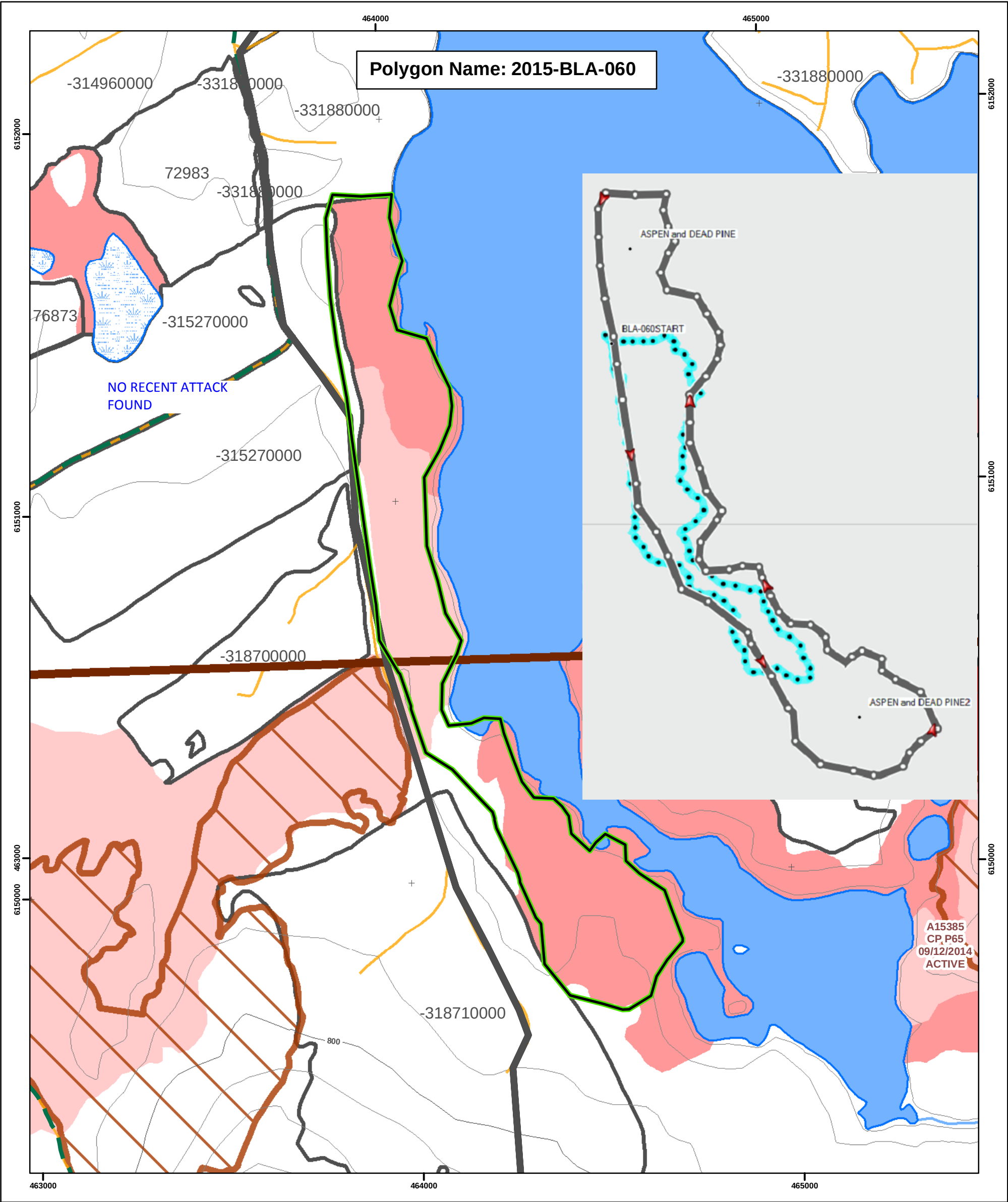






Ministry of
Forests, Lands and
Natural Resource Operations

Spruce Bark Beetle Field Map

Polygon Name: 2015-BLA-060

Landscape Unit/BMU: Blackwater

Region: Omineca

District: Mackenzie

Mapsheet: 093O05

Hectares: 45.19

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

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: 2015-BLA-060

HECTARES:

