

**SENECA ENTERPRISES LTD.**

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SPRUCE BARK BEETLE REPORT

FH17DPG218

POLYGON: **2016-PHI-0194**

HECTARES:

25

WALKTHROUGH DISTANCE:

2650ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)**3 11.3%****SUMMARY OF CURRENT INFESTATION**

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 0192 and wetter ground with thick alder patches 0191, 0193 and 0194. No action required.

LIGHT SCATTERED ATTACK**ACCESS**

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

POLYGON 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

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 walkin north. Minimal slopes, wet areas throughout with alder patches and some heavier blowdown areas.

RECOMMENDATIONS**OPTION 1****MONITOR/ 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

SUMMARY OF ALL CARDS FS1111							NUMBER OF CARDS		1	
ACCESS -		From truck, walk 800-2.5km North to sites. Polygon 0194 800m, 0190 2.5km.								
POLYGON 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	AT
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. ENTRAN CE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN				
						Attacked Y r _____	Y r _____	Unattacked		
2	3	1	4	0	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 walkin north. Minimal slopes, wet areas throughout with alder patches and some heavier blowdown areas.										

2016-PHI-0194

25.0 Hectares

Legend

- Older Attack (Code 5-6)
- Polygon
- Recent Attack (Code 1-4)
- Tracks

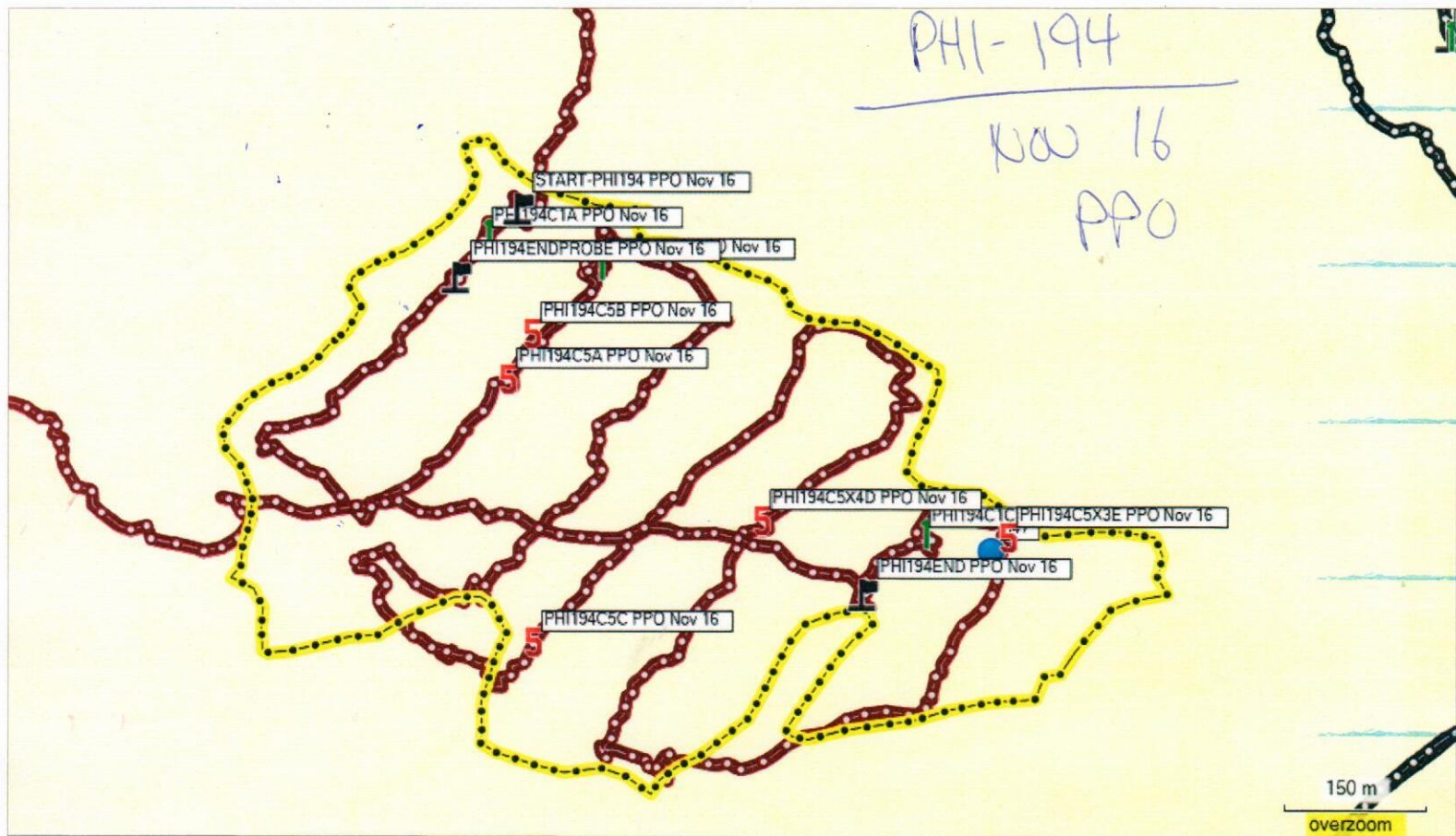
2016-PHI-0194

Google earth

Image © 2016 Province of British Columbia



500 m



Attack - Pixels = 3

CI = 3
CS = 4

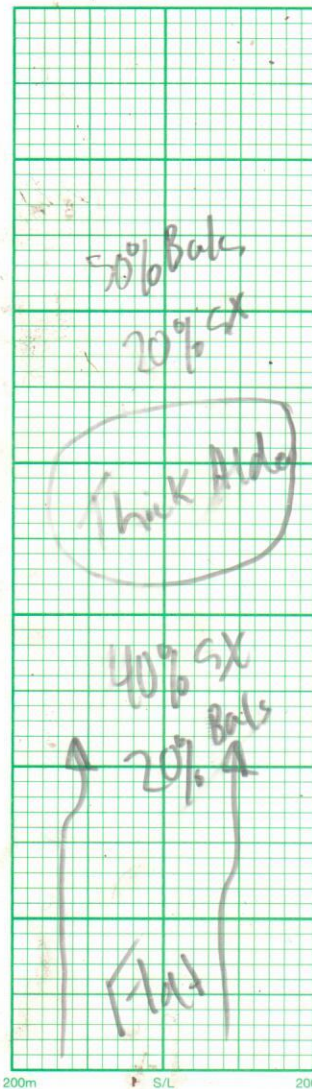
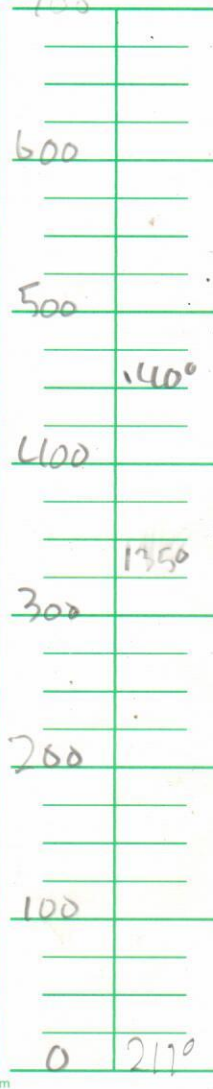
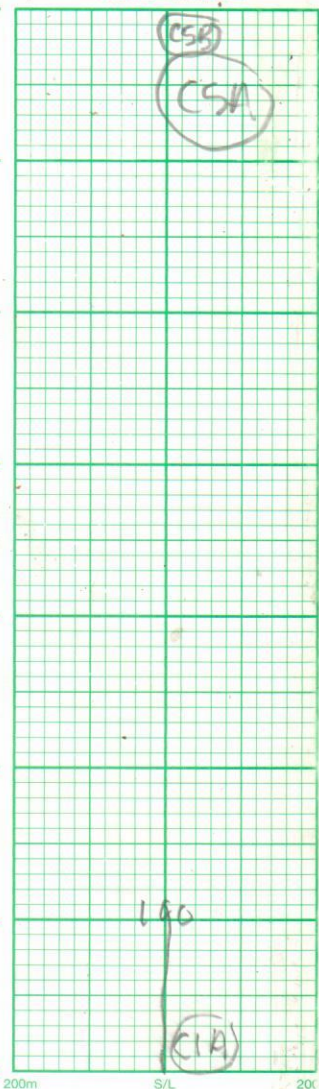
Access - From truck, walk 741 m @ 354°

