



SENECA ENTERPRISES LTD.

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SPRUCE BARK BEETLE REPORT FH17DPG218

STAR PROBE# 2016-PHI-0191

344

NUMBER OF CODE 1-4 ATTACK

1

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

LIGHT ATTACK

Grouping of sites PHI-0190, 0191, 0192, 0193 and 0195 along with Polygon 0194. All sites north of road, Polygon 0194 edge of cutblock just off mainline with very light attack. Sites 0191, 0192 and 0195 had single attack around sites mixed with areas of older attack. All sites light sanitation priority ratings and are in areas with lower spruce volumes and areas leading in Balsam. Heavier Blowdown in 0190 and 192 and wetter ground with thick alder patches 0191, 0193 and 0194. No action required.

ACCESS

From truck, walk 800-2.5km North to sites. Polygon 0194 800m, 0190 2.5km.

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

Minimal slopes throughout sites, heavy Blowdown sites 0190 and 0192, wet with heavy alder patches sites 0191, 0193 and 0194. Low volumes of spruce, all sites leading in Balsam.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Light scattered current attack in 0191, 0192, 0194 and 0195 in amongst older code 5 attack. No pattern, just isolated attacks in wetter areas.

INCIDENCE AND SEVERITY OF ATTACK

Light scattered attack with low attack and larval densities and light priority rating.

RISK OF BEETLE SPREAD and SURROUNDING SITES

Minimal, leading in Balsam and while there is attack, difficult to predict which direction coming or going from. Seems to be lightly scattered around wet areas.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

