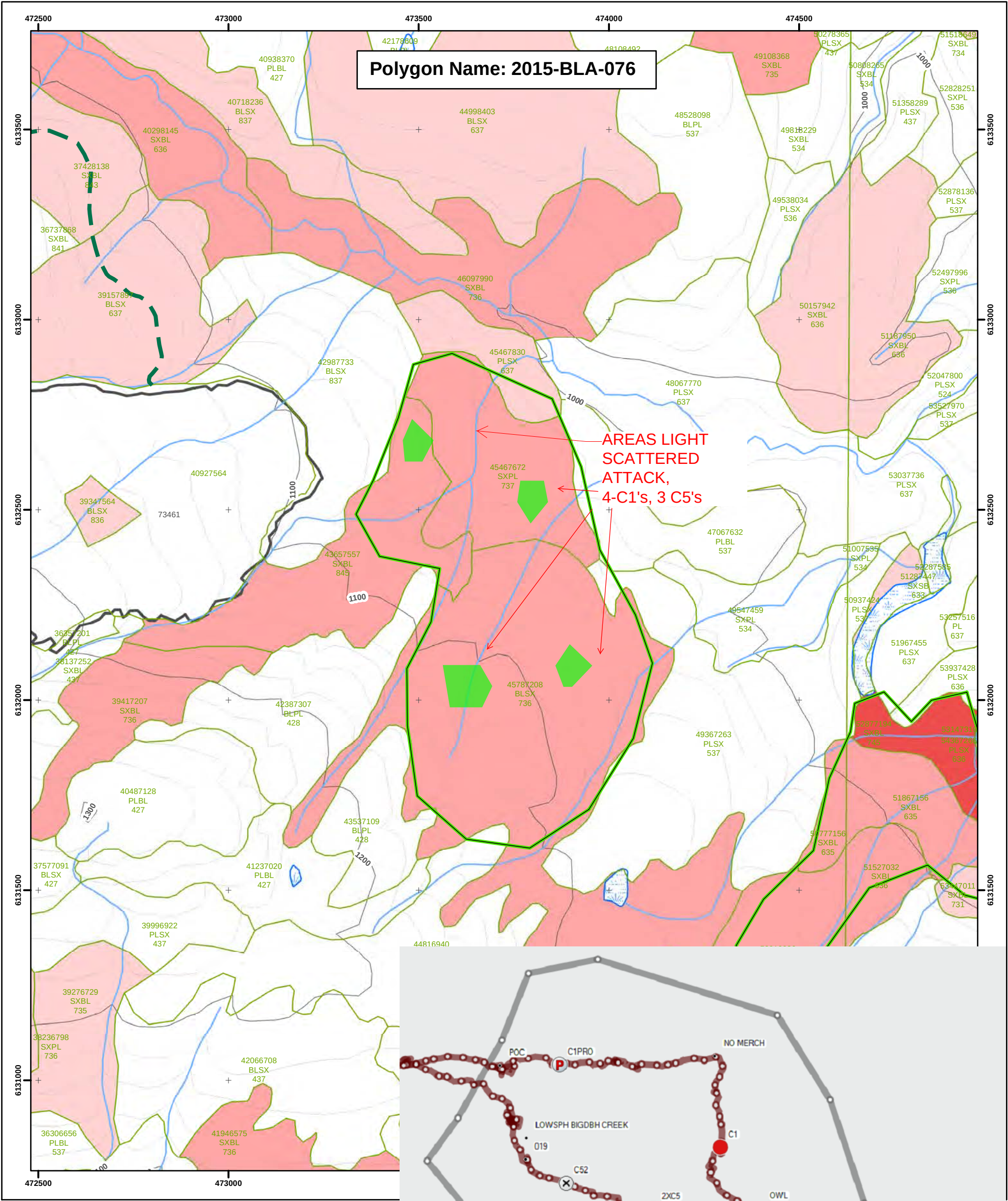






Ministry of
Forests, Lands and
Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-BLA-076