Features - Areas of thick alder
- Overall, 60% BI, 40% SX
- No major slopes 0-20%

TOPOGRAPHY

STRIP No. 0700

TIMBER TYPE



STRIP NO.: 0-700

DIRECTION: 217°, 135°, 410°

START STRIP:

JOB NO.: PTH-194

DATE: NOV 16, 16

CREW: Pat Poirier

REMARKS:

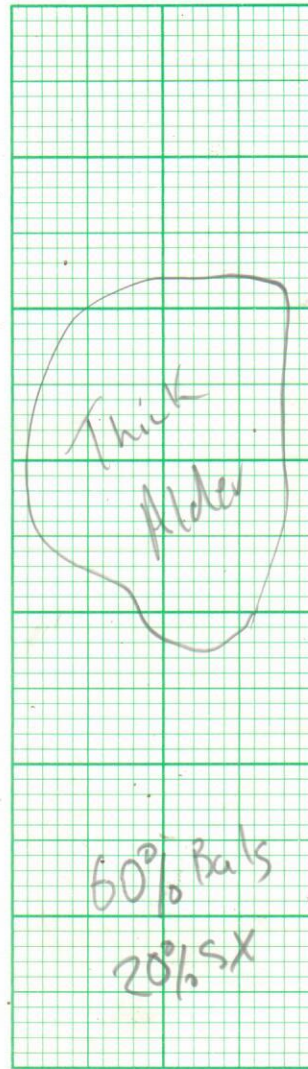
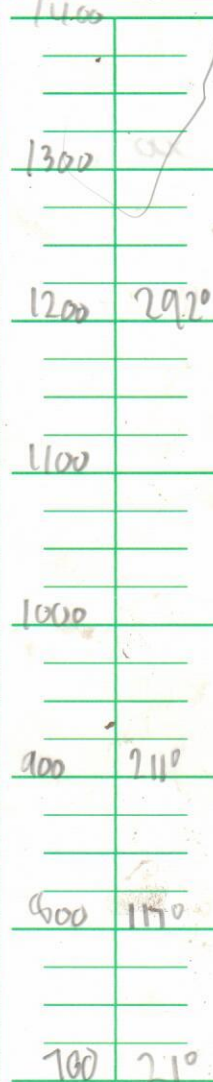
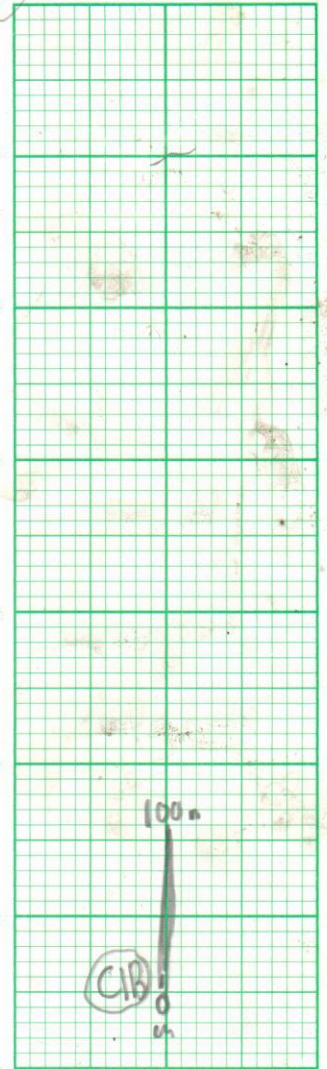


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Ph: 1-800-663-68

TOPOGRAPHY

STRIP No. 1400

TIMBER TYPE



200m

S/L

200m

200m

S/L

200m

STRIP NO.:

700-1400

DIRECTION:

21°, 117°, 211°

START STRIP:

JOB NO.:

PHI-194

DATE:

NOV 16, 16

CREW:

Pat Poirier

REMARKS:

