Polygon Name: 2014-BLA-047

SCATTERED
LIGHT ATTACK

BLA047ST2-700
PROBE 1
BLA 047 CC 40'
BLA 047 S1 DP 700M
BLA047ST2-0M
BLA047 S1 DP STOP
BLA 047 S1 DP START
BLA 047 CC320'

477000
478000
6129000
6128000
6127000

Spruce Bark Beetle Field Map

Polygon Name: 2014-BLA-047

Landscape Unit/BMU:	Blackwater
Region:	Omineca
District:	Mackenzie
Mapsheet:	093O06
Hectares:	43.95
Scale:	1:10,000
When plotted on 11x17	
Coordinate System:	PCS Albers
Datum:	North American 1983
Date Drawn:	03/06/2015
Drawn By:	msnively

Map Features

- Susceptible Spruce Bark Beetle Polygon

2013 SB Hazard Rating (20% increments)

Hazard Classes

- Low/Med (21-40)
- Med (41-60)
- High (61-80)
- Very High (81-100)
- Cutting Permit
- RESULTS Opening
- Landscape Unit
- Road Permit Active
- Road Permit Pending
- Km_Marker_Points
- Communities
- First Nations Reserves
- Mackenzie District
- OGMA Legal Current
- Ungulate Winter Range
- Wildlife Habitat Area

Protected Lands Designation

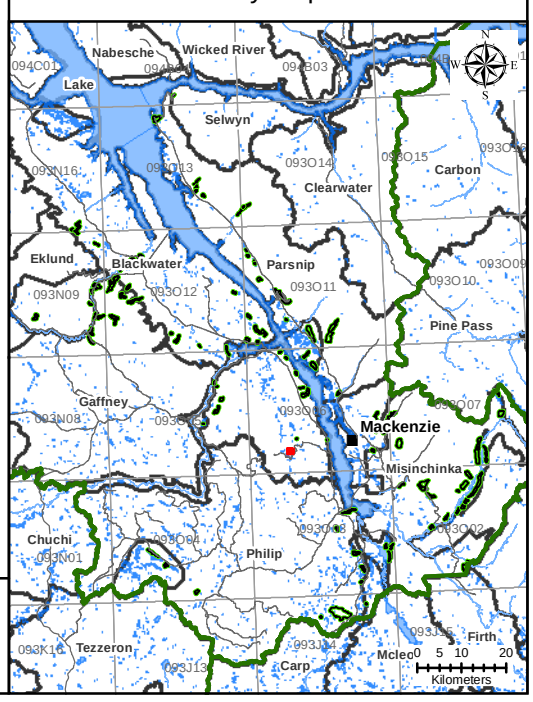
- Ecological Reserve
- Protected Area
- Provincial Park
- Contour - Index
- Contour - Intermediate
- Streams
- Lakes and Rivers
- Wetlands

0 0.1 0.2 0.4 Kilometers

Disclaimer

The accuracy and completeness of the information on this map is not guaranteed.

Key Map



SENECA ENTERPRISES LTD.
PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3
Phone: (250) 561-0890, Fax: (250) 564-3275

SPRUCE BARK BEETLE REPORT FH16DMK010

POLYGON: **2014-BLA-047** HECTARES: 43.95

WALKTHROUGH DISTANCE: 3000

ESTIMATED INFFESTED PIXELS FROM WALKTHROUGH (Code 1-4) 4 **13.3%**

SUMMARY OF CURRENT INFESTATION

From walkthrough determined that 13% of polygon had infested pixels. From that there were 4 code 1 attacked trees found spread out over 100m between, and were mainly on the North edge of Polygon. One probe line determined a low to moderate attack and larval density and a Light sanitation and salvage rating. Attack is scattered and polygon is isolated away from any good access points.

LIGHT SCATTERED ATTACK

ACCESS

Access to the east of polygon by walking in 800m. Very steep pitches on walk to polygon.

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

Very flat polygon with 50/50 Sruce Balsam stand on average. Average DBH 35-40cm.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Polygon 43 Hectares and only 4 code 1;s found in walkthrough amonngst pockets of older Code 5 attack. Scattered in two areas.