Landscape Unit/BMU: Blackwater

Region: Omineca

District: Mackenzie

Mapsheet: 093O06

Hectares: 64.39

Scale: 1:10,000

When plotted on 11x17

Coordinate System: NAD 1983 UTM Zone 10N

Datum: North American 1983

Date Drawn: 03/12/2015

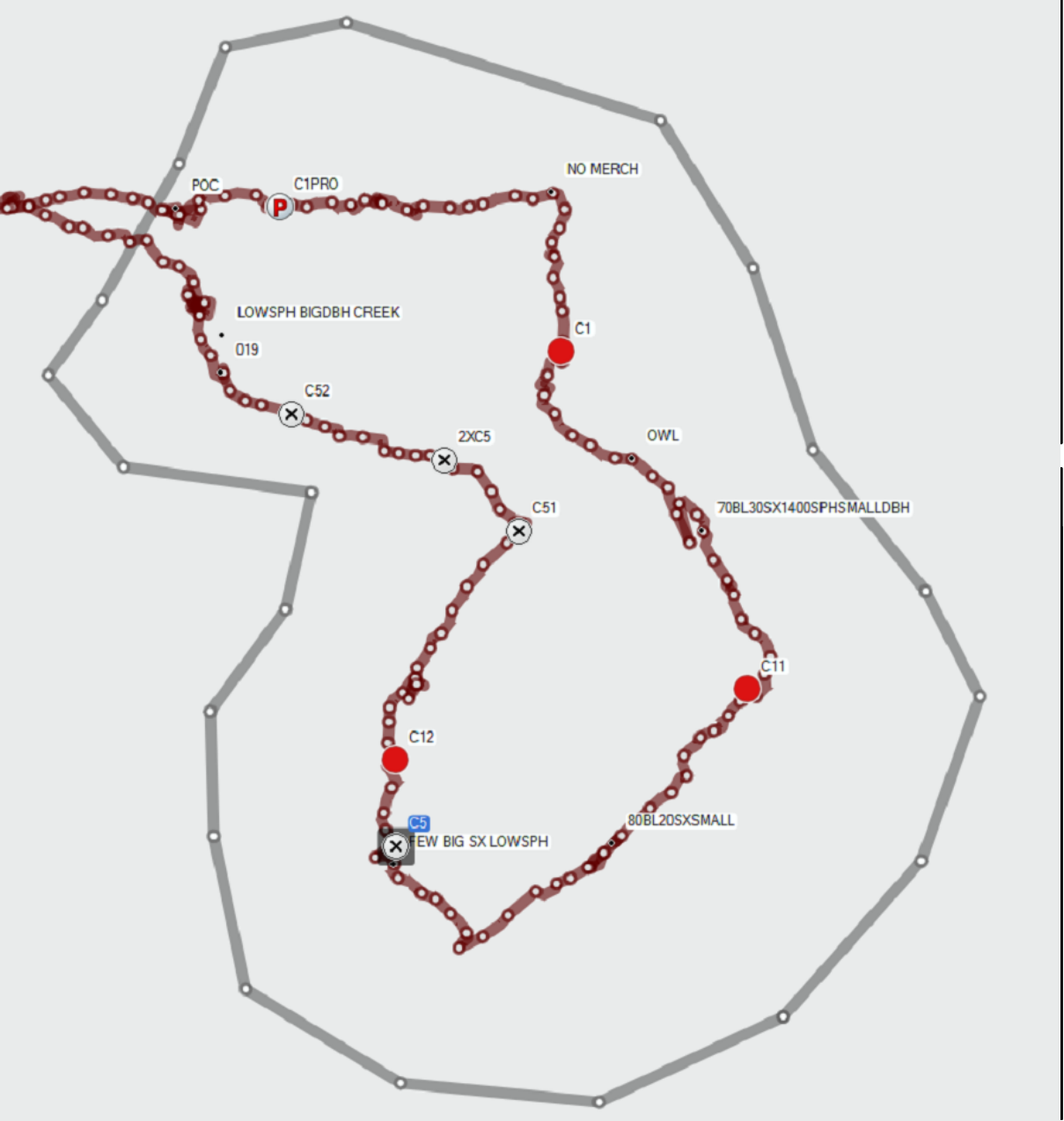
Drawn By: msnively

Map Features

- Susceptible Spruce E
- 2013 SB Hazard Rating**
- Hazard Classes**
 - Low/Med (21-40)
 - Med (41-60)
 - High (61-80)
 - Very High (81-100)
- Cutting Permit
- RESULTS Opening
- VRI Polygon
- Beetle Management
- Natural Resource Dis
- Road Permit Active
- Road Permit Pending
- Km Markers



