

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH17DPG218**STAR PROBE# **2016-MIS-0060**

321

NUMBER OF CODE 1-4 ATTACK

13

PROBE LINE YES

SUMMARY OF CURRENT INFESTATION**MODERATE ATTACK**

Three grouped sites all with similar results. (MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5) All combined, from 3 probe lines sites have a moderate Sanitation priority rating with site MIS-0058 carrying a heavy rating. Site MIS0058 also had fresh silviculture flagging in site. All site have good access and are surrounded by plantations.

ACCESS

From truck, walk 200-300m into sites. All flat ground, heavy blowdown

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

Large DBH Spruce, Heavy blowdown, Flat ground, some areas wet. Plantations surround the sites. Overall 60% Spruce, 40% Balsam

SIZE, BOUNDARY and PATTERN OF INFESTATION

Moderate attack found with MIS0058- 10 C1, 2 C5, MIS-0059- 6 C1, 5 C-5, MIS-060- 13 C1, 7 C5 attacked trees. The sites have large DBH spruce trees and are fairly concentrated within sites on edges of plantations.

INCIDENCE AND SEVERITY OF ATTACK

Moderate attack densities and overall moderate sanitation priority rating between the three sites. (Site MIS-0058 Heavy rating, 0059,0060 Light Ratings)

RISK OF BEETLE SPREAD and SURROUNDING SITES

These three sites have good access with moderate attack. Attack can move east and northward and trees are on a 1 and 2 year cycle with large DBH trees in area. Moderate risk of beetle spread from these sites and only identified sites in area

ACCESS, OPERABILITY and INTEGRATED RESOURCE MGMT ISSUES

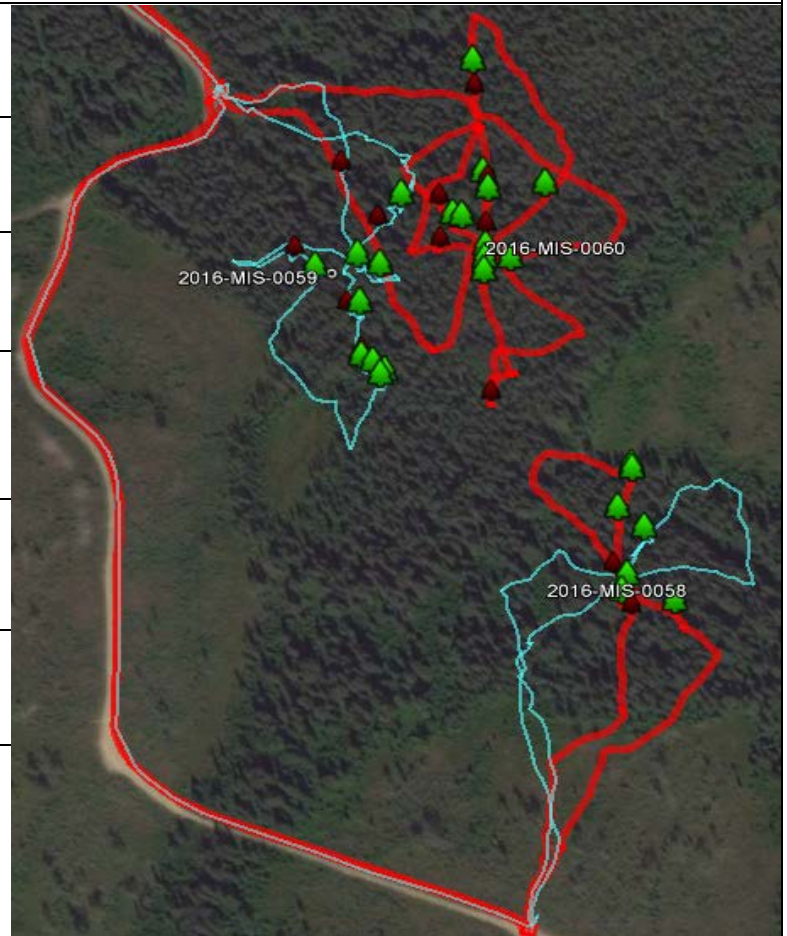
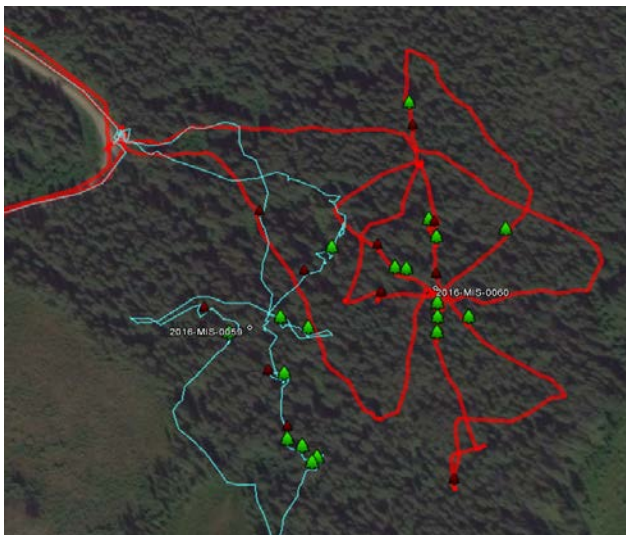
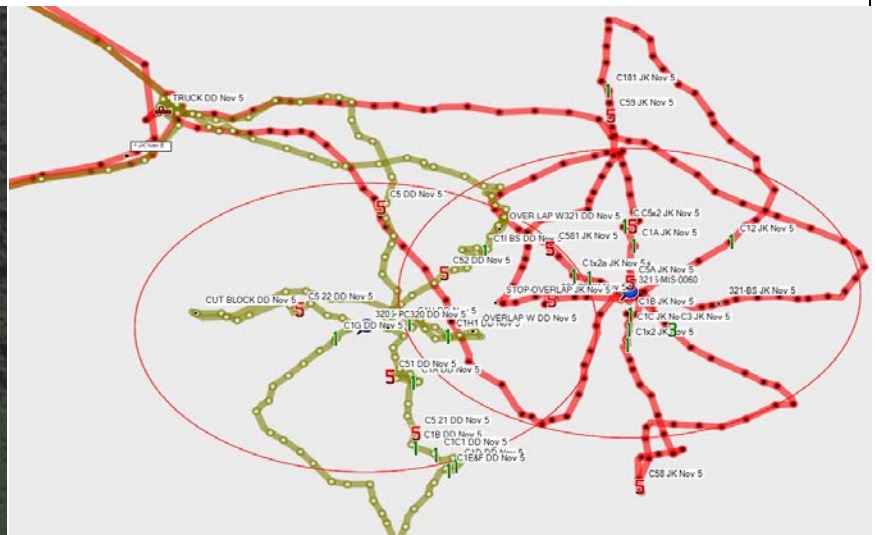
Edge of plantations, Site MIS-0058 has creek running through it, all flat, some wet areas.

