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

SPRUCE BARK BEETLE REPORT
FH17DPG218

STAR PROBE# **2016-MIS-0082** 528

NUMBER OF CODE 1-4 ATTACK 2

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION

LIGHT ATTACK

Lots of Blowdown, site alongside river. Areas of thick aspen outside of site. Many spruce in this isolated pocket, Sanitation priority rating is low due to lighter attack and 1 code 1 represented in probe. 2 code 1 attacked trees in site, small risk of beetle spread.

ACCESS

Lots of Blowdown, site alongside river. From truck walk 190m at 330 degrees

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

Site alonside river. Heavy deciduous outside of site. Heavy blowdown

SIZE, BOUNDARY and PATTERN OF INFESTATION

2 code 1 attacked trees found in site

INCIDENCE AND SEVERITY OF ATTACK

Moderate attack with signs showing attacked trees on both a 1 and 2 year cycle.

RISK OF BEETLE SPREAD and SURROUNDING SITES

Light attack and surroundewd by cutblock and rtiver. Site2016-MIS-0081 further north could not access as on other side of river. May spread or have already spread to other side of river, no access at this time.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

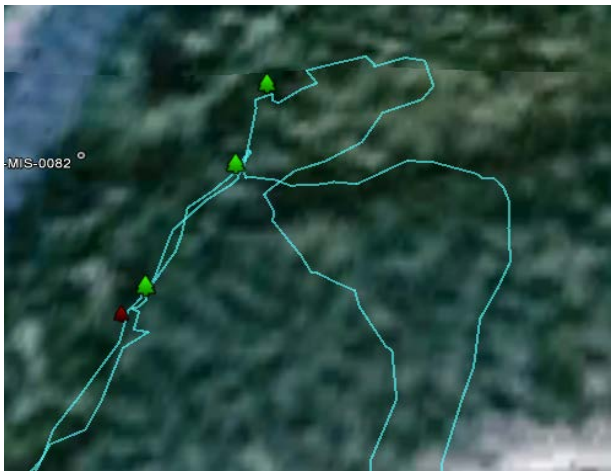
From truck, short distance to site, adjacent to cutblock and river, could not cross river

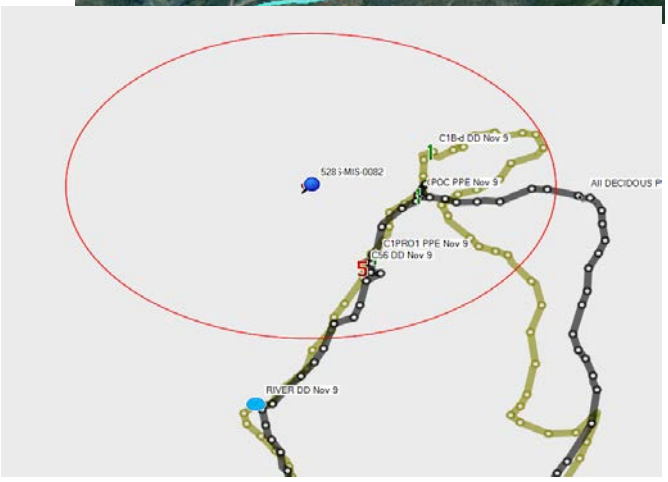
RECOMMENDATIONS

OPTION 1 **NO ACTION**

Light attack, minimal risk of spread and low sanition priority rating Schedule to monitor in 2017 as good access.

OPTION 2 **MONITOR**





Summary

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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	0	0.0	0.0	0.0	0.0	0.0	0.0	0
25.1-30.0	5.3	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0
30.1-35.0	7.1	63.9	0.0	0.0	0.0	0.0	0.0	0.0	7.1
35.1-40.0	9.4	47	9.4	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	34.8	0.0	0.0	0.0	0.0	0.0	0.0	11.6
45.1-50.0	13.8	69	0.0	0.0	0.0	0.0	0.0	0.0	0
50.1-55.0	16.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	48.6
55.1-60.0	18.7	56.1	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	317.6	308.2	9.4	0	0.0	0.0	0.0	0	67.3

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating

MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE

< 1 LOW Attack Density
1.0- 1.9 MOD Attack Density
2.0 - 3.9 HIGH Attack Density
< 3.9 SEVERE Attack Density

2.00

MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE

< 4.9 LOW Mean Larval Density
5.0 - 14.9 MOD Mean Larval Density
15-24.9 HIGH Mean Larval Density
>24.9 EXTREME Mean Larval Density

6.00

TABLE 2- Spruce Beetle Management Options after Walkthrough

% 2016 ATTACK	3.0%	3.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING		
% 2015 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)
% 2014 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)
% HOST IN STAND	82.5%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING

244.2

SUMMARY OF ALL CARDS FS1111

NUMBER OF CARDS: 1

ACCESS - Lots of Blowdown, site alongside river. From truck walk 190m at 330 degrees