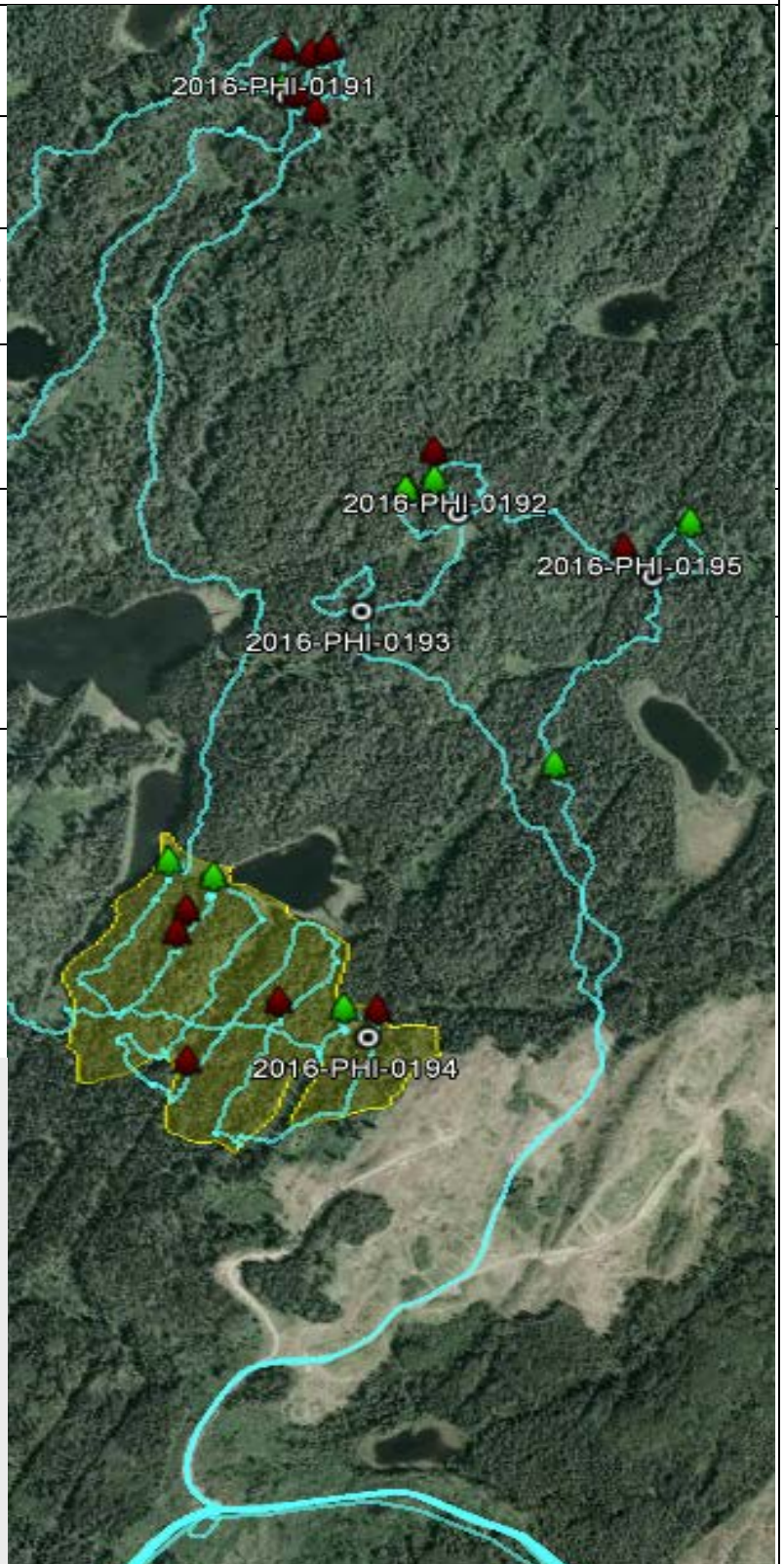
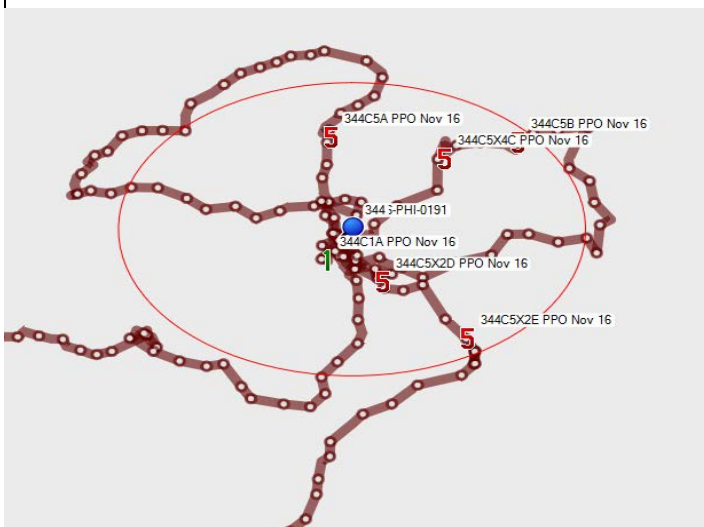
From truck, walk 800-2.5km North to sites. Polygon 0194 800m on edge of an old cutblock, site 0190 2.5km walk in north. Minimal slopes, wet areas throughout with alder patches and some heavier blowdown areas.

RECOMMENDATIONS

OPTION 1 NO ACTION

Light scattered with very low ratings. Low spruce component so attack will be concentrated if flight to a few trees. Poor access with light priority rating. Could fall and burn single trees, but lower attack densities. Monitor area, walkthrough 2017

OPTION 1 MONITOR



Summary			
2016-PHI-0191		344	

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	9.9	0.0	0.0	0.0	0.0	0.0	0.0	23.1
25.1-30.0	5.3	31.8	0.0	0.0	0.0	0.0	0.0	0.0	15.9
30.1-35.0	7.1	78.1	0.0	3.6	0.0	0.0	0.0	0.0	28.4
35.1-40.0	9.4	18.8	0.0	0.0	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	0	0.0	0.0	0.0	0.0	0.0	0.0	11.6
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	142.2	138.6	0.0	3.55	0.0	0.0	0.0	0	88.4

