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FEB 16 1999

TIMBER HARVESTING PLAN

STATE OF CALIFORNIA
DEPARTMENT OF FORESTRY
AND FIRE PROTECTION
RM-63 (1-98)

DEPT. OF FORESTRY
MENDOCINO COUNTY

1. _____ 7. _____
2. _____ 8. _____
3. _____ 9. _____
4. _____ 10. _____
5. _____ 11. _____
6. _____ 12. _____

If this is a Modified THP, check box

[]

File 2/17/99 cc Baucom

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THP No. 1-98-415 MEN

Dates Rec'd DEC 07 1998

JAN 05 1999

Date Filed JAN 15 1999

Date Approved FEB 10 1999

Date Expires FEB 9 2002

Extensions 1) [] 2) []

This Timber Harvesting Plan (THP) form, when properly completed, is designed to comply with the Forest Practice Act (FPA) and Board of Forestry rules. See separate instructions for information on completing this form. NOTE: The form must be printed legibly in ink or typewritten. The THP is divided into six sections. If more space is necessary to answer a question, continue the answer at the end of the appropriate section of your THP. If writing an electronic version, insert additional space for your answer. Please distinguish answers from questions by font change, bold or underline.

SECTION I - GENERAL INFORMATION

This THP conforms to my/our plan and upon approval, I/we agree to conduct harvesting in accordance therewith. Consent is hereby given to the Director of Forestry and Fire Protection, and his or her agents and employees, to enter the premises to inspect timber operations for compliance with the Forest Practice Act and Forest Practice Rules.

1. TIMBER OWNER(S) OF RECORD: Name Mr. Fred Galbreath

Address PO BOX 188

City Kentfield State CA Zip 94904 Phone (707) 894-5676

X Signature (SEE Letter THP Page 90) L.S. 12/13/98 Date _____

NOTE: The timber owner is responsible for payment of a yield tax. Timber Yield Tax information may be obtained at the Timber Tax Division, State Board of Equalization, P.O. Box 942879, Sacramento, California 94279-0001.

2. TIMBERLAND OWNER(S) OF RECORD: Name Mr. Fred Galbreath

Address P.O. Box 188

City Kentfield State CA Zip 94904 Phone (707) 894-5676

X Signature [Signature] Date Nov 28, 1998

3. LICENSED TIMBER OPERATOR(S): Name Charles Hiatt

Lic. No. A-7493 ✓

(If unknown, so state. You must notify CDF of LTO prior to start of operations)
Address PO BOX 595

City Boonville State CA Zip 95415 Phone (707) 895-2403

Signature _____ Date _____

4. PLAN SUBMITTER(S): Name Charles Hiatt

Address PO BOX 595

City Boonville State CA Zip 95415 Phone (707) 895-2403

(If submitter is not 1, 2, or 3 above he/she must sign below and provide explanation of authority.)

X Signature [Signature] Date Nov 25, 1998

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JAN 05 1999

COAST AREA OFFICE 1
RESOURCE MANAGEMENT

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DEC 07 1998

COAST AREA OFFICE
RESOURCE MANAGEMENT

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Yale Creek #2
1998

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5. a. List person to contact on-site who is responsible for the conduct of the operation. If unknown, so state and name must be provided for inclusion in the THP prior to start of timber operations.

Name Lee Susan

Address 16575 Franklin Rd.

City Fort Bragg State CA Zip 95437 Phone (707) 964-4566

- b. ☒ Yes ☐ No Will the timber operator be employed for the construction and maintenance of roads and landings during conduct of timber operations? If no, who is responsible

- c. Who is responsible for erosion control maintenance after timber operations have ceased and until certification of the Work Completion Report? If not LTO, then written agreement must be provided per 1050 (c).

Timber Operator

6. a. Expected date of commencement of timber operations:

☒ date of THP conformance, or ☐ _____ (date) _____

- b. Expected date of completion of timber operations:

☒ 3 years from date of THP conformance, or ☐ _____ (date) _____

7. The timber operation will occur within the:

☒ COAST FOREST DISTRICT

☐ Southern Subdistrict of the Coast F.D.

☐ The Tahoe Regional Planning Authority Jurisdiction

☐ A County with Special Regulations, identify: _____

☐ SOUTHERN FOREST DISTRICT

☐ High use subdistrict of the Southern F.D.

☐ Special Treatment Area(s), identify: _____

☐ NORTHERN FOREST DISTRICT

☐ Other _____

8. Location of the timber operation by legal description:

Base and Meridian:

☒ Mount Diablo

☐ Humboldt

☐ San Bernardino

Section

Township

Range

Acreage

County

Assessor's Parcel Number*

15

12N

13W

26

Mendocino

22

12N

13W

24

Mendocino

TOTAL ACREAGE 50 (Logging Area Only)

* Optional

Planning Watershed(s) (Optional)

9. ☐ Yes ☒ No Has a Timberland Conversion been submitted? If yes, list expected approval date or permit number and expiration date if already approved: _____

10. ☐ Yes ☒ No Is there an approved Sustained Yield Plan for this property? Number _____; Date app. _____

- ☐ Yes ☒ No Has a Sustained Yield Plan been submitted but not approved? Number _____; Date sub. _____

11. ☐ Yes ☒ No Is there a THP or NTMP on file with CDF for any portion of the plan area for which a report of satisfactory stocking has not been issued by CDF?

If yes, identify the THP or NTMP number(s): _____

12. ☒ Yes ☐ No Is a Notice of Intent necessary for this THP?
☒ Yes ☐ No If yes was the Notice of Intent posted as required by 14 CCR 1032.7 (g)?

13. RPF preparing the THP: Name Lee Susan RPF Number 2127

Address 16575 Franklin Rd.

City Fort Bragg State CA Zip 95437 Phone (707) 964-4566

- a. ☒ Yes ☐ No I have notified the plan submitter(s), in writing, of their responsibilities pursuant to Title 14 CCR 1035 of the Forest Practice Rules.
☒ Yes ☐ No I have notified the timber owner and the timberland owner of their responsibilities for compliance with the Forest Practice Act and rules, specifically the stocking requirements of the rules and the maintenance of erosion control structures of the rules.
- b. ☒ Yes ☐ No I will provide the timber operator with a copy of the portions of the approved THP as listed in 14 CCR 1035 (e). If "no", who will provide the LTO a copy of the approved THP?

I or my supervised designee will meet with the LTO prior to commencement of operations to advise of sensitive conditions and provisions of the plan pursuant to Title 14 CCR 1035.2 .

- c. I have the following authority and responsibilities for preparation and administration of the THP and timber operation. (Include both work completed and work remaining to be done):

The listed RPF will be the plan submitters agent during the THP approval process. The RPF will meet with the LTO to discuss the project as required by Title 14 CCR 1035.2. THP preparation fieldwork will be done by the listed RPF. The RPF will submit any necessary amendments if employed to do so. It is the LTO's responsibility to insure that the RPF / LTO meeting happens in a timely fashion.

- d. Additional required work requiring an RPF, which I do not have the authority or responsibility to perform:

NSO surveys in additional years if it becomes necessary to do so.

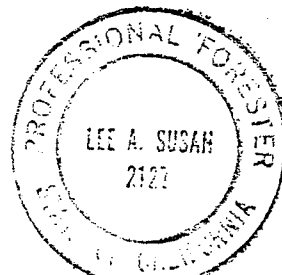
- e. After considering the rules of the Board of Forestry and the mitigation measures incorporated in this THP, I have determined that the timber operation:

☐ will have a significant adverse impact on the environment. (Statement of reasons for overriding considerations contained in Section III)

☒ will not have a significant adverse impact on the environment.

Registered Professional Forester: I certify that I, or my supervised designee, personally inspected the THP area, and this plan complies with the Forest Practice Act, the Forest Practice Rules and the Professional Foresters Law. If this is a Modified THP, I also, certify that: 1) the conditions or facts stated in 14 CCR 1051 (a) (1) - (16) exist on the THP Area at the time of submission, preparation, mitigation, and analysis of the THP and no identified potential significant effects remain undisclosed; and 2) I, or my supervised designee will meet with the LTO at the THP site, before timber operations commence, to review and discuss the contents and implementation of the Modified THP.

Signature Lee Susan Date 11/20/98



SECTION II - PLAN OF TIMBER OPERATIONS

NOTE: If a provision of this THP is proposed that is different than the standard rule, the explanation and justification should normally be included in Section III unless it is clearer and better understood as part of Section II.

14. a. Check the Silvicultural methods or treatments allowed by the rules that are to be applied under this THP. Specify the option chosen to demonstrate Maximum Sustained Production (MSP) according to 14 CCR 913 (933, 953).11. If more than one method or treatment will be used show boundaries on map and list approximate acreage for each.
- | | | |
|---|--|---|
| <input type="checkbox"/> Clearcutting _____ ac. | <input type="checkbox"/> Shelterwood Prep. Step _____ ac. | <input type="checkbox"/> Seed Tree Seed Step _____ ac. |
| | <input type="checkbox"/> Shelterwood Seed Step _____ ac. | <input type="checkbox"/> Seed Tree Removal Step _____ ac. |
| | <input type="checkbox"/> Shelterwood Removal Step _____ ac. | |
| <input checked="" type="checkbox"/> Selection <u>23</u> ac. | <input type="checkbox"/> Group Selection _____ ac. | <input type="checkbox"/> Transition _____ ac. |
| <input type="checkbox"/> Commercial Thinning _____ ac. | | <input type="checkbox"/> Sanitation Salvage _____ ac. |
| <input type="checkbox"/> Special Treatment Area _____ ac. | <input checked="" type="checkbox"/> Rehab. of Understocked Area <u>3</u> ac. | <input type="checkbox"/> Fuelbreak _____ ac. |
| <input checked="" type="checkbox"/> Alternative <u>24</u> ac. | <input type="checkbox"/> Conversion _____ ac. | <input type="checkbox"/> Non-Timberland Area _____ ac. |
- Total acreage 50 ac. (Explain if total is different from that listed in 8.) MSP option chosen (a) ☐ (b) ☐ (c) ☒

b. If Selection, Group Selection, Commercial Thinning, Sanitation Salvage or Alternative methods are selected the post harvest stocking levels (differentiated by site if applicable) must be stated. Note mapping requirements of 1034 (x)(12). The plan area is site class III and IV according to SCS soil type maps and field review. The selection units will have a post harvest basal area in excess of 75 sq. ft./ac. with the residual stand meeting the seed tree leave requirements of Title 14 CCR 913.1 (c)(1)(A) as well as specified basal area standards. The alternative prescription unit will be most like a seed tree removal with areas of dense Douglas fir regeneration thinning interspersed. The post harvest stand for the alternative prescription unit will have a residual basal area of approximately of 37 sq. ft. of basal area per acre and will be stocked to the standards of 14 CCR 912.7(b) (1). Approximately 14 sq. ft. of basal area per acre is proposed for harvest in the alternative prescription areas.

c. ☐ Yes ☒ No Will evenage regeneration step units be larger than those specified in the rules (20 acre tractor, 30 acre cable)? If yes, provide substantial evidence that the THP contains measures to accomplish any of subsections (A) - (E) of 14 CCR 913 (933, 953).1(a) (2) in Section III of the THP. List below any instructions to the LTO necessary to meet (A) - (E) not found elsewhere in the THP. These units must be designated on map and listed by size.

d. Trees to be harvested or retained must be marked by or marked under the supervision of the RPF. Specify how the trees will be marked and whether harvested or retained.

Conifers to be harvested in all areas have been marked with blue paint.

☐ Yes ☒ No Is a waiver of marking by the RPF requirement requested? If yes, how will LTO determine which trees will be harvested or retained? If yes and more than one silvicultural method, or Group Selection is to be used, how will LTO determine boundaries of different methods or groups?

e. Forest Products to be Harvested: Sawlogs, pulplogs, veneer logs and fuelwood.

- f. ☐ Yes ☒ No Are group B species proposed for management?
☐ Yes ☒ No Are group B or non-indigenous A species to be used to meet stocking standards?
☒ Yes ☐ No Will group B species need to be reduced to maintain relative site occupancy of A species.
If any answer is yes, list the species, describe treatment, and provide the LTO with necessary felling guidance.

Hardwood competition will be addressed by harvesting tanoak over 6" DBH which are within 18 feet of the stump of any conifer cut within the rehabilitation and alternative prescription areas. The site vacancy created in the rehabilitation areas will be planted so that at least 10 conifers are established for each conifer cut in the rehabilitation area.

- g. Other instructions to LTO concerning felling operations

All applicable rules and regulations apply. Nothing contained in this THP shall be construed as a requirement to work in an unsafe manner. If trees designated for harvest cannot be cut in a safe manner, they may be left standing and if safety considerations indicate that trees marked for retention must be cut then they may be cut. If safety considerations dictate that an unmarked tree be cut then a marked tree of equal or greater size will be retained as a replacement.

- h. ☒ Yes ☐ No Will artificial regeneration be required to meet stocking standards?

- i. ☐ Yes ☒ No Will site preparation be used to meet stocking standards?
If yes, provide the information required for a site preparation addendum.

- j. If the rehabilitation method is chosen provide a regeneration plan as required by 14 CCR 913(934, 954).4(b).

The rehabilitation area is currently understocked when considering solely Group A species and has been designated as rehabilitation. Trees marked for harvest are generally defective and in poor health. The regeneration plan for this area is as follows:

a) Site preparation measures will be limited to disturbance associated with normal harvesting activity.

Broadcast burning is not considered beneficial on this site and the ground is too steep for mechanical site preparation techniques.

b) Regeneration will be accomplished by planting Douglas-fir and redwood seedlings. Planting will be performed the first winter following the completion of operations.

Hardwood competition will be the primary problem associated with conifer seedling survival and growth on this site. Hardwood competition in the rehabilitation unit will be addressed by harvesting tanoak over 6" DBH which are within 18 feet of the stump of any conifer cut within the rehabilitation area.

PESTS

15. a. ☒ Yes ☐ No Is this THP within an area that the Board of Forestry has declared a zone of infestation or infection pursuant to PRC 4712-4718? If yes, identify feasible measures being taken to mitigate adverse infestation or infection impacts from the timber operation. See 917(937, 957).9(a).

b. ☐ Yes ☐ No If outside a declared zone, are there any insect, disease or pest problems of significance in the THP area? If yes, describe the proposed measures to improve the health, vigor and productivity of the stand(s).

The plan area is within a declared zone of infestation for Pine Pitch Canker. No pine has been observed and no pine is proposed for harvest under this THP.

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HARVESTING PRACTICES

16. Indicate type of yarding system and equipment to be used:

GROUND BASED*		CABLE		SPECIAL	
a.	<input checked="" type="checkbox"/> Tractor, including end/long lining	d.	<input type="checkbox"/> Cable, ground lead	g.	<input type="checkbox"/> Animal
b.	<input checked="" type="checkbox"/> Rubber tired skidder, Forwarder	e.	<input type="checkbox"/> Cable, high lead	h.	<input type="checkbox"/> Helicopter
c.	<input type="checkbox"/> Feller buncher	f.	<input type="checkbox"/> Cable, Skyline	i.	<input type="checkbox"/> Other _____

* All tractor operations restrictions apply to ground based equipment.

17. Erosion Hazard Rating: Indicate Erosion Hazard Ratings present on THP. (Must match EHR worksheets)

Low ☐ Moderate ☒ High ☒ Extreme ☐

If more than one rating is checked, areas must be delineated on map to 20 acres in size (10 acres for high and extreme EHRs in the Coast District).

18. Soil Stabilization:

In addition to the standard waterbreak requirements describe soil stabilization measures or additional erosion control measures to be implemented and the location of their application. See requirements of 916 (936, 956).7.

Annual rye grass will be planted with an application rate of 25 lbs./ac. or more, where more than 100 continuous square feet of bare mineral soil is exposed in the WLPZ. Seeding will be done prior to October 15th except that such bare areas created after October 15th will be seeded within 10 days. Title 14 CCR 916.7 which is pertinent to this situation has been reproduced here in part for ease of reference: *"Within the watercourse and lake protection zone adjacent to Class 1 and Class 2 waters, areas where mineral soil exceeding 800 continuous square feet in size, exposed by timber operations, shall be treated for reduction of soil loss. Treatment shall be done prior to October 15th except that such bare areas created after October 15th shall be so treated within 10 days, or as agreed to by the director".*

Where temporary stream crossings are used, bare soil associated with the crossing will be seeded with annual rye grass at an application rate of 25 lbs./ac. This seeding will be done after the crossing is removed and prior to October 15th. Title 14 CCR 923.3(d)(2) which is pertinent to this situation has been reproduced in part here for ease of reference: *"The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized to prevent slumping and to minimize soil erosion. Where needed, this material shall be stabilized by seeding, mulching, rock armoring, or other suitable treatment."*

In the event that sidecast or fill material extends more than 20 feet in slope distance from the outside edge of a roadbed and this material has access to a watercourse or lake which is protected by a WLPZ then the area will be seeded with annual rye grass at an application rate of 25 lbs./ac. or more. Title 14 CCR 923.2(m) which is pertinent to this situation has been reproduced here for ease of reference: *"Sidecast or fill material extending more than 20 feet in slope distance from the outside edge of the roadbed which has access to a watercourse or lake which is protected by a Wlpz shall be seeded, planted, mulched, removed or treated as specified in the THP, to adequately reduce soil erosion."*

In the event that sidecast or fill material extends more than 20 feet in slope distance from the outside edge of a landing and this material has access to a watercourse or lake then the area will be seeded with annual rye grass at an application rate of 25 lbs./ac. or more. Title 14 CCR 923.5(f)(4) which is pertinent to this situation has been reproduced here for ease of reference: *"Sidecast or fill material extending more than 20 feet in slope distance from the outside edge of the landing and which has access to a watercourse or lake shall be seeded, planted, mulched, removed or treated as specified in the THP to adequately reduce soil erosion."*

In areas described above where seeding is required straw mulch will be applied at a rate which achieves 90% surface coverage of exposed soil with an average depth of mulch being 2 or more inches as measured at the time of application. Additional seeding and mulching may be done as necessary to reduce the potential for short-term sheet and rill erosion.

19. ☐ Yes ☒ No Are tractor or skidder constructed layouts to be used? If yes, specify the location and extent of use:

20. ☐ Yes ☒ No Will ground based equipment be used within the area(s) designated for cable yarding? If yes, specify the location and for what purpose the equipment will be used?

21. Within the THP area will ground based equipment be used on:

- a. ☐ Yes ☒ No Unstable soils or slide areas? Only allowed if unavoidable.
b. ☒ Yes ☐ No Slopes over 65%?
c. ☒ Yes ☐ No Slopes over 50% with high or extreme EHR?
d. ☐ Yes ☒ No Slopes between 50% and 65% with moderate EHR where heavy equipment use will not be restricted to the limits described in 14 CCR 914 (934, 954).2(f)(2)(i) or (ii)?
e. ☐ Yes ☒ No Slopes over 50% which lead without flattening to sufficiently dissipate water flow and trap sediment before it reaches a watercourse or lake?

If a. is yes provide site specific measures to minimize effect of operations on slope stability and provide explanation and justification as required per 14 CCR 914 (934, 954).2(d). CDF requests the RPF consider flagging tractor road locations if a) is yes. If b., c., d. or e. is yes: 1) the location of tractor roads must be flagged on the ground prior to the PHI or start of operations if a PHI is not required, and 2) you must clearly explain the proposed exception and justify why the standard rule is not feasible or would not comply with 914 (934, 954).

The location of heavy equipment operation on unstable areas or any use beyond the limitations of the standard rules must be shown on the map. List specific instructions to the LTO below.

Only skid trails which have been flagged by the RPF are to be used where slopes exceed 50%. The primary skidding pattern and location of skid trails to be used on slopes over 50% is as shown on the THP Map. Impacts are minimized by location and design of the skid trail system with an emphasis on skidding away from watercourses and minimizing overall skid trail density. For additional information please see Item # 21 in section 3 of the THP. Water breaks will be installed on all skid trails to high EHR standards as follows:

MAXIMUM DISTANCE BETWEEN WATER BREAKS ON SKID TRAILS

Road or Trail Gradient	Maximum water break spacing
< 10%	150 feet
11 to 25%	100 feet
26 to 50%	75 feet
>50%	50 feet

22. ☒ Yes ☐ No Are any alternative practices to the standard harvesting or erosion control rules proposed for this plan? If yes, provide all the information as required by 14 CCR 914 (934, 954).9 in Section III. List specific instructions to the LTO below.

Flagged skid routes are generally existing skid trails which can be used with little or no reconstruction. The existing skid trail network occasionally crosses slopes over 65% and slopes over 50% in high E.H.R. areas as described in Section 3 of the THP. In these areas only existing flagged skid routes are to be used and overall ground disturbance is to be minimized. Only skid trails which have been flagged by the RPF are to be used where slopes exceed 50%.

Tractor Crossing TC1

The tractor crossing at THP Map Point TC1 is proposed to be a temporary class II watercourse crossing. The crossing is located on a topographic bench where stream gradient and channel depth are minimal. The crossing will be removed as specified in CCR 923.3(d) which states as follows : "When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion. Any soil or debris deposited in class III watercourses as a result of timber operations will be treated as per Title 14 CCR 916.4(c)(3) which has been reproduced here for ease of reference : "Soil deposited during timber operations in a class III watercourse other than at

a temporary crossing shall be removed and debris deposited during timber operations shall be removed or stabilized before the conclusion of timber operations, or before October 15. Temporary crossings shall be removed before the winter period, or as approved by the director."

Bare mineral soil associated with this crossing will be seeded and mulched as per Item 18 of the THP.

Tractor Crossing TC2

The designated tractor crossing at THP Map point "TC2" is a temporary class III watercourse crossing. This crossing will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion. Any soil or debris deposited in class III watercourses as a result of timber operations will be treated as per Title 14 CCR 916.4(c)(3) which has been reproduced here for ease of reference : *"Soil deposited during timber operations in a class III watercourse other than at a temporary crossing shall be removed and debris deposited during timber operations shall be removed or stabilized before the conclusion of timber operations, or before October 15. Temporary crossings shall be removed before the winter period, or as approved by the director."*

Bare mineral soil associated with this crossing will be seeded and mulched as per Item 18 of the THP.

Tractor Crossing TC3

The designated tractor crossing at THP Map point "TC3" is a temporary class III watercourse crossing. Temporary crossings will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion. Any soil or debris deposited in class III watercourses as a result of timber operations will be treated as per Title 14 CCR 916.4(c)(3) which has been reproduced here for ease of reference : *"Soil deposited during timber operations in a class III watercourse other than at a temporary crossing shall be removed and debris deposited during timber operations shall be removed or stabilized before the conclusion of timber operations, or before October 15. Temporary crossings shall be removed before the winter period, or as approved by the director."*

Bare mineral soil associated with this crossing will be seeded and mulched as per Item 18 of the THP.

Tractor Crossing TC4

The tractor crossing at THP Map point "TC4" is a temporary class III watercourse crossing located below the outfall of a spring and at the head of an existing landing. Temporary crossings will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion. Any soil or debris deposited in class III watercourses as a result of timber operations will be treated as per Title 14 CCR 916.4(c)(3) which has been reproduced here for ease of reference : *"Soil deposited during timber operations in a class III watercourse other than at a temporary crossing shall be removed and debris deposited during timber operations shall be removed or stabilized before the conclusion of timber operations, or before October 15. Temporary crossings shall be removed before the winter period, or as approved by the director."*

Bare mineral soil associated with this crossing will be seeded and mulched as per Item 18 of the THP.

WINTER OPERATIONS

23. a. ☐ Yes ☒ No Will timber operations occur during the winter period? If yes, complete c) or d). State in space provided if exempt because yarding method will be cable, helicopter, or balloon.
- b. ☐ Yes ☒ No Will mechanical site preparation be conducted during the winter period. If yes, complete d).
- c. ☐ I choose the in-lieu option as allowed in 14 CCR 914 (934, 954).7(c). Specify below the procedures listed in subsections (1) and (2), and list the site specific measures for operations in the WLPZ and unstable areas as required by subsection (3), if there will be no winter operations in these areas, so state.

- d. ☐ I choose to prepare a winter operating plan per 14 CCR 914 (934, 954).7 (b).

NOTE: All water breaks and rolling dips must be installed by October 15 or as prescribed above. For the purposes of installing drainage facilities and structures, waterbreaks, and rolling dips, the winter period is from October 15 to May 1.

