



Province of
British Columbia

Ministry of
Forests

Ministry of Forests
5785 Duncan Street
Duncan, British Columbia
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Tel: (604) 746-2725 Fax: (604) 746-2790



March 22, 1996

John Mitchell
Engineer
TimberWest Forest Limited
South Island Region
Bag 5000
Crofton, British Columbia
V0R 1R0

Dear John Mitchell:

I refer to the **Twenty Year Plan for the Nanaimo Lakes Management Unit of Tree Farm Licence (TFL) Number 47**, submitted under covering letter dated December 22, 1995, and received in this office on January 3, 1996.

I hereby accept the **Twenty Year Plan** subject to the comments below. These comments may be incorporated into future twenty-year plans for **Blocks 15 and 16**, and into continued preparation of **Management Plan Number 2 for TFL 47**:

1. **Net Operable Landbase:** Satisfactory as shown. The operability criteria used are largely economic and as economic conditions improve, it is anticipated that additional area may become operable.
 - (i) **Harvesting Method:** Satisfactory as shown. The use of partial cutting in areas close to urban settlement and in community watersheds is encouraged.
 - (ii) **Type and Quality of Timber:** Staff have expressed some concern over the accuracy of the forest inventory for this unit. Where additional information exists, such as known natural conversion from deciduous to coniferous or stand level surveys, it should be summarized to forest inventory standards and incorporated into the database for the unit.

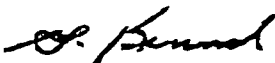
John Mitchell

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2. **Harvested Area:** Due to the very small remaining area of old-growth timber, and the large proportion of area that exists in the 21 to 60 year age classes, the twenty-year plan targets for harvest, stands that are at or slightly above a minimum harvest age (first entry age) of approximately 45 years on productive growing sites. This issue has been highlighted for consideration as part of the overall Management Plan approval process. In the meantime, *stands that fall below the proposed first entry ages are not approved*.
3. **Existing and Proposed Road Access within the Net Operable Landbase:** Proposed road access development or upgrading over the twenty-year period should be colour coded in five-year intervals to be consistent with proposed blocks for harvest.
4. **Areas Subject to Specific Integrated Resource Management Constraints:** Environmentally Sensitive Areas (ESAs) are shown on the plan according to current standards. Block 16 contains portions of three Community Watersheds, Holland Creek, Stocking Lake, and Banon Creek, which should be clearly identified on the plan. *Approval of blocks shown within the Holland Creek/Stocking Lake Integrated Watershed Management Planning Area (IWMP) will be subject to conclusion of the IWMP planning process.*

Whilst complete biodiversity corridors have not been identified, the plan has been designed with the Forest Ecosystem Network concept in mind.
5. **Twenty Year Cutting Sequence:** The harvest level proposed for the first five-year period is 40 000m³ per year. Harvest levels for the remaining three periods range between 52 000 and 57 000m³, per year which is somewhat inconsistent with the base case harvest simulation of 80 000 and 100 000m³ respectively per period for the final decade. However, given that long run sustained yield level is slightly in excess of 150 000m³, and that the issue of minimum harvest ages will be addressed through the Management Plan, the cutting sequence is accepted.

Yours truly,



Jerry Kennah, R.P.F.
District Manager

cc: Ken Collingwood
Regional Manager
Vancouver Forest Region



Province of
British Columbia

Ministry of
Forests

Duncan Forest District
5785 Duncan St.
Duncan, British Columbia
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J. MITCHELL

File: 19700-01/TFL 47

August 2, 1995

Frank Leslie, R.P.F.
Administrative Forester
TimberWest Forest Limited
2300 - 1055 West Georgia Street
P.O. Box 11101
Vancouver, British Columbia
V6E 3P3

Dear Frank Leslie:

It has recently been brought to my attention that operability mapping for the Nanaimo Lakes Block of Tree Farm Licence Number 47 (TFL 47) has never been approved. I apologise for the oversight.

Please be advised that the operability mapping as acknowledged by letter dated January 5, 1994, is hereby approved, for inclusion in the timber supply analysis for TFL 47.