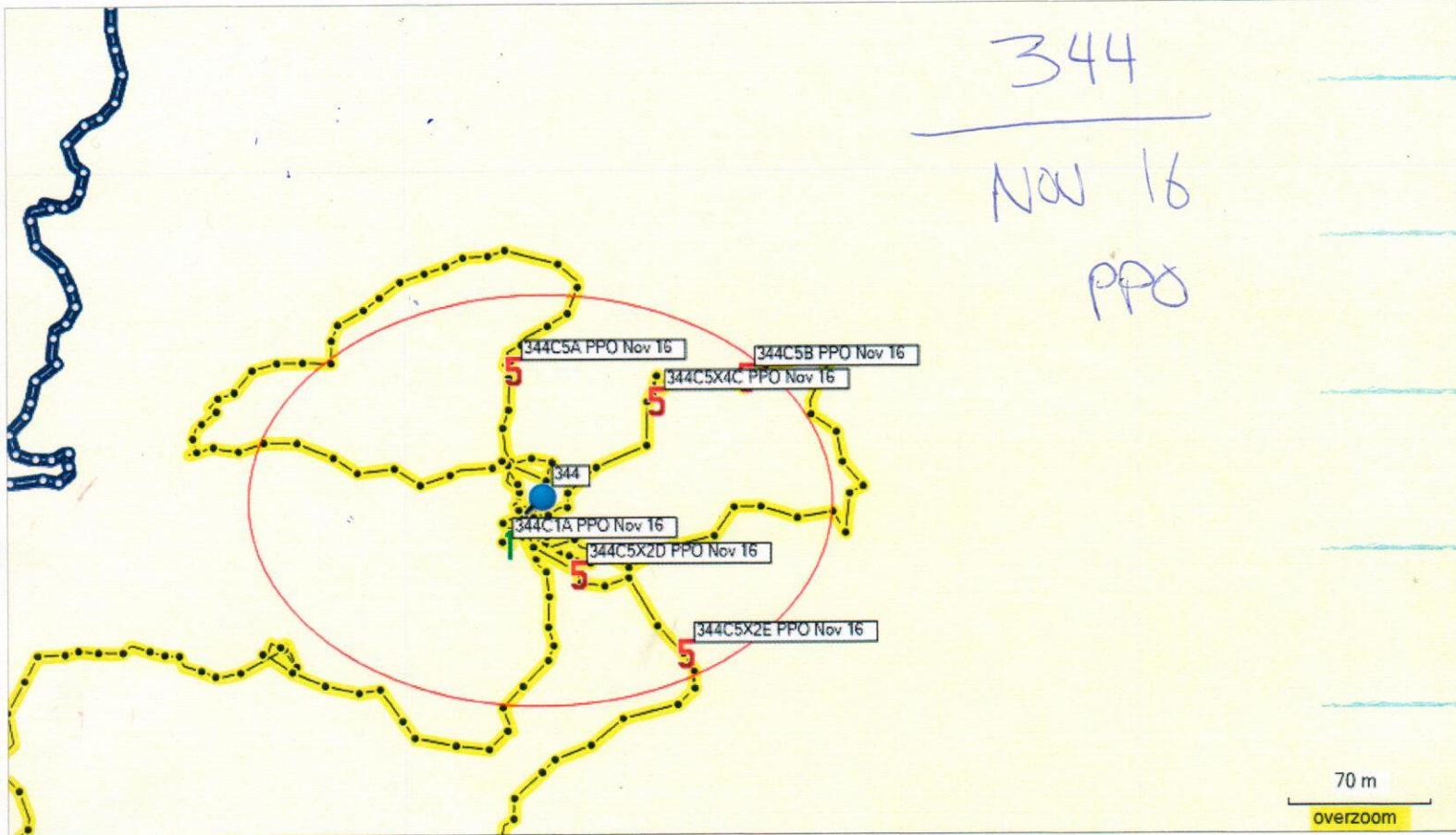
TABLE 4- Spruce Beetle Attack Density and Larval Density Rating				
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density			5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density			15-24.9 HIGH Mean Larval Density
	< 3.9 SEVERE Attack Density			>24.9 EXTREME Mean Larval Density
1.50			2.00	