ROADS AND LANDINGS

24. Will any roads be constructed? ☐ Yes ☒ No, or reconstructed? ☒ Yes ☐ No. If yes, check items a through g.
Will any landings be constructed? ☒ Yes ☐ No, or reconstructed? ☒ Yes ☐ No. If yes, check items h through k:
- a. ☐ Yes ☒ No Will new or reconstructed roads be wider than single lane with turnouts?
 - b. ☐ Yes ☒ No Are logging roads proposed in areas of unstable soils or known slide-prone areas?
 - c. ☐ Yes ☒ No Will new roads exceed a grade of 15% or have pitches of up to 20% for distances greater than 500 feet? Map must identify any new or reconstructed road segments that exceed an average 15% grade for over 200 feet.
 - d. ☒ Yes ☐ No Are roads to be constructed or reconstructed, other than crossings, within the WLPZ of a watercourse? If yes, completion of THP Item 27 a. will satisfy required documentation.
 - e. ☐ Yes ☒ No Will roads be located across more than 100 feet of lineal distance on slopes over 65%, or on slopes over 50% which are within 100 feet of the boundary of a WLPZ?
 - f. ☐ Yes ☒ No Will any roads or watercourse crossings be abandoned?
 - g. ☐ Yes ☒ No Are exceptions proposed for flagging or otherwise identifying the location of roads to be constructed?
 - h. ☐ Yes ☒ No Will any landings exceed one half acre in size? If any landing exceeds one quarter acre in size or requires substantial excavation the location must be shown on the map.
 - i. ☐ Yes ☒ No Are any landings proposed in areas of unstable soils or known slide prone areas?
 - j. ☐ Yes ☒ No Will any landings be located on slopes over 65% or on slopes over 50% which are within 100 feet of the boundary of a WLPZ?
 - k. ☐ Yes ☒ No Will any landings be abandoned?

25. If any section in item 24 is answered yes, specify site-specific measures to reduce adverse impacts and list any additional or special information needed by the LTO concerning the construction, maintenance and/or abandonment of roads or landings as required by 14 CCR Article 12. Include required explanation and justification in THP Section III.

Road reconstruction within the WLPZ at THP Map points "W1" and "W2" must be carefully done to prevent soil from being placed in a position to enter a watercourse. Road width is to be kept to a minimum (14 feet +/-) to minimize site disturbance and soil displacement. These areas will be seeded and mulched at the completion of operations. See additional information below under watercourse crossing "C2", "C3" and "C4" and THP item 27f.

Truck Roads

Existing seasonal truck roads will occasionally require some curve widening and other miscellaneous re-grading work. When curve widening and other reconstruction work occurs near watercourse crossings, sidecast will be limited and where necessary existing culverts will be extended and downspouts will be provided to prevent soil from being deposited into the fluvial system. Where roads cross watercourses the road will be shaped so that the road surface is drained to the inlet side of permanent culverts rather than drained off the outer edge of the fill. Water breaks and/or rolling dips will be required to divert water off the road or into an inside ditch prior to its reaching the fill material.

Watercourse Crossings

C1

A rocked rolling dip will be used to convey seasonal flows of a minor Class 3 watercourse across the haul road at THP Map Point "C1". Construction of the armored ford is to be as described in diagram 1 of this report.

C2

A temporary CMP will be used at THP Map Point "C2" to convey flows from a minor class 2 watercourse across the road prism. This crossing was pulled several years ago to correct an ongoing erosion situation. Use of a temporary crossing was effective in correcting the previously existing drainage problem at this location. Careful use of a temporary crossing at this location is appropriate for use in conjunction with the proposed harvest. Care will need to be used when this crossing is installed and removed to prevent sediment from being placed in a position to enter a watercourse.

The crossing will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion.

C3

A temporary crossing will be used at THP Map Point "C3" to cross a minor class 3 watercourse. This crossing was pulled several years ago to correct an ongoing erosion situation. Use of a temporary crossing was effective in correcting the previously existing drainage problem at this location. Careful use of a temporary crossing at this location is appropriate for use in conjunction with the proposed harvest. Care will need to be used when this crossing is installed and removed to prevent sediment from being placed in a position to enter a watercourse.

The crossing will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion.

C4

A temporary watercourse crossing on a class 1 watercourse is proposed at THP Map Point "C4". The stream gradient is low stream banks are modest allowing for the effective use of a temporary crossing. Culverts will be installed below stream grade to insure that fish passage is maintained.

The crossing will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion.

SLIDES

SL 1

This is a small slide adjacent to a class III watercourse. The slide has been flagged for avoidance with orange and white striped special treatment flagging.

WATERCOURSE AND LAKE PROTECTION ZONE (WLPZ) AND DOMESTIC WATER SUPPLY PROTECTION MEASURES:

26. a. ☒ Yes ☐ No Are there any watercourse or lakes which contain Class I through IV waters on or adjacent to the plan area? If yes, list the class, WLPZ or ELZ width, and protective measures determined from Table I and/or 14 CCR 916.4 (c) [936.4 (c), 956.4 (c)] of the WLPZ rules for each watercourse. Specify if Class III or IV watercourses have WLPZ , ELZ or both.
- b. ☒ Yes ☐ No Are there any watercourse crossings that require mapping per 14 CCR 1034 (x)(7)?
- c. ☐ Yes ☒ No Will tractor road watercourse crossings involve the use of a culvert? If yes state minimum diameter For each culvert (may be shown on map).

Class I Watercourses:

WLPZ buffers will be maintained adjacent to Class I watercourses to protect and enhance environmental conditions in the following ways :

1) water temperature, 2) streambed and flow modification by large woody debris, 3) filtration of organic and inorganic material, 4) up-slope stability. Adjacent to class I watercourses on slopes less than or equal to 30% the zone width will be 75 feet; and on slopes greater than 30% to 50% the zone will be 100 feet and on slopes greater than 50% the zone will be 150 feet.

In regards to class I WLPZ's the following practices will be observed:

- 1) The WLPZ will be clearly identified on the ground by the RPF who prepared the plan or his designee, with paint, flagging, or other suitable means, prior to the PHI.
- 2) To ensure retention of shade canopy, filter strip properties and the maintenance of wildlife values described in 14 CCR 916.4(b), a base mark will be placed below the cut line of the harvest trees within the zone and will be done in advance of the PHI by the RPF who prepared the plan or his designee.
- 3) To protect water temperature, filter strip properties, up-slope stability, and fish and wildlife values, at least 85% of the overstory canopy within 25 feet of the watercourse and 75% overstory within the balance of the WLPZ will be maintained. 50% of the understory canopy covering the ground will be left in a well distributed multi-storied stand configuration composed of a diversity of species similar to that found before the start of operations. The residual overstory canopy will be composed of at least 25% of the existing overstory conifers.

Class II Watercourses:

WLPZ buffers will be maintained adjacent to Class II watercourses to protect and enhance environmental conditions in the following ways :

- 1) water temperature, 2) streambed and flow modification by large woody debris, 3) filtration of organic and inorganic material, 4) up-slope stability. Adjacent to class II watercourses on slopes less than or equal to 30% the zone width will be 50 feet; and on slopes greater than 30% to 50% the zone will be 75 feet and on slopes greater than 50% the zone will be 100 feet.

In regards to class II WLPZ's the following practices will be observed:

- 1) The WLPZ will be clearly identified on the ground by the RPF who prepared the plan or his designee, with paint, flagging, or other suitable means, prior to the PHI.
- 2) To ensure retention of shade canopy, filter strip properties and the maintenance of wildlife values described in 14 CCR 916.4(b), a base mark will be placed below the cut line of the harvest trees within the zone and will be done in advance of the PHI by the RPF who prepared the plan or his designee.
- 3) To protect water temperature, filter strip properties, up-slope stability, and fish and wildlife values, at least 70% of the total canopy covering the ground will be left in a well distributed multi-storied stand configuration composed of a diversity of species similar to that found before the start of operations. The residual overstory canopy will be composed of at least 25% of the existing overstory conifers.

Class III Watercourses

Class III watercourses will have equipment limitation zones (ELZ's) of 25 feet where side slopes are less than 30% and 50 feet where side slopes are equal to or exceed 30%. Use of heavy equipment in class III ELZ's will be limited to tractor roads which are flagged and mapped in the THP. Class III ELZ tractor roads will be flagged and mapped in the THP prior to the pre-harvest inspection (PHI).

Timber falling will be conducted in accordance with CCR 914.1(a) which has been reproduced here for ease of reference : *"To the fullest extent possible and with due consideration given to the topography, lean of trees, landings, utility lines, local obstructions, and safety factors, trees shall be felled to lead in a direction away from watercourses and lakes".* Temporary crossings will be removed as specified in CCR 923.3(d) which states as follows : *"When watercourse crossings, other drainage structures, and associated fills are removed the following standards will apply :*

(1) Fills shall be excavated to form a channel which is as close as feasible to the natural watercourse grade and orientation and is wider than the natural channel. (2) The excavated material and any resulting cut bank shall be sloped back from the channel and stabilized by seeding, mulching, rock armoring, or other suitable treatment." Bare soil associated with watercourse crossings will be stabilized by seeding at the completion of operations as specified in item 18 in order to reduce the potential for short term sheet and rill erosion. Any soil or debris deposited in class III watercourses as a result of timber operations will be treated as per Title 14 CCR 916.4(c)(3) which has been reproduced here for ease of reference : *"Soil deposited during timber operations in a class III watercourse other than at a temporary crossing shall be removed and debris deposited during timber operations shall be removed or stabilized before the conclusion of timber operations, or before October 15. Temporary crossings shall be removed before the winter period, or as approved by the director."*

All Class III watercourse crossings will be flagged in the field by the RPF prior to the start of operations.

Spring Areas

SP 1

A minor spring is located at THP Map point "SP 1". This spring is included in the Class 1 WLPZ. The outflow of this spring crosses an existing road. The road will be drained at this location as described under road crossing "C3".

SP 2

This spring is located at THP Map point "SP2". A 50 foot ELZ will be maintained above this spring. The perimeter of the ELZ is flagged in the field with blue and white ribbon.

SP 3

This spring is located at THP Map point "SP 3". A 50 foot ELZ will be maintained above this spring. The perimeter of the ELZ is flagged in the field with blue and white ribbon.

27. Are site specific practices proposed in-lieu of the following standard WLPZ practices?
- a. ☒ Yes ☐ No Prohibition of the construction or reconstruction of roads, construction or use of tractor roads or landings in Class I, II, III, or IV watercourses, WLPZs, marshes, wet meadows, and other wet areas except as follows:
 - (1) At prepared tractor road crossings.
 - (2) Crossings of Class III watercourses which are dry at time of timber operations.
 - (3) At existing road crossings.
 - (4) At new tractor and road crossings approved by Department of Fish and Game.
 - b. ☐ Yes ☒ No Retention of non-commercial vegetation bordering and covering meadows and wet areas?
 - c. ☐ Yes ☒ No Directional felling of trees within the WLPZ away from the watercourse or lake?
 - d. ☐ Yes ☒ No Increase or decrease of width(s) of the WLPZ(s)?
 - e. ☐ Yes ☒ No Protection of watercourses which conduct class IV waters?
 - f. ☒ Yes ☐ No Exclusion of heavy equipment from the WLPZ except as follows:
 - (1) At prepared tractor road crossings.
 - (2) Crossings of Class III watercourses which are dry at time of timber operations.
 - (3) At existing road crossings.
 - (4) At new tractor and road crossings approved by Department of Fish and Game.
 - g. ☐ Yes ☒ No Establishment of ELZ for Class III watercourses unless sideslopes are <30% and EHR is low?
 - h. ☐ Yes ☒ No Retention of 50% of the overstory canopy in the WLPZ?
 - i. ☐ Yes ☒ No Retention of 50% of the understory in the WLPZ?
 - j. ☐ Yes ☒ No Are any additional in-lieu or any alternative practices proposed for watercourse or lake protection?

NOTE: A yes answer to any of items a. through j. constitutes an in-lieu practice. If any item is answered yes, refer to 14 CCR 916 (936, 956).1 and address the following for each item checked yes: 1. The RPF shall state the standard rule, 2. Explain and describe each proposed practice; 3. Explain how the proposed practice differs from the standard practice; 4. The specific location where it shall be applied, see map requirements of 14 CCR 1034(x)(15) and (16); 5. Provide in THP Section III an explanation and justification as to how the protection provided is equal to the standard rule and provides for the protection of the beneficial uses of water per 14 CCR 916.1(a). Reference the in-lieu and location to the specific watercourse to which it will be applied.

At THP Map Point W1 it is proposed to reconstruct approximately 300 +/- feet of existing road that is located within a class I WLPZ. This road segment will be carefully opened with minimal sidecast. Temporary crossings "C2" and "C3" will be constructed and removed as described in the THP under item 25. The potential for sheet and rill erosion on the road prism will be minimized by seeding and mulching all exposed soil in the WLPZ at this location as described in Item #18 of this THP.

For additional information concerning continued use of this road please refer to item 27a and 27f, Situation #1 in section 3 of this THP.

At THP Map Point W2 it is proposed to reconstruct approximately 200 +/- feet of existing road that is located within a class I WLPZ. This road segment will be carefully opened with minimal sidecast. The potential for sheet and rill erosion on the road prism will be minimized by seeding and mulching exposed soil in the WLPZ at this location as described in Item #18 of this THP.

For additional information concerning continued use of this road please refer to item 27a and 27f, Situation #2 in section 3 of this THP.

28. a. ☒ Yes ☐ No Are there any landowners within 1000 feet downstream of the THP boundary whose ownership adjoins or includes a class I, II, or IV watercourse(s) which receives surface drainage from the proposed timber operations? If yes, the requirements of 14 CCR 1032.10 apply. Proof of notice by letter and newspaper should be included in THP Section V. If No, 28 b. need not be answered.
- b. ☐ Yes ☒ No Is an exemption requested of the notification requirements of 1032.10? If yes, explanation and justification for the exemption must appear in THP Section III. Specify if requesting an exemption from the letter, the newspaper notice or both.

- c. ☐ Yes ☒ No Was any information received on domestic water supplies that required additional mitigation beyond that required by standard Watercourse and Lake Protection rules? If yes, list site specific measures to be implemented by the LTO.
-
-

29. ☐ Yes ☒ No Is any part of the THP area within a Sensitive Watershed as designated by the Board of Forestry? If yes, identify the watershed and list any special rules, operating procedures or mitigation that will be used to protect the resources identified at risk?
-
-

HAZARD REDUCTION:

30. a. ☐ Yes ☒ No Are there roads or improvements which require slash treatment adjacent to them? If yes, specify the type of improvement, treatment distance, and treatment method.
b. ☐ Yes ☒ No Are any alternatives to the rules for slash treatment along roads and within 200 feet of structures requested? If yes, RPF must explain and justify how alternative provides equal fire protection. Include a description of the alternative and where it will be utilized below.
31. ☒ Yes ☐ No Will piling and burning be used for hazard reduction? See 14 CCR 917 (937, 957).1-11 for specific requirements. Note: LTO is responsible for slash disposal. This responsibility cannot be transferred.

BIOLOGICAL AND CULTURAL RESOURCES

32. a. ☒ Yes ☐ No Are any plant or animal species, including their habitat, which are listed as rare, threatened or endangered under federal or state law, or a sensitive species by the Board, associated with the THP area? If yes, identify the species and the provisions to be taken for the protection of the species.
b. ☐ Yes ☒ No Are there any non-listed species which will be significantly impacted by the operation? If yes, identify the species and the provisions to be taken for the protection of the species.

Habitat for the Northern Spotted Owl and indirectly habitat for the Coho salmon is associated with the plan area. Please see item 32 in Section 3 of the THP for additional information concerning these species.

33. ☒ Yes ☐ No Are there any snags which must be felled for fire protection or safety reasons? If yes, describe which snags are going to be felled and why.
Within the logging area all snags shall be retained to provide wildlife habitat except where safety is a concern and it is felt that safety will be improved by cutting a snag.

34. ☐ Yes ☒ No Are any Late Succession Forest Stands proposed for harvest? If yes, describe the measures to be implemented by the LTO that avoid long-term significant adverse effects on fish, wildlife and listed species known to be primarily associated with late succession forests.

35. ☒ Yes ☐ No Are any other provisions for wildlife protection required by the rules? If yes, describe.

A qualified DFG biologist has reviewed our plan and determined that the proposed harvest is consistent with regulations concerning the protection of the northern spotted owl. Please see additional confidential addendum concerning the Northern spotted owl.
See Page 13A

36. a. ☒ Yes ☐ No Has an archaeological survey been made of the THP area?
b. ☒ Yes ☐ No Has a current archaeological records check been conducted for the THP area?
c. ☐ Yes ☒ No Are there any archaeological or historical sites located in the THP area? Specific site locations and protection measures are contained in the Confidential Archaeological Addendum in Section VI of the

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Revised 1/15/99
L. SUSAN

If a listed species is encountered by the LTO during active operations in the area where the listed species is encountered will be suspended to insure that the take of a listed species does not occur. CDF and DFG will be notified as per CCR 919.2(d) which is reproduced here below for ease of reference.

(d) When an occupied nest site of a listed bird species is discovered during timber operations, the timber operator shall protect the nest tree, screening trees, perch trees, and replacement trees and shall apply the provisions of subsections (b) and (c) above and shall immediately notify the Department of Fish and Game and the Department of Forestry and Fire Protection. An amendment that shall be considered a minor amendment to the timber harvesting plan shall be filed reflecting such additional protection as is agreed between the operator and the Director after consultation with the Department of Fish and Game.

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THP, which is not available for general public review.

37. ☐ Yes ☒ No Has any inventory or growth and yield information designated "trade secret" been submitted in a separate confidential envelope in Section VI of this THP?

38. Describe any special instructions or constraints which are not listed elsewhere in Section II.

Alternatives to harvesting were considered in the early phases of this project. This THP has been prepared with the intent of insuring long term sustained production of quality forest products while maintaining and protecting other non commodity forest values such as wildlife, watershed, soils and aesthetics. Harvesting will occur in order to realize a yield. Several different silvicultural methods are proposed due to timber stand variability within the plan area. Additional consideration was given to harvest alternatives as follows:

- a) A no project alternative does not meet the objective of "long term sustained production of high quality forest products and does not generate revenue and is not consistent with the properties TPZ land use classification.
- b) Granting a conservation easement in lieu of harvesting does not meet the landowners goal of continuing to actively manage his property.
- c) Selecting an alternative harvest site does not meet the objective of long term sustained production of high quality forest products on the Galbreath Ranch.
- d) Public acquisition is considered to be contrary to the objective of "long term sustained production of high quality forest products". Public acquisition is also contrary to the landowners objective of continuing to manage his ownership as an active ranch during his lifetime.
- e) A variety of silvicultural methods are proposed in order to minimize impacts to other resources in the area.

DIRECTOR OF FORESTRY AND FIRE PROTECTION

This Timber Harvesting Plan conforms to the rules and regulations of the Board of Forestry and the Forest Practice Act:

By: _____
(Signature)

(Printed Name)

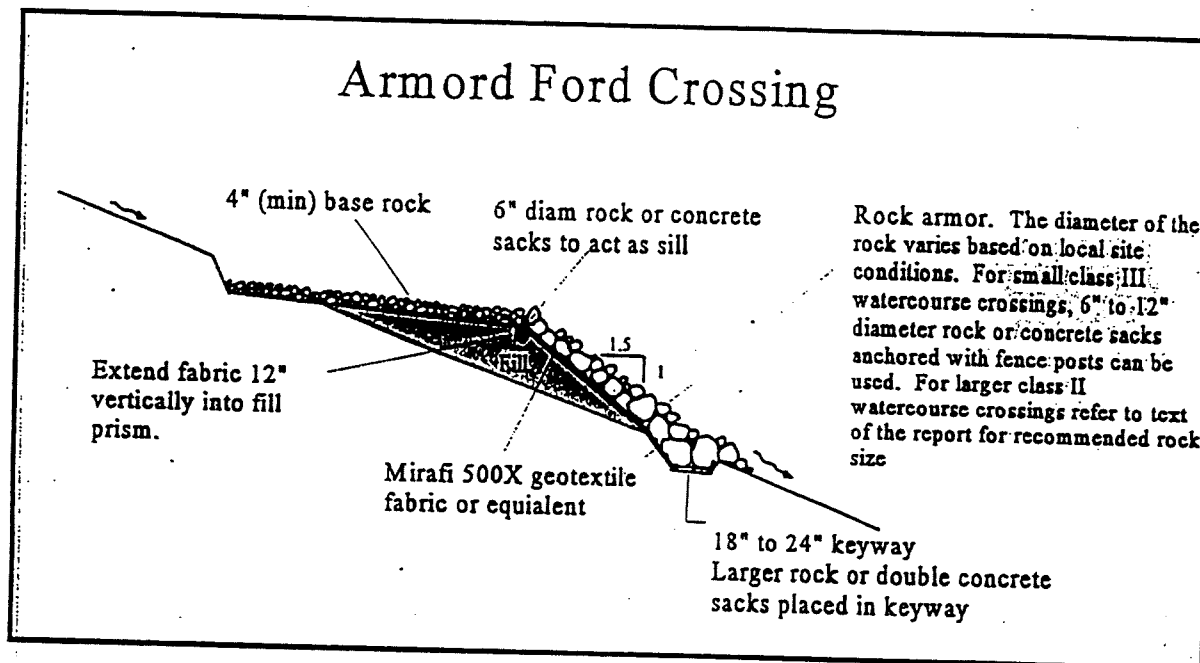
Leonard E. Theiss
No. 218

2/10/99
(Date)

Acting Deputy Chief
(Title)
Forest Practice

NOV 20 1998

Diagram 1

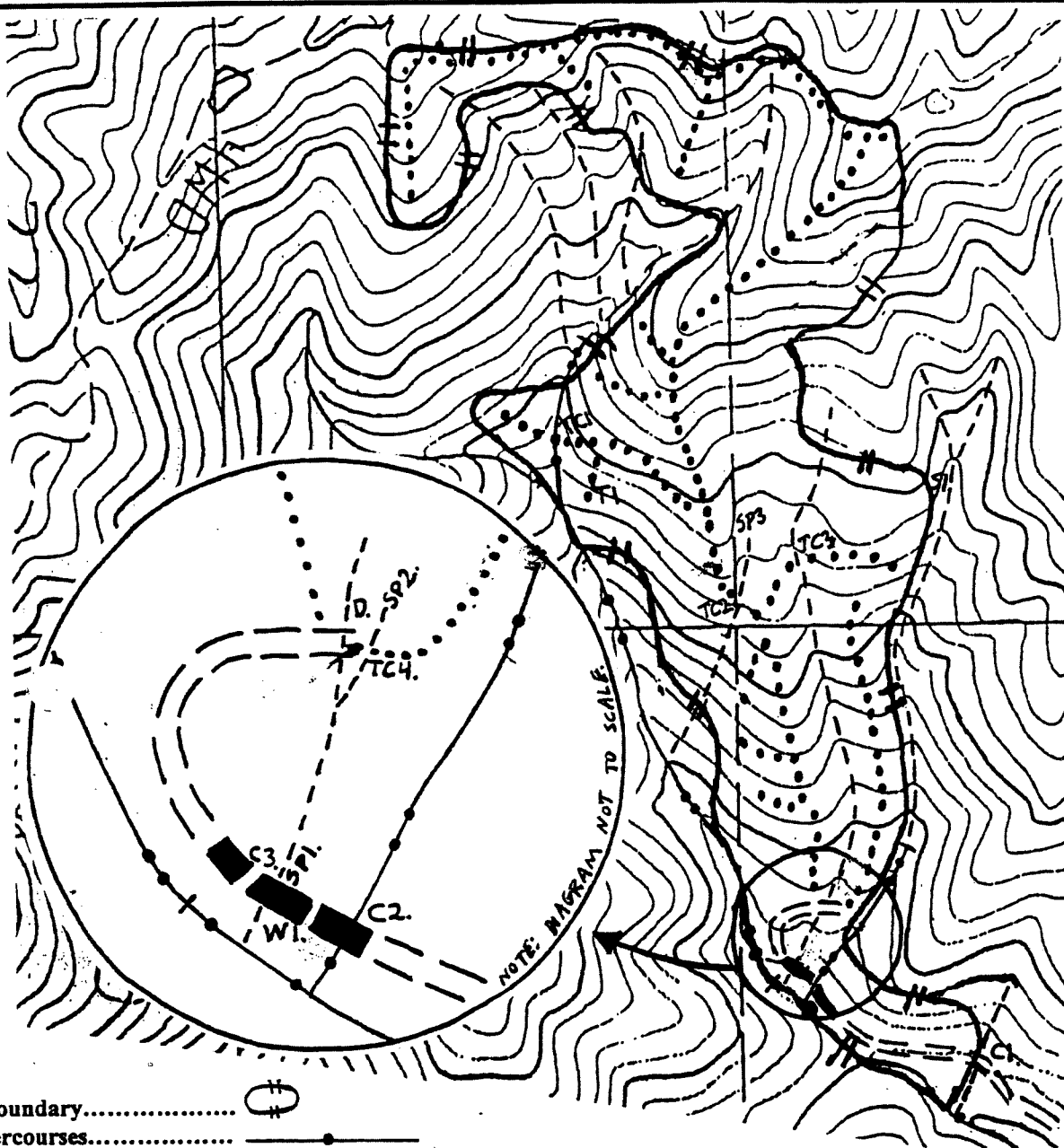


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MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