Yours truly,

Dave N. Woodgate, R.P.F.
Integrated Resources Planner
Duncan Forest District

cc: Graham Boothroyd
Ministry of Forests
Vancouver Region



TimberWest Forest Limited
South Island Region

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Crofton, British Columbia
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Phone 604 246 3232
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December 22, 1995

Ministry of Forests
Duncan Forest District
5785 Duncan St.
Duncan, B.C.
V9L 5G2

Attention: Gerry Kennah, R.P.F.
District Manager

Re: **Twenty Year Plan - Nanaimo Lakes Management Unit, T.F.L. #47.**

Enclosed for your approval is the proposed Twenty Year Plan for the Nanaimo Lakes Management Unit of T.F.L. #47. The plan covers the period of 1995 to 2014.

The cut proposed for the first five year period is 40,000m³/yr. while the harvest levels for the last three periods range from 52,000m³/yr. to 57,000m³/yr.

The plan is presented with a 1:20,000 scale base map and three overlays. The base map identifies timber types, existing roads and blocks colored by five year period while the following information is presented on overlays:

- 1.) E.S.A.'s and Operability
- 2.) Recreation inventory
- 3.) Landscape inventory

A 1:60,000 scale overview map is also included with this submission.

Also attached are five year period block summaries listing areas, volumes, and harvest types. Immature volumes are calculated using MoF variable density yield projection software and old growth volumes are based on inventory stratum volumes. For the harvest type Clearcut is intended to represent conventional clearcut systems and clearcut with reserves. The Selective designation represents all selective systems and assumes on average that no more than thirty percent of the volume is removed.

Gerry Kennah

District Manager

December 22, 1995

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This plan was constructed with consideration given to a Forest Ecosystem Network (FEN) however the FEN is not being included with this submission.

Should you have any questions or comments please contact our Nanaimo Lakes office.

Yours sincerely,

TIMBERWEST FOREST LIMITED

John Mitchell, R.P.F.

Engineer

Nanaimo Lakes Operation

Enclosures

**T.F.L. #47
COMPARTMENT 15 & 16
20 YEAR PLAN**

PERIOD #1 1995 - 1999

<u>CUT BLOCK</u>	<u>VOL / HA</u> m3	<u>AREA</u> Ha	<u>VOLUME</u> m3	<u>HARVEST TYPE</u>
SL 16-79	511	29.1	14,900	Clearcut
K-1	89	89.5	8,000	Selective
A-1	219	18	3,900	Clearcut
SL-16-73	387	24.7	9,600	Clearcut
SL-16-74	506	18.5	9,300	Clearcut
SL-337	557	25.7	14,300	Clearcut
NR-100	550	10.1	5,600	Clearcut
E-10-A	262	25.7	6,700	Clearcut
E-10	271	40	10,800	Clearcut
E-8	224	14.6	3,300	Clearcut
SNR-400	344	25.9	8,900	Clearcut
SNR-400-C	384	8	3,100	Clearcut
SNR-500	230	16.3	3,700	Clearcut
SNR-600	325	12.1	3,900	Clearcut
SNR-700	128	1.7	200	Clearcut
SL-16-727	91	40	3,700	Selective
L3A	117	27.8	3,300	Selective
L4A1	363	40	14,500	Clearcut
L4A2	455	40	18,200	Clearcut
L2A	362	37.3	13,500	Clearcut
F-1	85	31.7	2,400	Selective
F-10	888	14.3	12,500	Clearcut
SF-14	684	13	8,900	Clearcut
C-1	365	38.3	14,000	Clearcut
SD-100	143	9.8	1,400	Selective
SM-100-A	105	11.6	1,200	Selective
SM-100-B	149	1.1	200	Selective