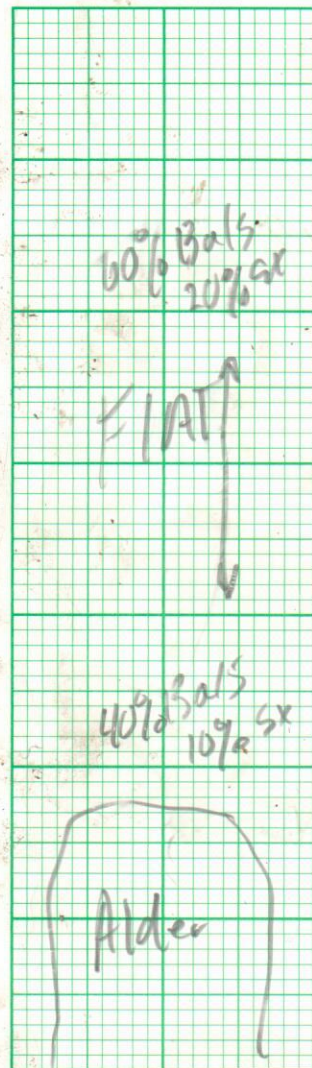
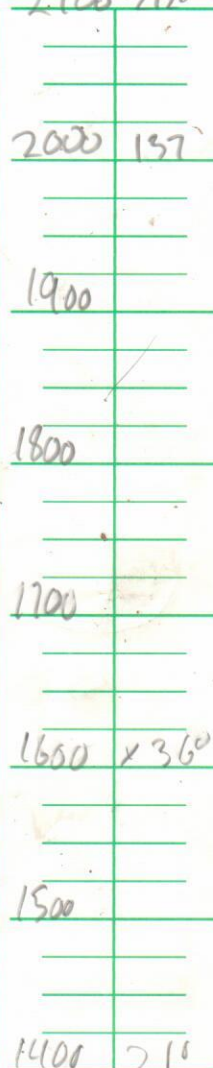
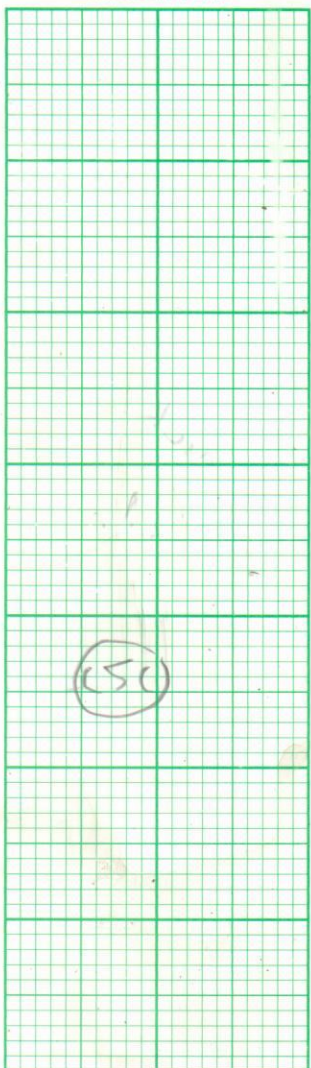


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TOPOGRAPHY

STRIP No. 2100
2100 2120

TIMBER TYPE



200m S/L 200m 200m S/L 200m

STRIP NO.: 1400-2100 DIRECTION: 210, 360, 137, 210
 START STRIP:
 JOB NO.: PH1-194 DATE: Nov 16, 16
 CREW:
 REMARKS:



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TOPOGRAPHY

STRIP No. 2800

TIMBER TYPE

	2900		
	2700		
		330	
	2600	120°	
	2500		
	2400		
2300			
2200			
2100	210°		

STRIP NO.: 2100

DIRECTION:

210°, 120°, 160°

START STRIP:

2100-2800

JOB NO.:

PHJ-196

DATE:

Nov 16, 16

CREW:

