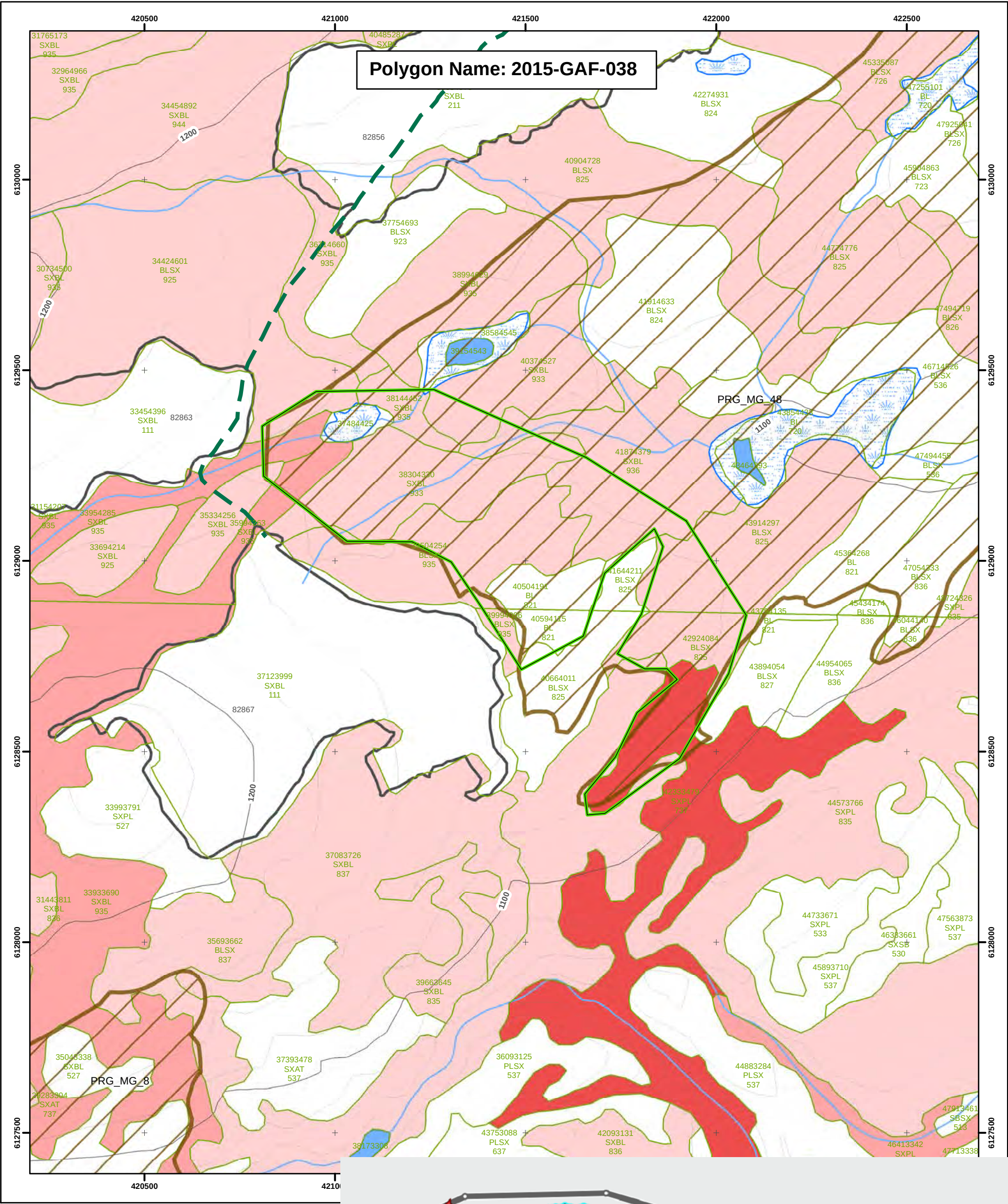




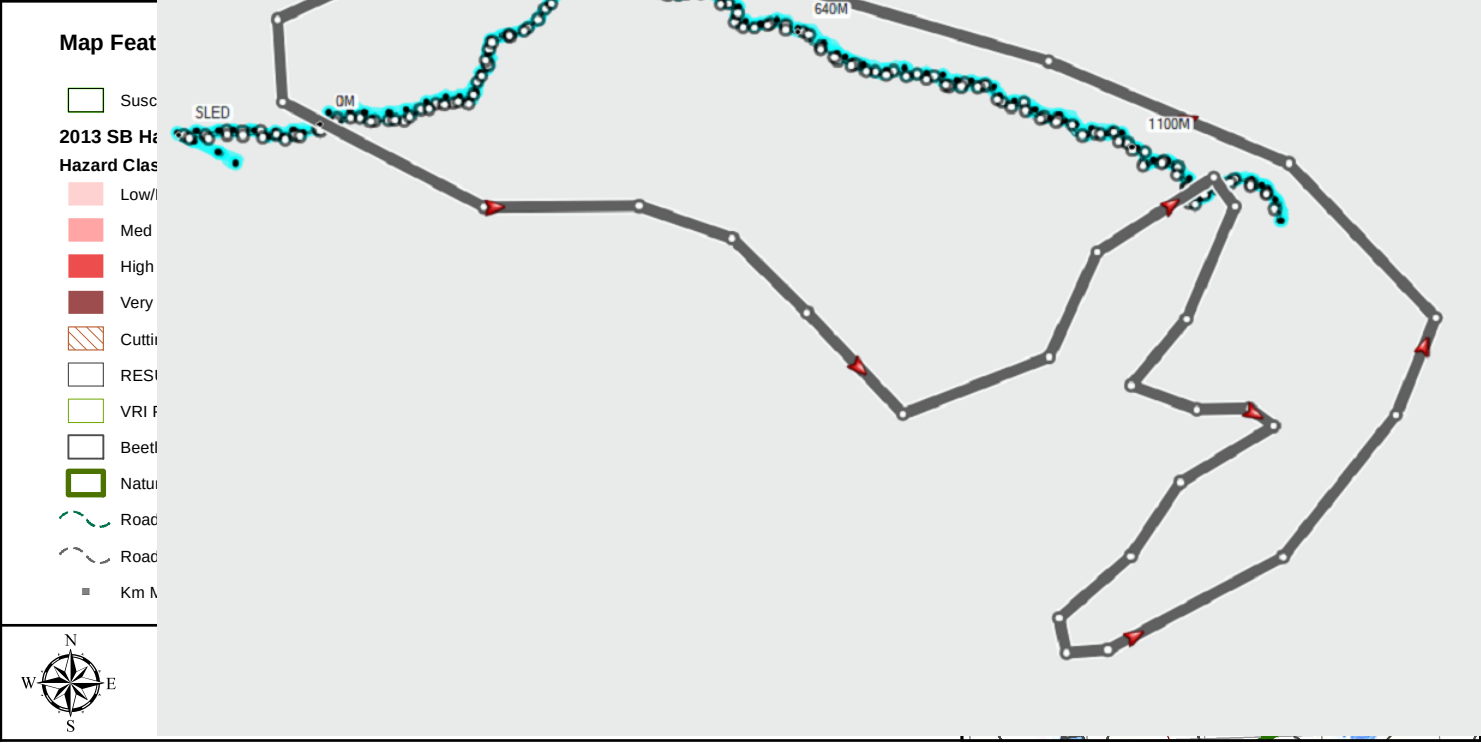


Ministry of
Forests, Lands and
Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-GAF-038

Landscape Unit/BMU:	Gaffney
Region:	Omineca
District:	Mackenzie
Mapsheet:	093N08
Hectares:	54.32
Scale:	1:10,000
When plotted on 11x17	
Coordinate System:	NAD 1983 UTM Zone 10N
Datum:	North American 1983
Date Drawn:	02/12/2015
Drawn By:	msnively



**SENECA ENTERPRISES LTD.**

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Phone: (250) 561-0890, Fax: (250) 564-3275

**SPRUCE BARK BEETLE REPORT
FH16DMK016,017**

POLYGON: 2015-GAF-038

HECTARES:

54.32

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 minimal spruce component. Walkthrough did not reach east finger as run out of time but much the same expected in the finger from looking that way. (long walk, difficult conditions)

NO CURRENT ATTACK**ACCESS**

Access via for 20km+ one way along road to the west portion of polygon.