45.19

WALKTHROUGH DISTANCE:

2900

ESTIMATED INFESTED PIXELS FROM
WALKTHROUGH (Code 1-4)

0 0.0%

SUMMARY OF CURRENT INFESTATION

Walkthrough estimated show no recent signs of attack. A couple of large ppockets of Aspen and dead Blowdown pine with Areas of scattered spruce. A couple of pockets where old attacked spruce (Code 5's

NO CURRENT ATTACK

ACCESS

Quad 300m down old cutblock road from 4WD access point

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

Very flat polygon with about 20% spruce mixed in with dead pine and Aspen. Most of the polygon had difficult walking access with extreme blowdown of Dead Pine with patches of heavy aspen. Boundary to the East is Burden Lake and old cutblocks surround most of the remainder.

SIZE, BOUNDARY and PATTERN OF INFESTATION

Found some old attack code 5's in pockets along with a couple of unsuccessful attacked pitchouts along burden lake.

INCIDENCE AND SEVERITY OF ATTACK

No recent attack found. There is evidence of old unsuccessful attack in a couple of pockets along the edge of burden lake.

RISK OF BEETLE SPREAD

Minimal risk of spread as found no evidence of recent attack. There were areas of heavy blowdown, and could be some attack held in areas but at a low rate of spread.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good accedd through old cutblock by ATV 300 meters. Polygon flat, boundary on entire length of east is Burden Lake.

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

Although there are no signs of recent attack, there are areas with hevly blowdown of pine and a couple of areas with older attack Code 5 Spruce. They are mainly along Burden Lake and if there was some recent attacked trees missed, the rate of spread is very low. Schedule another walkthrough 2016 as access good, although difficult walking due to heavy blowdown.

OPTION 2**NO ACTION REQUIRED**

With no recent attack, no action required.

2015-BLA-060

SPRUCE BEETLE WALKTHROUGH

Legend



PROBE



NO RECENT ATTACK FOUND

△ ASPEN and DEAD PINE

Burden Lake

BLA-060START △

△ ASPEN and DEAD PINE2

Google earth

© 2015 Google
Image © 2015 DigitalGlobe



1 km

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 4- Spruce Beetle Attack Density and Larval Density Rating			
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density	MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 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
0.00	< 3.9 SEVERE Attack Density	0.00	>24.9 EXTREME Mean Larval Density

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	20.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