INCIDENCE AND SEVERITY OF ATTACK

One probe line established where one attacked tree found and had moderate attack density, low larval density. Patchy sproadic attack amomngst older Code 5 attack, lighter attack density.

RISK OF BEETLE SPREAD

Polygon has pockets of attack but at a low rate of spread,

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Poor access as sort of an isolated polygon with difficult walk in for crew. May have to explore coming from cutblock to north as quite steep coming from the east. Polygon itself flat with little resouces issues within it.

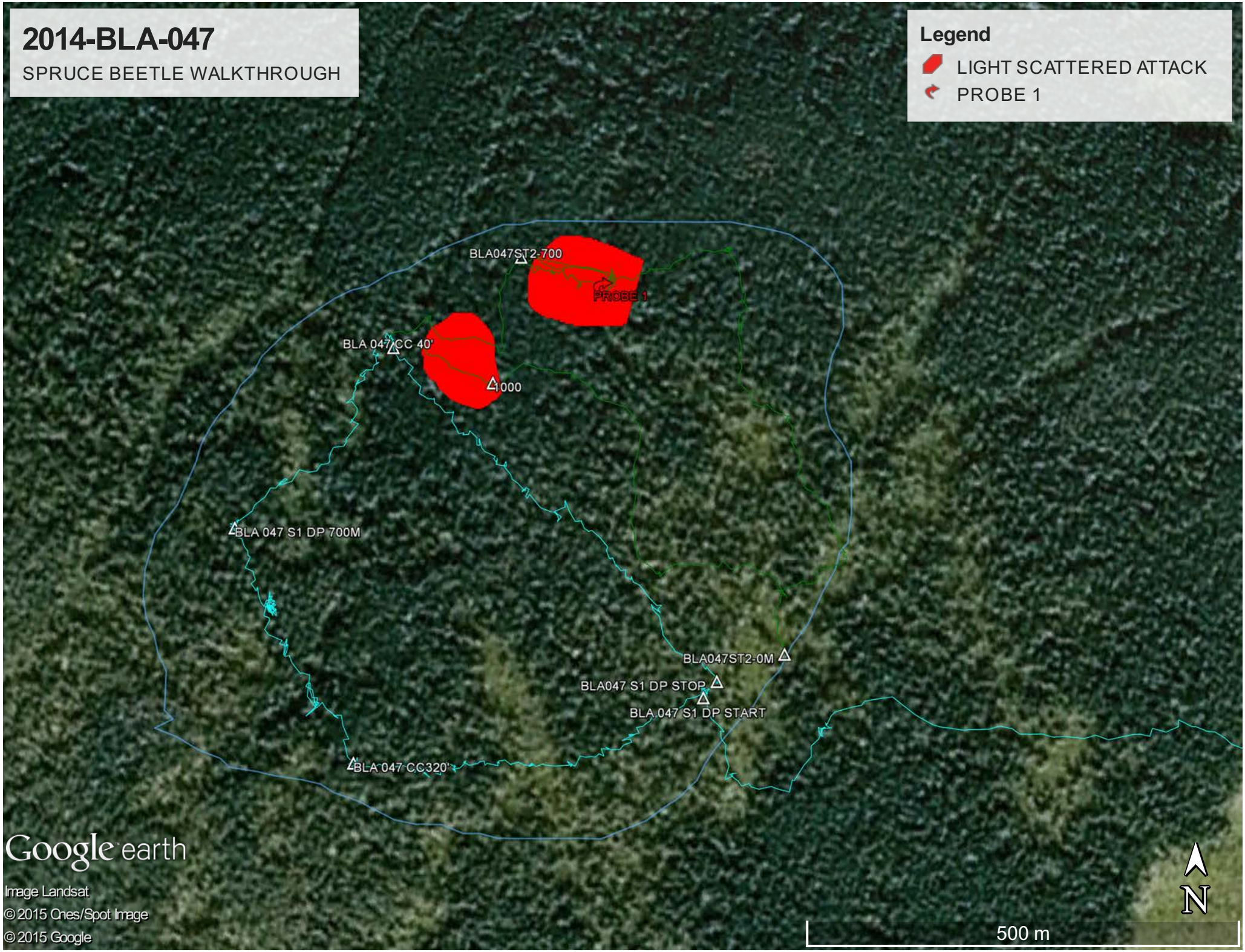
RECOMMENDATIONS

OPTION 1 **MONITOR**

With access poor and scattered attack along with a low sanitation rating, recommmend monitoring by scheduling another walkthrough 2016.

