

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH17DPG218**POLYGON: **2016-BLA-0184** HECTARES: **18.2**WALKTHROUGH DISTANCE: **1800**ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4) **1 5.6%****SUMMARY OF CURRENT INFESTATION**

Walkthrough found 1 Code 1 attacked tree,. Site has low sanitation rating and low attack density from 1 probe line. Site has several older attacked trees as well with 3- Code 5's noticed. Site to the east has no signs of attack, low priority

LIGHT SCATTERED ATTACK**ACCESS**

From truck, walk 300m at 192 degrees to northern part of polygon

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

Overall relatively flat site without any major slopes, 0-10% throughout. Overall, Sx 40%, Balsam 60%

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon 18 hectares with 5% infested pixels (1 pixel). Infested pixel is single attack and captured with probe line and has light sanitation rating,. There are 3 Code 5 older attack scattered through polygon as well, no pattern but on east side of polygon. Site to the east of polygon no signs of attack

INCIDENCE AND SEVERITY OF ATTACK

1 probe line has attack density Low with low larval density. Attack very light.

RISK OF BEETLE SPREAD

Polygon has pocket of singular attack and older attack that are scattered throughout polygon/. Boundaried by cutblocks to the North, but very light attack and low priority

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access, minimal slopes. Close to mainline road.

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

Sanitation and Salvage Rating is low from 1 probe line, spread should be minimal. Other probe site in the immediate area have no attack

OPTION 2

Summary					
2016-BLA-0184	18.2	METERS WALKED	1800	% TRAVERSED	9.9%
PIXELS COVERED BY WALKTHROUGH	18	INFESTED PIXELS	1	ESTIMATED % OF BLOCK INFESTED (From Walk through)	5.6%

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	9.9	0.0	0.0	0.0	0.0	0.0	0.0	36.3
25.1-30.0	5.3	15.9	0.0	0.0	0.0	0.0	0.0	0.0	47.7
30.1-35.0	7.1	42.6	0.0	0.0	0.0	0.0	0.0	0.0	63.9
35.1-40.0	9.4	0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
40.1-45.0	11.6	34.8	0.0	0.0	0.0	0.0	0.0	0.0	23.2
45.1-50.0	13.8	27.6	13.8	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	144.6	130.8	13.8	0	0.0	0.0	0.0	0	199.3

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
0.80	< 3.9 SEVERE Attack Density	0.60	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	9.5%	9.5	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	401.3
% 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 -		From truck, walk 300m at 192 degrees to northern part of polygon								
POLYGON FEATURES -		Overall relatively flat site without any major slopes, 0-10% throughout. Overall, Sx 40%, Balsam 60%								
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	3	0	0	0	0	0	0	11	0
25.1-30.0	5.3	3	0	0	0	0	0	0	9	0
30.1-35.0	7.1	6	0	0	0	0	0	0	9	0
35.1-40.0	9.4	0	0	0	0	0	0	0	3	0
40.1-45.0	11.6	3	0	0	0	0	0	0	2	0
45.1-50.0	13.8	2	1	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		17	1	0	0	0	0	0	34	0
BARK SAMPLES 15 cm x 15 cm	NO. ENTRANC E HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN				
						Attacked Y r	Y r	Unattacked		
5	4	0	3	0	1	0		0		0
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
Polygon 18 hectares with 5% infested pixels (1 pixel). Invested pixel is single attack and captured with probe line and has light sanitation rating.. There are 3 Code 5 older attack scattered through polygon as well, no pattern but on east side of polygon. Site to the east of polygon no signs of attack										
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ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES										
Good access, minimal slopes. Close to mainline road.										