NO PROBE LINES ESTABLISHED AS NO RECENT ATTACK FOUND

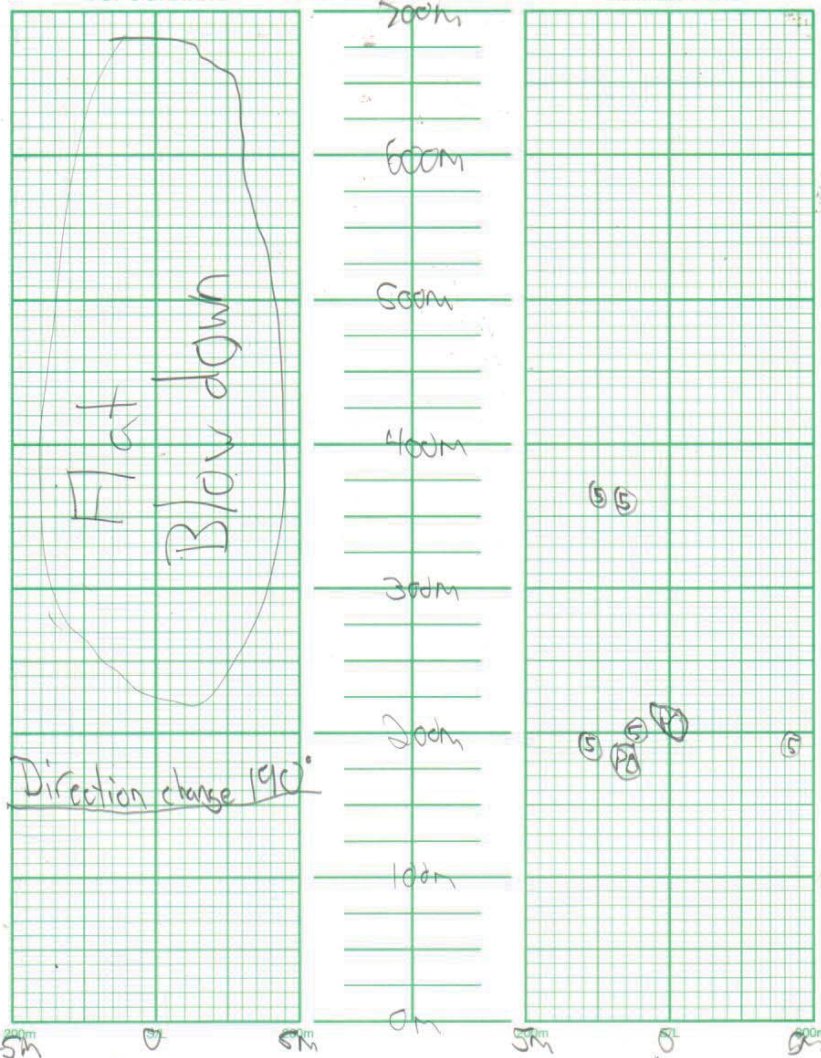
SUMMARY OF ALL CARDS						NUMBER OF CARDS		0		
ACCESS -		Quad 300m down old cutblock road from 4WD access point								
POLYGON FEATURES -		Very flat polygon with about 20% spruce mixed in with dead pine and Aspen. Most of the polygon had difficult walking access with extreme blowdown of Dead Pine with patches of heavy aspen. Boundary to the East is Burden Lake and old cutblocks surround most of the remainder.								
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 Y r	Y r	Unattacked		
0	0	0	0	0	0	0	0	0	0	
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
Found some old attack code 5's in pockets along with a couple of unsuccessful attacked pitchouts along burden lake.										
INCIDENCE AND SEVERITY OF THE INFESTATION										
No recent attack found. There is evidence of old unsuccessful attack in a couple of pockets along the edge of burden lake.										
RISK OF BEETLE SPREAD										
Minimal risk of spread as found no evidence of recent attack. There were areas of heavy blowdown, and could be some attack held in areas but at a low rate of spread.										
ACCESS, OPERABILITY AND INTEGRATED RESOURCE MANAGEMENT ISSUES										
Good access through old cutblock by ATV 300 meters. Polygon flat, boundary on entire length of east is Burden Lake.										

TOPOGRAPHY

STRIP No.

BLA-060

TIMBER TYPE



STRIP NO.:

BLA-060

DIRECTION:

61° (15m), 190°

START STRIP:

0m - 700m

JOB NO.:

Seneca walkthru

DATE:

Oct. 22/15

CREW:

Dailen V

REMARKS:



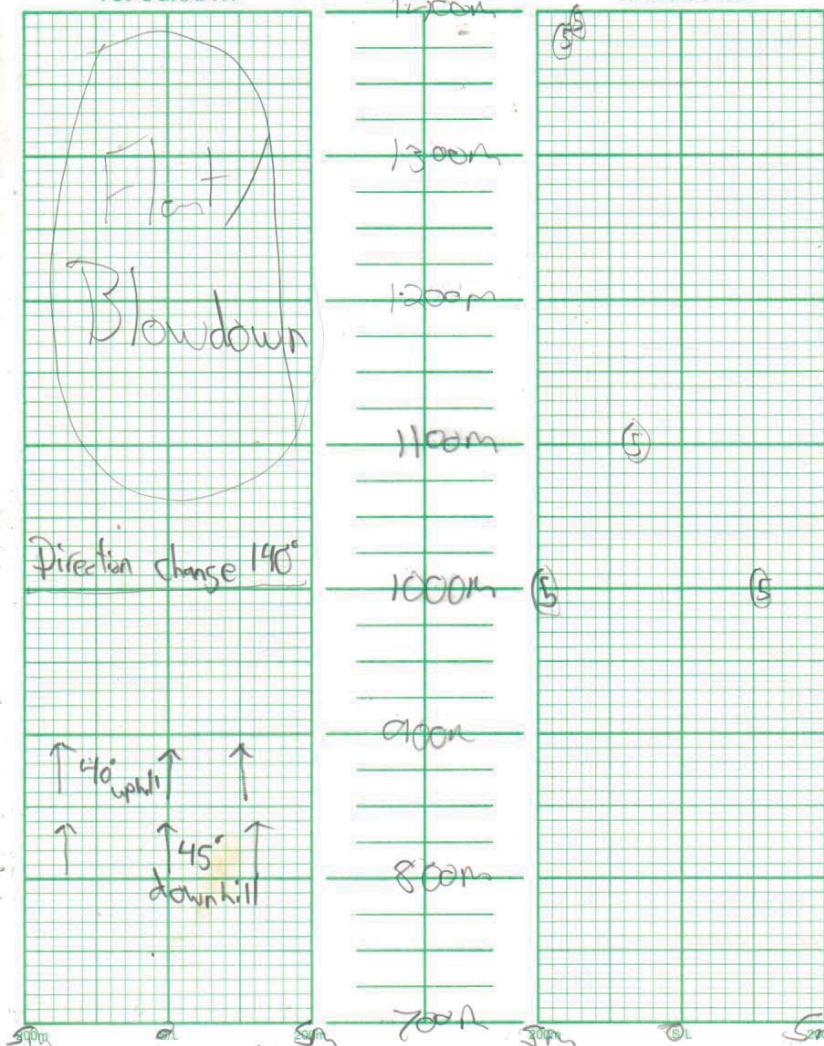
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TOPOGRAPHY

STRIP No.

BLA-60

TIMBER TYPE



STRIP NO.:

BLA-060

DIRECTION:

140°

START STRIP:

700m - 1400m

JOB NO.:

Seneca walkthru

DATE:

Oct. 22/15

CREW:

Dailen V

REMARKS:



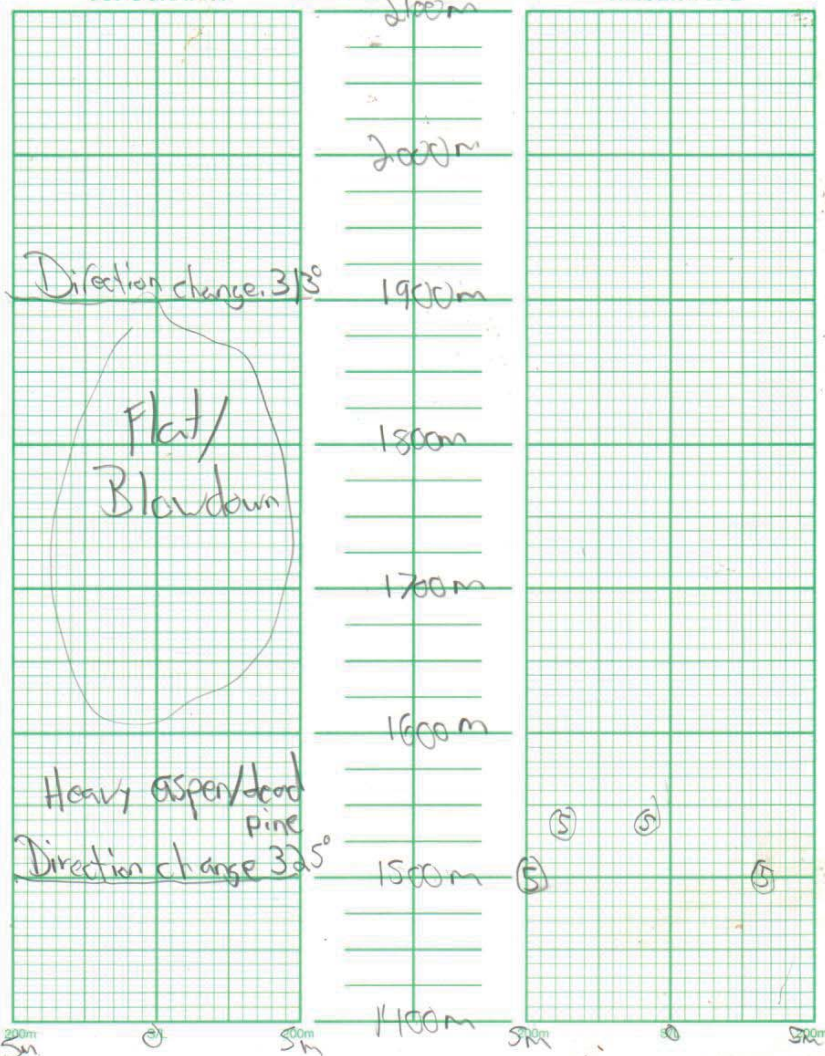
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TOPOGRAPHY

STRIP No.