0 0.1



**SENECA ENTERPRISES LTD.**

PO BOX 1902, PRINCE GEORGE, BC, V2L 5E3

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

SPRUCE BARK BEETLE REPORT
FH16DMK016,017POLYGON: **2015-BLA076**

HECTARES:

64.39

WALKTHROUGH DISTANCE:

2500

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

4**16.0%****SUMMARY OF CURRENT INFESTATION**

Found four infested pixels with a total of 4-C1 attacked trees . Polygon is at the end of block roads (13km sled) and than 600m walk to the West part of polygon.. The sanitation rating is light and representative of polygon. While attack is isolated, there are code 5's scattered throughout polygon and there may be more single trees.

LIGHT SCATTERED ATTACK

ACCESS

Truck parked at 7km on 2400 road, located at 40km on Finlay FSR. Sled 13km to end of block roads, than walk 600m to the start of polygon.

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

No roads, no major slopes 0-20%. Overall 65% Balsam, 35% Spruce with sections of dead pine within polygon. A few drainages within polygon as well.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Walkthrough found 4 Code 1 attacked trees, (1 had callow adults) and 3 ode 5 attacked trees. Attack scattered within polygon mainly found in drainages where larger spruce.

INCIDENCE AND SEVERITY OF ATTACK

Very light attack with a sanitation rating of Light on the one probe line. Similar throughout the 4 attacked trees found were gapped and lower intensity on larger DBH spruce.

RISK OF BEETLE SPREAD

Light spruce component throughout and while minimal and lightly scattered, attack could move withiin polygon. Patches of Dead pine and Balsam with scattered spruce throughout.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Poor access but could get within 600m on old block roads coming from the west. Sled 13km on unplowed road, walked in 600m to start of long polygon.

RECOMMENDATIONS**OPTION 1****MONITOR**

As only 4 pixels with total 4 Code 1's found and scattered in a mixed stand by Balsam, best to shcedule another walkthrough 2016/2017. There are several code 5 attacked trees and most of the Code 1 infested trees found is on the first year of a 2 year cycle. (1 with callow)

OPTION 2**TRAP TREES**

With isolated block, could schedule trap trees or baits if other activity in the area. Light ascattered attack.

