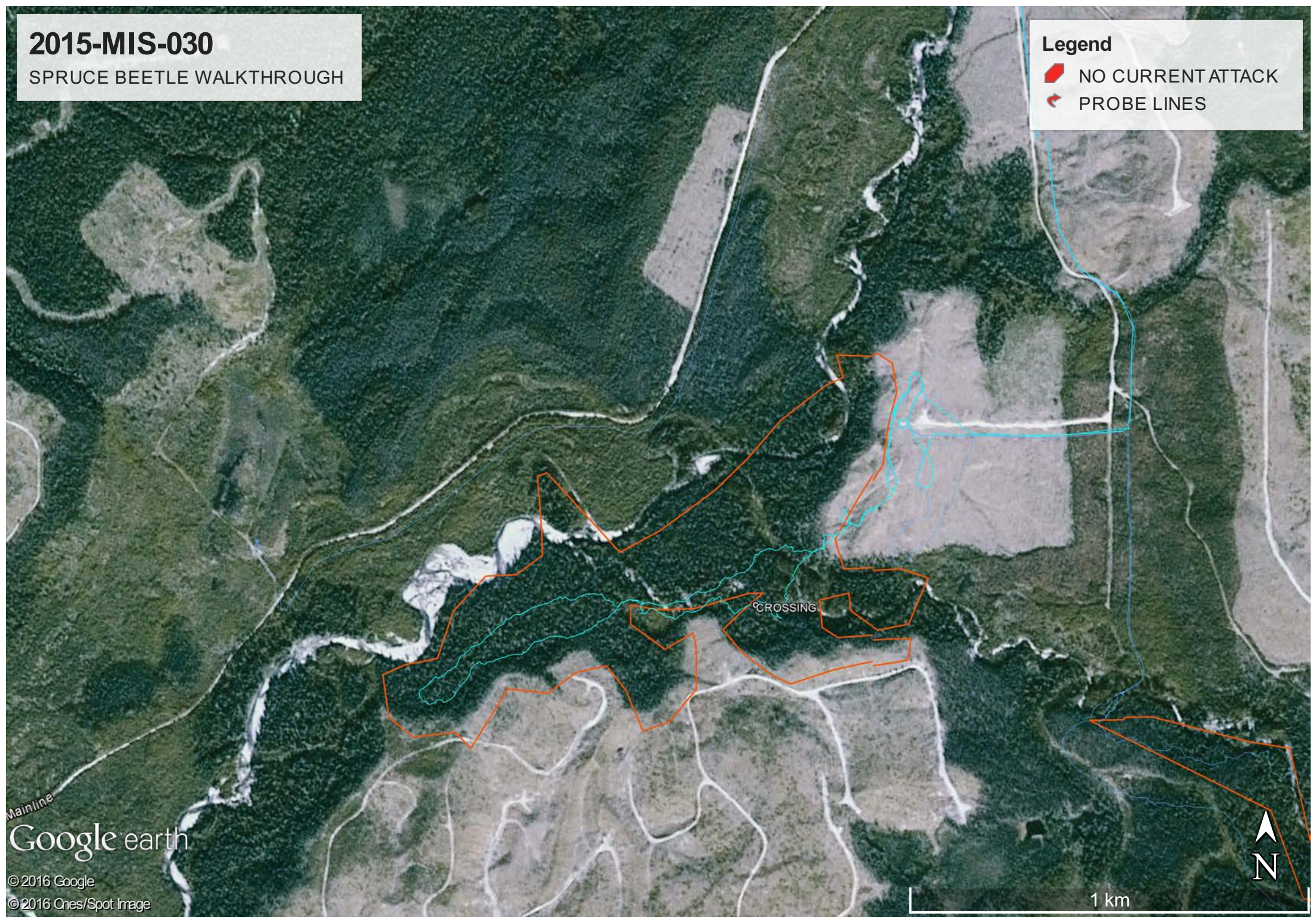
OPTION 2**NO ACTION**

No action required as no current attack.

2015-MIS-030
SPRUCE BEETLE WALKTHROUGH

Legend

-  NO CURRENT ATTACK
-  PROBE LINES



Summary						
2015-MIS-030	HEC	54.23	METERS WALKED	1500	% TRAVERSED	2.8%
PIXELS COVERED BY WALKTHROUGH		15	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	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	0
30.1-35.0	7.1	0	0.0	0.0	0.0	0.0	0.0	0.0	0
35.1-40.0	9.4	0	0.0	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	0	0.0	0.0	0.0	0.0	0.0	0.0	0
45.1-50.0	13.8	0	0.0	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	0	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	0.0	0	0.0	0	0.0	0.0	0.0	0	0

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	0.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

No current attack, no probe line or bark samples taken.

SUMMARY OF ALL CARDS
FS1111

NUMBER OF CARDS

0

ACCESS -	Access is from 7km on 1500 road. Than sled 7km, walk 200meters to west of polygon.
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POLYGON FEATURES -	Steep polygon at entrance with 35% grade at entranc. Rest flat with heavy blowdown and contains very dmall spruce.. River runs through.
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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			
			1	2	3	4	5	6	BL	AT
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	0	0
30.1-35.0	7.1	0	0	0	0	0	0	0	0	0
35.1-40.0	9.4	0	0	0	0	0	0	0	0	0
40.1-45.0	11.6	0	0	0	0	0	0	0	0	0
45.1-50.0	13.8	0	0	0	0	0	0	0	0	0
50.1-55.0	16.2	0	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		0	0	0	0	0	0	0	0	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
0	0	0	0	0	0	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION
No recent attack found, very small spruce amongst heavy blowdown, no old or recent attack noticed.
INCIDENCE AND SEVERITY OF THE INFESTATION
No current attack
RISK OF BEETLE SPREAD
Areas of heavy balsam, very small DBH Spruce., no attack found.
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES
Good access on old cutblocks roads for 7km, very steep at entrance to polygon, 35% grade. Very wet throughout.

TOPOGRAPHY STRIP No. 1

TIMBER TYPE

200m S/L 200m

700
600
500
400
300
200
100
0

TOWNS OF BLOWDOWN
FEW SPRUCE
LOTS OF ADJACENT
SPRUCE & BIRCH

40% A

STRIP NO.: 1 DIRECTION: 245°, 78°

START STRIP: 0

JOB NO.: MIS 030 DATE: FEB 23 2016

CREW: Darryl James

REMARKS: few spruce

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TOPOGRAPHY STRIP No. 1

TIMBER TYPE

200m S/L 200m

1500
1400
1300
1200
1100
1000
900
800

TREND CONTINUES
SMALL SPRUCE
CREEK RUNS THROUGH
EVERYWHERE

lots of Blowdown
is FLAT THO

STRIP NO.: 1 DIRECTION: 245°, 78°

START STRIP: 800

JOB NO.: MIS 030 DATE: FEB. 23, 2016

CREW: Darryl James

REMARKS:

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