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INCIDENCE AND SEVERITY OF THE INFESTATION

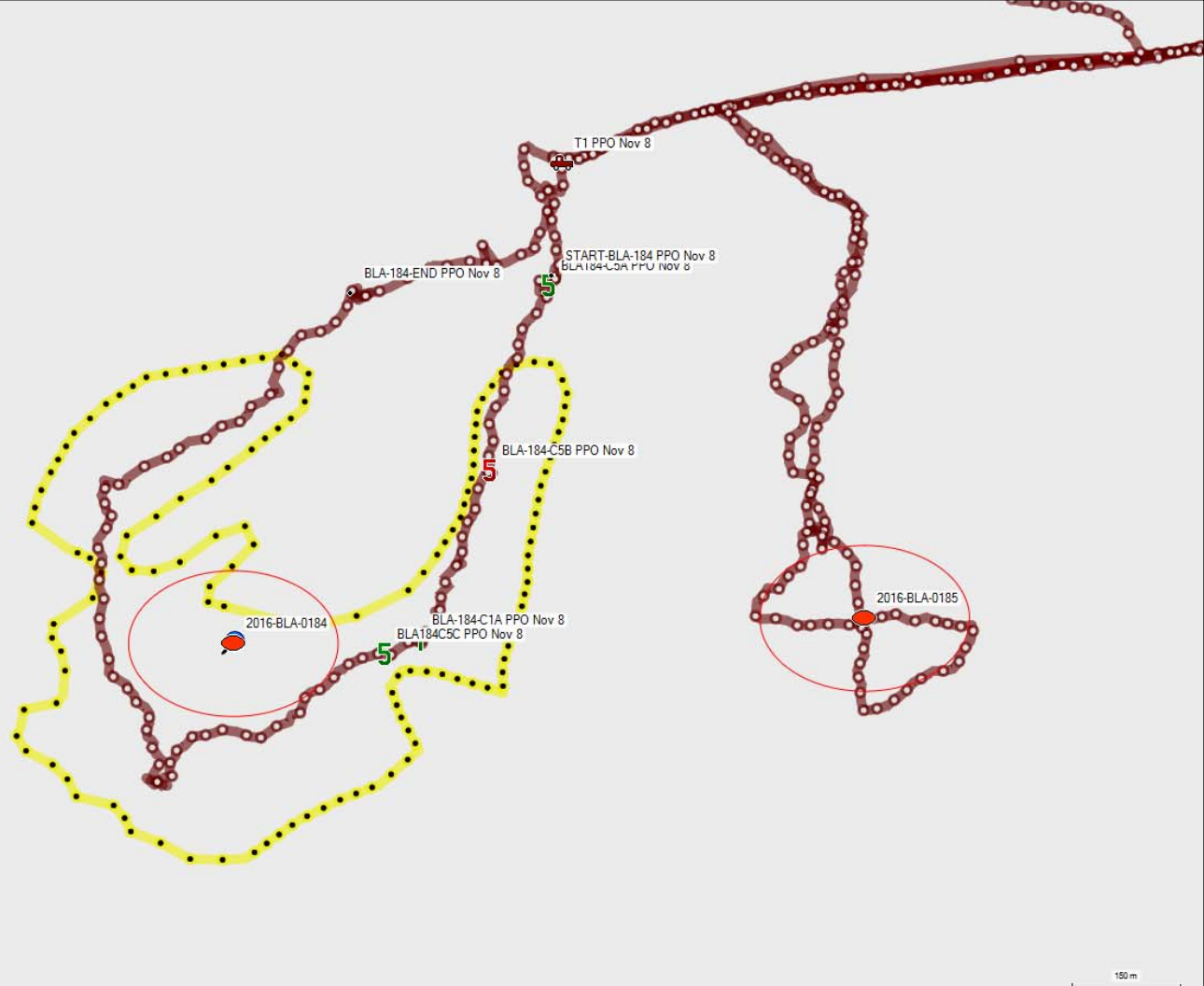
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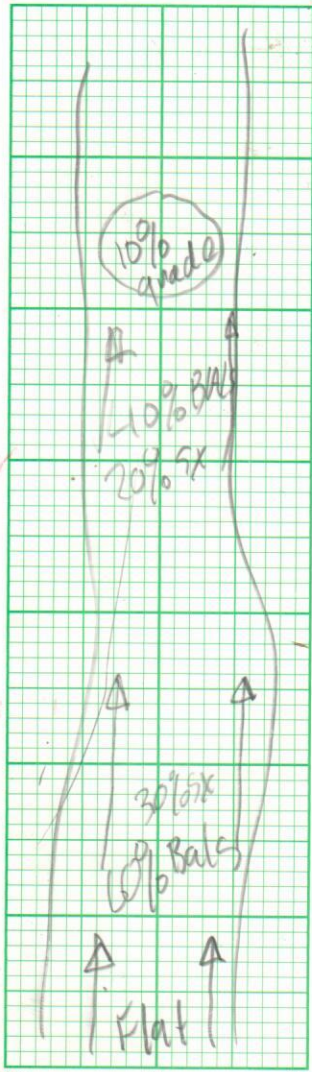
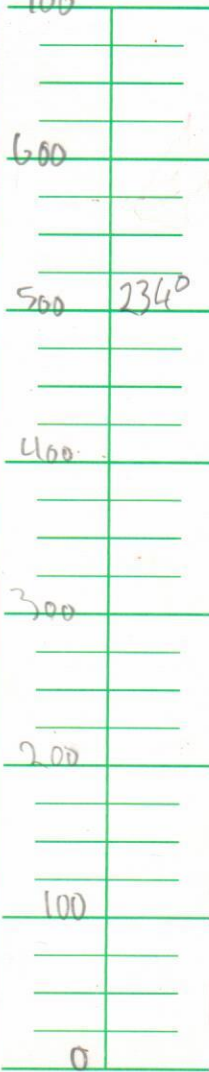
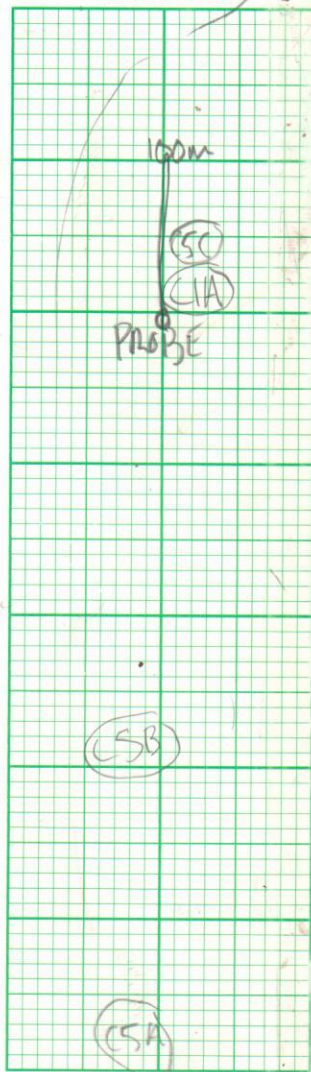
Good access, minimal slopes. Close to mainline road.