OPTION 2 **PROBE/ BAIT**

Could also schedule a mini probe in concentrated areas identified and a Bait program or fall and burn single trees. Both areas located to the northern portions of polygon.


2014-BLA-047
SPRUCE BEETLE WALKTHROUGH
Legend
LIGHT SCATTERED ATTACK
PROBE 1
BLA047ST2-700
PROBE 1
BLA 047 CC 40'
1000
BLA 047 S1 DP 700M
BLA047ST2-0M
BLA047 S1 DP STOP
BLA 047 S1 DP START
BLA 047 CC320'
Google earth
Image Landsat
© 2015 Cnes/Spot Image
© 2015 Google
N
500 m

Summary

2014-BLA-047	HEC	43.95	METERS WALKED	3000	% TRAVERSED	6.8%
PIXELS COVERED BY WALKTHROUGH	30	INFESTED PIXELS	4	**ESTIMATED % OF BLOCK INFESTED (From Walk through)**		**13.3%**

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	3.3	0.0	0.0	0.0	0.0	0.0	0.0	9.9
25.1-30.0	5.3	15.9	0.0	0.0	0.0	0.0	5.3	0.0	53
30.1-35.0	7.1	21.3	0.0	0.0	0.0	0.0	0.0	0.0	71
35.1-40.0	9.4	37.6	0.0	0.0	0.0	0.0	9.4	0.0	94
40.1-45.0	11.6	46.4	0.0	0.0	0.0	0.0	0.0	0.0	81.2
45.1-50.0	13.8	13.8	0.0	0.0	0.0	0.0	0.0	0.0	82.8
50.1-55.0	16.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	64.8
55.1-60.0	18.7	0	18.7	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	187.9	154.5	18.7	0	0.0	0.0	14.7	0	456.7

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE		MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	
	< 1 LOW Attack Density		< 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
1.50	< 3.9 SEVERE Attack Density	**2.50**	>24.9 EXTREME Mean Larval Density

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2015 ATTACK	10.0%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	347.1
% 2013 ATTACK	7.8%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	29.1%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

FROM 1 PROBE LINE

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS 1

ACCESS - Access to the east of polygon by walking in 800m. Very steep pitches on walk to polygon.

POLYGON FEATURES - Very flat polygon with 50/50 Sruce Balsam stand on average. Average DBH 35-40cm.

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	1	0	0	0	0	0	0	3	0
25.1-30.0	5.3	3	0	0	0	0	1	0	10	0
30.1-35.0	7.1	3	0	0	0	0	0	0	10	0
35.1-40.0	9.4	4	0	0	0	0	1	0	10	0
40.1-45.0	11.6	4	0	0	0	0	0	0	7	0
45.1-50.0	13.8	1	0	0	0	0	0	0	6	0
50.1-55.0	16.2	1	0	0	0	0	0	0	4	0
55.1-60.0	18.7	0	1	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	2	0	50	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	0	5	0	2	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

Polygon 43 Hectares and only 4 code 1;s found in walkthrough amonngst pockets of older Code 5 attack. Scattered in two areas.

INCIDENCE AND SEVERITY OF THE INFESTATION

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RISK OF BEETLE SPREAD

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ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Poor access as sort of an isolated polygon with difficult walk in for crew. May have to explore coming from cutblock to north as quite steep coming from the east. Polygon itself flat with little resouces issues within it.