2015-BLA-076

SPRUCE BEETLE WALKTHROUGH

Legend

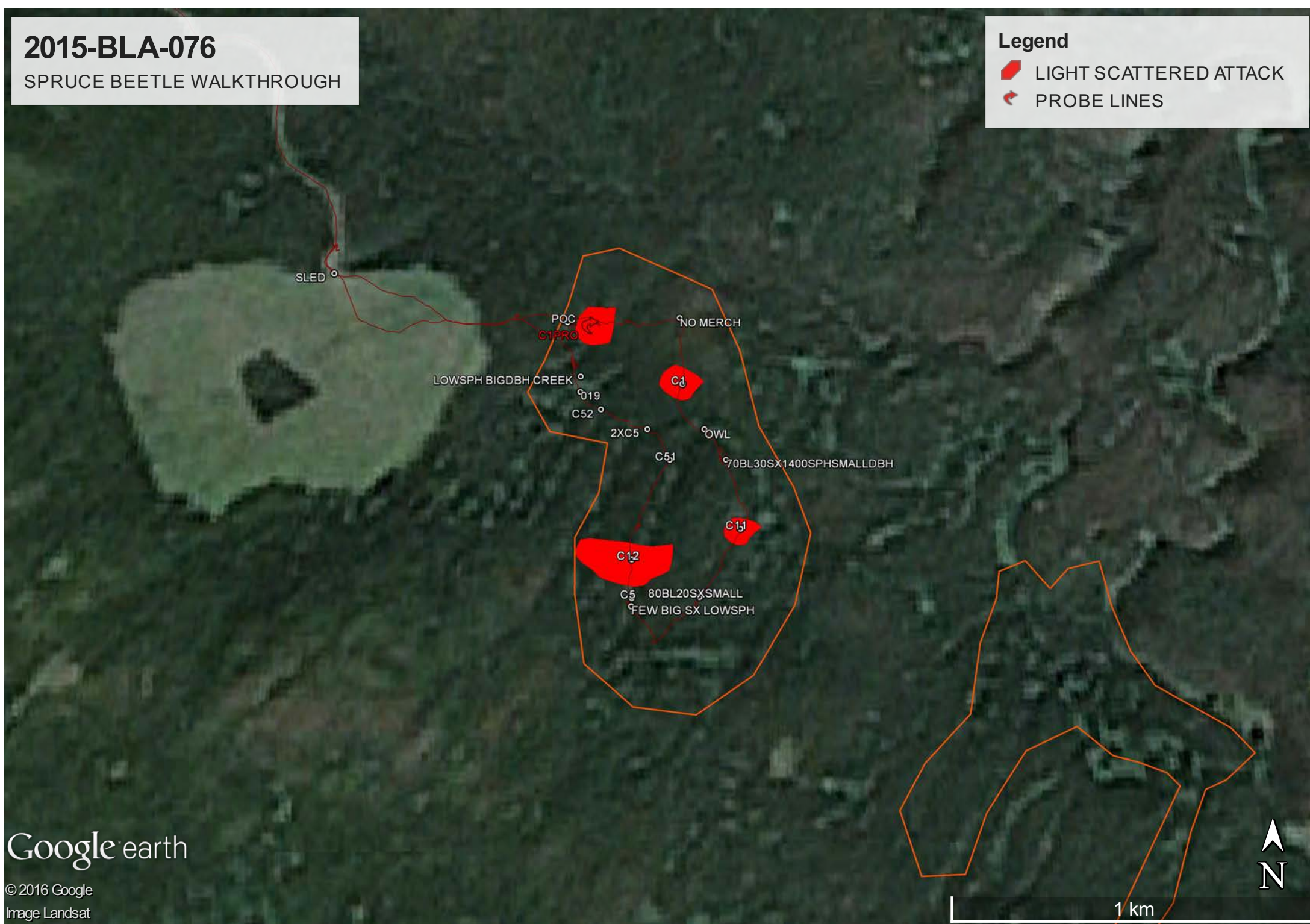
-  LIGHT SCATTERED ATTACK
-  PROBE LINES

Google earth

© 2016 Google
Image Landsat

N

1 km



Summary						
2015-BLA076		64.39	METERS WALKED	2500	% TRAVERSED	3.9%
PIXELS COVERED BY WALKTHROUGH	25	INFESTED PIXELS	4	ESTIMATED % OF BLOCK INFESTED (From Walk through)		16.0%

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	26.4	0.0	0.0	0.0	0.0	0.0	0.0	69.3
25.1-30.0	5.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0	21.2
30.1-35.0	7.1	21.3	0.0	0.0	0.0	0.0	0.0	0.0	63.9
35.1-40.0	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	9.4
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	23.2
45.1-50.0	13.8	0	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	93.1	79.3	13.8	0	0.0	0.0	0.0	0	187

TABLE 2- Spruce Beetle Management Options after Walkthrough						
% 2015 ATTACK	14.8%	##	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	492.7
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	33.2%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

From 1 probe line taken

SUMMARY OF ALL CARDS FS1111	NUMBER OF CARDS	1
--------------------------------	--------------------	---

POLYGON FEATURES -	No roads, no major slopes 0-20%. Overall 65% Balsam, 35% Spruce with sections of dead pine within polygon. A few drainages within polygon as well.
--------------------	--

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						O+AW6:B18:OTHER TREE SPECIES	
			2015		2014		2013			
			1	2	3	4	5	6	BL	AT
17.5-25.0	3.3	8	0	0	0	0	0	0	21	0
25.1-30.0	5.3	2	0	0	0	0	0	0	4	0
30.1-35.0	7.1	3	0	0	0	0	0	0	9	0
35.1-40.0	9.4	1	0	0	0	0	0	0	1	0
40.1-45.0	11.6	1	0	0	0	0	0	0	2	0
45.1-50.0	13.8	0	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		15	1	0	0	0	0	0	37	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		Unattacked
						Y r _____	Y r _____	
2	3	0	10	0	3	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION
<p>1. The size of the infestation is small, the boundary is not clearly defined, and the pattern is irregular.</p> <p>2. The size of the infestation is medium, the boundary is clearly defined, and the pattern is regular.</p> <p>3. The size of the infestation is large, the boundary is clearly defined, and the pattern is regular.</p>

Walkthrough found 4 Code 1 attacked trees, (1 had callow adults) and 3 ode 5 attacked trees. Attack scattered within polygon mainly found in drainages where larger spruce.