T 12 N

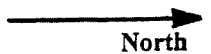
R 13 W



LEGEND

- Plan Area Boundary.....
- Class I Watercourses.....
- Class II Watercourses.....
- Class III Watercourses.....
- Springs..... SP1-SP3
- Stream Diversion..... D
- Existing Seasonal Truck Roads.....
- Existing Seasonal Truck Roads..... (reconstruction within WLPZ)(W1)
- 65% Skid Trail ... T1
- Skid Trail Crossings..... TC1-TC4
- Defined Skidding Pattern.....
- Map Scale is 1" = 500'

- C1..... Rocked Ford Crossing
- C2..... Temporary xing
- C3..... Temporary xing
- Slides... S1



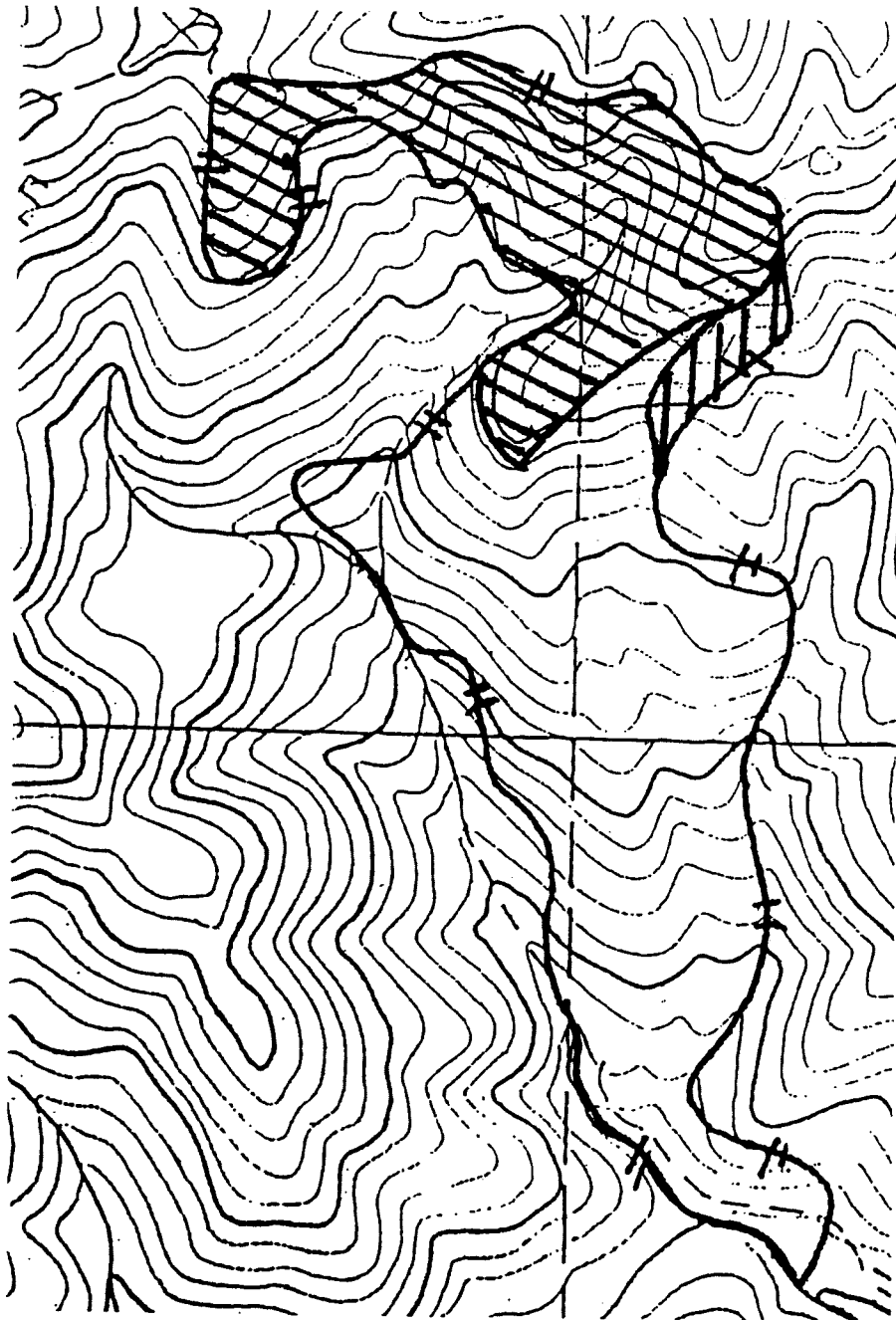
MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

PLAN ADDENDUM





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R 13 W



LEGEND

- Plan Area Boundary..... 
- Silviculture:
- Alternative Prescription..... 
- Selection..... 
- Rehabilitation..... 
- Map Scale is 1" = 500'



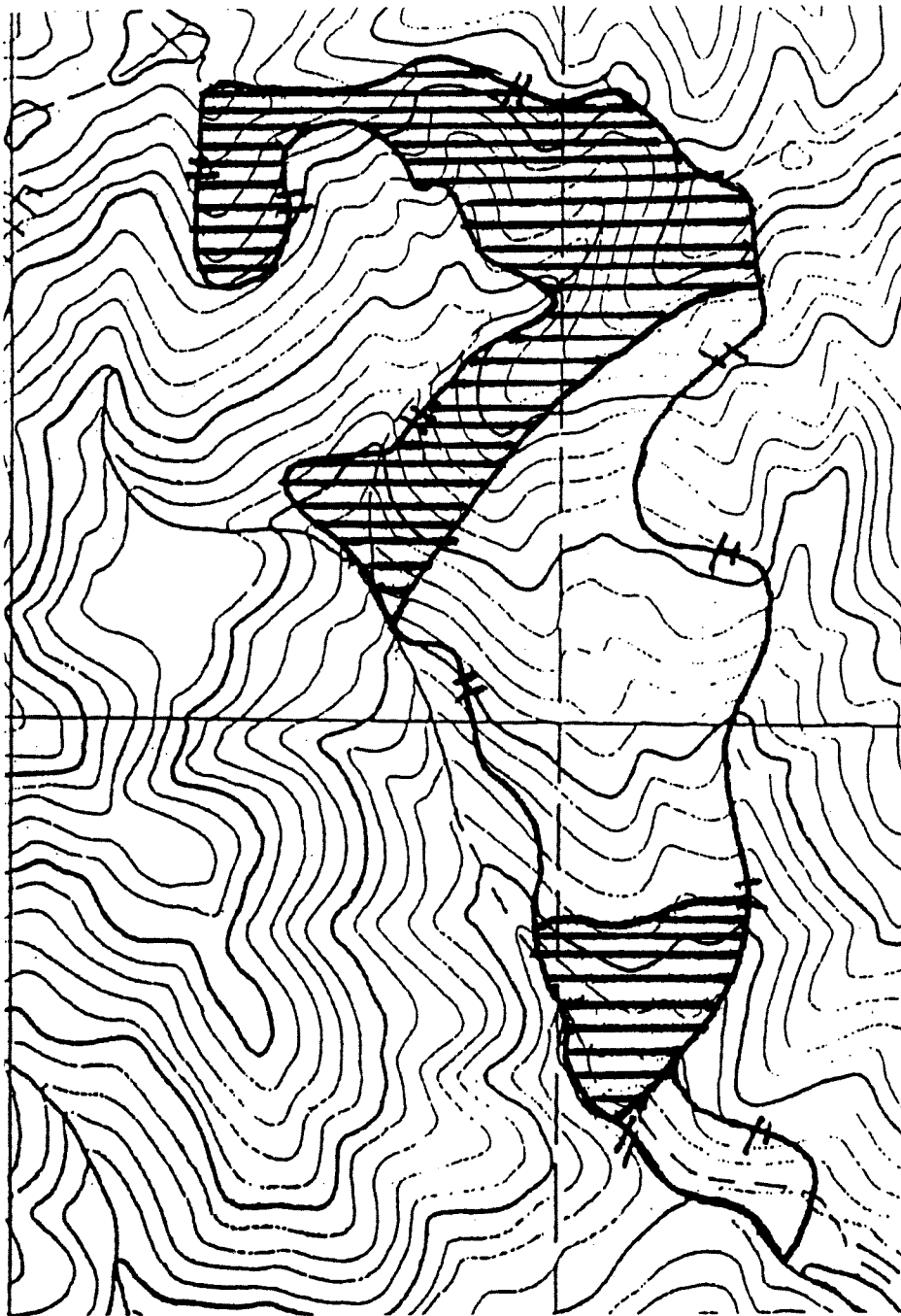
North

NOV 20 1998

MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

T 12 N

R 13 W



LEGEND

Plan Area Boundary.....



Site Class:

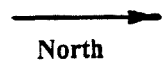
Site Class IV.....



Site Class III.....



Map Scale is 1" = 500'



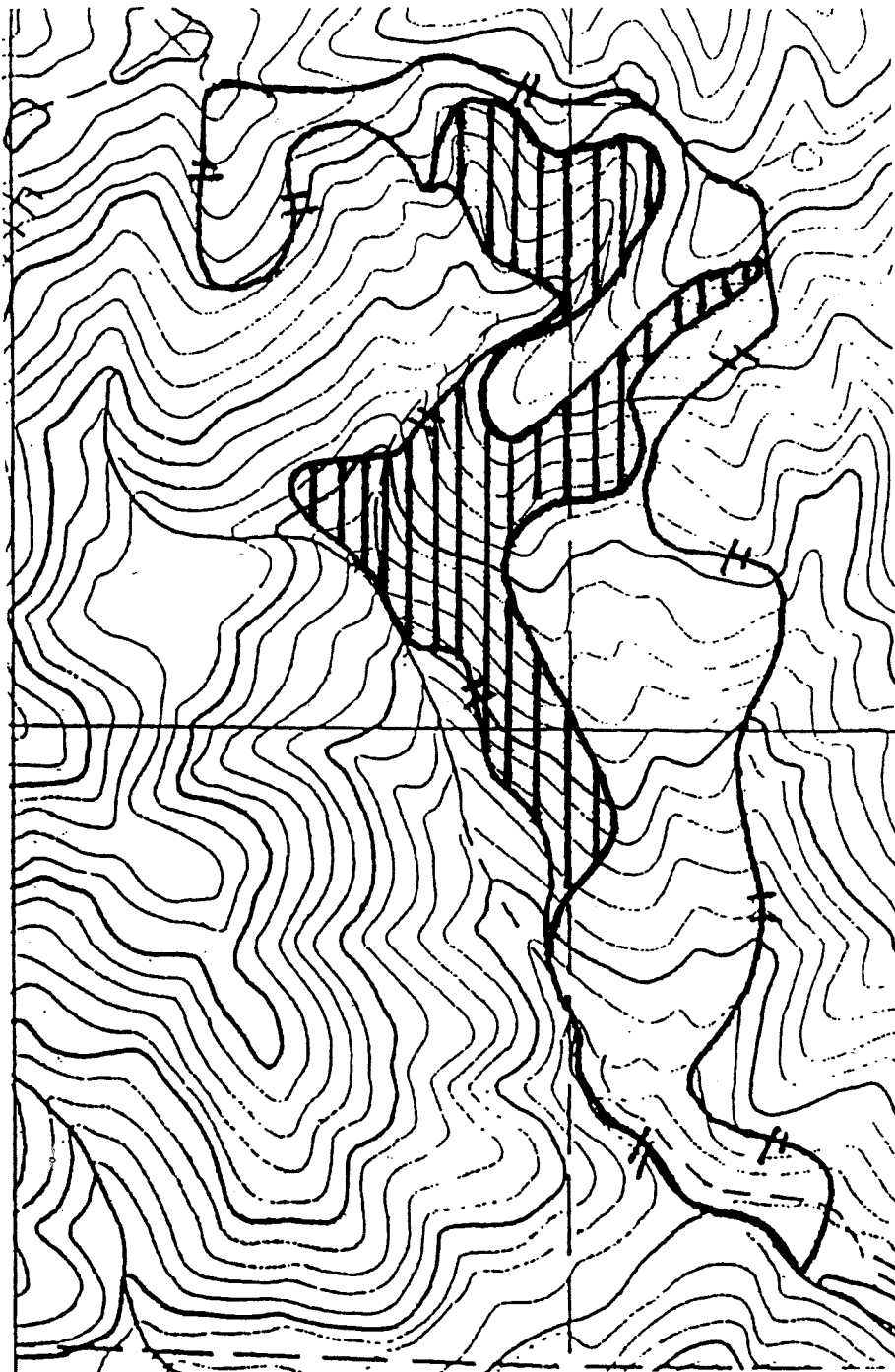
PLAN ADDENDUM

NOV 20 1998

MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

T 12 N

R 13 W



LEGEND

Plan Area Boundary.....



Erosion Hazard Rating:

Moderate.....



High.....



Map Scale is 1" = 500'



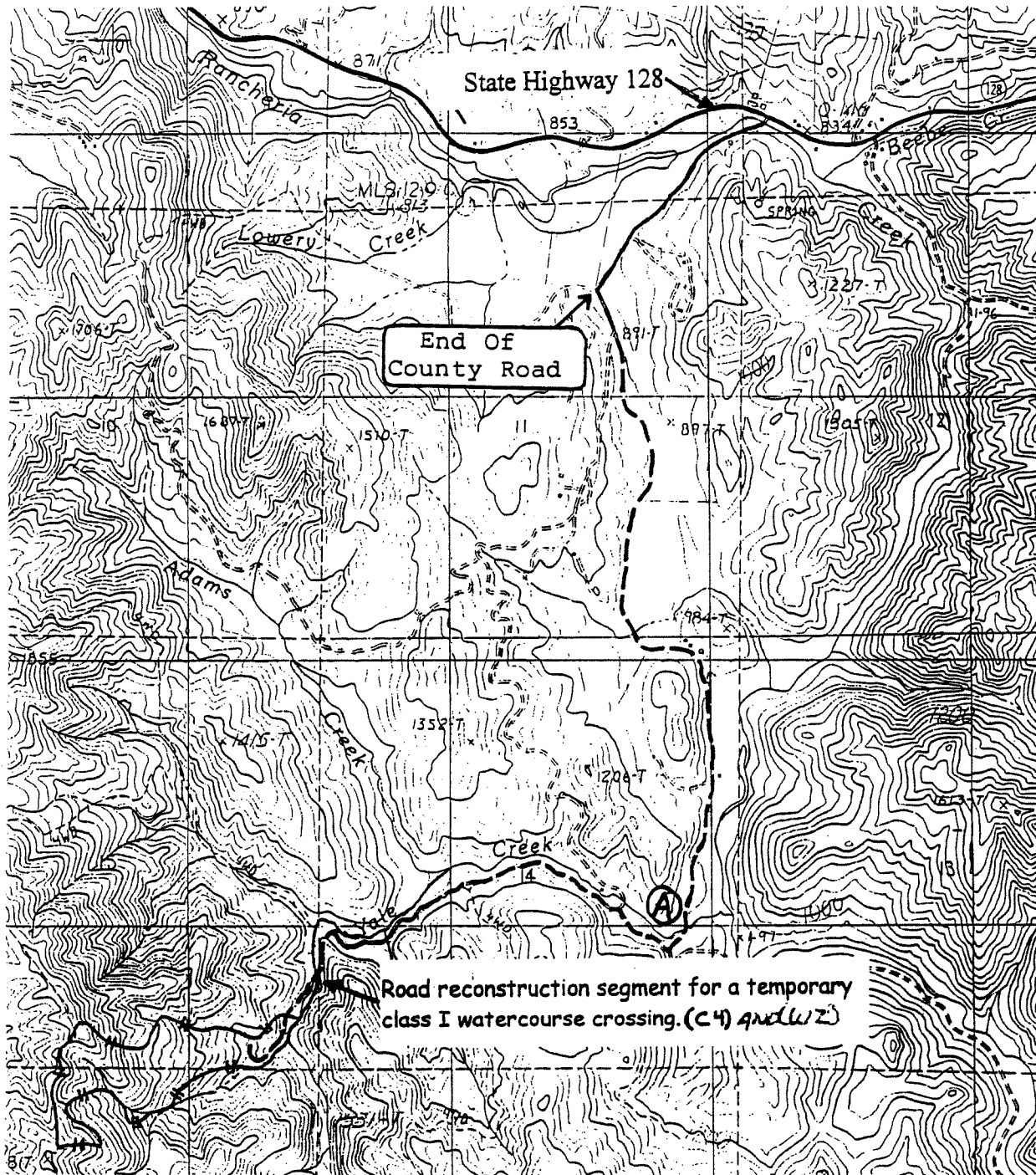
MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

PLAN ADDENDUM




NOV 20 1998

T 12 N

R 13 W



LEGEND

Plan Area Boundary..... 
Haul Route (Appurtenant Roads)..... 
State Highway 128..... 
Map Scale is 1" = 2000'

Roads are permanent between
Point A and the County Road.
Roads are seasonal between
Point A and the plan area.



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SECTION III TIMBER HARVEST PLAN ADDITIONAL INFORMATION**1034(jj) Description of Physical Conditions**

The proposed timber harvest is located on private property approximately 4 miles southwest of the town of Yorkville within the Yale Creek Drainage. Yale Creek is a tributary to Rancheria Creek. Rancheria Creek is a tributary to the Navarro river. The proposed harvest will occur on generally east facing slopes with elevations varying between 1080 and 2040 feet above sea level.

The proposed plan area is located within the Coastal Belt Franciscan Assemblage that SCS soil maps indicate is dominated by the Casabonne-Wohly-Pardaloe soils complex and the Hopland-Wohly soils complex in this area. Slopes in the plan area range from moderate (<35%) to steep (65%+). The majority of the plan area is identified as a site 4 timberland with some areas being identified as site III timberland based on field review.

The timber is a mixed stand of redwood and Douglas-fir, Pacific Madrone, true oaks and tanoak. The overstory generally consists of residual timber retained in the previous harvest 20 to 40 years ago. Younger age classes consist of generally healthy and fast growing redwood and Douglas-fir. Hardwoods are present in this area but do not dominate the stand.

Summary of Current Stand Conditions

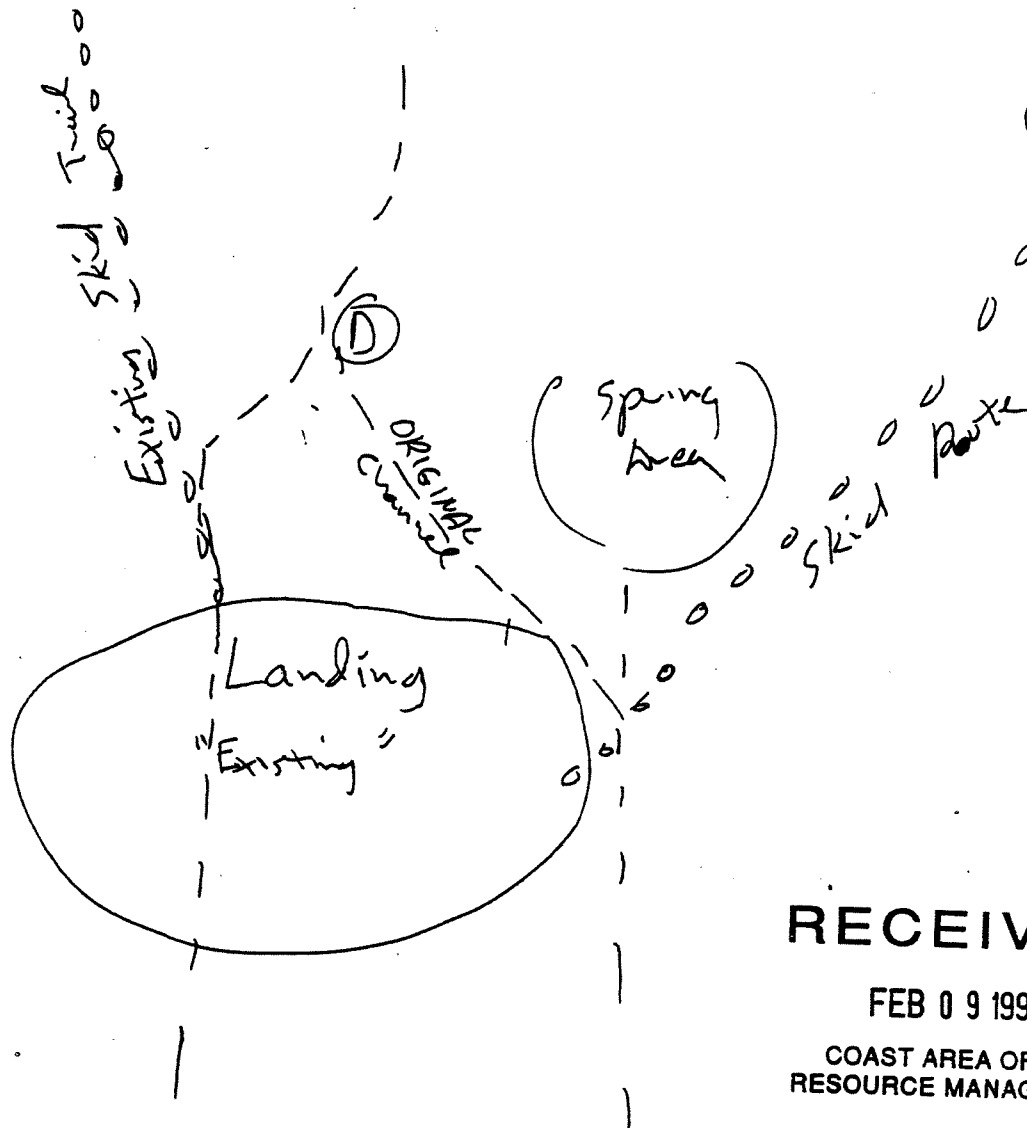
Species	% Stand Composition by BA	Average BA/AC
redwood	07 %	10 Sq. Ft.
Douglas-fir	60 %	88 Sq.Ft.
tanoak	26 %	38 Sq.Ft.
Other Hardwoods*	07 %	11 Sq.Ft.
Totals	100%	147 Sq.Ft.

*Other hardwoods are live oak, pepperwood and madrone.

Class one, class two, class three watercourses and several springs are located in or adjacent to the plan area. Harvest activity is minimized near these watercourses in order to protect the water resource.

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Sketch of Diversion
to Be Connected



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COAST AREA OFFICE
RESOURCE MANAGEMENT

Additional Page
20.1

At Point "D" Class 3 watercourse
is to be re-directed into old channel.

The ground is gentle and a channel
can be made with either a dozer
or a backhoe. Exposed soil is to
be seeded and mulched C.S. 2/5/99

Note Diversion Point Flagged in field

Additional Information Concerning THP Item 14.

A total of 24 acres are proposed for low volume harvesting under an alternative prescription silvicultural method, 23 acres are proposed to be harvested under the selection silvicultural method and 3 acres are proposed as a rehabilitation harvest. Current stand information was determined by a variable plot 30 BAF survey utilizing an approximate 2 X 5 Chain grid. Silvicultural prescriptions were determined based on the results of these surveys and on the basis of intensive ground review.

Alternative Prescription

The standard silvicultural prescriptions specified in the Forest Practice Act are not compatible with existing timber stand conditions and landowner objectives. Approximately 23 acres are proposed as an alternative prescription harvest. The harvest area typically has a light conifer overstory. The understory consists of Douglas-fir regeneration up to 40 years in age and a mixture of hardwood species including tanoak, live oak, pepperwood and Pacific madrone. Throughout the area small areas of moderately dense regeneration aged to approximately 40 years were marked on a thinning basis. These areas are widely distributed and are generally less than 1/4 acre in size and too small to map individually. Since it is impractical to map these small microsites that are co-mingled with the larger harvest area which most closely resembles a seed tree removal harvest. These small pockets of advanced regeneration were marked on a thinning from below basis with an emphasis on individual tree form and spacing. The post harvest basal area in these thinned areas will exceed 100 Sq. Ft./ac. Total marked as a commercial thinning is estimated to be less than 2 acres. Green culls and healthy trees from the overstory have been designated for retention in seed tree removal areas in order to maintain a variety of wildlife habitat and to provide for stand diversity. Hardwood competition in the rehabilitation unit will be addressed by harvesting tanoak over 6" DBH which is within 18 feet of the stump of any conifer cut within the alternative prescription area.