BLA-047 Probe 1

SPRUCE BEETLE PROBE CARD

LOCATION		PAGE	OF
55°17'49.3"	123°21'12.0"	1	1
BEARING	**DISTANCE**	**STRIP WIDTH**	
268°	100m	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	1							///
25.1 - 30.0	5.3	///					1		
30.1 - 35.0	7.1	///							
35.1 - 40.0	9.4	////					1		
40.1 - 45.0	11.6	////							
45.1 - 50.0	13.8	1							///
50.1 - 55.0	16.2	1							///
55.1 - 60.0	18.7		1						
60.1 +	25.3								
TOTALS		17	1				2		47

BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN		
						Attacked		Unattacked
N	15	0	4	0	2			
S	12	0	1	0	0			

COMMENTS: one sx with beetle - two fives - flat terrain

CREW NAMES: Don & Dave

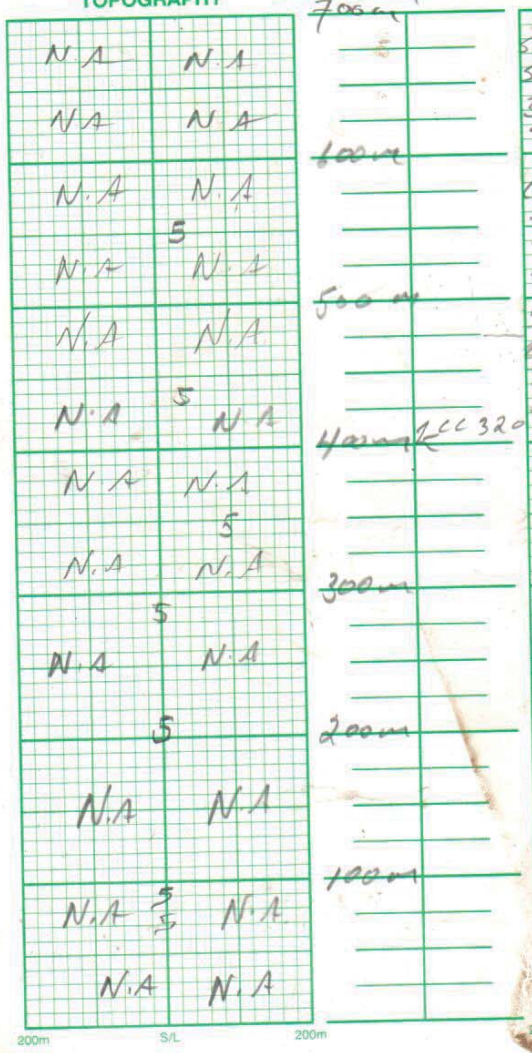
DATE: Y 15 M 10 D 28

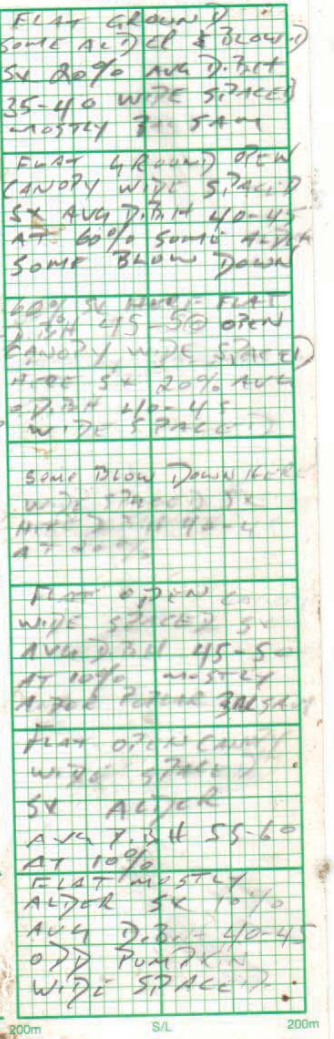
FS 1111 RRC 2000/01 7530881048 (100/bd)