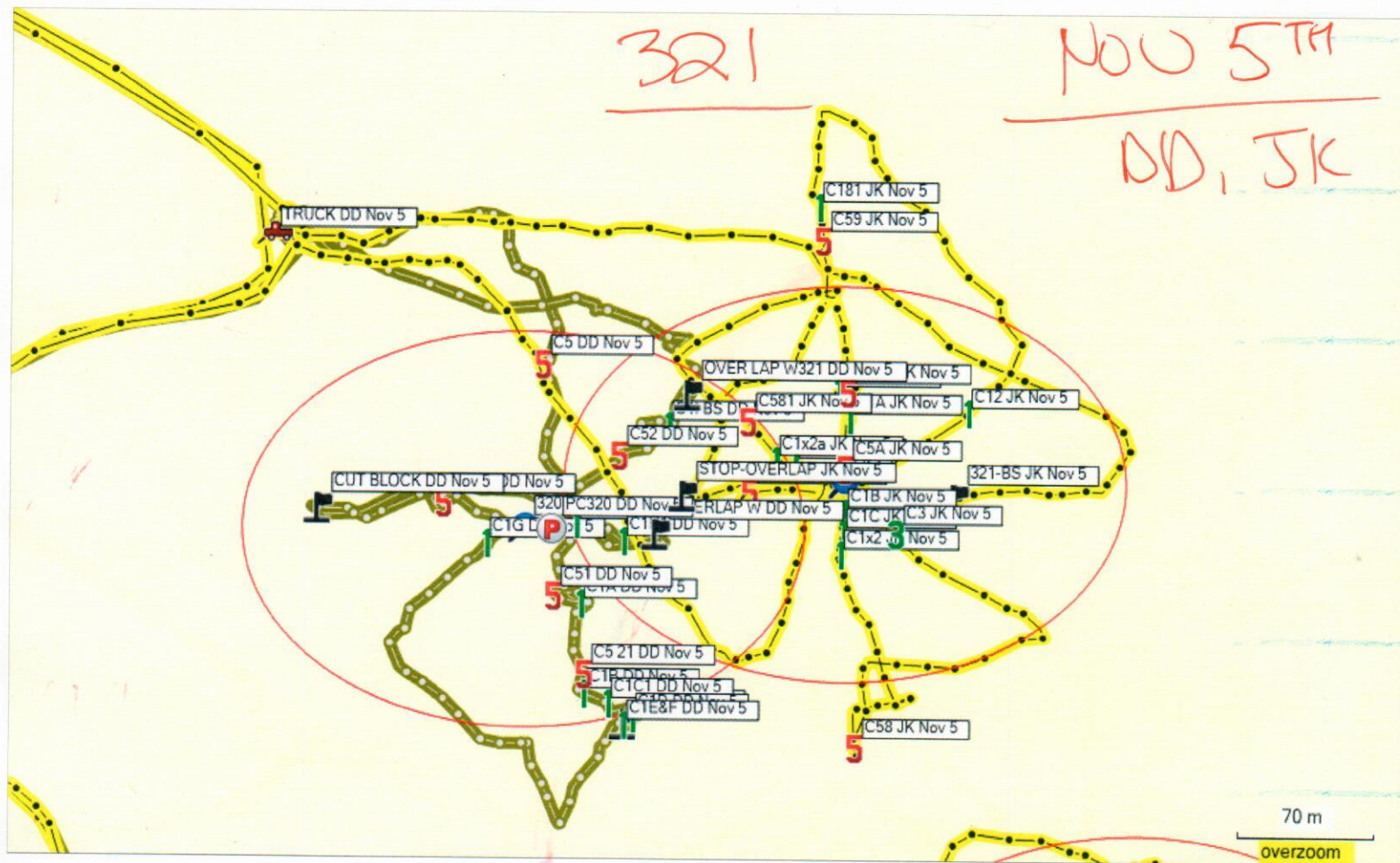
RECOMMENDATIONS**OPTION 1 TRAP TREES**

As three sites with good access grouped together, it is best to treat the three together. A few trap tree trails could be utilized to capture any additional attack. As moderate attack density, may be more efficient to fall and burn sites however some large DBH Trees would make it wasteful. Much of the attack is on a 2 year cycle, although some of the beetle in area will fly in 2017.

OPTION 2 HARVEST

Although sanitation rating Moderate, good access sites that could be harvested in fall/ winter 2017.





Attack - C1 = 12
C5 = 7
C3 = 1

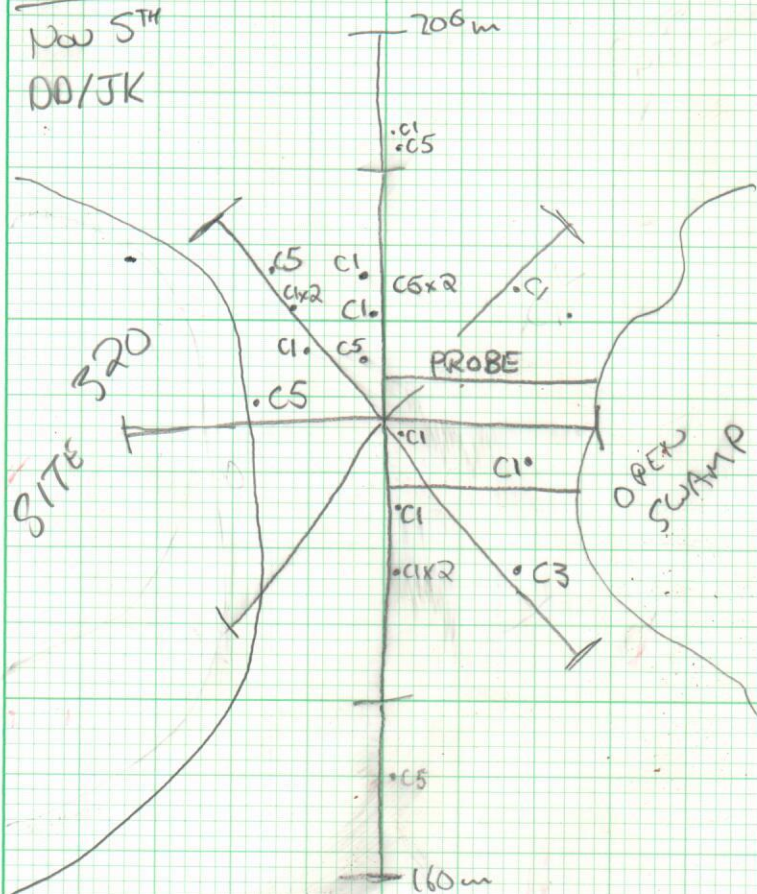
Access - From truck, walk 232m @ 121°
Flat ground

Features - Large DBH Sx. Heavy blowdown
@ P.C. Flat ground. Very
moist. Plantation to East.

321

Nov 5TH

DD/JK



- Flat ground
- Soil moist
- Heavy blowdown
- Infestation severe.
- 300m off mainline

METRIC FIELD

LOCATION 321		ELEVATION 781		LATITUDE		PAGE OF					
BEARING 90°	STRIP LINE NO E	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										
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		27	2							22	
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN					
						Attacked	Unattacked				
Y	2	4	6	/	/						
S	2	3	4	/	/						
COMMENTS - Heavy blowdown - BS- 0											
CREW NAMES JS						DATE Y M D 16 11 05					