CCR 913.6 (b)(1) Current Stand Description and BA to be Cut

SCS soil survey information and field review indicates that the plan area is Site 4 timberland. Field review suggests that Site Class 3 timberland is also present within the plan area as shown on the THP Map. The existing timber stand is a fairly light stand of second growth conifer timber. The stand has a widely scattered overstory of mature conifer timber, which was retained during the previous harvest, and a conifer understory of variable age and density. The overstory has an average age in excess of 80 years. The understory consists of regeneration up to 40 years in age. Conifer basal area is approximately 51 Sq. ft./ac. for trees over 10" DBH. Approximately 14 Sq.Ft./Ac. of conifer basal area will be harvested in this area based on a sample mark of approximately 95%. Less than 15 predominant trees per acre are proposed for harvest. Hardwood competition in the rehabilitation unit will be addressed by harvesting tanoak over 6" DBH which is within 18 feet of the stump of any conifer cut within the alternative prescription area.

Summary of Current Stand Conditions:

Species	% Conifer Stand Composition by BA	Average BA/AC
Redwood	minimal	minimal
Douglas-fir	46 %	51 Sq. Ft.
tanoak	42%	47 Sq. Ft.
live oak, madrone, pepperwood	12%	14 Sq. Ft.
	100%	112 Sq. Ft.

CCR 913.6 (2) Stand Management Constraints

No particular stand management constraints are associated with this stand. The plan area is classified as Site Class 3 and 4 as shown on the THP Map.

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L.Susan

COAST AREA OFFICE
RESOURCE MANAGEMENT

CCR 913.6 (3)&(4) Compare and Contrast Proposed Harvest with Standard Silvicultural Methods

Based on the low intensity of the proposed harvest the extent to which advanced regeneration is present the proposed alternative prescription most closely meets the standard definition of a seed tree removal harvest. The proposed harvest is not being submitted as a seed tree removal harvest for the following reasons:

- 1) Trees from all size classes will be retained in the timber stand to maintain site occupancy and to provide a significant degree of diversity in the next timber stand to occupy this site.
- 2) Small areas of advanced regeneration aged approximately 40 years were marked on a thinning basis. These clumps are widely distributed and are generally less than 1/4 acre in size and too small to map individually. Since it is impractical to map these small microsites they were co-mingled with the larger unit.

An explanation of how the proposed alternative prescription will differ from the most nearly feasible method (seed tree removal) in terms of securing regeneration; protection of the soil, water quality, wildlife and disease protection is as follows:

a) Regeneration

The proposed alternative will result in substantial quantities of pole and sawlog sized timber remaining on the site. If this were a standard seed tree removal harvest then the entire existing overstory would be harvested with only young conifer regeneration remaining.

b) Soil

The proposed alternative prescription will provide soil protection equal to or greater than that associated with a standard seed tree removal harvest on this site. A similar quantity of timber will be harvested and additional disturbance is not likely to occur. Additionally, thinning of overcrowded regeneration at this time will have a beneficial effect of delaying the next entry into this stand.

c) Water Quality

The proposed alternative prescription will provide water quality protection equal to or greater than that associated with a standard seed tree removal harvest on this site. A similar quantity of timber will be harvested and additional disturbance is not likely to occur. Additionally, thinning of overcrowded regeneration at this time will have a beneficial effect of delaying the next entry into this stand.

d) Wildlife

The proposed alternative prescription will provide more vertical structure and maintain more vegetative variability than would occur if a seed tree removal harvest were made on this site. Some trees greater than 24" X 80' will be retained to provide an additional degree of stand diversity. A standard seed tree removal harvest on this site would result in the harvesting of the entire stand.

e) Disease Protection

The proposed alternative prescription will provide equal protection from disease when compared with a standard seed tree removal harvest on this site. In each case susceptible low vigor trees would be harvested. Some green culls will be maintained on the site for wildlife purposes.

CCR 913.6 (b)(5) Post Harvest Timber Stand Conditions

The stand will be stocked at the completion of operations. Where micro-sites are thinned, the basal area standards for commercial thinning will be met. Residual conifer basal area will be highly variable with an overall average estimated to be approximately 37 square feet of basal area per acre in trees over 10 inches in DBH. It is estimated that harvesting as proposed will reduce tanoak presence on this site to approximately 34 Sq.Ft./Ac. of basal area in trees over 10 inches in diameter at DBH. Stocking requirements are expected to be met by point count with the Douglas-fir and redwood at 300 points/ac. on site 3 lands and 150 points/ac. on site 4 lands as shown on the THP Map.

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It is anticipated that future stand management will be uneven aged in nature.

Method of Determination to be used in Harvesting

Trees to be harvested have been marked by the RPF. Timber marking was done based on tree spacing, tree size, crown class, tree vigor and landowner economic constraints. A sample mark of approximately 95% has been made prior to the PHI to facilitate agency review.

Timber will be marked for harvest on the basis of overall stand improvement. Diseased, damaged and defective trees will be removed. Other trees will be selected for harvest based on their live crown ratio and overall crown position. Douglas-fir will be the favored species for retention but it is anticipated that all species present in the stand will continue to be a long-term stand component. Individual tree spacing and stand damage from harvesting will also be considerations in the tree marking prescription.

Site preparation in excess of normal harvest activity is not proposed in this THP.

Selection

Approximately 23 acres of young (30 yr. to 70 yr. old) timber and residual timber from previous harvests has been marked on a selection basis. Timberland within the 23 acre area designated for selection harvest is classified as site class III timberland based upon field review. The residual stand in the selection area will exceed 75 Sq.Ft./Ac. of basal area and meet the seed tree leave requirements of Title 14CCR913.1(c)(1)(A). This area was marked on a selection basis as well as the removal of dominant overstory trees with an emphasis on individual tree form and spacing to promote greater forest health and the growth of high quality timber. The location of the areas designated as selection harvesting is shown on the THP Map.

Rehabilitation

An area totaling approximately 3 acres is currently under stocked when considering solely Group A species and has been designated as rehabilitation.

The regeneration plan for this area is as follows:

a) Site preparation measures will be limited to disturbance associated with normal harvesting activity. Broadcast burning is not considered beneficial or practical on this site and the ground is too steep for mechanical site preparation techniques.

b) Regeneration will be accomplished by planting redwood and Douglas-fir seedlings. Planting will be performed the first winter following the completion of operations.

Hardwood competition will be the primary problem associated with conifer seedling survival and growth on this site. Hardwood competition in the rehabilitation unit will be addressed by harvesting tanoak over 6" DBH which is within 18 feet of the stump of any conifer cut within the rehabilitation area.

This THP will achieve {MSP} by meeting the requirements of Title 14 CCR 913.11{c}.

Additional information concerning THP Items 21b and 21c:

Several existing skid trails located on slopes over 50% in high E.H.R. areas have been flagged for use. One skid trail is proposed for use on slopes over 65% as shown on the THP Map. Each of these trails has been flagged on the ground by the RPF. No new skid trail construction will occur on 65% + slopes, on slopes over 50% in high E.H.R. areas or on slopes over 50% which lead without flattening to a watercourse. In other areas, timber located on isolated steep slopes will be winched up to skid trails located on more moderate ground. Tractor long lining of timber off short isolated steep slopes minimizes soil disturbance on steeper slopes and does not require new road construction.

Cable yarding was considered as an alternative harvest method. Based on the lack of a road system upslope of the proposed harvest area and it would be necessary to build a large amount of new road to provide access for cable yarding. The required new road would cross steep slopes and intersect numerous watercourses. It is my opinion that cable yarding on this site is not a less damaging feasible alternative based on the amount and type of new road construction, which would be required for cable yarding this unit. Harvesting as proposed will allow for the removal of timber without significant risk to the environment based on the following factors:

- 1) The skidding pattern is generally directed away from WLPZ's and harvest activity on steep slopes is not concentrated in the vicinity of the fluvial system. Substantial amounts of long lining will be required to avoid steep slopes and WLPZ's.
- 2) No new skid trails will be built on slopes greater than 65%, no new skid trails will be built on slopes greater than 50% in areas with a high E.H.R., or on slopes over 50% which lead without flattening to a watercourse.
- 3) All skid trails proposed for use in these steep areas are existing and in good condition. I have personally reviewed and flagged these skid trails with yellow "skid trail" ribbon.
- 4) Some benefits will be accrued by properly draining skid roads, which currently have inadequate erosion control structures.

A summary of individual skid trails to be used in conjunction with this harvest which are located on 65%+ slopes is as follows:

Skid Trail T1

This is an existing skid trail on slopes over 65%. The trail is about 100 feet long and **does not** lead without flattening on slopes over 50% to a watercourse.

All other skid trails flagged for use are located on slopes under 65% and slopes which do not decline continuously towards watercourses at greater than a 50% slope.

Additional information concerning Title 14 CCR 914.2(f) :

The primary skidding pattern to be utilized in this timber harvest has been flagged by the RPF and is as shown on the THP Map. The skidding pattern was laid out to use existing skid trails to the maximum extent possible while avoiding skid trails, which concentrate activity in the proximity of watercourses. Temporary skid crossings are minimized. The proposed timber harvest is consistent with the requirements of Title 14 CCR 914.2(f)(2) in that all skid trails to be used where slopes average over 50% have been flagged on the ground and mapped by the RPF.

Additional information concerning Items 24d, 27a and 27f : Situation #1

Standard Rule

CCR 916.3(c) specifies that "The timber operator shall not construct or reconstruct roads, construct or use tractor roads or landings in Class I, II, III or IV watercourses, in the WLPZ, marshes, wet meadows, and other wet areas unless when explained and justified in the THP by the RPF, and approved by the director,..."

Description of proposed practice

It is proposed to reconstruct an existing road, which is located within a Class I, WLPZ. The road is located within the WLPZ for a distance of approximately 300 +/- feet.

How the proposed practice differs from the standard practice

The proposed practice would allow for the reconstruction and continued use of this road even though a portion of this road requiring reconstruction would be located within a class I WLPZ. The standard rule would prohibit reconstruction of this road segment within the WLPZ.

The specific locations where the proposed rule will apply

The proposed road reconstruction is located at THP map point W1.

Explanation and justification of proposed practices

The proximity of the existing road system, steep slopes above the WLPZ, and the location of watercourses caused me to propose reconstruction of this road segment as the least damaging feasible route for establishing access to the harvest area. I have been over this area repeatedly and I believe the proposed route is the best route because soil disturbance is minimized and takes advantage of the existing road network and available landing space. Use of this route is justified because it is an integral part of the least damaging feasible harvest system for timber resources located in this area and because the proposed activity can be conducted without significant risk to environmental resources. Within the WLPZ, this route will be seeded and mulched at the completion of operations as specified in item 18 of this THP. Alternative harvest methods would require extensive new road and landing construction on steep slopes in this area.

Additional information concerning Item 24d, 27a and 27f : Situation #2

Standard Rule

CCR 916.3(c) specifies that "The timber operator shall not construct or reconstruct roads, construct or use tractor roads or landings in Class I, II, III or IV watercourses, in the WLPZ, marshes, wet meadows, and other wet areas unless when explained and justified in the THP by the RPF, and approved by the director,..."

Description of proposed practice

It is proposed to reconstruct an existing road, which is located within a Class I, WLPZ. The road is located within the WLPZ for a distance of approximately 200 +/- feet.

How the proposed practice differs from the standard practice

The proposed practice would allow for the reconstruction and continued use of this road even though a portion of this road requiring reconstruction would be located within a class I WLPZ. The standard rule would prohibit reconstruction of this road segment within the WLPZ.

The specific locations where the proposed rule will apply

The proposed road reconstruction is located at THP map point W2.

Explanation and justification of proposed practices

The proximity of the existing road system, steep slopes above the WLPZ, and the location of watercourses caused me to propose reconstruction of this road segment as the least damaging feasible route for establishing access to the harvest area. I have been over this area repeatedly and I believe the proposed route is the best route because soil disturbance is minimized and takes advantage of the existing road network and available landing space. Use of this route is justified because it is an integral part of the least damaging feasible harvest system for timber resources located in this area and because the proposed activity can be conducted without significant risk to environmental resources. Within the WLPZ, this route will be seeded and mulched at the completion of operations as specified in item 18 of this THP. Alternative harvest methods would require extensive new road and landing construction on steep slopes in this area.

Additional Information Concerning THP Item 32.

The WHR "Wildlife Habitat Relationship System" indicates the possible presence of the following species, which are listed as, threatened or endangered:

a) Northern Spotted Owl (*Strix occidentalis caurina*)

Please see Appendix A for additional information concerning the Northern Spotted Owl.

b) Bald Eagle (*Haliaeetus leucocephalus*) is federally listed as an "endangered species". The Mendocino coast is listed as a winter range for the Bald Eagle in the WHR system. It states that for feeding, this species requires large bodies of water or free flowing rivers where fish are abundant and hunting perches are available. This habitat type is not present in the plan area.

c) Peregrine Falcon (*Falco peregrinus*) is federally listed as an "endangered species". All of Mendocino County is listed as both summer and winter range for this species. Protective cliffs or ledges and water are usually the necessary elements for breeding and cover. The habitat type as described above is not present within the plan area.

d) Marbled Murrelet (*Brachyramphus marmoratus*) is a listed species. No dense stands of large old growth timber are associated with the plan area.

e) Riparian Brush Rabbit, (*Sylvilagus bachmani riparius*) is a State listed species. Harvest restrictions in riparian zones will minimize potential impacts to this species. Increases in available forage after harvesting may turn marginal habitat for this species into suitable habitat.

The NDDDB was queried for information concerning rare species potentially within the plan area. The NDDDB listed occurrences of the following species on the Gube Mountain and Ormbaun Valley quadrangles:

Northern Spotted Owl Federal Threatened

A qualified DFG biologist has reviewed our plan and determined that the proposed harvest is consistent with regulations concerning the protection of the northern spotted owl. Please see additional confidential addendum concerning the northern spotted owl.

Northern Goshawk Federal Category 2

Habitat: In summer, within and in the vicinity of coniferous forests. Usually nests on north slopes near water. Red fir, lodgepole pine, Jeffery pine and aspens are typical nest trees per the NDDDB. There are no known sightings of this species on the Galbreath Ranch. The occurrence indicated on the NDDDB is for a nest site in the Mailliard Redwoods State Reserve.

A California Department of Fish and Game Memorandum dated 4/9/90 and titled "*Lists of and reference to State and Federal Rare, Threatened and /or Endangered Animals and Plants in Sonoma and or Mendocino Counties*" was also used to determine the possible presence of threatened or endangered species within the plan area. Appendix "B" of that memorandum lists threatened or endangered plant species, which could be found in Mendocino County. Required habitat descriptions found in this paper are generally absent in the plan area. During the course of the preparation of this THP an informal wildlife survey was conducted by the RPF. No species listed as rare, threatened and/or endangered by the State or Federal governments were observed in the plan area.

The plan area is within the range of the Central California coast coho salmon evolutionarily significant unit, which is a federally defined population, which is listed as threatened under the ESA. Coho salmon and coho salmon habitat may be present adjacent to the proposed harvest area in Yale Creek. Possible impacts from the proposed harvesting operation include, stream channel morphology changes as a result of increased

sediment loads, increased stream temperatures resulting from reduced shade canopy and toxic inputs to the fluvial system which could adversely affect salmonid habitats or their populations. Adverse impacts as described above are not likely because mitigations incorporated in the proposed THP and current regulations governing timber harvesting include restrictions on shade canopy reduction and prohibit significant inputs of sediment or other contaminants into the fluvial system. Current and future LWD supplies associated with salmonid habitats will be maintained due to WLPZ harvest restrictions. Based on the location of the proposed harvest area and the maintenance of timber along watercourses the plan as proposed will not reduce current or future LWD supplies associated with salmonid habitats. It is anticipated that water will be drafted from watercourses for the purpose of dust abatement. Water drafting associated with the proposed harvest will be minimal in nature and will not substantially reduce, divert or obstruct natural flow.

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TIMBER HARVEST PLAN SECTION 4
STATE OF CALIFORNIA
BOARD OF FORESTRY
CUMULATIVE IMPACTS ASSESSMENTS

- (1) Do the assessment area(s) of resources that may be affected by the proposed project contain any past, present, or reasonably foreseeable probable, future projects?

Yes X No

If the answer is yes, identify the project(s) and affected resource subject(s).
(please see addendum)

- (2) Are there any continuing, significant adverse impacts from past land use activities that may add to the impacts of the proposed project?

Yes No X

If the answer is yes, identify the activities and affected resource subject(s).

- (3) Will the proposed project, as presented, in combination with past, present, and reasonably foreseeable, probable, future projects identified in items (1) and (2) above, have a reasonable potential to cause or add to significant cumulative impacts in any of the following resource subjects?

	<u>Yes after mitigation(a)</u>	<u>No after mitigation (b)</u>	<u>No reasonably potential significant effects (c)</u>
1. Watershed	<u> </u>	<u>X</u>	<u> </u>
2. Soil Productivity	<u> </u>	<u>X</u>	<u> </u>
3. Biological	<u> </u>	<u>X</u>	<u> </u>
4. Recreational	<u> </u>	<u> </u>	<u>X</u>
5. Visual	<u> </u>	<u> </u>	<u>X</u>
6. Traffic	<u> </u>	<u> </u>	<u>X</u>
7. Other	<u> </u>	<u> </u>	<u> </u>

- a) Yes, means that potential significant adverse impacts are left after application of the forest practice rules and mitigation or alternatives proposed by the plan submitter.

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- b) No after mitigation means that any potential for the proposed timber operation to cause significant adverse impacts has been substantially reduced or avoided by mitigation measures or alternatives proposed in the THP and application of the forest practice rules.
- c) No reasonably potential significant effects means that operations proposed under the THP do not have a reasonable potential to join with the impacts of any other project to cause cumulative impacts.
- (4) If column (a) is checked in (3) above describe why the expected impacts cannot be feasibly mitigated or avoided and what mitigation measures or alternatives were considered to reach these determination impacts. If column (b) is checked in (3) above describe what mitigation measures have been selected which will substantially reduce or avoid reasonably potential significant cumulative impacts except for those mitigation measures or alternatives mandated by application of the rules of the Board of Forestry.
- (5) Provide a brief description of the assessment area used for each resource subject.
(please see addendum)
- (6) List and briefly describe the individuals, organizations, and records consulted in the assessment of cumulative impacts for each resource subject. Records of the information used in the assessment shall be provided to the Director upon request.

(please see addendum)

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I. CUMULATIVE WATERSHED EFFECTS ASSESSMENT

The following procedure may be used to assess current, overall watershed conditions and potential for future CWE problems that may result from proposed timber operations.

A. Beneficial Uses

List the on site and downstream beneficial uses of water that you are aware of and that could be affected by project activities.

(please see addendum)

B. Watershed Assessment Area

Describe the watershed assessment area, including the reasons for selected boundaries.

(please see addendum)

C. Current Stream Channel Conditions

1. Is there one or more order 2 or larger stream that (1) flows through or adjacent to the project area, (2) will receive runoff from areas disturbed by project activities, and (3) has a contributing watershed area of more than 300 acres upstream from the point where the stream flows out of the project area?

Yes X or No _____.

If the answer to this question is "yes", continue to question 2. If the answer is "no", skip to question 3.

2. Using a copy of attached Table 1., describe the condition of the order 2 or larger stream channels, or apparently different segments of these channels, that lie within the project boundary and are downstream of the point where the contributing watershed area of the stream is less than 300 acres.

(Enter stream channel or segment identification letters or numbers at the top of the form, identify the CDF water class and the stream order number in the next row, then assign ratings of none, slight, moderate, or severe to each of the listed channel conditions. The location of identified channels and channel segments should be shown on an attached watershed map. Attach additional rating pages and explanatory notes as needed.)

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TABLE 1. CHANNEL INVENTORY FORM

Channel or Segment No.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	N- none Sl- slight M- moderate Sv- severe
- Class/Order	<u>1/</u>	<u>1/</u>	—	—	
- Gravel embeddedness	<u>N</u>	<u>Sl</u>	—	—	
- Pool Filling	<u>Sl</u>	<u>Sl</u>	—	—	
- Aggrading	<u>Sl</u>	<u>N</u>	—	—	
- Bank Cutting	<u>Sl</u>	<u>Sv</u>	—	—	
- Bank Mass Wasting	<u>N</u>	<u>N</u>	—	—	
- Down cutting	<u>N</u>	<u>N</u>	—	—	
- Scouring	<u>N</u>	<u>N</u>	—	—	
- Debris Clearing	<u>N</u>	<u>N</u>	—	—	
- Debris Jamming	<u>N</u>	<u>N</u>	—	—	
- Canopy Reduction	<u>N</u>	<u>M</u>	—	—	
- Recent Flooding	<u>N</u>	<u>N</u>	—	—	

Comments:

Channel Segment #1 This stream channel segment has a slightly steeper gradient than stream channel survey segment #2. The channel bottom is predominately gravel and cobbles with a higher incidence of boulders and bedrock bottoms than segment #2. LWD is present in moderate amounts. Overall shade canopy is estimated to be in excess of 80% cover. Several small pools within the steeper gradients were observed to contain salmonids.

Channel Segment #2 Stream channel characteristics present in this area are typical of other streams of similar size and gradient which I have observed in this area with the exception of bank cutting which is occurring in this area. In some areas stream banks are near verticle with heights in excess of 10 feet. These high banks are being actively eroded by high winter flows in a number of areas. I observed no evidence in the field to indicate whether this occurance is a natural phenomena or whether past land management activities are associated with this channel condition. Pools are infrequent but are present and have depths in excess of 3 feet. LWD is present in moderate amounts. Overall shade canopy is estimated to be 70% cover. Cover for salmonids is provided by woody debris and undercut banks. Salmonids were observed in this stream segment.

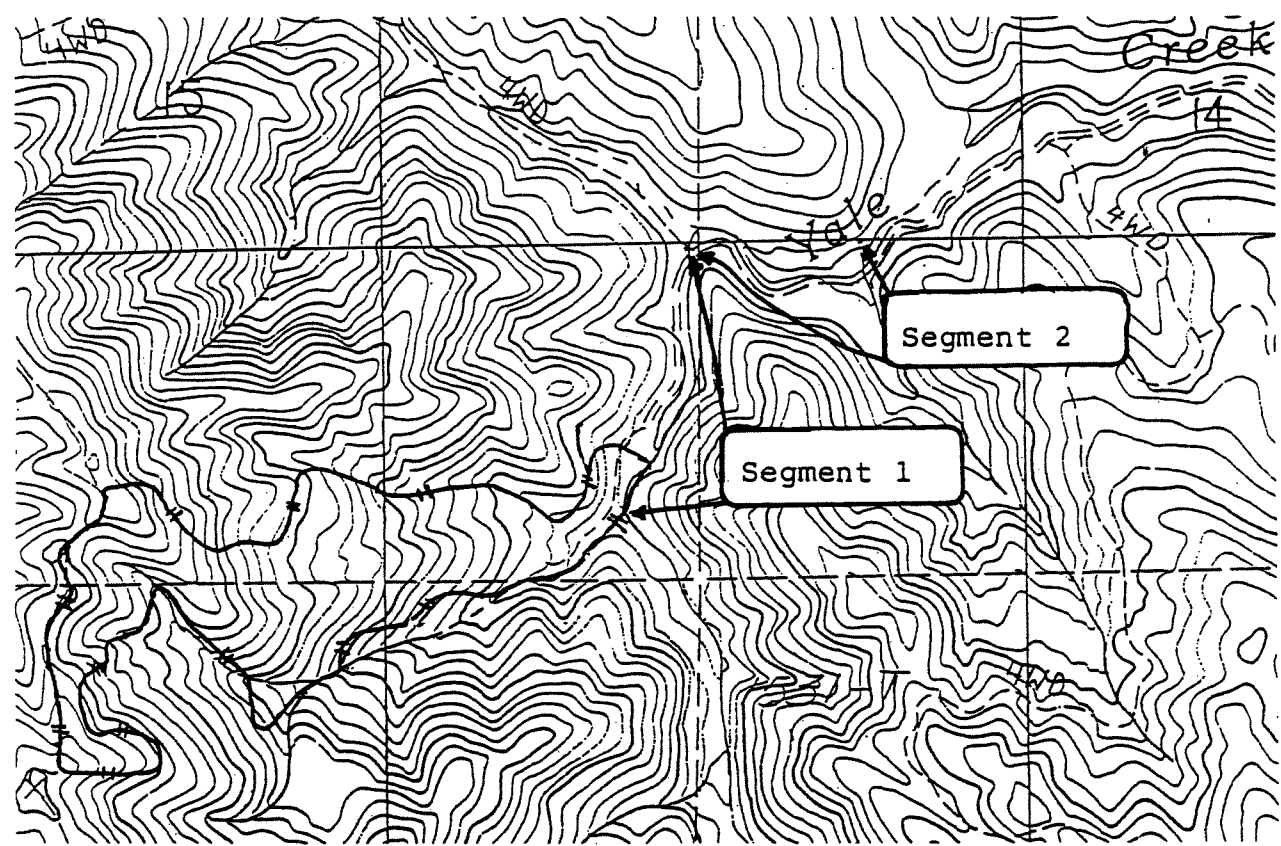
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MAP TO ACCOMPANY TIMBER HARVESTING PLAN

Yale Creek #2
1998

T 12 N

R 13 W



LEGEND
Approximate Plan Area
Stream Channel Survey Segment... Segment #
Map Scale is 1" = 1,000'



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3. Are you aware of any current stream channel conditions, including those listed in previous section C.2, that occur outside of the project boundary, but within the assessment area, that are contributing to a reduction in the beneficial uses of water listed in section A?