TOPOGRAPHY

STRIP No.

TIMBER TYPE



STRIP NO.:

BLA-184
0-700

DIRECTION:

1890

START STRIP:

JOB NO.:

Pat Poirier

DATE:

Nov 8, 16

CREW:

REMARKS:



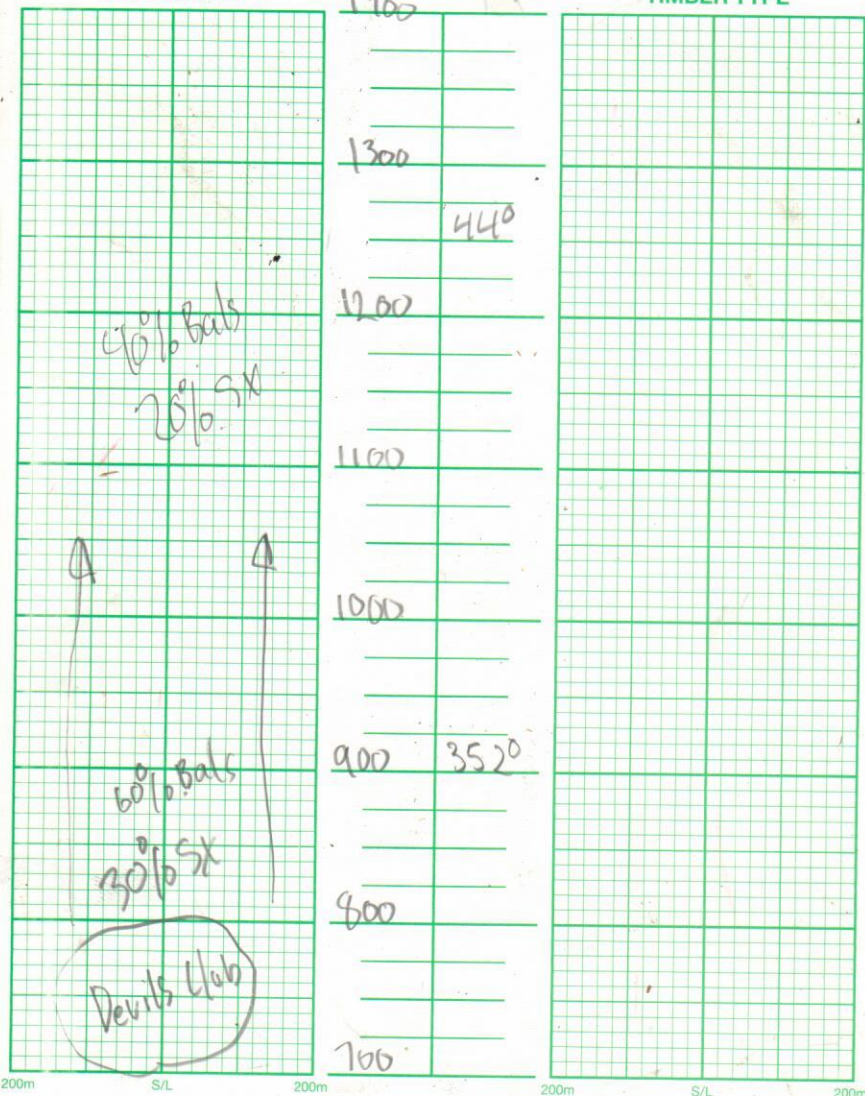
www.irlsupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