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

Slopes rise from 0% in the north to 25-35% in the south. 80% of the polygon was balsam, walkthrough tried to target most of the spruce component in the north. Areas with heavy understory balsam.

SIZE, BOUNDARY and PATTERN OF INFESTATION

No current or old attack found. With Sledding 20km and difficult walking, only made it 3/4 way through polygon and didn't get a chance to walk East finger although appeared to be much the same. (Balsam dominating)

INCIDENCE AND SEVERITY OF ATTACK

No current or old attack found. Spruce stand was generally in the north between 800-1200 m along the walkthrough line.

RISK OF BEETLE SPREAD

No attack and minimal spruce. Cutblock to west and low risk of beetle spread.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access if road plowed (assume) but had to sled 20km one way to north of polygon. Difficult given conditions.

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

NO action as no current or old attack found, Stand had minimal spruce.

OPTION 2**MONITOR**

With minimal spruce component in polygon and with no attack, can schedule a walkthrough to encompass furthest east finger as couldn't reach it in time allowed with 20km sled and difficult walking conditions.

2015-GAF-038

SPRUCE BEETLE WALKTHROUGH

Legend

 NO ATTACK

SLED

0M

640M

1100M

Google earth

Image © 2016 DigitalGlobe

Image © 2016 Province of British Columbia



600 m

Summary						
2015-GAF-038	HEC	54.32	METERS WALKED	1500	% TRAVERSED	2.8%
PIXELS COVERED BY WALKTHROUGH	15	INFESTED PIXELS	0	ESTIMATED % OF BLOCK INFESTED (From Walk through)		0.0%

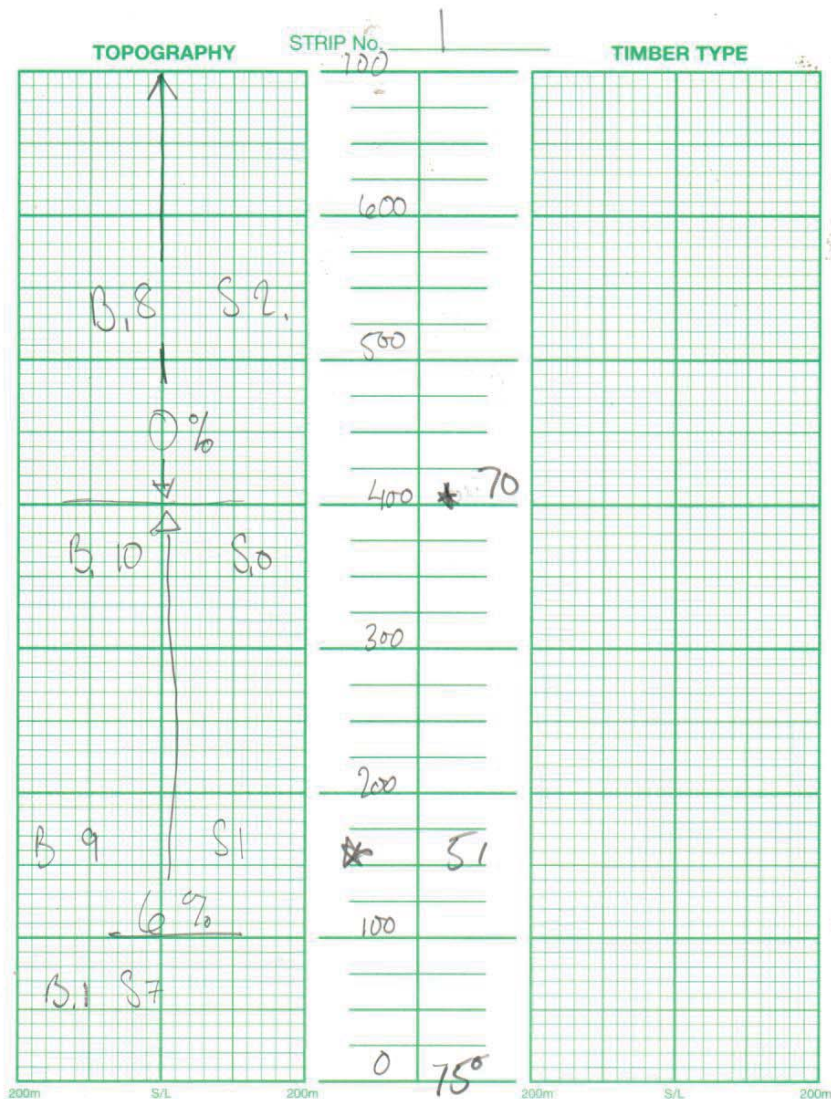
OF NOTE- Results taken from a 100m Probe Line established at 1 per 50 hectares to represent