Yes ____ or No X

If the answer to this question is "no", skip to question C.4. If the answer is "yes", briefly describe in the space below, and on attached sheets as needed, the channel conditions, their location relative to the project area, and the affected beneficial uses.

Comments: please see addendum

4. Are you aware of any current stream channel conditions, including those listed in previous section C.2, that occur outside of the assessment area and that are contributing to a reduction in the beneficial uses of water listed in section A?

Yes ____ or No X

If the answer to this question is "no", skip to Section D. If the answer is "yes", briefly describe in the space below, and on attached sheets as needed, the channel conditions, their location relative to the project area, and the affected beneficial uses.

Comments: please see addendum

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D. Past Projects

Based on your review for this assessment and knowledge of watershed conditions on and off the proposed project area; have past projects in the watersheds of channels within the assessment area resulted in any of the following impacts? (Yes or No)

1. Increased sediment inputs that embedded gravels, filled pools, or caused channel aggradation within some portion of the stream system? (Y) N
2. Increased channel downcutting or bank erosion as a result of increased flows, sediment transport, or other channel modifications? (Y) N
3. Increased water temperatures resulting from canopy removals along stream channels? (Y) N
4. Inputs of unstable organic debris to streams or lakes? (Y) N
5. Removal of large organic debris leading to loss of pool habitat? (Y) N
6. Chemical inputs to streams or lakes? Y (N)
7. Other (describe)? Y N

Please refer to Item H: Impacts Evaluation

E. Potential On-Site Effects

Based on current conditions and your knowledge of the impacts of similar past projects, what is the potential of the proposed project, as described and mitigated, to produce the following individual effects?

(High, Moderate, or Low)

1. Increased stream or lake sediment from:
 - a. Channel or bank erosion. H M (L)
 - b. Streamside or inner gorge mass wasting that could directly enter a stream channel. H M (L)
 - c. Debris flows or torrents that could move directly into the stream system from sideslopes, swales, small channels, roads, landings, or skid trails. H M (L)
 - d. Debris flows or torrents caused by debris jams. H M (L)

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- | | |
|---|---------|
| e. Sideslopes <u>mass wasting</u> that directs surface runoff into gullies, swales, or small channels connected to the stream system. | H M (L) |
| f. Sheet, rill, or gully erosion that could be discharged into the stream system from roads, landings, or skid trails (include all disturbed areas from the top of the cut to the bottom of the fill. | H (M) L |
| g. Sheet, rill, or gully erosion from harvested or site preparation areas that could enter the stream system. | H M (L) |
| 2. Openings created by project activities along stream channels that could result in substantially increased stream temperature. | H M (L) |
| 3. Increased amounts of small organic debris in streams or lakes as a result of project activities. | H M (L) |
| 4. Movement of roadway chemicals, machinery fuels, pesticides, nutrients released by burning, or other chemicals into streams or lakes as a result of project activities. | H M (L) |
| 5. Increased peak flows as a result of vegetation removal, snow accumulation in new openings, or more efficient runoff routing created by project activities. | H M (L) |
| 6. Inputs of large organic debris in streams or lakes as a result of project activities. | H M (L) |
| 7. Extraction of large organic debris from streams or lakes as a result of project activities. | H M (L) |
| 8. Loss of future large organic debris as a result of streamside timber harvesting. | H M (L) |
| 9. Other factors (list) _____ | H M L |

If all of the Part E factors have been rated "low", go to Part H and check the line labeled "No (after mitigation)" or "No (no reasonably potential significant effects)" as appropriate. In this case, project impacts are non-existent or so slight that they cannot significantly contribute to downstream cumulative effects.

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F. Future Projects

Based on your review of current watershed conditions, the effects of past projects, and accounting for currently proposed mitigation measures - Are the identified future projects likely to result in (Yes or No?)

1. Increased sediment inputs that will fill pools, embed stream gravels, or cause channel aggradation in some portion of the stream system? Y (N)
2. Increased channel downcutting or bank erosion from increased flows, sediment transport, or other stream modifications? Y (N)
3. Additional openings along stream channels that could result in unacceptable increases in water temperatures. Y (N)
4. New inputs of organic debris to streams or lakes? Y (N)
5. Extraction of large organic debris from streams or lakes? Y (N)
6. Chemical inputs to streams or lakes? Y (N)
7. Other factors (list) _____ Y N

G. Interactions

Considering the combined impacts of:

- Beneficial uses of water described in Part A,
- Current stream channel conditions from Part C,
- Effects of past projects listed in Part D, and
- Expected on-site effects of the proposed project from Part E;

What is the potential for developing adverse cumulative watershed effects in the assessment area, as described in Part B, as a result of:

1. The proposed project combined with the ongoing effects of past projects, but without the expected impacts of future projects? H M (L)
2. The proposed project combined with the effects of past projects and the expected impacts of future projects listed in Part F? H M (L)

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If the answer to both questions 1 and 2 is "low", go to Part H and check the line labeled "No (after mitigation)" or "No (no reasonably potential significant effects)" as appropriate.

If the answer to either or both questions 1 and 2 above is "high", go to part H and check the line labeled "Yes (after mitigation)". Otherwise (if questions 1 and 2 above are both rated as "moderate" or as "moderate" and "low"), continue with part H and follow the instructions for impacts evaluation.

H. Impacts Evaluation

Will the proposed project, as presented, in combination with the impacts of past and future projects, as identified in Parts C through F and with the interactions rated in Part G above, have a reasonable potential to cause or add to significant cumulative impacts to watershed resources.

Yes (after mitigation).....

No (after mitigation)..... X

No (no reasonable potential significant effects)

If your answer to the above question is "no" and either or both of the questions in Part G are rated as medium, describe your reasons for reaching this conclusion.

This section may also be used to describe situations in which the proposed project, as described and mitigated, will result in positive effects on watershed condition and existing cumulative watershed impacts.

Use separate sheets if necessary.

Please see addendum

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II CUMULATIVE SOIL PRODUCTIVITY IMPACTS ASSESSMENTS

The following procedure may be used to assess the potential for cumulative impacts on soil productivity as a result of the proposed project alone and in combination with past and future timber operations.

A. Soil Productivity Impacts Inventory

Cumulative soil productivity impacts occur when the combined impacts of a sequence of management activities produce a significant reduction in soil productivity. These impacts may occur as part of separate activities on the same project, as residual effects of past projects, and as the likely impacts of future projects.

The assessment area for cumulative soil productivity impacts is limited to the area of the proposed project.

Forest management activities are required to be conducted in a manner that assures "where feasible, the productivity of timberlands is restored, enhanced, and maintained." Therefore, productivity losses resulting from site disturbance in excess of that required by suitable silvicultural and harvesting practices, whether conducted individually or in sequence, must be considered as significant.

Impact significance must also be considered relative to the soil productivity potential of the area in question. Losses that can be considered acceptable on highly productive lands may be unacceptable, or even exceed the productivity potential, of lower site lands. For example, productivity reductions from loss of growing space associated with development of roads and skid trails necessary for timber management on high site lands may be greater than the total unit-area productivity of a poor site.

B. Soil Productivity Resources Assessment

Site factors to be assessed for cumulative soil productivity impacts include:

1. Organic matter loss.
2. Surface soil loss.
3. Soil compaction.
4. Growing space loss.

The relationship between these site factors and soil productivity is described in Section B of the Appendix to Technical Rule Addendum No. 2.

The potential impact of successive management activities must be assessed for each of these factors individually and in combination, and the overall impact should be classed as significant when:

- o The area disturbed by proposed timber operations will exceed that required by the silvicultural and harvest systems approved for use under proposed THP, including unnecessary duplication of existing skid trails, roads, landings, yarding disturbance and mechanical site preparation.
- o The amount of organic matter loss and soil displacement with use of the proposed silvicultural and harvesting systems will substantially exceed that of other feasible systems.

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- o The amount of compaction and puddling with use of the proposed silvicultural and harvesting systems will substantially exceed that of other, feasible systems, under the soil moisture conditions expected at the time of proposed operations.
- o The combined loss of soil productivity from less of growing space, organic matter loss, soil displacement, and soil compaction from the proposed operations will substantially exceed that of other feasible combinations of silvicultural and harvesting systems.

C. Impacts evaluation

Will the proposed project, as presented, alone or in combination with the impacts of past and future projects have a reasonable potential to cause or add to significant, cumulative soil productivity impacts as a result of:

	<u>Yes after mitigation</u>	<u>No after mitigation</u>	<u>No reasonably potential significant impacts</u>
1. Organic matter loss	_____	<u>X</u>	_____
2. <u>Surface soil loss</u>	_____	<u>X</u>	_____
3. Soil compaction	_____	<u>X</u>	_____
4. Growing space loss	_____	<u>X</u>	_____
5. Any combination of items 1 through 4	_____	<u>X</u>	_____

III. CUMULATIVE BIOLOGICAL RESOURCE IMPACTS ASSESSMENT

The following assessment is for terrestrial biological resources. Aquatic biological resources are addressed under the "Cumulative Watershed Impacts Assessment" in Section I.

A. Biological Resource Inventory

The biological assessment area will vary with the species being evaluated and its habitat requirements. In addition, more than one species may be evaluated and the assessment area may be different for each species. To address cumulative biological impacts:

1. Identify any of the following categories of species known or suspected to occur on the assessment area(s) for the proposed timber operations:
 - o rare, threatened, or endangered.
 - o species of special concern (as defined in the Forest Practice Rules
 - o sensitive species.

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2. Identify any other wildlife or fisheries resource concerns known or suspected to occur within the assessment area(s) of the proposed timber operations.
3. Describe the biological assessment area(s), including the reasons for boundary selection.
4. Describe the pre-project condition of the biological resources inventoried within the assessment area(s). Lastly, describe the anticipated post-project condition of these biological resources after the completion of the proposed project.

B. Habitat Condition

Describe the pre-project condition of the following terrestrial habitat components within the project area and assessment area(s). Lastly, rate the anticipated post-project condition of these habitat components after completion of the proposed project.

Habitat Components	Pre-Project		Post-Project
	On-Site	Off-Site	On-Site
1. Presence of snags/dens/nest trees	H M <u>L</u> N	H M <u>L</u> N	H M <u>L</u> N
2. Amount of downed large woody debris.....	H <u>M</u> L N	H <u>M</u> L N	H <u>M</u> L N
3. Presence of multistory canopy.....	H <u>M</u> L N	H <u>M</u> L N	H M <u>L</u> N
4. Road density.....	<u>H</u> M L N	<u>H</u> M L N	<u>H</u> M L N
5. Presence of hardwoods	<u>H</u> M L N	<u>H</u> M L N	<u>H</u> M L N
6. Presence of late seral forest characteristics	H M L <u>N</u>	H M L <u>N</u>	H M L <u>N</u>
7. Continuity of late seral stage forest.....	H M L <u>N</u>	H M L <u>N</u>	H M L <u>N</u>

C. Presence of Significant Wildlife Areas

Are any of the following significant wildlife areas located on-site of your proposed operation and off-site within the assessment area(s)?

	On-Site	Off-Site
1. Deer fawning areas	<u>Y</u> N	<u>Y</u> N
2. Deer migration corridors	Y <u>N</u>	Y <u>N</u>
3. Deer winter range	<u>Y</u> N	<u>Y</u> N
4. Deer summer range	<u>Y</u> N	<u>Y</u> N
5. Wetlands	Y <u>N</u>	Y <u>N</u>
6. Riparian areas	<u>Y</u> N	<u>Y</u> N
7. Other	Y N	Y N

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Will your operation significantly effect the use of these areas by wildlife? ___ Yes X No

D. Other Projects

Identify and discuss the effects of the following projects within the assessment area(s) that might interact with the effects of the proposed timber operation:

1. Past and future projects in the biological assessment area(s) under the ownership or control of the timber/timberland owner that did or could cause a significant impact on biological resources.
2. Past and future projects planned or expected in the biological assessment area(s) not under the control of the timber/timberland owner that did or could cause a significant impact on biological resources.

E. Interactions

Considering the interactions between

- o the biological resources of the assessment area (Parts A and C).
- o current habitat condition on-site and off-site (Part B).
- o the ongoing effects of past projects (Part D).
- o the effects of future projects (Part D).

What is the potential for developing significant cumulative effects on the biological resources of the assessment area(s) as a result of:

1. the proposed project combined with the effects of past projects without the impacts of future projects?

H M (L)

2. the proposed project combined with the effects of past projects and the expected impacts of future projects listed in Part D?

H M (L)

If the answer to both questions 1. and 2., above, is "low" go to Part F and check the line labeled "NO".

If the answer to either or both questions 1. and 2., above, is "high" go to Part F and check the line labeled "Yes".

Otherwise, if questions 1. and 2., above, are both rated as "moderate" or as "moderate" and "low" continue with Part F and follow the instructions for impacts evaluation.

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F. Impacts Evaluation

Based on the information gathered by the RPF, the contents of the THP, the forest practice rules, information from the review of other plans, the magnitude of impacts identified in parts A through D, and the interactions rated in Part E, is the proposed project likely to produce significant adverse cumulative effects to the biological resources within the assessment area(s)?

Yes No X

If the answer is "yes", consider feasible alternatives to the proposed project and/or mitigation actions to avoid, minimize, reduce, or compensate significant adverse cumulative impacts to biological resources. These mitigation actions are additional to those in the forest practice rules. If your answer is "yes" proceed to question 1. and/or 2., below. If the answer is "no" proceed to question 3., below.

Will the proposed project, as presented, in combination with the impacts of past and future projects as identified in Parts A through D, the interactions rated in Part E, and considering feasible alternatives and mitigation actions, have a reasonable potential to cause or add to significant cumulative impacts to biological resources within the assessment area(s)?

1. Yes (after mitigation).....
2. No (after mitigation)..... X
3. No (no reasonably potential significant effects).....

If you answered question 1., above, describe any alternatives to the project that were considered and explain why they were infeasible or rejected. Also include a similar discussion of mitigations accepted, rejected, and/or infeasible.

If you answered question 2. and/or 3., above, and either or both of the questions in Part E are listed as "moderate" describe your reasons for reaching the conclusion. Use separate sheets as necessary.

IV. CUMULATIVE RECREATION RESOURCES IMPACTS ASSESSMENT

A. Recreational Resources Inventory

The recreational assessment area is generally the area that includes the logging area plus 300 feet.

To assess recreational cumulative impacts: Identify the recreational activities involving significant numbers of people in and within 300 feet of logging area (examples: fishing, hunting, hiking, picnicking, camping).

Identify any recreational Special Treatment Areas described in the Board of Forestry rules on the plan area or contiguous to the area.

If a public use of the area is identified, continue to Part B.

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B. Change in Recreational Resources.

Discuss whether the timber operation will significantly alter the recreational opportunities on the logging area or within 300 feet of the logging area. (please see addendum)

C. Other Projects.

Information on other projects in the assessment area that might interact with the effects of the proposed timber operation need to be identified and discussed. Discuss the following:

1. Any past or future projects in the recreational assessment area that are under the ownership or control of the timber/timberland owner that will impact recreational opportunities used by the public identified in Part A, above.
2. Any known future projects planned or expected in the area for assessment of recreational impacts that are not under the control of the timber/timberland owner that will impact recreational opportunities used by the public identified in Part A, above.

D. Impacts Evaluation

Will the proposed project, as presented, in combination with the impacts of past and future projects, as identified in Parts A through C above, have a reasonable potential to cause or add to significant cumulative impacts to recreation resources?

- Yes (after mitigation).....
- No (after mitigation).....
- No (no reasonable potential significant effects)..... X

V. CUMULATIVE VISUAL RESOURCE IMPACTS ASSESSMENT

A. Visual Resource Inventory

The visual assessment area is generally the logging area that is readily visible to significant numbers of people who are no further than three miles from the timber operation.

To assess visual cumulative effects:
(please see addendum for additional information)

1. Identify any Special Treatment Areas designated as such by the Board of Forestry because of their visual values on or near the plan area?
2. Determine how far the proposed timber operation is from the nearest point that significant numbers of people can view the timber operation. At distances of greater than 3 miles from viewing points activities are not easily discernible and will be less significant.

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3. Identify the manner in which the public identified in a and b above will view the proposed timber operation (from a vehicle on a public road, from a stationary public viewing point or from a pedestrian pathway).

If the information in item a or b above identifies a significant visual resource, continue with section 2 below.

B. Change in Visual Resource.

Discuss the probability of the timber operation changing the visual setting viewed by the public as a result of vegetation removal, creation of slash and debris, or soil exposure.
(please see addendum)

C. Other Projects

Information on other projects in the assessment area that might interact with the effects of the proposed timber operation needs to be identified and discussed. Discuss the following:

1. Any past and future projects in the visual assessment area that are under the ownership or control of the timber/timberland owner and that could interact to cause a significant change in any identified visual resource.
2. Known future projects in the visual assessment area that are not under the control of the timber/timberland owner and could interact with any identified visual resources.

D. Impacts Evaluation

Will the proposed project, as presented, in combination with the impacts of past and future projects, as identified in Parts A through C above, have a reasonable potential to cause or add to significant cumulative impacts to visual resources?

Yes (after mitigation).....

No (after mitigation).....

No (no reasonably potential significant effects)..... X

VI. CUMULATIVE VEHICULAR TRAFFIC IMPACTS ASSESSMENT

A. Traffic Resource Inventory

The traffic assessment area involves the first roads not part of the logging area on which logging traffic must travel. To assess traffic cumulative effects:

1. Identify whether any publicly owned roads will be used for the transport of wood products. (If the answer to item a. indicates that public roads will not be used, then no further assessment is needed).

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2. Identify any public roads that have not been used recently for the transport of wood products and will be used to transport wood products from the proposed timber harvest.
3. Identify any public roads proposed for transport of wood products that have existing traffic or maintenance problems.

B. Activity Levels

Discuss how the logging vehicles used in the timber operation will change the amount of traffic on public roads, especially during heavy traffic conditions.

C. Other Projects

Information on other projects in the assessment area that might interact with the effects of the proposed timber operation needs to be identified and discussed. Discuss the following.

1. Other past or future projects on lands under the control of the timber/timberland owner that will add significantly to traffic on public roads during the period these roads are used by logging vehicles from the proposed timber operation.
2. Any known future projects not under the control of the timber/ timberland owner that will impact public road traffic during the period that these roads are used by logging vehicles from the proposed timber operation.

D. Impacts Evaluation

Will the proposed project, as presented, in combination with the impacts of past and future projects, as identified in Parts A through C above have a reasonable potential to cause or add to significant cumulative impacts to vehicular traffic on public roads?

Yes (after mitigation).....

No (after mitigation).....

NO (no reasonable potential significant effects)..... X

Additional Information Concerning Cumulative Effects Analysis

Cumulative Watershed Effects

A. Beneficial uses of onsite and downstream water

Beneficial uses of water on site and adjacent to the plan area are aquatic habitat and watershed production values. Known beneficial uses of water within the assessment area are aquatic and salmonid fisheries habitat. The proposed plan area is located in the Yale Creek Drainage, which is a tributary to Rancheria Creek, which in turn is a tributary to the Navarro River. The Water Quality Control Plan for the North Coast Region (1) lists the following beneficial uses of water for the Navarro river: agricultural and industrial water supply, ground water recharge, navigation, recreation, cold fresh water habitat, wildlife habitat, fish migration route and "high quality aquatic habitat especially suitable for fish spawning.

B. Watershed Assessment Area

The proposed harvest area is located within the Yale Creek watershed, which is a contributor to Rancheria Creek. The plan area is located in CDF's planning watershed #113.50012. This area is being utilized for the CWE assessment based on CDF staff recommendation. This watershed unit is approximately 3,909 acres in size.

C. 4. Current Stream Channel Conditions Outside the Assessment Area

The Navarro River is listed by EPA on the Section 304(I)(A)(ii) long list "due to degraded habitat and or direct fisheries impairment" (3). This conclusion is based on an unidentified individuals "best professional judgment" and apparently not on any quantitative or qualitative assessment. The Basin Plan 1) indicates that the Navarro River provides "high quality aquatic habitat especially suitable for fish spawning". Yale Creek and Adam's Creek do not appear on this list.

D. Past Projects and Land Disturbance History

Based on my review of the records kept at the CDF office at Howard Forest there have been 11 THP's located at least partially within the CWE assessment area during the past 10 years. These harvest permits cover an area of approximately 3742 acres. 1194 of these acres are included in a 1998 NTMP and are not likely to be subjected to immediate harvest on the entire area. Harvest methods included tractor, cable and helicopter yarding. A variety of silvicultural methods were used including selection, clear-cut, seed tree methods, shelterwood prep, transition, sanitation salvage and rehabilitation. A list of these THP's and pertinent information concerning their nature is presented below for your review. Most of the timbered portion of this CWE assessment area was harvested during the post World War 2 lumber period and prior to the advent of a modern Forest Practice Act. Impacts associated with this early harvest triggered a positive response to questions concerning past projects under item "D". The area now appears to be generally well vegetated and stabilized.

Prior Harvest History in CWE Assessment Area

THP #	Acres	Harvest Method	Silvicultural Method
1-98NTMP-018	1194	tractor/cable	transition
1-97-328M	104	Tractor	Sel, CC, ST1, ST2
1-97-086	134	Tractor	CC,ST2,ST1
1-95-496M	082	Tractor	Sel., rehab., ST2
1-95-261M	291	Tractor/helicopter	Sel, Rehab, ST1, ST2 sanatation slavage
1-95-082M	102	Tractor	CC, sel., ST2 rehab., sanatation sal.
1-93-319M	373	Tractor	Alt. Prescription

1-92-223M	<i>plan is adjacent but not considered to be within assessment area</i>		
1-89-057M	552*	Tractor	SW3
1-88-703M	410	Tractor	SW1
1-88-201	280	Tractor	SW3
1-88-252	220	Tractor	SW1

* = acreage within assessment area.

** = no substantial operations per completion report

Total acres with harvest permits during the previous ten years = 3742ac.

Note: CC = clear-cut and plant, ST1 = Seed tree seed step, ST2 = Seed tree removal harvest, SW1 = Shelterwood Prep., SW3 = Shelterwood Removal, Sel = selection

F. Future Projects

I am not aware of any additional projects, which are being considered within the CWE assessment area. It is likely that additional timber harvesting will occur in the future within this drainage. Since these unknown future projects will almost certainly be regulated under the California Forest Practice Act, it is probable that they will be conducted in a way, which minimizes environmental disruption.

E. On-Site Effects & H. Impacts Evaluation

The proposed project has been determined to have a low potential for producing adverse watershed effects based on my knowledge of other similar past projects, which have occurred in similar environmental settings. The following factors associated with the proposed timber harvest are key considerations in my determination that the proposed timber harvest will have a low potential to cause adverse watershed effects.

- Heavy equipment within WLPZ's and on steep slopes is strictly limited.
- Skidding patterns have been laid out by the RPF to minimize soil disturbance.
- LTO's use caution when handling fuel and other potential stream contaminants.
- No winter operations are proposed.
- Significant improvements to existing road drainage will be made thereby reducing sediment inputs.

Soil Productivity Impacts

The assessment area for soil productivity impacts, is the proposed harvest area. The assessment area is as defined in the California Department of Forestry Guidelines for Assessment of Cumulative Impacts dated 8/13/91.

Broadcast burning is not proposed in this THP. Required erosion control measures and the exclusion of fire from the area will prevent significant quantities of organic material from being lost. It also appears that the bulk of the assessment area has not been burned for at least 40 years. Surface soil will be protected by using standard erosion control techniques as described in the THP and FPA. The potential for inadvertently creating new erosion problems as a result of the proposed harvest is being minimized by restricting soil disturbing activities in areas which have characteristically high sediment delivery ratios such as, steep slopes, unstable areas and WLPZ's. Productivity losses from soil compaction and growing space loss will be minimized by using existing roads and skid trails where ever possible and minimizing the overall road and skid trail density.

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Terrestrial Biological Resources

The assessment area for terrestrial biological resources is as shown on the attached map. This 3,909 +/- acre area was selected because of its proximity to the plan area and it appears to be typical of the larger surrounding area in terms of vegetative type and past land disturbance history.

The CDF spotted owl database has one Northern Spotted Owl sighting listed as being potentially within 1.3 miles of the THP. Its territory number is MD216. For additional information concerning the spotted owl please see the spotted owl addendum. Additional information concerning wildlife can also be found in the THP addendum.