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE





STRIP NO.: 1 DIRECTION: 260°

START STRIP: 0 - M

JOB NO.: DATE: OCT/28/15

CREW: BLA-047 Dan & Dave

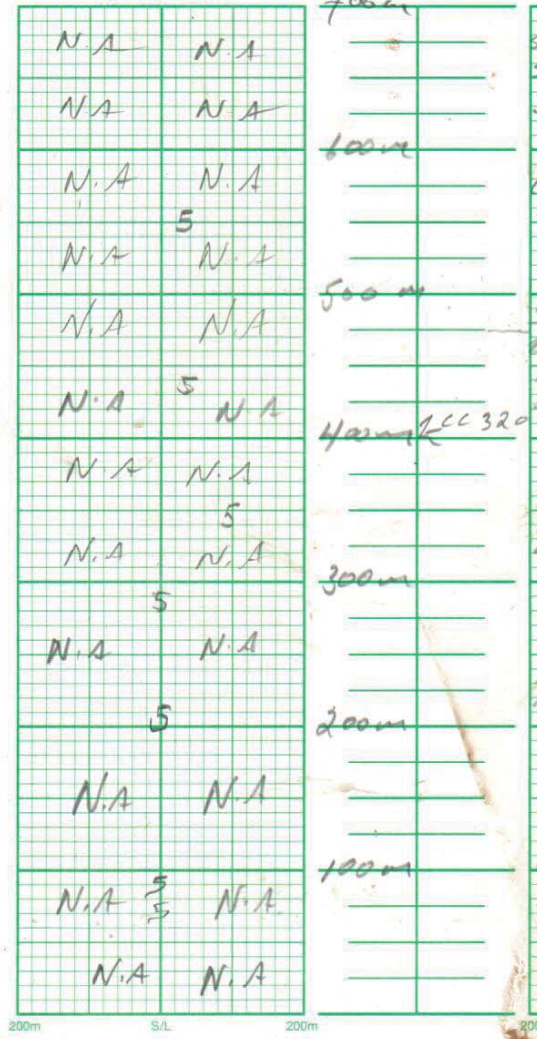
REMARKS:

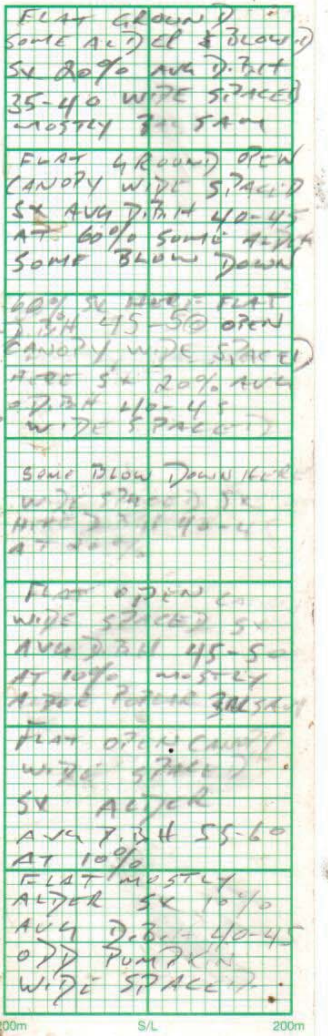
irl www.irlsupplies.com Ph: 1-800-663-6843

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE





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STRIP No. BLA-047

TOPOGRAPHY

210°
End Probe
Probe 1
268°
no attack
33°
no attack
alder patch

TIMBER TYPE

700
70% Balsam
30% SX
600
70% Balsam
30% SX
500
Flat
SX - 20 - 40
50% SX
50% Balsam
400
Flat
SX - 20 - 50
70% SX
30% Balsam
300
flat
SX - 40 - 60
90% SX
10% Balsam
200
flat
wide spaced
SX - 40 - 80
80% SX
20% Balsam
100
flat terrain
SX - 40 - 80
80% SX
20% Balsam

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

STRIP NO.: 2 DIRECTION: 40°
START STRIP:
JOB NO.: DATE: 15/10/28
CREW: Don & Dave
REMARKS:

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

STRIP No. BLA-047

TOPOGRAPHY

no attack
no attack
no attack
alder patch
no attack

TIMBER TYPE

1400
flat terrain
SX - 20 - 50
1300
flat terrain
SX - 20 - 40
1200
flat terrain
SX - 30 - 80
1100
gentle slope
SX - 30 - 60
1000
gentle slope
SX - 20 - 50
900
gentle slope
SX - 30 - 60
800
gentle slope
SX - 40 - 70
80% SX
20% Balsam
50% SX
50% Balsam
60% SX
40% Balsam
70% SX
30% Balsam
50% SX
50% Balsam
60% SX
40% SX

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

STRIP NO.: 2 DIRECTION: 210°
START STRIP:
JOB NO.: DATE: 15/10/28
CREW: Don & Dave
REMARKS:

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