INCIDENCE AND SEVERITY OF THE INFESTATION

Very light attack with a sanitation rating of Light on the one probe line. Similar throughout the 4 attacked trees found were gapped and lower intensity on larger DBH spruce.

RISK OF BEETLE SPREAD

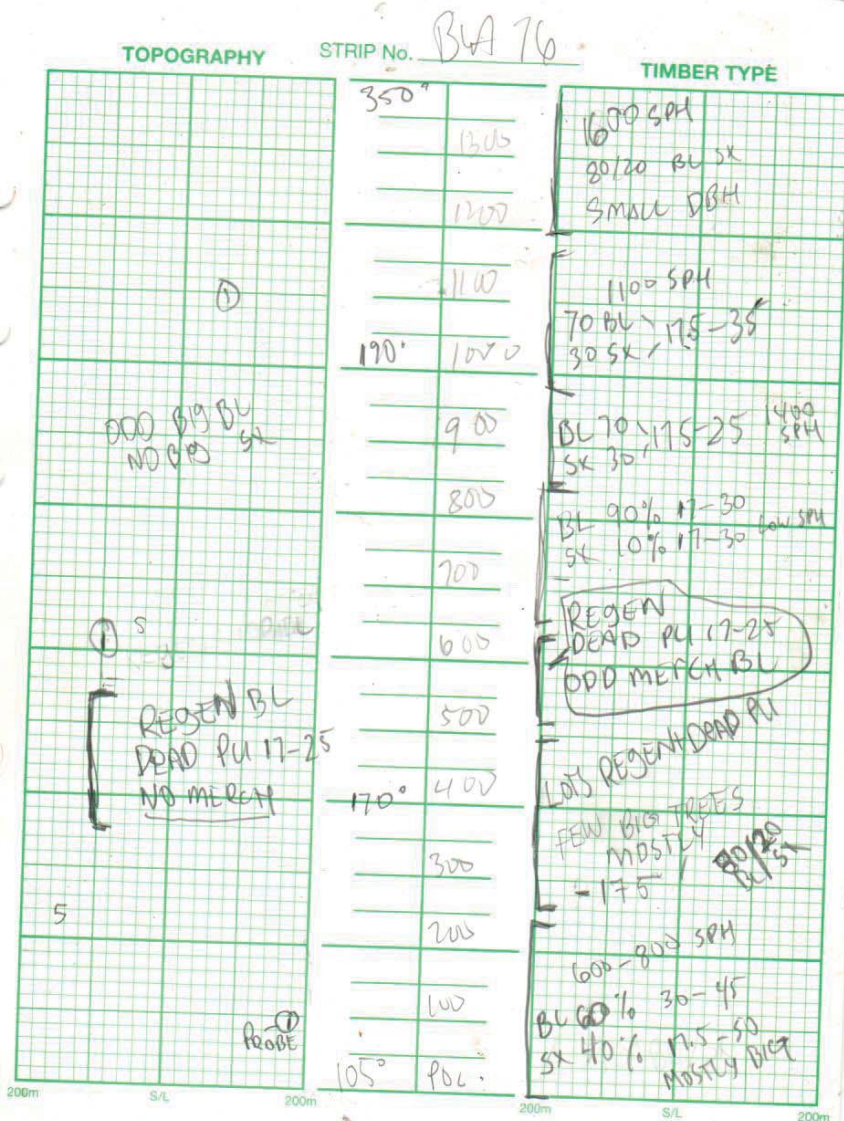
Light spruce component throughout and while minimal and lightly scattered, attack could move within polygon. Patches of Dead pine and Balsam with scattered spruce throughout.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Poor access but could get within 600m on old block roads coming from the west. Sled 13km on unplowed road, walked in 600m to start of long polygon.