The assessment area supports substantial numbers of deer. The climate is mild and deer can be observed in this area all year. Therefore it is assumed that deer use the assessment area for fawning, summer and winter range. Riparian areas within and adjacent to the plan area are limited to class 1, class 2 watercourses and springs. Harvest activity is minimized in these areas to protect the water resource.

For the purpose of assessing the presence of "late seral stage forest characteristics" the standard minimum block size of 20 acres was used. 20-acre old growth forest stands with a maximum dispersal of one mile was used for the purpose of ranking "continuity of late seral stage forests".

Based on my review of the records kept at the CDF office at Howard Forest there have been 11 THP's located at least partially within the CWE assessment area during the past 10 years. These harvest permits cover an area of approximately 3742 acres. 1194 of these acres are included in a 1998 NTMP and are not likely to be subjected to immediate harvest on the entire area. Harvest methods included tractor, cable and helicopter yarding. A variety of silvicultural methods were used including selection, clear-cut, seed tree methods, shelterwood prep, transition, sanitation salvage and rehabilitation. A list of these THP's and pertinent information concerning their nature is presented below for your review. Most of the timbered portion of this CWE assessment area was harvested during the post World War 2 lumber period and prior to the advent of a modern Forest Practice Act. Impacts associated with this early harvest triggered a positive response to questions concerning past projects under item "D". The area now appears to be generally well vegetated and stabilized.

Prior Harvest History in Terrestrial Biological Assessment Area

THP #	Acres	Harvest Method	Silvicultural Method
1-98NTMP-018	1194	tractor/cable	transition
1-97-328M	104	Tractor	Sel, CC, ST1, ST2
1-97-086	134	Tractor	CC,ST2,ST1
1-95-496M	082	Tractor	Sel., rehab., ST2
1-95-261M	291	Tractor/helicopter	Sel, Rehab, ST1, ST2
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1-93-319M	373	Tractor	Alt. Prescription
1-92-223M	<i>plan is adjacent but not considered to be within assessment area</i>		
1-89-057M	552*	Tractor	SW3
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1-88-252	220	Tractor	SW1

* = acreage within assessment area.

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** = no substantial operations per completion report

Total acres with harvest permits during the previous ten years = 3742ac.

Note: CC = clear-cut and plant, ST1 = Seed tree seed step, ST2 = Seed tree removal harvest, SW1 = Shelterwood Prep., SW3 = Shelterwood Removal, Sel = selection

I am not aware of any additional projects, which are being considered within the terrestrial biological assessment area. It is likely that additional timber harvesting will occur in the future within this drainage based on ownership patterns and the extent to which timber resources are present in this drainage. Since these unknown future projects will almost certainly be regulated under the California Forest Practice Act, it is probable that they will be conducted in a way, which minimizes environmental disruption.

Recreational Resources

The assessment area is the plan area and the area within three hundred feet of the plan boundary as described in Technical Rule Addendum #2. No Recreational Special Treatment Areas have been designated by the Board of Forestry in or adjacent to the plan area. Within the plan area itself and within 300 feet of the plan area there are no recreational opportunities for the public or "significant numbers of people".

Visual Resources

The plan area was determined to be an appropriate visual effects assessment area since the entire area is subject to changing visual conditions. Since the plan area is not readily visible from any vantage point used by significant numbers of people adverse visual cumulative impacts are not expected to occur.

Vehicular Impacts

The assessment area for vehicular impacts is State Highway 128, State Highway 253 and State Highway 101. This assessment area was selected because it is the most reasonably feasible haul route from the plan area to the apparent destinations. Forest products are routinely hauled over these state routes. State Highway 101, State Highway 128 and State Highway 253 are high standard roads which are used for commercial transportation of all types. It is not likely that this low volume short duration timber operation could cause or contribute to a traffic congestion problem in this rural area.

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*Plan Addition
2/6/99*

List of references consulted during this cumulative effects analysis

- 1) Water Quality Control Plan for the North Coast North Coast Regional Water Quality Control Board; December 09, 1993 and revisions of 03/24/94 and 06/22/95.
- 2) California Department of Forestry and Fire Protection Guidelines for Assessment of Cumulative Impacts; CDF; August 13, 1991.
- 3) Identifying Sensitive Watersheds; Frank Reichmuth; unpublished paper presented to CLFA on 9/5/91.
- 4) Soil Survey Report Mendocino County Western Part; USDA Soil Conservation Service; (Preliminary) 1987.
- 5) Mean Annual Precipitation in the California Region; U.S. Department of the Interior, Geological Survey, Water Resources Division ; 1972.
- 6) USFS, Chapter 20 - "Draft" Cumulative Off-site Watershed Effects Analysis U.S.F.S. Handbook.
- 7) Memorandum From the California Department of Fish and Game dated April 9, 1990. " Subject: Lists of and Reference to State and Federal Rare Threatened and/or Endangered Animals and Plants in Sonoma and/or Mendocino Counties
- 8) Endangered, Threatened and Rare Plants of California ; published by the California Department of Fish and Game; 10/98.
- 9) Endangered and Threatened Animals of California ; published by the California Department of Fish and Game; 10/98
- 10) Northern Spotted Owl Information; Published by California Department of Forestry and Fire Protection; 8/2/90.
- 11) Methods and Materials for Locating and Studying Spotted Owls; Eric Forsman; 1983; Published by U.S. Forest Service (PNW-162)
- 12) CDF Archives for THP Records; Howard Forest CDF Office.
- 13) California Department of Forestry and Fire Protection Guidelines for Assessment of Cumulative Impacts Appendix B; CDF; 8/13/91.
- 14) Mendocino County Resource Inventory ; USDA, SCS : 1987.
- 15) Wac Corporation 1992 Aerial Photographs
- 16) Coho Salmon Considerations for Timber Harvesting Under the CFPA; CDF 04/29/97.

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THP 1-98-415M

~~50~~ 49.1
Revised Page 1/20/99
AND 2/6/99

L. Susan

PLAN ADDENDUM

JAN 07 1999

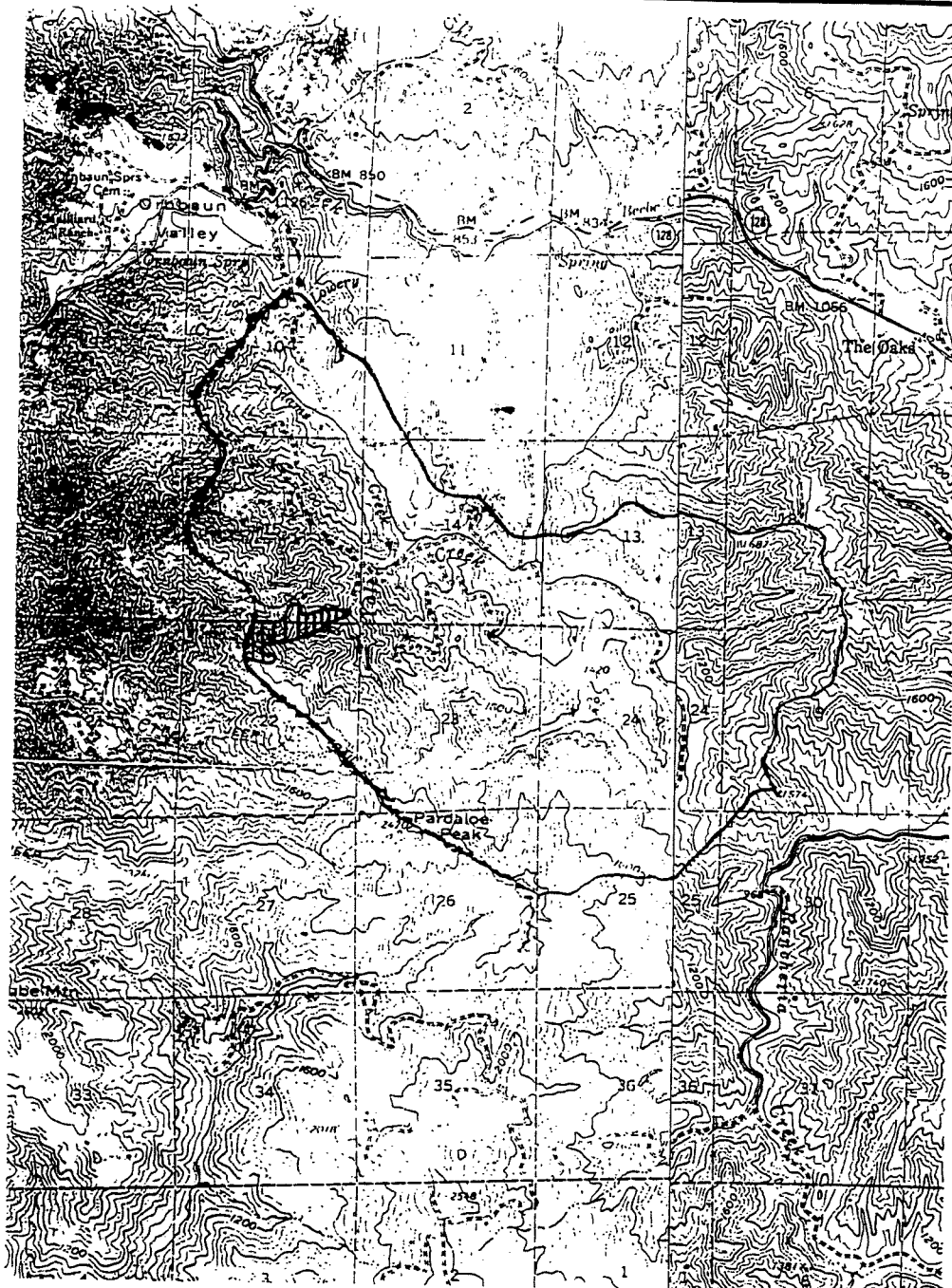
MAP TO ACCOMPANY
TIMBER HARVEST PLAN

Yale Creek #2

1998


T 12 N

R 13 W



LEGEND

CWE and Terrestrial Biological Assessment Area..... ○

Proposed Harvest Area..... 

Map Scale is 1" : 5,208'

North

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TAP 1-98-415 km

Revised 1/7/99

L. SUSAN

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1-7-99

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PLAN ADDENDUM

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TIMBER HARVEST PLAN SECTION 5

Yale Creek #2
1998

PLAN ADDENDUM

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APPENDIX A

ADDITIONAL INFORMATION CONCERNING THE NORTHERN SPOTTED OWL

Yale Creek #2
Timber Harvest Plan
1998

PLAN ADDENDUM

PLAN NAME Bullbreath/Yale Creek 1998NSO ASSIGN # _____ ORIG # NOV 20 1998
THP # _____

Date Referral Received by DFG: _____ Date RPF Notified: _____ Alternative Used: _____

Date Referral Received by CDF: _____ USGS Quad Name Onabrun Valley

Date Referral Received by Designated Biologist: _____ (DB fill in) (17.5" (415"

CALIFORNIA DEPARTMENT OF FISH AND GAME
NORTHERN SPOTTED OWL CONSULTATION CHECKLIST

A1 Plan Submitter Bullbreath
 Consultation Information Submitter Wooten, Susan
 Watershed/Tributaries Yale Creek
 Township T12N Range R13W Sections 15 + 22 + 23 County Merced

A2 Plan Acres/Silviculture 50 acres - 23 sel, 3 sel, 24 alter prescip.
 Document Review Submitted Needed Explanation
 Plan Description ☒ _____
 Planimetric/Topographic Map ☒ _____
 Habitat Map (acres/location) ☒ On/Off Site _____
 Aerial Photos (if available) Source: WAC Series/Date: 1992 # 30-66
 NSO Location Map (1.3 Miles) ☒ Nest/Roost _____
 DataBase (CDF Printout) ☒ Date/Results 10/28/98
 (DFG Territory #) MD216 beyond 1.3 mile
 (submit database printout with referral request and consultation checklist)
 Survey Data Results no response
1/30/97, 2/4/97, 2/28/97, 3/4/97, 10/15/98, 11/6/98, 11/13/98

A3 Field Review
 Review Participants Theodore Wooten
 Adequate Review Route () no () yes Date 11/18/98 Explain + 3/10/97
 Accurate Maps () no () yes Explain _____
 Accurate Habitat Mapping () no () yes Explain _____
 Adequate Surveys () no () yes Explain _____

Habitat Characteristics 2nd growth RW, DF + TO.

PLAN ADDENDUM

NOV 20 1998

AN NAME Balbreath / Gale Creek 1998

NSO ASSIGN #

ORIG #

THP #

Project Evaluation

- B1 NSO's detected within 1.3 miles of operations area? () no () yes Date last detected _____
 NSO's present now? Unknown () yes: () on-site () 500' () 1000' () 0.7mi () 1.3mi
 Will NSO habitat retention standards be met post-harvest? () no () yes Describe post-harvest habitat characteristics to support NSO's: _____

Estimated Habitat Retention Acres (pre/post harvest):

	500'	1000'	0.7mi	1.3mi
Nest	_____	_____	_____	_____
Roost	_____	_____	_____	_____
Forage	_____	_____	_____	_____
Non-Habitat	_____	_____	_____	_____

- B2 Is this consultation for more than one (1) THP? () no () yes

List all known NSO consultations within 1.3 mi of this survey area

THP 1-97-086 MEN (Balbreath 1997), Balbreath/Hart #1, Balbreath #2

- B3 Will the proposed plan significantly disrupt, impair or modify (if YES or UNK, explain in B4):

	NO	N/A	UNK	YES
a. Local Movement (on-site or within 0.5 mi of NSO)	<input checked="" type="checkbox"/>	—	—	—
b. Dispersal Opportunity (within 1 mi of NSO)	<input checked="" type="checkbox"/>	—	—	—
c. Prey Base (within 0.5 mi of NSO)	<input checked="" type="checkbox"/>	—	—	—
d. Foraging Habitat	<input checked="" type="checkbox"/>	—	—	—
e. Roosting Structure	<input checked="" type="checkbox"/>	—	—	—
f. Roosting Behavior	<input checked="" type="checkbox"/>	—	—	—
g. Nesting Structure	<input checked="" type="checkbox"/>	—	—	—
h. Nesting Behavior	<input checked="" type="checkbox"/>	—	—	—
i. Other (predation, exposure, etc.)	<input checked="" type="checkbox"/>	—	—	—

- B4 Comments (evaluate adequacy of information provided, compliance with accepted guidelines, and features specific to this survey area)

2nd growth RW, DF + TO.
at landscape level the area is patches of timber, grasslands,
oak woodlands + brush. area is generally hot + dry in
summer. At landscape level, area has been called
off + on since 1994. No NSO's were found and none were
expected.

(Name of preparer for Parts A & B, if different from designated biologist: _____)

PLAN ADDENDUM

NOV 20 1998

N NAME Salbreath / Yule Creek 1998

NSQ ASSIGN # _____

ORIG # _____

THP # _____

Consultation DeterminationENTRIES ON THIS PAGE CAN BE COMPLETED ONLY BY DESIGNATED BIOLOGIST (cross out inappropriate language and initial above each cross out):

Pursuant to the Protocol for Surveying Proposed Management Activities that may impact Northern Spotted Owls, endorsed and revised by the U.S. Fish and Wildlife Service (USFWS) on March 17, 1992, subsequent revisions to the protocol issued by the USFWS, and other scientific information available to me, I ~~have not~~ ^{have} verified in the field the information submitted and have concluded that:

- C1 The information provided ~~is not~~ ^{is} sufficient to complete my evaluation.
- C2 The surveys provided to me ~~do not~~ ^{do} conform to the Protocol issued and revised by USFWS.
- C3 The information provided to me and the field review of the plan and surrounding area lead me to conclude that:
- C3-1. The plan area ~~is not~~ ^{is} suitable northern spotted owl habitat.
- C3-2. The project area and surrounding habitat ~~has not~~ ^{has} been adequately evaluated for the presence of northern spotted owls.
- C3-3. The potential that undetected northern spotted owls or northern spotted owl territories exist in or near the plan ~~is not likely~~ ^{is} and
- C3-4. The potential for this plan to result in the "unauthorized incidental take" of a northern spotted owl ~~is not likely~~ ^{is}.

A determination that the potential for unauthorized incidental take has been minimized (C3 above) remains valid until the start of the breeding season in the year 1999. For operations to be conducted after the start of the breeding season in that year, surveys must be completed during the breeding season prior to the start of operations and submitted for re-evaluation.

This consultation checklist applies to a plan or proposal that (initial applicable findings):

- C4(☒) Does not need to be revised to minimize unauthorized incidental take.
- C5(☐) Has been revised to minimize unauthorized incidental take, as described in the attached comments.
- C6(☐) Requires revisions in order to minimize unauthorized incidental take, as described in the attached comments.
- C7(☐) For which the consultation checklist cannot be completed until additional information is submitted (Sections 919.10(C), 939.10(C)). The necessary information is described in the attached comments.

This consultation checklist ~~does not~~ ^{does} include additional pages as indicated below:

- C8(☐) Comments describing necessary revisions or information, DFG 728-FORM 3A.5 (number of pages _____).
- C9(☐) Confidential site information, DFG 728-FORM 3B.5 (number of pages _____). (may include Spotted Owl Observation Report Form)

Form Distribution:

Original
Copies

(☒) Designated Biologist
(☒) APF
(☒) CDF (Referral Office)
(☒) DFG (NSQ Consultation Coordinator)

Signature Theodore W Wooster

Designated Biologist

Print Name Theodore W WoosterDate Completed 11/19/98

NORTHERN SPOTTED OWL DATABASE
Recorded Observation Information Request
(One plan only per each request)

PLAN ADDENDUM

NOV 20 1998

TO: California Department of Forestry and Fire Protection
P.O. Box 670
Santa Rosa, CA 95401

Attn: Forest Practice

REQUESTER:

Name: Lee Susan /
Address: 16575 Franklin Road /
Fort Bragg, CA 95437 /

Phone: (707) 964-4566

Location:

Plan Name: Yale Creek #2
County (s): Mendocino

Legal Description of Plan Area

Tnshp 12N , Rng 13W , Sctn (s) 15 , 22 , 23 , _____ , _____ , _____ , _____ , _____ ,
Tnshp _____ , Rng _____ , Sctn (s) _____ , _____ , _____ , _____ , _____ , _____ , _____ ,
Tnshp _____ , Rng _____ , Sctn (s) _____ , _____ , _____ , _____ , _____ , _____ , _____ ,

Legal Description of Sections within 1.5 miles of Plan Area

Tnshp 12N , Rng 13W , Sctn (s) 9 , 10 , 11 , 13 , 14 , 15 , 16 , 21 , 22 ,
Tnshp 12N , Rng 13W , Sctn (s) 23 , 24 , 25 , 26 , 27 , 28 , 34 , 35 ,
Tnshp _____ , Rng _____ , Sctn (s) _____ , _____ , _____ , _____ , _____ , _____ , _____ ,
Tnshp _____ , Rng _____ , Sctn (s) _____ , _____ , _____ , _____ , _____ , _____ , _____ ,

Map: Attached is a map showing the location of potential operations taken from the USGS topographic
Quadrangles Ornbaun Valley 15 minute quadrangle.

SIGNATURE:  RPF # 2127

CDF Use Only

DATE RECEIVED:

DATE RESPONSE MAILED: 98 Oct 28

REQUEST ID NUMBER: 2217 -

INSORQST.4M

RECEIVED

OCT 20 1998

COAST AREA OFFICE
RESOURCE MANAGEMENT

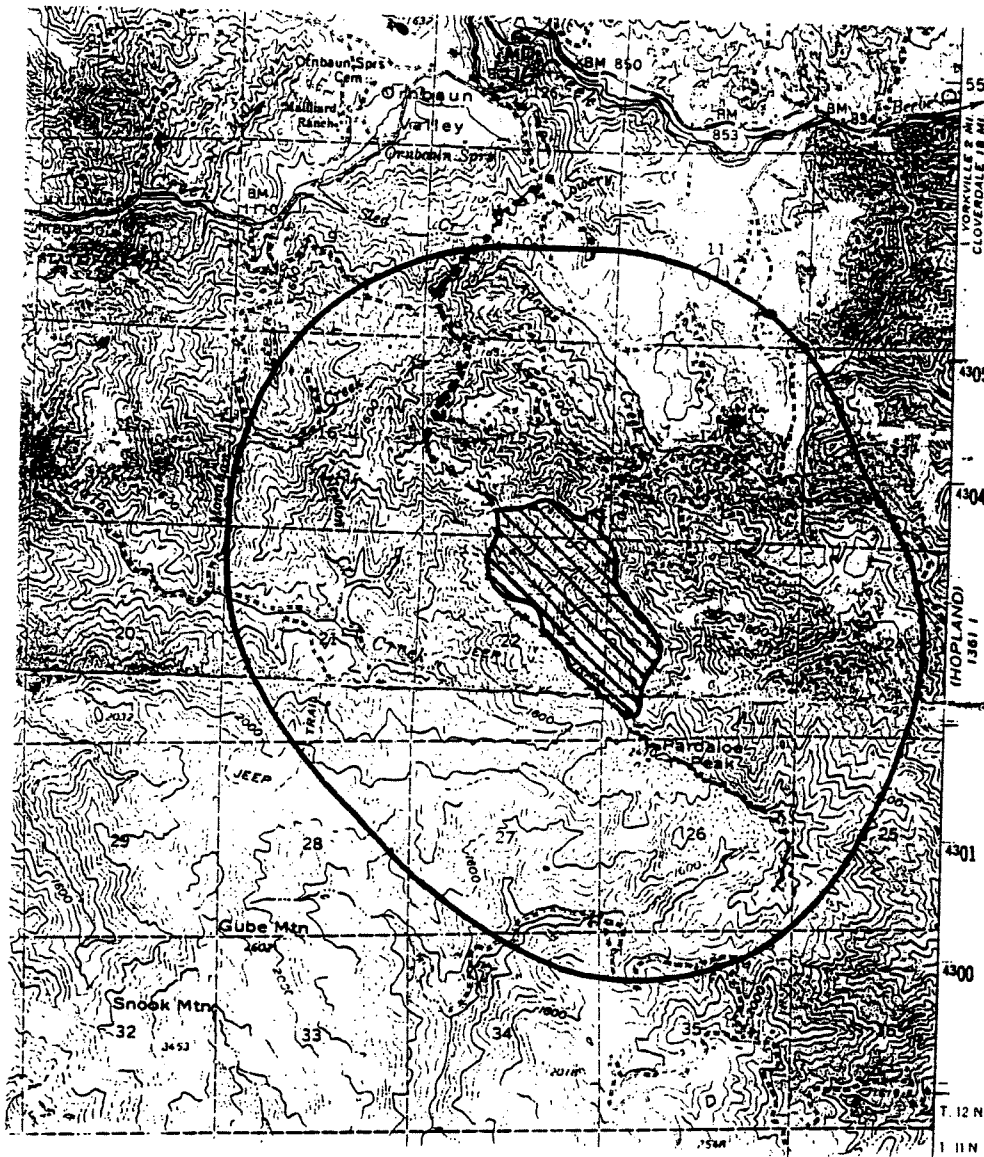
MAP TO ACCOMPANY
REQUEST FOR SPOTTED OWL DATA BASE CHECK
Yale Creek #2
1998

PLAN ADDENDUM
NOV 20 1998

T 12 N

Ornbaun Valley 15 min. quadrangle

R 13 W



Legend: Approximate Plan Area.....



1.3 Mile Radius Around Plan Area ...



Map Scale is 1" = 5208'

North

RPF: SUSAN, L
RQST. NO.: 2217

#: 2127

AN ADDENDUM

NOV 20 1998

10/28/98
Pg: 1

California Department of Fish and Game
California Department of Forestry and Fire Protection

NORTHERN SPOTTED OWL DATABASE MANAGEMENT SYSTEM
Version 2.0

REPORT #1

DATA

REPORT OF AREAS SEARCHED

COUNTY áááááá	TOWNSHIP áááááááá	RANGE ááááá	SECTION ááááááá	TERRITORY ááááááááá
MD	12N	13W	9	** NO OWLS KNOWN **
MD	12N	13W	10	** NO OWLS KNOWN **
MD	12N	13W	11	** NO OWLS KNOWN **
MD	12N	13W	13	MD216
MD	12N	13W	14	** NO OWLS KNOWN **
MD	12N	13W	15	** NO OWLS KNOWN **
MD	12N	13W	16	** NO OWLS KNOWN **
MD	12N	13W	21	** NO OWLS KNOWN **
MD	12N	13W	22	** NO OWLS KNOWN **
MD	12N	13W	23	** NO OWLS KNOWN **
MD	12N	13W	24	** NO OWLS KNOWN **
MD	12N	13W	25	** NO OWLS KNOWN **
MD	12N	13W	26	** NO OWLS KNOWN **
MD	12N	13W	27	** NO OWLS KNOWN **
MD	12N	13W	28	** NO OWLS KNOWN **
MD	12N	13W	34	** NO OWLS KNOWN **
MD	12N	13W	35	** NO OWLS KNOWN **

NOTE: THREE SEPERATE REPORTS ARE GENERATED IF NORTHERN SPOTTED OWL RECORDS ARE KNOWN FROM THE REQUESTED AREA. THE SECOND AND THIRD REPORTS WILL NOT PRINT IF OBSERVATIONS RECORDS ARE NOT FOUND.