BLA-060

TIMBER TYPE



STRIP NO.:

BLA-060

DIRECTION:

325° (400m), 313°

START STRIP:

1400m-2100m

JOB NO.:

Seneca walkthru

DATE:

Oct. 22/15

CREW:

Dailen.V

REMARKS:



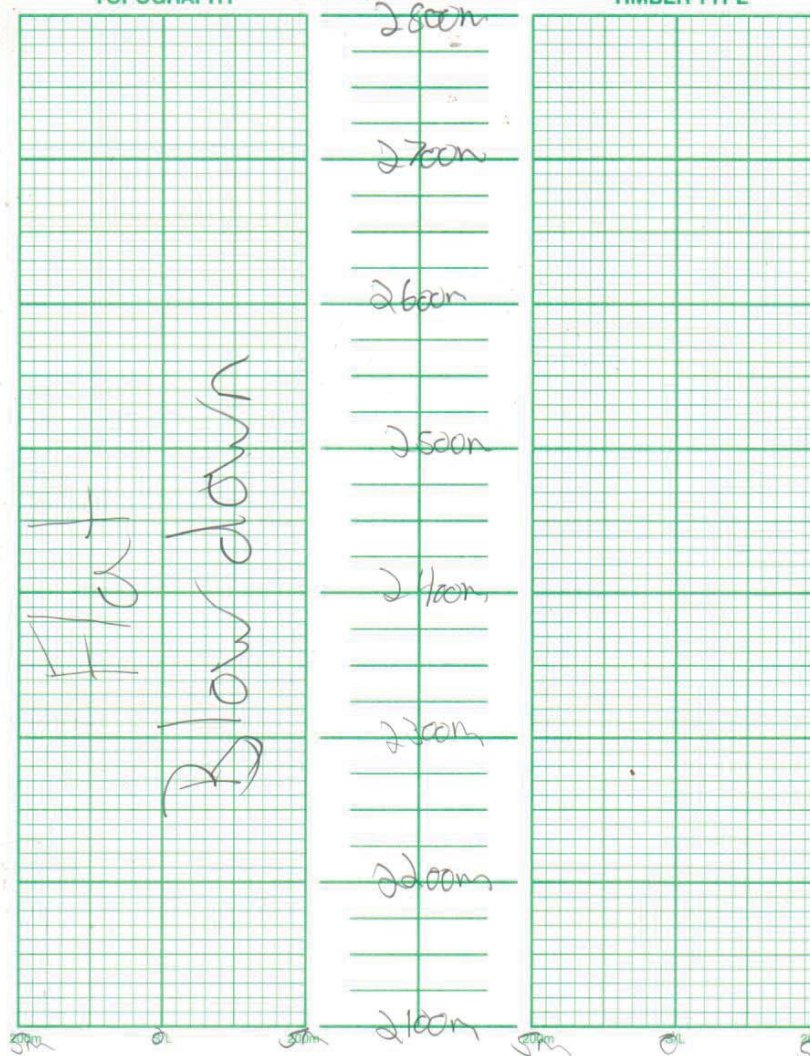
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TOPOGRAPHY

STRIP No.

BLA-060

TIMBER TYPE



STRIP NO.:

BLA-060

DIRECTION:

313°

START STRIP:

2100m-2800m

JOB NO.:

Seneca walkthru

DATE:

Oct. 22/15

CREW:

Dailen.V

REMARKS:



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STRIP No.

TIMBER TYPE

—
End

2900m

2800n

STRIP NO.: BLA-060 DIRECTION: 3/3

START STRIP: $280\text{cm} - 29\text{cm}$

JOB NO.: Seneca Walkthrough DATE: OCT. 2015

CREW: Da. Kn. V

REMARKS:



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