BEETLE PROBE CARD

LOCATION 473530-6132490		ELEVATION		LATITUDE		PAGE OF					
BEARING 105	STRIP LINE NO BLA 76	STRIP WIDTH 10	DISTANCE 100	BEETLE SPECIES ☒ SB ☒ MPB ☐ DFB							
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	MAIN	OTHER	
12.5 - 17.4	2.0									BL	
17.5 - 25.0	3.3	1								BB	
25.1 - 30.0	5.3	1								BB	
30.1 - 35.0	7.1	1								BB	
35.1 - 40.0	9.4	1								BB	
40.1 - 45.0	11.6	1								BB	
45.1 - 50.0	13.8	1									
50.1 - 55.0	16.2										
55.1 - 60.0	18.7										
60.1 -	25.3										
TOTALS		14								40	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN					
						Attacked	Unattacked				
N	1		3		2						
S	2		7		1						
COMMENTS PROBE 1											
CREW NAMES PATRICK PAVATOK						DATE 16, 2, 25					



STRIP NO.: _____ DIRECTION: _____

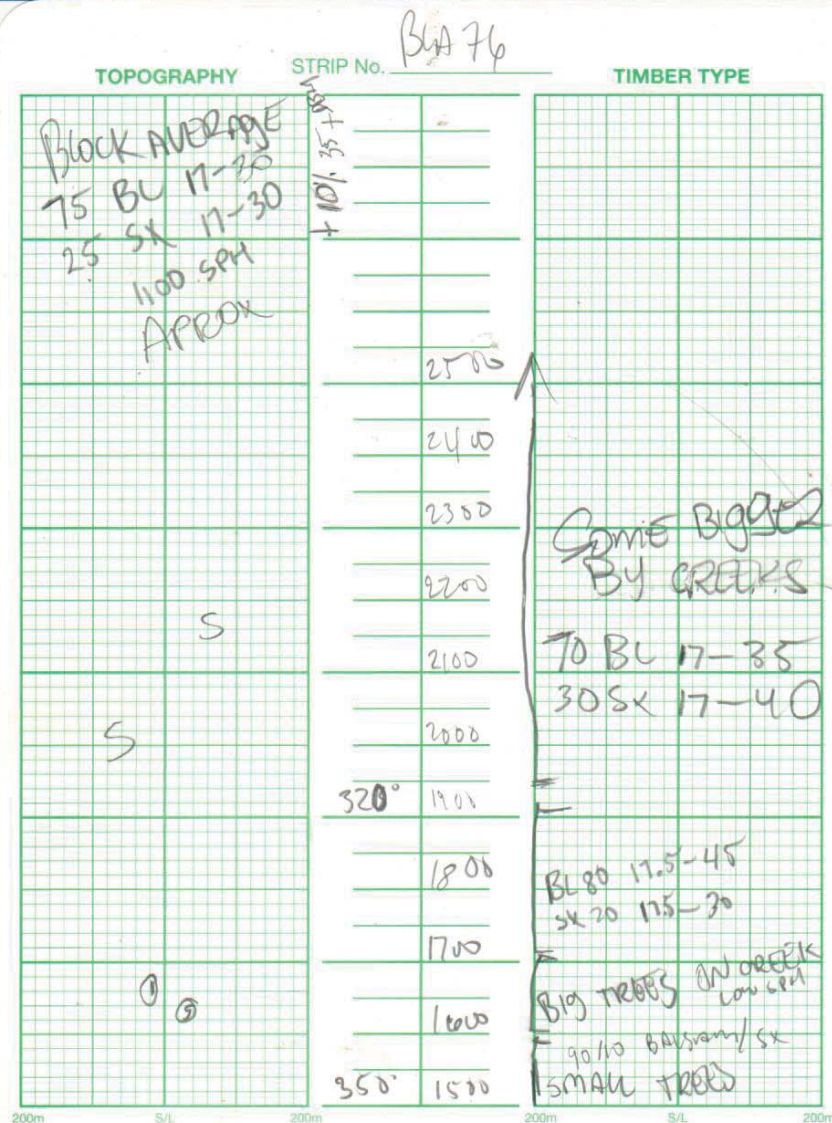
START STRIP: _____

JOB NO.: _____ DATE: FEB 25

CREW: PATRICK PELLETIER

REMARKS: _____

irt www.irtsupplies.com Ph: 1-800-663-6843



STRIP NO.: _____ DIRECTION: _____

START STRIP: _____

JOB NO.: _____ DATE: FEB 25

CREW: PATRICK PELLETIER

REMARKS: HARDLY ANY VALUE IN MARE

irt www.irtsupplies.com Ph: 1-800-663-6843