SITE FEATURES - Site alonside river. Heavy deciduous outside of site. Heavy blowdown

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	4	0	0	0	0	0	0	0	0
30.1-35.0	7.1	9	0	0	0	0	0	0	1	0
35.1-40.0	9.4	5	1	0	0	0	0	0	0	0
40.1-45.0	11.6	3	0	0	0	0	0	0	1	0
45.1-50.0	13.8	5	0	0	0	0	0	0	0	0
50.1-55.0	16.2	1	0	0	0	0	0	0	3	0
55.1-60.0	18.7	3	0	0	0	0	0	0	0	0
60.1 +	25.3	0	0	0	0	0	0	0	0	0
TOTALS		30	1	0	0	0	0	0	5	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 Y r	Y r ____	Unattacked
2	4	0	12	0	3	0	0	0

SIZE, BOUNDARY AND PATTERN OF THE INFESTATION

2 code 1 attacked trees found in site

INCIDENCE AND SEVERITY OF THE INFESTATION

Moderate attack with signs showing attacked trees on both a 1 and 2 year cycle.

RISK OF BEETLE SPREAD

Light attack and surroundewd by cutblock and rtiver. Site2016-MIS-0081 further north could not access as on other side of river. May spread or have already spread to other side of river, no access at this time.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

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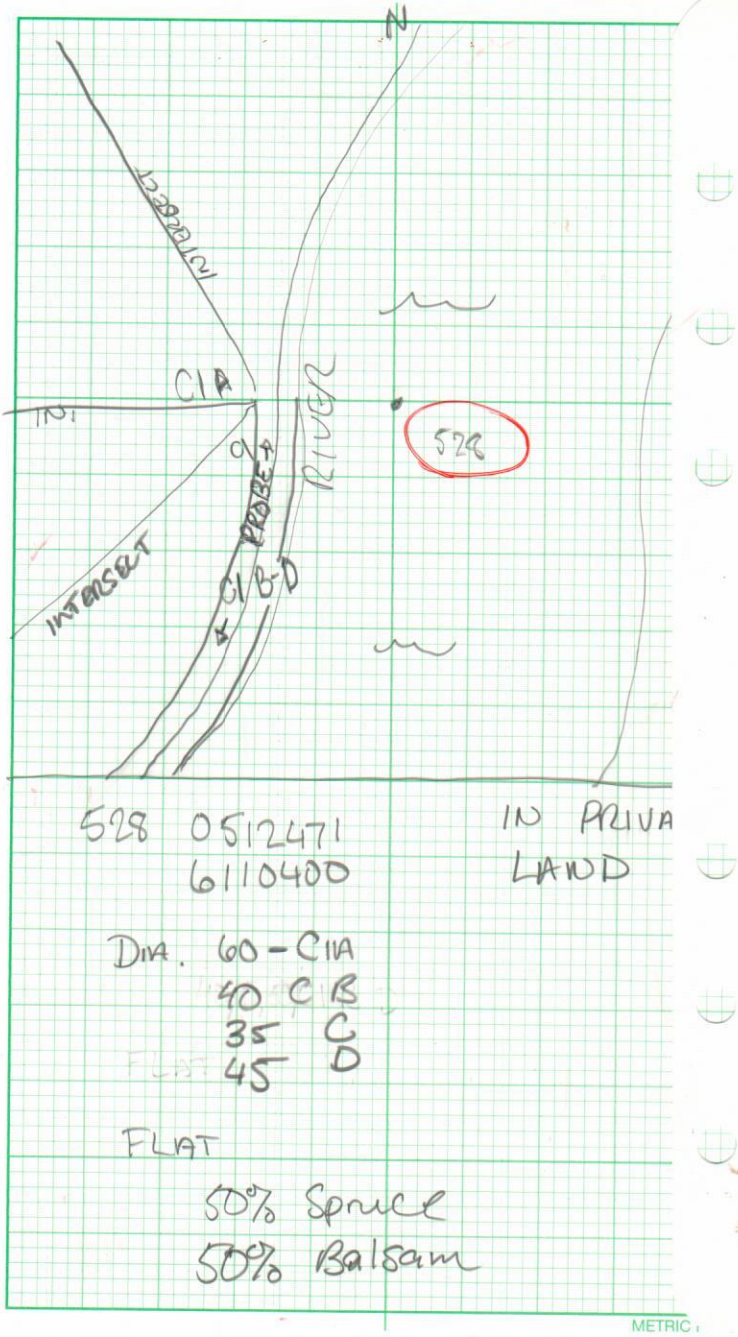
SPRUCE BEETLE PROBE CARD



LOCATION		PAGE	OF
BEARING N	DISTANCE 100	STRIP WIDTH 10	

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK 1	2	3	4	5	6	OTHER TREE SPECIES
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
N							
S	4		12		3		

COMMENTS

CREW NAMES	DATE Y	M	D
PATRICK PELLETIER	16	11	9

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

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