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 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 PROBE LINE ESTABLISHED. NO BEETLE FOUND

SUMMARY OF ALL CARDS FS1111						NUMBER OF CARDS		0		
ACCESS -		Access via for 20km+ one way along road to the west portion of polygon.								
POLYGON FEATURES -		Slopes rise from 0% in the north to 25-35% in the south. 80% of the polygon was balsam, walkthrough tried to target most of the spruce component in the north. Areas with heavy understory 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	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	0	
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
No current or old attack found. With Sledding 20km and difficult walking, only made it 3/4 way through polygon and didn't get a chance to walk East finger although appeared to be much the same. (Balsam dominating)										
INCIDENCE AND SEVERITY OF THE INFESTATION										
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ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES										
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STRIP NO.: 1 DIRECTION: 75° 51° / 70

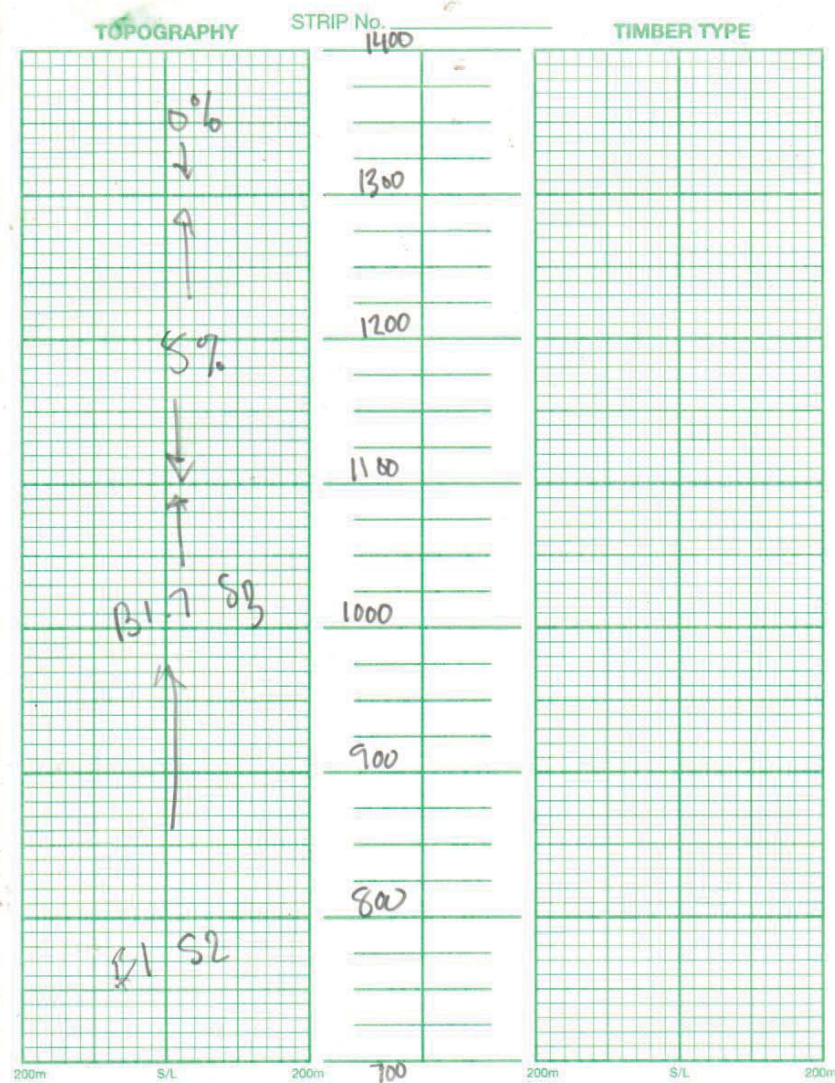
START STRIP: 0 m

JOB NO.: GAF - 038 DATE: JAN 18 / 16

CREW: Durrell James

REMARKS: No Attack