TABLE 2- Spruce Beetle Management Options after Walkthrough				
% 2016 ATTACK	2.5%	2.5	SANITATION AND SALVAGE HARVEST PRIORITY RATING	
% 2015 ATTACK	0.0%	##	LIGHT 0-599	154.0
% 2014 ATTACK	0.0%	##	MODERATE 600-999	
% HOST IN STAND	61.7%	##	HEAVY 1000+	

SUMMARY OF ALL CARDS FS1111	NUMBER OF CARDS	1
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ACCESS -		From truck, walk 800-2.5km North to sites. Polygon 0194 800m, 0190 2.5km.								
SITE FEATURES -		Minimal slopes throughout sites, heavy Blowdown sites 0190 and 0192, wet with heavy alder patches sites 0191, 0193 and 0194. Low volumes of spruce, all sites leading in Balsam.								
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	PL
17.5-25.0	3.3	3	0	0	0	0	0	0	7	0
25.1-30.0	5.3	6	0	0	0	0	0	0	3	0
30.1-35.0	7.1	11	0	1	0	0	0	0	4	0
35.1-40.0	9.4	2	0	0	0	0	0	0	1	0
40.1-45.0	11.6	0	0	0	0	0	0	0	1	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		22	0	1	0	0	0	0	16	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	3	1	4	0	0	0		0		0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION
Light scattered current attack in 0191, 0192, 0194 and 0195 in amongst older code 5 attack. No pattern, just isolated attacks in wetter areas.
INCIDENCE AND SEVERITY OF THE INFESTATION
Light scattered attack with low attack and larval densities and light priority rating.
RISK OF BEETLE SPREAD
Minimal, leading in Balsam and while there is attack, difficult to predict which direction coming or going from. Seems to be lightly scattered around wet areas.
ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES
From truck, walk 800-2.5km North to sites. Polygon 0194 800m on edge of an old cutblock, site 0190 2.5km walk in north. Minimal slopes, wet areas throughout with alder patches and some heavier blowdown areas.



Attack - C1 = 1
C5 = 10

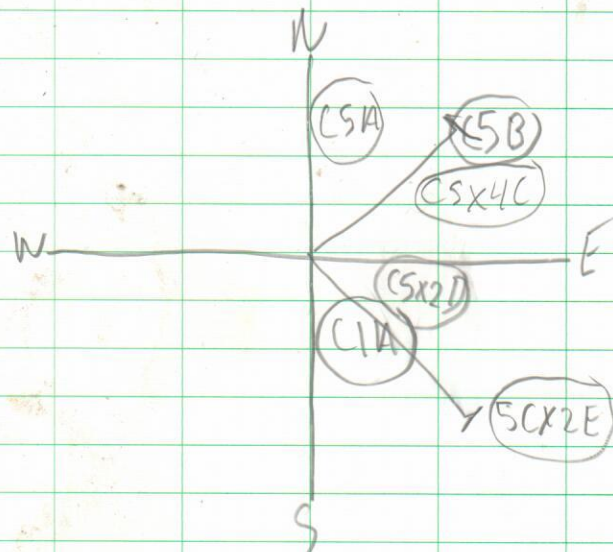
Access - From truck, walk 1.9 km @ 51°

Features - - Heavy alder
- 60% BI, 40% Sx
- slope 0-15°

SPRUCE BEE PROBE CARD

LOCATION 344		0486003 6091202		PAGE 1 OF 1					
BEARING 180°		DISTANCE 100 m		STRIP WIDTH 10 m					
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									
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLS			
						Attacked			
1A	3	1	2	1	1	1	1		
1B	1	1	2	1	1	1	1		
COMMENTS									
CREW NAMES Pat Poirier						DATE Y 16 M 11			

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



Site#344 0486003
6091226

- * Heavy/ AIDER all over site
- * Access from quad 2.5 Km
- * 40% bals 30% 1sx