TOTAL VOLUME 5 YEAR PERIOD 200,000 m3

AVERAGE VOLUME PER YEAR 40,000 m3

**T.F.L. #47
COMPARTMENT 15 & 16
20 YEAR PLAN**

PERIOD #2 2000 - 2004

<u>CUT BLOCK</u>	<u>VOL / HA</u> m3	<u>AREA</u> Ha	<u>VOLUME</u> m3	<u>HARVEST TYPE</u>
2 - 10	272	40	10,900	Clearcut
2 - 11	310	28.6	8,900	Clearcut
3 - 7	349	7.5	2,600	Clearcut
2 - 15	371	39	14,500	Clearcut
3 - 5	425	27	11,500	Clearcut
2 - 1	453	10.4	4,700	Clearcut
2 - 13	348	34	11,800	Clearcut
2 - 12	410	31.6	12,900	Clearcut
2 - 16	441	19.5	8,600	Clearcut
2 - 17	383	19.4	7,400	Clearcut
2 - 18	398	38.5	15,300	Clearcut
2 - 20	149	29.2	4,400	Selective
2 - 19	446	38.9	17,300	Clearcut
3 - 1	450	34.1	15,300	Clearcut
3 - 3	407	30.8	12,500	Clearcut
3 - 2	365	38	13,900	Clearcut
3 - 6	400	35.9	14,400	Clearcut
3 - 4	397	18	7,100	Clearcut
2 - 21	550	31.4	17,300	Clearcut
2 - 22	105	11.8	1,200	Selective
2 - 23	133	8	1,100	Selective
2 - 9	357	14.1	5,000	Selective
2 - 24	104	29	3,000	Selective
2 - 5	401	17.7	7,100	Clearcut
2 - 6	178	15.3	2,700	Clearcut
2 - 7	344	39.9	14,400	Clearcut
2 - 4	499	17.5	8,800	Clearcut
2 - 3	594	11.7	6,900	Clearcut
2 - 2	504	14.6	7,400	Clearcut
2 - 14	402	40	16,000	Clearcut

TOTAL VOLUME 5 YEAR PERIOD 284,900 m3

AVERAGE VOLUME PER YEAR 56,980 m3

**T.F.L. #47
COMPARTMENT 15 & 16
20 YEAR PLAN**

PERIOD #3 2005 - 2009

<u>CUT BLOCK</u>	<u>VOL / HA</u> m3	<u>AREA</u> Ha	<u>VOLUME</u> m3	<u>HARVEST TYPE</u>
3 - 11	377	21.7	8,200	Clearcut
3 - 16	290	39.2	11,400	"
3 - 13	311	40	12,500	"
3 - 14	365	39.8	14,500	"
3 - 15	371	40	15,000	"
3 - 18	224	26.6	6,000	"
4 - 6	294	17.8	5,200	"
4 - 5	283	30.1	8,500	"
4 - 4	296	37.2	11,000	"
3 - 9	329	31.2	10,200	"
3 - 10	429	29.2	12,500	"
3 - 8	453	20.3	9,200	"
3 - 19	475	24	11,400	"
4 - 1	370	38.9	14,400	"
4 - 2	215	38.7	8,300	"
4 - 3	242	33.2	8,000	"
3 - 12	357	36	12,800	"
4 - 9	313	37.7	11,800	"
3 - 21	82	23.6	1,900	Selective
3 - 20	166	28.7	4,800	Selective
4 - 7	415	22.2	9,200	Clearcut
4 - 8	368	25	9,200	"
4 - 10	350	38.8	13,600	"
3 - 17	290	36.2	10,500	"
L-10-A	308	38.3	11,800	"
L3X	616	28.7	17,600	"
L4K1	475	36.3	17,200	"

TOTAL VOLUME 5 YEAR PERIOD 286,700m3

AVERAGE VOLUME PER YEAR 57,340m3

**T.F.L. #47
COMPARTMENT 15 & 16
20 YEAR PLAN**

PERIOD #4 2010 - 2014

<u>CUT BLOCK</u>	<u>VOL / HA</u> m3	<u>AREA</u> Ha	<u>VOLUME</u> m3	<u>HARVEST TYPE</u>
4 - 26	290	40	11,600	Clearcut
4 - 27	357	30.2	10,700	"
4 - 20	313	39.8	12,500	"
4 - 28	310	23	7,000	"
4 - 29	290	24.3	7,100	"
4 - 22	471	38	17,900	"
4 - 20	348	40	13,900	"
4 - 19	471	20.9	9,800	"
4 - 21	363	26.4	9,500	"
4 - 15	451	37.9	17,100	"
4 - 16	483	39	18,800	"
4 - 17	374	23.4	8,700	"
4 - 18	351	40	14,000	"
4 - 23	349	24	8,400	"
4 - 30	129	8.6	1,100	Selective
4 - 31	129	7	900	Selective
4 - 14	538	39.6	21,300	Clearcut
4 - 12	349	40	13,900	"
4 - 13	324	39	12,600	"
4 - 11	364	37.7	13,700	"
4 - 32	123	26.6	3,300	Selective
4 - 24	215	20	4,300	Clearcut
4 - 25	271	20	5,400	"
C - 7	264	40	10,800	"
2 - 8	227	18.2	4,100	"
A - 2	248	17.5	4300	"

TOTAL VOLUME 5 YEAR PERIOD 262,700m3

AVERAGE VOLUME PER YEAR 52,540m3