700-1400

TIMBER TYPE



STRIP NO.: BLA-1841

DIRECTION: 189°, 352°, 44°

START STRIP: 700-1400

JOB NO.: DATE: NOV 8, 16

CREW: Pat Poiriev

REMARKS:



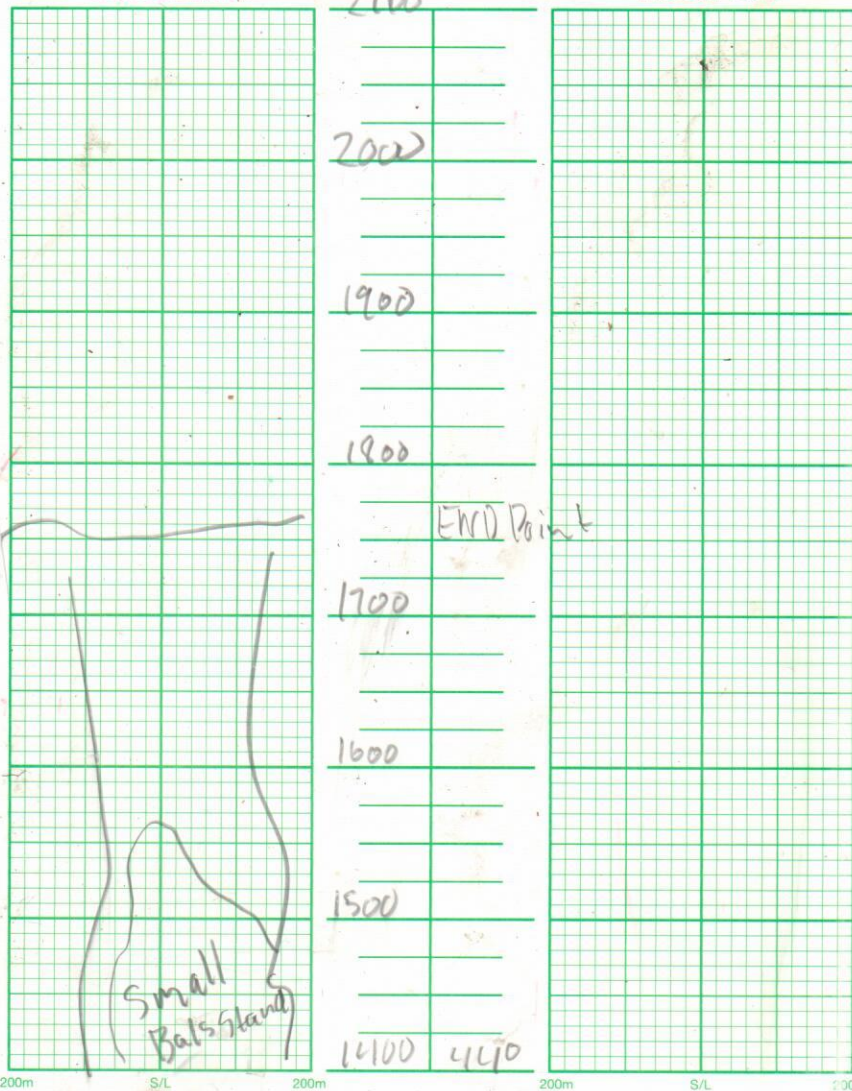
www.irisupplies.com
Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No.

1400-2100

TIMBER TYPE



STRIP NO.:

BLA-184

DIRECTION:

440

START STRIP:

1400 - 1750

JOB NO.:

DATE:

NOV 8, 16

CREW:

Pat Poirier

REMARKS:



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SPRUCE BEETLE PROBE CARD

LOCATION B1A-184		0473702 6126104		PAGE 1 OF 1					
BEARING 2370		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	00							B1
25.1 - 30.0	5.3	00							0
30.1 - 35.0	7.1	11							
35.1 - 40.0	9.4								00
40.1 - 45.0	11.6	00							00
45.1 - 50.0	13.8	00	0						
50.1 - 55.0	16.2								
55.1 - 60.0	18.7								
60.1 +	25.3								
TOTALS		18	1						17
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
1A	3	/	1	/	/	/	/		
1B	1	/	2	/	1	/	/		
COMMENTS 0 = BS									
CREW NAMES Pat Poirier					DATE Y M D 16 11 08				