Pat Poirivier

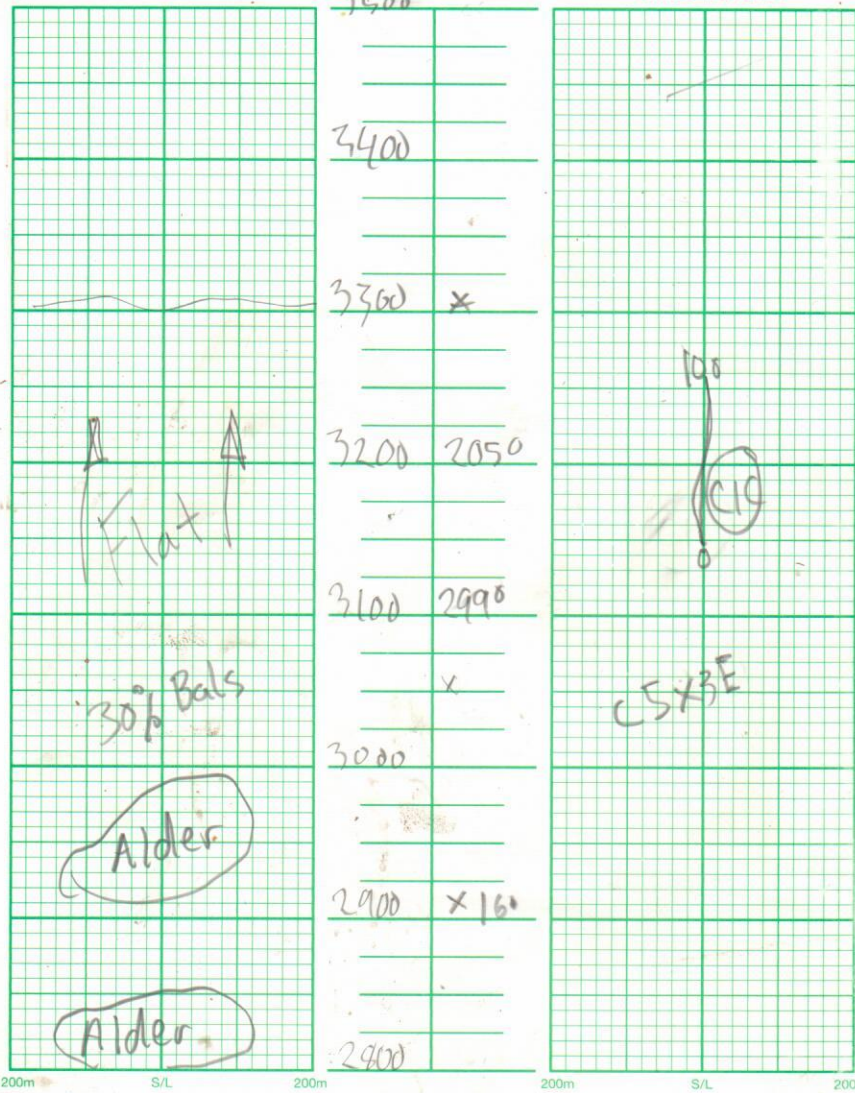
REMARKS:


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TOPOGRAPHY

STRIP No. 3500

TIMBER TYPE



STRIP NO.:

2800

DIRECTION:

16, 299°, 205

START STRIP:

2800/3300

JOB NO.:

PH1194

DATE:

NOV 16, 16

CREW:

Pat Peirier

REMARKS:



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SPRUCE BEE PROBE CARD

LOCATION PHI 194		0485775 6089550		PAGE 1 OF 1					
BEARING 265°		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									
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
1A	1	1	1	1	1	1	1		
1B	1	1	2	1	1	1	1		
COMMENTS was only able to run probe line to 54 meters/swamp									
CREW NAMES Pat Poirier						DATE Y M D 16 11			

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

SPRUCE BEETLE PROBE CARD

LOCATION PHI-194		0485859 6089517		PAGE 2 OF 2					
BEARING 170°		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									
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
2A	3	1	2	1	1	1	1		
2B	1	1	1	1	1	1	1		
COMMENTS									
CREW NAMES Pat Poirier						DATE Y M D 16 11 15			

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

SPRUCE BEETLE PROBE CARD

LOCATION PHI-194		0486697 6089236		PAGE 2 OF 2					
BEARING 205°		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									
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN			
						Attacked	Unattacked		
2A	2	/	1	/	1	/	/		
2B	1	/	2	/	/	/	/		
COMMENTS									
CREW NAMES Pat Poirier						DATE Y M D 16 11 16			