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STRIP NO.: 1 DIRECTION: 70°

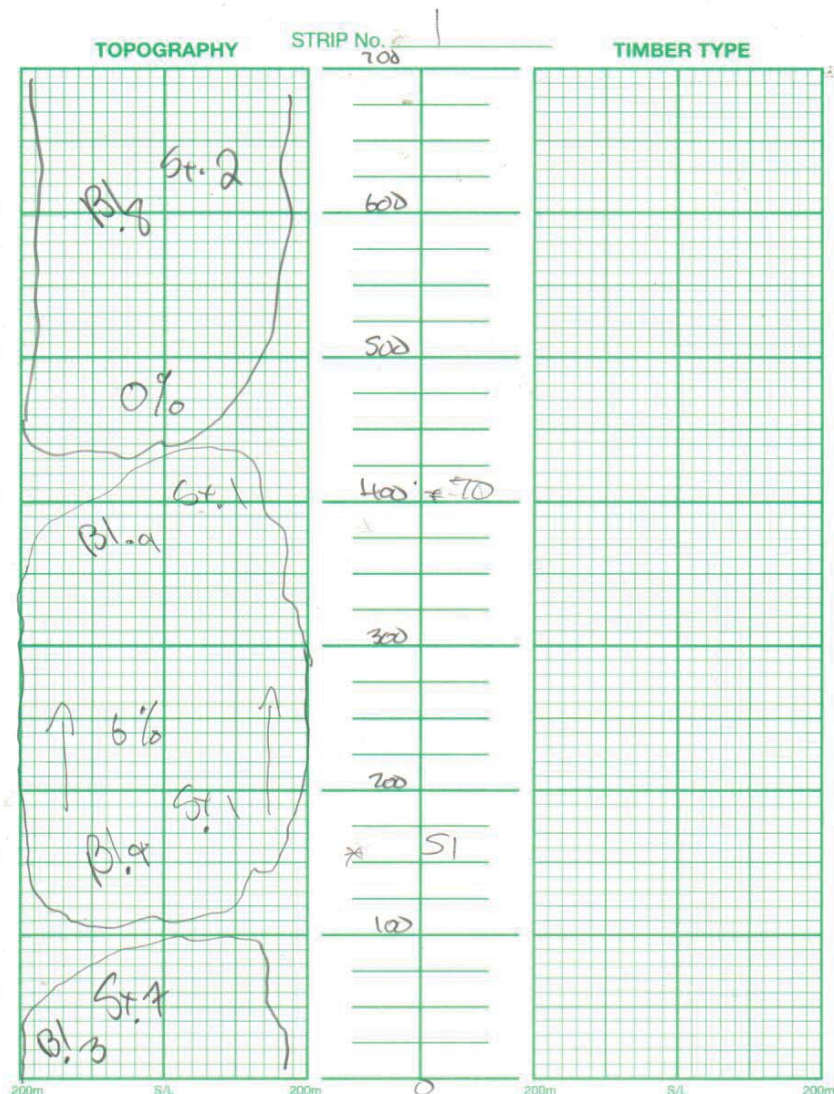
START STRIP: 700 m

JOB NO.: GAF - 038 DATE: JAN 18 / 16

CREW: Durrell James

REMARKS: No Attack

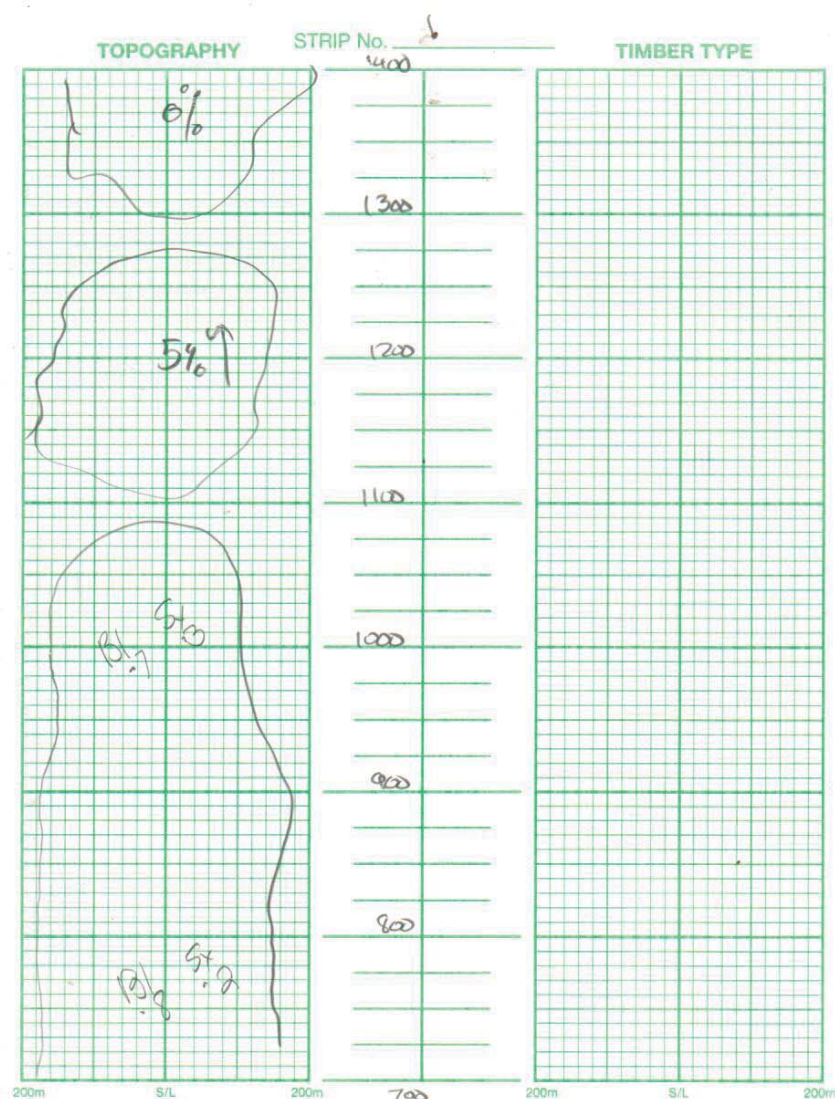
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STRIP NO.: 1 DIRECTION: 75°, S1, 70
 START STRIP: 0m
 JOB NO.: GAP-038 DATE: JAN 18 / 2016
 CREW: James / Darryl
 REMARKS: No attack



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STRIP NO.: 1 DIRECTION: 70°
 START STRIP: 700m
 JOB NO.: GAP-038 DATE: JAN 18 / 2016
 CREW: James / Kelly
 REMARKS: No Attack



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