REF: SUSAN,L
RQST. NO.: 2217

#: 2127

AN ADDENDUM

NOV 20 1998

10/28/98
Pg: 1

California Department of Fish and Game
California Department of Forestry and Fire Protection

NORTHERN SPOTTED OWL DATABASE MANAGEMENT SYSTEM
Version 2.0

FEBRUARY 1, 1998
DATA

REPORT #2

REPORT OF TERRITORIES FOUND

LOCALE	TWN	RNG	SECT	1/4	1/16	1/64	TYPE	OWNER	YEAR	TERR.	NEST/YNG
aaaaaaaaaaaaaaaaaaaa	aaa	aaa	aaaa	aaa	aaaa	aaaa	aaaaa	aaaaa	aaaaa	aaaaa	aaaaa

TERRITORY: MD216

RANCHERIA CR	12N	13W	3	SW	NE		PVT		91	-	P
--------------	-----	-----	---	----	----	--	-----	--	----	---	---

NOTE: FOR AN EXPLANATION OF THE DATA COLUMNS, USE A "DATABASE REPORT EXPLANTATION SHEET" DATED AFTER JANUARY 1, 1994.

RPF: SUSAN, L
RQST. NO.: 2217

#: 2127

AN ADDENDUM

NOV 20 1998

10/28/98
Pg: 1

California Department of Fish and Game
California Department of Forestry and Fire Protection

NORTHERN SPOTTED OWL DATABASE MANAGEMENT SYSTEM
Version 2.0

FEBRUARY 1, 1998

REPORT #3

DATA

REPORT OF SIGHTINGS REPORTED FOR TERRITORIES FOUND

TWN	RNG	SECT	1/4	1/16	1/64	DATE SEEN	TIME SEEN	OBSERVER	NO. OF OWLS	AGE- SEX	PAIR	NO. OF YNG
ááá	ááá	áááá	ááá	áááá	áááá	áááááááá	áááááá	áááááááááááááááá	áááá	áááá	áááá	ááá
TERRITORY: MD216												
12N	13W	3				11/29/90	0	WOOSTER	0			0
12N	13W	3				12/01/90	0	WOOSTER	0			0
12N	13W	3				12/28/90	0	WOOSTER	0			0
12N	13W	3	SW	NE		04/22/91	0	WOOSTER	2	UMUF	Y	0
12N	13W	3	SW	NE	E	05/01/91	0	WOOSTER	2	UMUF	Y	0
12N	13W	3	SW	NE	E	05/15/91	0	WOOSTER	1	UM		0
12N	13W	3	SW	NE	E	05/22/91	0	WOOSTER+	1	UM		0
12N	13W	3	SW	NE		05/22/91	0	WOOSTER+	2	UMUF	Y	0
12N	13W	3				06/01/91	0	WOOSTER	2	UMUF	Y	0
12N	13W	3	SE	NW	CW	06/04/91	0	WOOSTER	2	UMUF	Y	0
12N	13W	3				06/07/91	0	WOOSTER	1	UF		0
12N	13W	3				07/03/91	0	WOOSTER	0			0
12N	13W	3	SW	NE	E	07/17/91	0	WOOSTER	2	UMUF	Y	0
12N	13W	3				07/26/91	0	WOOSTER	2	UMUF	Y	0
12N	13W	3	SW	NE		09/27/91	0	WOOSTER	1	UU		0
12N	13W	13				10/22/91	0	WOOSTER	1	UM		0
12N	13W	3	SW	NE		11/05/91	0	WOOSTER	1	UF		0
12N	13W	3				12/13/91	0	WOOSTER	0			0
12N	13W	3	SW	NE		12/26/91	0	WOOSTER	1	UM		0
12N	13W	3				03/27/92	0	WOOSTER	0			0

OTE: FOR AN EXPLANATION OF THE DATA COLUMNS, USE A "DATABASE REPORT
EXPLANTATION SHEET" DATED AFTER JANUARY 1, 1994.

PLAN ADDENDUM.

NOV 20 1998

APPENDIX B

**CONFIDENTIAL
ARCHAEOLOGICAL ADDENDUM**

**Yale Creek #2
Timber Harvest Plan
1998**

Not for Public Distribution As Per Title 14 CCR 929.1(a)(2)

NOTE

Information concerning archeological sites has been removed from THP 1-98-415 MEN in accordance with the policy of the Office of Historic Preservation as adopted by the State Historical Resources Commission under the authority of Public Resources Code 5020.4.

Copies of the information have been sent to the following locations to facilitate review of the project:

1. CDF field unit - Willits
2. Reviewing Archeologist, Mark Gary, Santa Rosa (Region Office)

The original copy of this material is maintained in a confidential file at CDF Region I Headquarters, 135 Ridgway Avenue, Santa Rosa, CA 95401.

NOV 20 1998

TIMBER HARVEST PLAN SECTION 6

Yale Creek #2
1998

AN ADDENDUM

NOV 20 1998

ESTIMATED SURFACE SOIL EROSION HAZARD RATING WORKSHEET

STATE OF CALIFORNIA
BOARD OF FORESTRY

I. SOIL FACTORS

FACTOR RATING BY AREA

SOIL TEXTURE	Fine	Medium	Coarse	182	182	273	273		
1. DETACHABILITY	Low	Moderate	High						
Rating	1-9	10-18	19-30	18	18	17	17		
2. PERMEABILITY	Slow	Moderate	Rapid						
Rating	5-4	3-2	1	3	3	3	3		

B. DEPTH TO RESTRICTIVE LAYER OR BEDROCK

	Shallow	Moderate	Deep						
	1-19"	20-39"	40-60"(+)						
Rating	15-9	8-4	3-1	4	4	6	6		

C. PERCENT SURFACE COARSE FRAGMENTS GREATER THAN 2 MM IN SIZE INCLUDING ROCKS OR STONES.

	Low	Moderate	High						
	<10-39%	40-70%	71-100%						
Rating	10-6	5-3	2-1	9	9	9	9		
SUBTOTAL →				34	34	35	35		

II. SLOPE FACTOR

Slope	5-15%	16-30%	31-40%	41-50%	51-70%	71-80%(+)			
Rating	1-3	4-6	7-10	11-15	16-25	26-35	12	17	12
							17		

III. PROTECTIVE VEGETATIVE COVER REMAINING AFTER DISTURBANCE

	Low	Moderate	High						
	0-40%	41-80%	81-100%						
Rating	15-8	7-4	3-1	5	5	5	5		

IV. TWO-YEAR, ONE-HOUR RAINFALL INTENSITY (Hundredths Inch)

	Low	Moderate	High	Extreme					
	<30-39	40-59	60-69	70-80(+)					
Rating	1-3	4-7	8-11	12-15	12	12	12	12	

TOTAL SUM OF FACTORS →

63	68	64	69		
----	----	----	----	--	--

EROSION HAZARD RATING

<50	50-65	66-75	>75
Low(L)	Moderate(M)	High(H)	Extreme(E)

THE DETERMINATION IS →

M	H	M	H		
---	---	---	---	--	--

NOV 20 1998

Summit Forestry

Lee Susan
16575 Franklin Road
Fort Bragg, CA 95437
(707) 964-4566

Mr. Fred Galbreath
P.O. Box 188
Kentfield, CA 94904

November 16, 1998

Dear Mr. Galbreath,

Pursuant to item "13 a" of the THP which I have prepared for your property, I am writing to explain some of the obligations a landowner incurs when they harvest timber on their property in the State of California.

1) The California Code of Regulations Title 14 CCR 1035 specifies plan submitter responsibilities pertinent to the harvesting of timber. A copy of Title 14 CCR 1035 has been enclosed for your reference.

2) The State of California has certain minimum stocking requirements for timberland that must be maintained or re-established following harvesting. These stocking requirements are specified in Title 14 CCR 912.7 which I have enclosed for your reference.

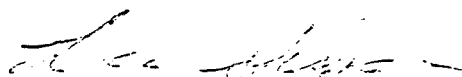
Where your THP specifies an alternative silvicultural prescription a point count of 300 must be maintained on Site 3 timberland and a point count of 150 must be maintained on Site 4 timberland. Where your THP specifies a selection silvicultural prescription 75 Sq.Ft./Ac. of basal area must be maintained on Site 3 timberland and 50 Sq.Ft./Ac. of basal area must be maintained on Site 4 timberland. At least (4) 24" or (8) 18" conifers per acre must be maintained.

In the rehabilitation harvest area, planting will be required to restock the area to achieve a conifer point count of 150/acre. Also, if conifers are planted which will yield 10 countable trees for each conifer cut in the rehabilitation area, then the site will be considered to be stocked. Please refer to Title 14 CCR 913.4 for more specific details.

3) The State of California requires that erosion control structures be maintained. Primarily, this would include keeping water breaks operational and keeping culverts open to the unrestricted flow of water. Current regulations require that erosion control features be maintained for up to three years after the THP has been completed.

If you have any questions concerning what is required please feel free to call me at any time.

Sincerely yours,



Lee Susan
Forester # 2127

year and support aquatic vegetation, grasses and fords as their principal vegetative cover.

NOTE: Authority cited: Sections 4525, 4551, 4551.5 and 4553, Public Resources Code. Reference: Sections 4526 and 4561, Public Resources Code.

HISTORY

1. Amendment of NOTE filed 2-21-79 as procedural and organizational; effective upon filing (Register 79, No. 9).
2. Amendment filed 7-2-79; effective thirtieth day thereafter (Register 79, No. 27).
3. Amendment filed 7-9-81; effective thirtieth day thereafter (Register 81, No. 28).
4. Amendment filed 9-9-88; operative 10-9-88 (Register 88, No. 38).
5. Change without regulatory effect (Register 89, No. 23).
6. Adoption of subsection "Marble murrelet Habitat" filed 6-27-91 as an emergency; operative 6-27-91 (Register 91, No. 41). A Certificate of Compliance must be transmitted to OAL by 10-24-91 or emergency language will be repealed by operation of law on the following day.
7. Amendment of "Commercial species" to include Pacific Yew filed 1-21-93 as an emergency; operative 1-21-93 (Register 93, No. 4). A Certificate of Compliance must be transmitted to OAL 5-21-93 or emergency language will be repealed by operation of law on the following day.
8. Repealer of "Co-dominant," "Dominant," "Lake," "Logging Area," "Seed Tree," "Skidding or Yarding," "Skid trails," "Tractor roads" and "Waterbreak" filed 1-7-94; operative 3-1-94 (Register 94, No. 1).
9. Pacific Yew under "Commercial species" repealed by operation of Government Code section 11346.1 (Register 94, No. 20).

¹ All Coastal Commission Special Treatment Areas were adopted by the Coastal Commission on July 5, 1977, and they include several specially identified areas, buffer zones adjacent to designated highways within Coastal Scenic View Corridors, and buffer zones adjacent to publicly owned preserves and recreation areas. Maps or designations of Coastal Commission Special Treatment Areas are on file in department offices in the Coast Forest District. Coastal Commission Special Treatment Areas have been designated according to the following criteria:

- A. Scenic View Corridors
- B. Sites of significant scenic value
- C. Wetlands, lagoons, streams, estuaries, and marine environments
- D. Significant animal and plant habitat areas
- E. Recreation areas

The Coastal Commission has also set forth in its designations special management objectives considered essential by the Coastal Commission for the protection of public values within the Coastal Zone.

The following is a listing of the Coastal Commission Special Treatment Areas. In parentheses following the name of each area are capital letters indicating the specific criteria as listed above. The letters referencing the criteria are listed in order of priority of the significance of the various criteria applicable to the area.

(a) Del Norte County: Elk Creek Valley (C), Sitka Spruce Grove (D.A), False Klamath Cove (B.A), Klamath River (B.A.C).

(b) Humboldt County: Freshwater Lagoon (B.C.E), Stone Lagoon (A.B.C.E), Big Lagoon (A.C.B), Big Lagoon Bog (B.C.E), Agate Beach Bluff (B.A), Mattole River (B.C), The King Range National Conservation Area forestlands that parallel the beach: All private inholdings that are within view of the beach trail that are in the recreational zoned western slopes.

(c) Mendocino County: Usal Creek (A.C), Rockport Beach (B), Hardy Creek Knoll (B), Westport (B), Tea Mile River (B.C), Noyo River (A.B.C), Caspar and Doyle Creeks (A), Big River (A.B.C.E), Albion River (A.B.C.D), Navarro River (B.C.A), Navarro to Irish Beach Terrace (A.B), Elk Creek (C.B), Gualala River (B.C).

(d) Sonoma County: Gualala River (B.C), Sea Ranch Area (A), Stewarts Point Area (A), Horseshoe Cove Area (C.B.E), Stockoff Creek and Kolmer Gulch (B.C.D), Fort Ross (A.B), Mill Gulch (A.B), Timber Gulch (A.B), Russian Gulch (A), Sawmill Gulch (A), Sheephouse Creek (A.C.D), Duncan Mills Marsh (A.C.D), South Side of the Russian River (A.B.C.D.E), Willow Creek Headwaters (C.D), Jenner Gulch (C.D), Slaughterhouse Gulch (A.D), Furlong Gulch (A.D), Scotty Creek (C.D), Rough Creek (C.D).

(e) San Mateo County: San Pedro Valley (A), South Montara Mountain (A.B), Butano Panoramas (B.E), Ano Nuevo Uplands (A.B.E).

(f) Santa Cruz County: Ano Nuevo Uplands (A.B.E), Waddell Creek (A.B.C.E), Bonny Doon Botanic Area (B.D), Molino Creek (A.B).

(g) Buffer Zones within Coastal Scenic View Corridors in Del Norte, Humboldt and Mendocino Counties.

(1) Del Norte County: Highway 101 from Crescent City to Smith River town along the west side of the highway.

(2) Humboldt County:

(A) Highway 101 from the Moonstone-Westhaven Exit to Big Lagoon Bridge along both sides of the highway.

(B) Old Highway 101 from Trinidad north to Patrick's Point State Park entrance along both sides of the road.

(3) Mendocino County: Highway 1 from Ten Mile River to Sonoma County line along both sides of the highway.

(h) Buffer Zones adjacent to all publicly owned preserves and recreation areas, including national, state, regional, county, and municipal parks.

§ 912.5. Procedure for Estimating Surface Soil Erosion Hazard Rating.

A proposed plan shall show the estimated erosion hazard ratings of the plan area, by areas, down to 20 acres (8.1 ha) if such a breakdown will change the estimated erosion hazard of individual areas. The plan shall show high and extreme erosion hazard ratings, by areas, down to 10 acres (4.047 ha) if such a breakdown will change the erosion hazard of the individual areas. Specific erosion hazard areas not fitting the above minimum will be considered independently and protective measures commensurate with the problem applied. These measures are covered in Chapter 4, Subchapter 4 of the California Code of Regulations.

To estimate the erosion hazard rating of any plan or portion thereof, the forester (RPF) shall follow the procedures and requirements contained in Board Technical Rule Addendum #1, dated February 1, 1990. Appropriate weights for the factors in the Estimated Surface Soil Erosion Hazard, Form I, in the Addendum, shall be calculated and the factors shall be summed to give the rating. A copy of the calculations from Form I shall be attached to the timber harvesting plan. A copy of the Board Technical Rule Addendum #1 can be obtained from the State Board of Forestry at the Resources Building, 1416 9th Street, Room 1506-14, Sacramento, CA 95814.

NOTE: Authority cited: Sections 4551 and 4562.5, Public Resources Code. Reference: Section 4562.5, Public Resources Code.

HISTORY

1. New NOTE filed 2-21-79 as procedural and organizational; effective upon filing (Register 79, No. 9).
2. Repealer and new section filed 7-2-82; designated effective 1-1-83 (Register 82, No. 27).
3. Amendment filed 12-4-89; operative 2-1-90 (Register 89, No. 50).

§ 912.7. Resource Conservation Standards for Minimum Stocking.

The following resource conservation standards constitute minimum acceptable stocking in the Coast Forest District after timber operations have been completed.

(a) Rock outcroppings, meadows, wet areas, or other areas not normally bearing commercial species shall not be considered as requiring stocking and are exempt from such provisions.

(b) An area on which timber operations have taken place shall be classified as acceptably stocked if either of the standards set forth in (1) or (2) below are met within five (5) years after completion of timber operations unless otherwise specified in the rules.

(1) An area contains an average point count of 300 per acre on Site I, II and III lands or 150 on Site IV and V lands to be computed as follows:

(A) Each countable tree (Ref. CCR, Title 14, Section 895.1) which is not more than 4 inches d.b.h. counts 1 point.

(B) Each countable tree over 4 inches but less than 12 inches d.b.h. counts 3 points.

(C) Each countable tree over 12 inches d.b.h. counts as 6 points.

(D) Root crown sprouts will be counted using the average stump diameter 12 inches above average ground level of the original stump from which the sprouts originate, counting one sprout for each foot of stump diameter to a maximum of 6 per stump.

(2) The average residual basal area, measured in stems 1 inch or larger in diameter, is at least 85 square feet per acre on Site I lands, and 50 square feet per acre on lands of Site II classification or lower. Site classification shall be determined by the RPF who prepared the plan.

(c) The resource conservation standards of the rules may be met with Group A and/or B commercial species. The percentage of the stocking requirements met with Group A species shall be no less than the percentage of the stand basal area they comprised before harvesting. The site occupancy provided by Group A species shall not be reduced relative to

NOV 20 1998

Group B species. When considering site occupancy, the Director shall consider the potential long term effects of relative site occupancy of Group A species versus Group B species as a result of harvest. If Group B species will likely recapture the site after harvest, Group B species do not need to be reduced. The time frames for recapturing the site shall be consistent with achieving MSP. The Director may prohibit the use of Group A and/or B commercial species which are non-indigenous or are not physiologically suited to the area involved. Exceptions may be approved by the Director if the THP provides the following information and those exceptions are agreed to by the timberland owner:

(1) Explain and justify with clear and convincing evidence how using Group A nonindigenous, or Group B species to meet the resource conservation standards will meet the intent of the Forest Practice Act as described in PRC Section 4513. The discussion shall include at least:

(A) the management objectives of the post-harvest stand;

(B) a description of the current stand, including species composition and current stocking levels within the area of Group B species. The percentage can be measured by using point-count, basal area, stocked plot, or other method agreed to by the Director.

(C) the percentage of the post-harvest stocking to be met with Group B species. Post harvest percentages will be determined on the basis of stocked plots. Only the methods provided by 14 CCR 1070-1075 shall be used in determining if the standards of PRC Section 4561 have been met.

(D) a description of what will constitute a countable tree, as defined by PRC Section 4528 for a Group B species and how such a tree will meet the management objectives of the post-harvest stand.

The Director, after an initial inspection pursuant to PRC Section 4604, shall approve use of Group B species, as exceptions to the pre-harvest basal area percentage standard, if in his judgement the intent of the Act will be met, and there will not be an immediate significant and long-term harm to the natural resources of the state.

NOTE: Authority cited: Sections 4551, 4553 and 4561.1, Public Resources Code. Reference: Sections 4561 and 4561.1, Public Resources Code.

HISTORY

1. New NOTE filed 2-21-79 as procedural and organizational; effective upon filing (Register 79, No. 9).
2. Editorial correction filed 12-2-82 (Register 82, No. 49).
3. Editorial correction filed 8-29-84; effective thirtieth day thereafter (Register 84, No. 35).
4. Amendment filed 9-9-88; operative 10-9-88 (Register 88, No. 38).
5. Amendment of subsection (c) and (c)(1) filed 1-7-94; operative 3-1-94 (Register 94, No. 1).
6. Amendment of subsection (c) filed 5-16-94; operative 5-16-94 (Register 94, No. 20).

§ 912.8. Progeny, Clonal, or Provenance Testing Stocking Standard Exemption.

Pursuant to PRC 4561.7, the following standards shall apply to the request for an exemption from the stocking standards of the Act for progeny, clonal, or provenance testing.

(a) Any THP submitted pursuant to Section 4561.7 of the Public Resources Code shall include the following information, in addition to other requirements of the rules of the Board.

- (1) A specific request for an exemption from stocking standards; and
- (2) A description of the testing to be conducted on the site.

(b) The exemption from stocking shall become effective upon the Director's determination that the timber harvesting plan is in conformance with the rules and regulations of the Board.

NOTE: Authority cited: Sections 4551 and 4561.7, Public Resources Code. Reference: Sections 4561.7 and 4582.75, Public Resources Code.

HISTORY

1. New section filed 12-11-86; effective thirtieth day thereafter (Register 86, No. 50).

§ 912.9. Cumulative Impacts Assessment Checklist.

STATE OF CALIFORNIA

BOARD OF FORESTRY

CUMULATIVE IMPACTS-ASSESSMENT

(1) Do the assessment area(s) of resources that may be affected by the proposed project contain any past, present, or reasonably foreseeable probable future projects?

Yes _____ No _____

If the answer is yes, identify the project(s) and affected resource subject(s).

(2) Are there any continuing, significant adverse impacts from past land use activities that may add to the impacts of the proposed project?

Yes _____ No _____

If the answer is yes, identify the activities and affected resource subject(s).

(3) Will the proposed project, as presented, in combination with past, present, and reasonably foreseeable probable future projects identified in items (1) and (2) above, have a reasonable potential to cause or add to significant cumulative impacts in any of the following resource subjects?

	Yes after mitigation (a)	No after mitigation (b)	No reasonably potential significant effects (c)
1. Watershed	_____	_____	_____
2. Soil Productivity	_____	_____	_____
3. Biological	_____	_____	_____
4. Recreation	_____	_____	_____
5. Visual	_____	_____	_____
6. Traffic	_____	_____	_____
7. Other	_____	_____	_____

a) Yes, means that potential significant adverse impacts are left after application of the forest practice rules and mitigations or alternatives proposed by the plan submitter.

b) No after mitigation means that any potential for the proposed timber operation to cause significant adverse impacts has been substantially reduced or avoided by mitigation measures or alternatives proposed in the THP and application of the forest practice rules.

c) No reasonably potential significant effects means that the operations proposed under the THP do not have a reasonable potential to join with the impacts of any other project to cause cumulative impacts.

(4) If column (a) is checked in (3) above describe why the expected impacts cannot be feasibly mitigated or avoided and what mitigation measures or alternatives were considered to reach this determination. If column (b) is checked in (3) above describe what mitigation measures have been selected which will substantially reduce or avoid reasonably potential significant cumulative impacts except for those mitigation measures or alternatives mandated by application of the rules of the Board of Forestry.

(5) Provide a brief description of the assessment area used for each resource subject.

(6) List and briefly describe the individuals, organizations, and records consulted in the assessment of cumulative impacts for each resource subject. Records of the information used in the assessment shall be provided to the Director upon request.

BOARD OF FORESTRY

TECHNICAL RULE ADDENDUM NO. 2 CUMULATIVE IMPACTS ASSESSMENT

Introduction

The purpose of this addendum is to guide the assessment of cumulative impacts as required in 14 CCR 898 and 1034 that may occur as a result of proposed timber operations. This assessment shall include evaluation of both on-site and off-site interactions of proposed project activities with the impacts of past and reasonably foreseeable future projects.

In conducting an assessment, the RPF must distinguish between on-site impacts that are mitigated by application of the Forest Practice Rules and the interactions of proposed activities (which may not be significant

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small group areas. A sample area must be marked prior to a preharvest inspection for evaluation. The sample area shall include at least 10% of the harvest area up to a maximum of 20 acres per stand type which is representative of the range of conditions present in the area.

(2) Post harvest stand stocking levels shall be stated in the THP. The level of residual stocking shall be consistent with maximum sustained production of high quality timber products. In no case shall stocking be reduced below the following standards:

(A) Selection System.

1. On Site I lands at least 125 square feet per acre of basal area shall be retained.

2. On Site II and III lands at least 75 square feet per acre of basal area shall be retained.

3. On Site IV and V lands at least 50 square feet per acre of basal area shall be retained.

4. Unless the plan submitter demonstrates how the proposed harvest will achieve MSP pursuant to Section 913.11(a) or (b), the residual stand shall contain sufficient trees to meet at least the number, size, and phenotypic quality of tree requirement specified under the seed tree method.

(B) Group Selection.

1. At least 80% of the stocked plots must meet the Basal Area stocking standards of 913.2(a)(2)(A).

2. Not more than 20% of the stocked plots may meet stocking standards utilizing the 300 point count standard with trees that are at least 10 (ten) years old.

3. The RPF may offset or skip up to 8 plots per 40 plots where those plot centers are initially placed within small group clearings created during the current harvest. Unless substantially damaged by fire, the RPF shall not exclude small group clearings created by previous timber harvesting from the stocking survey.

4. Unless the plan submitter demonstrates how the proposed harvest will achieve MSP pursuant to Section 913.11(a) or (b), the residual stand shall contain sufficient trees to meet at least the number, size, and phenotypic quality of tree requirement specified under the seed tree method.

(3) Within any THP, small group clearings under the selection method shall be separated by a logical logging area.

(4) Following completion of timber operations (including site preparation) not more than 20 percent of the THP area harvested by this method shall be covered by small group clearings.

(5) Exceptions to stocking standards in 913.2(a)(2) above may be granted only when proposed by the RPF and explained and justified in the plan, but in no case will the exceptions be less than specified in 14 CCR 912.7(b)(2). Exceptions may only be granted when the RPF clearly demonstrates that the existing stand will grow substantially less than both the potential site productive capacity and the proposed post harvest stand.

(b) Transition.

The transition method may be used to develop an unevenaged stand from a stand that currently has an unbalanced irregular or evenaged structure. The transition method involves the removal of trees individually or in small groups from irregular or evenaged stands to create a balanced stand structure and to obtain natural reproduction.

(1) This method is used no more than twice to increase stocking and improve the balance of age classes so as to allow the residual stand to be managed by the selection or group selection method.

(2) Stands suitable for the transition method contain adequate quantity and quality of seed producing trees to provide maximum regeneration for new age classes. Stands suitable for this method have no more than 25 sq. ft. of basal area greater than the selection basal area standards. Area for determination of preharvest stocking levels shall be no greater than 20 acres in size if such a breakdown will change the stocking levels of individual areas.

(3) Trees to be harvested or trees to be retained shall be marked by or under the supervisor of the RPF before felling operations. A sample area must be marked before preharvest inspection for evaluation. The sample area shall include at least 10% of the harvest area up to a maximum of 20

acres per stand type which is representative of the range of conditions present.

(4) Immediately following the completion of timber operations on the first use of this method, the minimum basal area standards in 14 CCR 912.7(b)(2) shall be met.

(5) Unless the plan submitter demonstrates how the proposed harvest will achieve MSP pursuant to Section 913.11(a) or (b), the residual stand shall contain sufficient trees to meet at least the number, size, and phenotypic quality of the leave tree requirement specified under the seed tree method.

(6) Following completion of timber operations (including site preparation) not more than 20 percent of the THP area harvested by this method shall be covered by small group clearings.

(7) No sooner than ten years following completion of the first entry with this method a second harvest using this method may be conducted.

(A) The standards of (1), (2), (3), (4), (5) and (6) above shall apply to the second entry.

(B) The THP submitter must provide the Director sufficient information such as growth and stand description to demonstrate that the standards of the selection method will be met for subsequent selection harvests.

(c) Within six months following completion of timber operations conducted pursuant to the selection and transition methods as described in the plan, a report of stocking shall be filed as stated in PRC Section 4587.

(d) In the absence of a Sustained Yield Plan, to maintain and improve tree species diversity, genetic material, and seed production, trees of each native commercial species where present at the time of harvest shall be retained after harvest. These leave trees shall be representative of the best phenotypes available in the preharvest stand. The RPF may propose and the Director may agree to a species specific plan in the THP which protects existing regeneration or provides for regeneration in-lieu of retaining trees.

NOTE: Authority cited: Sections 4551 and 4561, Public Resources Code. Reference: Sections 4561 and 4582(h), Public Resources Code.

HISTORY

1. Amendment of subsection (a) and new NOTE filed 2-21-79; effective thirtieth day thereafter (Register 79, No. 9).
2. Repealer and new section filed 1-11-83; effective thirtieth day thereafter (Register 83, No. 3).
3. Change without regulatory effect of subsection (c) filed 5-24-89 (Register 89, No. 23).
4. Editorial correction of subsection (c) (Register 91, No. 28).
5. Amendment of section heading and section filed 1-7-94; operative 3-1-94 (Register 94, No. 1).
6. Amendment of subsections (a)(2)(A)4, (a)(2)(B)2 and 4 and (b)(5) filed 5-16-94; operative 5-16-94 (Register 94, No. 20).

§ 913.2.5. Even-Aged Size Limits.

NOTE: Authority cited: Sections 4551, 4553 and 4561, Public Resources Code. Reference: Sections 4512, 4513, 4561, 4582(h) and 21001, Public Resources Code.

HISTORY

1. New section filed 11-25-91 as an emergency; operative 11-25-91 (Register 92, No. 25). A Certificate of Compliance must be transmitted to OAL 3-24-92 or emergency language will be repealed by operation of law on the following day.
2. Repealer of emergency adoption filed 11-25-91 by operation of Government Code section 11346.1(g) (Register 92, No. 40).

§ 913.3. Intermediate Treatments.

(a) Commercial Thinning. Commercial thinning is the removal of trees in a young-growth stand to maintain or increase average stand diameter of the residual crop trees, promote timber growth, and/or improve forest health. The residual stand shall consist primarily of healthy and vigorous dominant and codominant trees from the preharvest stand.

(1) Post harvest stand stocking levels shall be stated in the THP. The level of residual stocking shall be consistent with maximum sustained production of high quality timber products. Generally stands will develop stand structures with considerably higher levels of basal area than pro-

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6. Amendment filed 1-7-94; operative 3-1-94 (Register 94, No. 1).

vided in these minimum standards as stand age increases. In no case shall stocking be reduced below the following standards:

(A) Where the preharvest dominant and codominant crown canopy is occupied primarily by trees greater than 14 inches DBH:

1. On Site I lands at least 125 sq.ft. per acre of basal area shall be left.
2. On Site II and III lands at least 100 sq.ft. per acre of basal area shall be left.
3. On Site IV lands at least 75 sq.ft. per acre of basal area shall be left.
4. On Site V lands, at least 50 sq.ft. per acre of basal area shall be left.

(B) Where the preharvest dominant and codominant crown canopy is occupied primarily by trees less than 14 inches DBH, a minimum of 100 trees per acre over 4 inches DBH shall be retained for site I, II and III. For site IV and V 75 trees per acre over 4 inches DBH shall be retained.

(2) Exceptions to these stocking standards may be proposed by the RPF when explained and justified in the plan, but in no case will the standards be below those specified in 14 CCR 912.7(b)(2).

(3) For stands harvested in compliance with 14 CCR 913.3(a)(1)(A), the trees to be harvested or the trees to be retained shall be marked by or under the supervision of the RPF prior to felling operations. For all thinning proposals, a sample area must be marked prior to a preharvest inspection for evaluation. The sample area shall include at least 10% of the thinning area up to a maximum of 20 acres per stand type which is representative of the range of conditions present in the area. The Director may waive the marking requirements for the remainder of the THP area when explained and justified in the THP.

(4) Within six months following completion of timber operations as described in the plan a report of stocking shall be filed as stated in PRC Section 4587.

(b) Sanitation-Salvage. Sanitation is the removal of insect-attacked or diseased trees in order to maintain or improve the health of the stand. Salvage is the removal of only those trees which are dead, dying or deteriorating, because of damage from fire, wind, insects, disease, flood or other injurious agents. Salvage provides for the economic recovery of trees prior to a total loss of their wood product value. Sanitation and salvage may be combined into a single operation. The following requirements apply to the use of the sanitation-salvage treatment:

(1) The RPF shall estimate in the THP expected level of stocking to be retained upon completion of operations.

(2) Immediately upon completion of operations, the area shall meet the stocking standards of 14 CCR 912.7(b) unless explained and justified in the plan. If stocking is to be met immediately following completion of operations, a report of stocking shall be filed within 6 months of completion. If this standard cannot be met, the area must be planted during the first planting season following completion of operations and the minimum stocking standards of 14 CCR 912.7(b)(1) must be met within 5 years following completion of operations.

(3) Trees to be harvested or trees to be retained shall be marked by or under the supervision of the RPF prior to felling operations. When openings greater than .25 acres will be created, the boundaries of the small group(s) may be designated in lieu of marking individual trees within the small group areas. A sample area must be marked prior to a preharvest inspection for evaluation. The sample area shall include at least 10% of the area, up to a maximum of 20 acres per stand type, whichever is less, which is representative of the range of conditions present in the area. The Director may waive the marking requirement for the remainder of the THP area when explained and justified in the THP.

NOTE: Authority cited: Sections 4551 and 4561, Public Resources Code. Reference: Sections 4582(d), (h) and 4587, Public Resources Code.

HISTORY

1. New NOTE filed 2-21-79 as procedural and organizational; effective upon filing (Register 79, No. 9).
2. Repealer and new section filed 1-11-83; effective thirtieth day thereafter (Register 83, No. 3).
3. New subsection (c) filed 1-23-98; effective thirtieth day thereafter (Register 85, No. 4).
4. Change without regulatory effect filed 5-25-89 (Register 89, No. 23).
5. Editorial correction of subsections (a)(2) and (c)(2) (Register 91, No. 28).

§ 913.4. Special Prescriptions.

The following special harvesting methods are appropriate under certain conditions:

(a) Special Treatment Areas Prescriptions. Special consideration in Special Treatment Areas shall be given to selection of a regeneration method or intermediate treatment compatible with the objectives for which the special area was established. Such areas shall be identified in the plan. To assure the integrity of legally designated historical and archaeological sites and legally designated ecological reserves, and that the objectives of the special treatment areas are met, the RPF and the Director may agree, after on-the-ground inspection, if requested by either party, on specific silvicultural and logging practices to protect such areas. The Director shall notify affected agencies or groups with expertise in the resource involved in the special treatment area of any such areas located during the THP review process.

(b) Rehabilitation of Understocked Area Prescription. For the purposes of restoring and enhancing the productivity of commercial timberlands which do not meet the stocking standards defined in 14 CCR 912.7 prior to any timber operations on such lands, an area may be harvested provided it is restocked in accordance with sub-sections (1) or (2). To facilitate restocking, a regeneration plan must be included in the THP. The regeneration plan shall include site preparation, method of regeneration, and other information appropriate to evaluate the plan.

(1) If the area meets the standards of 14 CCR 912.7 within five years of completion of timber operations, the area shall be considered acceptably stocked, or shall be considered acceptably stocked if it contains at least 10 planted countable trees for each tree harvested on sites I, II, and III, and 5 planted countable trees for each tree harvested on site IV and V.

(2) On understocked timberlands where no countable conifer trees are to be harvested and the broadleaf species are not designated for management, the area shall be planted to equal or exceed the stocking standards of 14 CCR 912.7(b)(1) and shall be considered acceptably stocked if within five years of completion of timber operations it contains at least an average point count of 150 of Group A species on all site classifications.

NOTE: Authority cited: Sections 4551, 4553 and 4561, Public Resources Code. Reference: Section 4582.5, Public Resources Code.

HISTORY

1. New NOTE filed 2-21-79 as procedural and organizational; effective upon filing (Register 79, No. 9).
2. Repealer and new section filed 1-11-83; effective thirtieth day thereafter (Register 83, No. 3).
3. Change without regulatory effect filed 5-24-89 (Register 89, No. 23).
4. Amendment of subsection (a) and NOTE filed 11-27-91; operative 12-27-91 (Register 92, No. 25).
5. Amendment of section heading and section filed 1-7-94; operative 3-1-94 (Register 94, No. 1).

§ 913.5. Stocking Status.

Under any regeneration method where artificial regeneration is specified in the plan to restock the logged area, a preliminary report on the degree of stocking shall be submitted to the Director annually, between October 1 and December 31, beginning two years following completion of logging by the timber owner or his/her agent until the stocking standard of 14 CCR 912.7 is met or exceeded or as otherwise required. This report shall indicate the degree of stocking achieved and any additional measures that will be taken to stock the logged area.

NOTE: Authority cited: Sections 4551 and 4561, Public Resources Code. Reference: Sections 4561, 4587 and 4588, Public Resources Code.

HISTORY

1. New NOTE filed 2-21-79 as procedural and organizational; effective upon filing (Register 79, No. 9).
2. Amendment filed 7-2-79; effective thirtieth day thereafter (Register 79, No. 27).
3. Repealer and new section filed 1-11-83; effective thirtieth day thereafter (Register 83, No. 3).

HISTORY

1. Renumbering and amendment of Section 1034.1 to Section 1032.7 filed 2-2-82; effective thirtieth day thereafter (Register 82, No. 6).

§ 1034.2. Professional Judgment.

Where the rules or these regulations provide for the exercise of professional judgment by the forester (RPF) or the Director, the parties, at the request of either party shall confer on the plan area during the initial pre-harvest inspection provided for by law to reach agreement if possible on the conditions and standards to be included in the plan.

NOTE: Authority cited: Sections 4551 and 4552, Public Resources Code. Reference: Sections 4582.7 and 4582.75, Public Resources Code.

§ 1035. Plan Submitter Responsibility.

The plan submitter, or successor in interest, shall:

- (a) Ensure that an RPF conducts any activities which require an RPF.
- (b) Provide the RPF preparing the plan or amendments with complete and correct information regarding pertinent legal rights to, interests in, and responsibilities for land, timber, and access as these affect the planning and conduct of timber operations.
- (c) Sign the THP certifying knowledge of the plan contents and the requirements of this section.
- (d) Within five (5) working days of change in RPF responsibilities for THP implementation or substitution of another RPF, file with the Director a notice which states the RPF's name and registration number, address, and subsequent responsibilities for any RPF required field work, amendment preparation, or operation supervision. Corporations need not file notification because the RPF of record on each document is the responsible person.

(e) Provide a copy of the approved THP and any approved operational amendments to the LTO.

(f) The plan submitter shall notify the Director prior to commencement of site preparation operations. Receipt of a burning permit is sufficient notice.

NOTE: Authority cited: Sections 4551 and 4552, Public Resources Code. Reference: Sections 4582 and 4582.5, Public Resources Code.

HISTORY

1. Repealer and new section filed 9-26-89; operative 10-26-89 (Register 89, No. 40). For prior history, see Register 88, No. 32.
2. New subsection (f) filed 12-4-89; operative 2-1-90 (Register 89, No. 50).

§ 1035.1. Registered Professional Forester Responsibility.

Upon submission of a THP, the Registered Professional Forester (RPF) who prepares and signs a plan is responsible for the accuracy and completeness of its contents. The RPF preparing the plan shall:

(a) State in the THP the work which will be performed by the RPF plan preparer (beyond preparation of the THP and attending the pre-harvest inspection if requested by the Director), and any additional work requiring an RPF which the plan preparer does not intend to perform. This may include, but is not limited to, field work in identifying watercourse and lake protection zones or special treatment areas, marking trees, or other activities. The RPF is only responsible for the activities set forth in the plan when employed for that purpose, or required by the rules of the Board.

(b) In writing, inform the plan submitter(s) of their responsibility pursuant to Section 1035 of this Article, and the timberland owner(s) of their responsibility for compliance with the requirements of the Act and where applicable, Board rules regarding site preparation, stocking, and maintenance of roads, landings, and erosion control facilities.

NOTE: Authority cited: Sections 4551 and 4552, Public Resources Code. Reference: Sections 4583.2 and 4583.5, Public Resources Code.

HISTORY

1. Repealer and new section filed 9-26-89; operative 10-26-89 (Register 89, No. 40). For prior history, see Registers 88, No. 32 and 79, No. 44.

§ 1035.2. Interaction Between RPF and LTO.

From the start of the plan preparation process but before commencement of operations, the responsible RPF or supervised designee familiar with on-site conditions, shall meet with either the LTO, or supervised de-

signee, who will be on the ground and directly responsible for the harvesting operation. The meeting shall be onsite if requested by either the RPF or LTO. If any amendment is incorporated to the plan by an RPF after the first meeting, the RPF shall comply with the intent of this section by explaining relevant changes to the LTO; if requested by either the RPF or LTO, another on-site meeting shall take place.

The intent of any such meeting is to assure that the LTO:

- (a) Is advised of any sensitive on-site conditions requiring special care during operations.
- (b) Is advised regarding the intent and applicable provisions of the approved plan including amendments.

NOTE: Authority cited: Sections 4551 and 4552, Public Resources Code. Reference: Sections 4581 and 4582, Public Resources Code.

HISTORY

1. Repealer and new section filed 9-26-89; operative 10-26-89 (Register 89, No. 40). For prior history, see Registers 88, No. 32 and 79, No. 44.

§ 1035.3. Licensed Timber Operator Responsibilities.

Each Licensed Timber Operator shall:

- (a) Inform the responsible RPF or plan submitter, either in writing or orally, of any site conditions which in the LTO's opinion prevent implementation of the approved plan including amendments.
- (b) Be responsible for the work of his or her employees and familiarize all employees with the intent and details of the operational and protection measures of the plan and amendments that apply to their work.
- (c) Keep a copy of the applicable approved plan and amendments available for reference at the site of active timber operations.

(d) Comply with all provisions of the Act, Board rules and regulations, the applicable approved plan and any approved amendments to the plan.

NOTE: Authority cited: Sections 4551, 4552 and 4571, Public Resources Code. Reference: Sections 4528.5 and 4571, Public Resources Code.

HISTORY

1. New section filed 9-26-89; operative 10-26-89 (Register 89, No. 40).

§ 1035.4. Notification of Commencement of Operations.

Each calendar year, within fifteen days before, and not later than the day of the start up of a timber operation, the Timber Harvesting Plan Submitter, unless the THP identifies another person as responsible, shall notify CDF of the start of timber operations. The notification, by telephone or by mail, shall be directed to the appropriate CDF Ranger Unit Headquarters, Forest Practice Inspector, or other designated personnel.

NOTE: Authority cited: Sections 4551, 4551.5, 4553 and 4604, Public Resources Code. Reference: 4551, 4551.5 and 4582, Public Resources Code.

HISTORY

1. New section filed 7-28-88; operative 8-27-88 (Register 88, No. 32).

§ 1036. Deviations.

(a) "Minor deviations" means any change, minor in scope, in a plan which can reasonably be presumed not to make a significant change in the conduct of timber operations and which can reasonably be expected not to significantly adversely affect timberland productivity or values relating to soil, water quality, watershed, wildlife, fisheries, range and forage, recreation, and aesthetic enjoyment.

(b) All other changes are presumed to be substantial deviations because they could significantly affect the conduct of timber operations and potentially could have a significant adverse affect on timber productivity or values relating to soil, water quality, watershed, wildlife, fisheries, range and forage, recreation, and aesthetic enjoyment. Such actions include, but are not limited to:

(1) Change in location of timber harvesting operations or enlargement of the area to be cut.

(2) Change in the silvicultural method and cutting system on any portion of the plan area.

(3) Change in type or location of logging (yarding) system or basic type of equipment.

(4) Change in location, nature or increase in length of proposed logging roads incorporating one or more of the following criteria:

(A) Any road in the Stream Protection Zone or where sidecast will extend into the Stream Protection Zone.

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NOTICE OF INTENT TO HARVEST TIMBER

A timber Harvesting Plan or an amendment to an existing plan that may be of interest to you has been submitted to the California Department of Forestry & Fire Protection. The Department will be reviewing the proposed timber operation for compliance with various laws and rules. This review requires the addressing of any concerns you may have with what is being proposed. The following briefly describes the proposed operation and where and how to get more information.

The review times given to the Department to review the proposed timber operation are variable in length, but limited. To ensure the Department receives your comments please read the following.

The earliest possible date the Department may approve the plan or amendment is: 1/19/99 ~~1/19/99~~
NOTE: THIS DATE IS PROBABLY NOT THE ACTUAL APPROVAL DATE AND CLOSE OF PUBLIC COMMENT. Normally a much longer period of time is available for preparation of comments. Please check with the Department, prior to the above listed date, to determine the date the actual public comment period closes.

The plan or amendment was submitted to the Department on: 1/4/99 ~~1/19/99~~
 Questions about the proposed timber operations or laws and rules governing timber operations should be directed to:

California Department of Forestry & Fire Protection
 Forest Practice Program
 135 Ridgeway Avenue (PO Box 670)
 Santa Rosa, CA 95402
 (707) 576-2275

The public may review the plan or amendment at the above Department office or purchase a copy of the plan or amendment. The cost to obtain a copy is 12.5 cents for each page, \$2.50 minimum per request. (To be completed by the Department upon Receipt. The cost to obtain a copy of the plan or amendment is: _____)

Information about the plan or amendment follows:

1. Timber land owner where the timber operation is to occur: Mr. Fred Galbreath
2. Registered Professional Forester who prepared the plan or amendment: Lee Susan RPF #2127
3. Name of the individual who submitted the plan or amendment: Mr. Charles Hiatt

4 Location of the proposed timber operation (county, legal description, approximate location & approximate distance of the timber operation from the nearest community or well-known landmark):

Portion of Sections 15.& 22, T12N, R13W, MDB&M, Mendocino County

The plan area is located approximately 4 miles southwest of the town of Yorkville.

5. The name and distance from the nearest perennial stream and major watercourse flowing through or downstream from the timber operation:

Portions of the plan area are adjacent to Yale Creek.

6. Acres proposed to be harvested: 50

7. The regeneration methods and/or intermediate treatments to be used:

Selection, Rehabilitation and Alternative Prescription

8. Is there a known overhead power line, except lines from transformers or service panels, within the plan area?
 Yes ___ no X

A map is attached to help in locating where the proposed timber operation is to occur.

FOR DEPARTMENT USE ONLY

TIMBER HARVEST PLAN NO. _____ DATE OF RECEIPT _____

January 1, 1996 (Coast)

PLAN ADDENDUM

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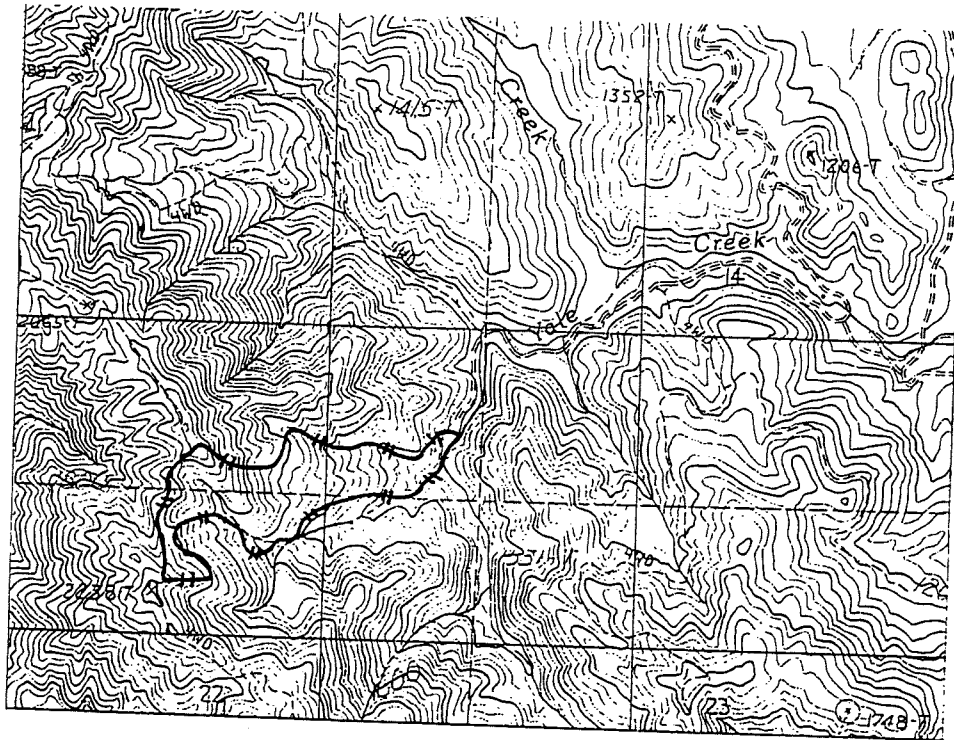
MAP TO ACCOMPANY TIMBER
NOTICE OF INTENT

Yale Creek #2

Ornbaun Valley 7.5 minute quadrangle

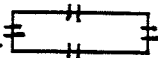
T12N

R13W



LEGEND

Timber Harvest Boundary.....



Map Scale is 1" = 2000'



PLAN ADDENDUM

NOV 20 1998

ADJACENT OWNER INFORMATION IN MAILING LABEL FORMAT

Edward & Parrett Stephens
20177 Fish Rock Road
Yorkville, CA 95494

William & Arleen Barr
20111 Fish Rock Road
Yorkville, CA 95494

PROOF OF PUBLICATION

(2015.5 C.C.P.)

STATE OF CALIFORNIA COUNTY OF MENDOCINO

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above- entitled matter. I am the principal clerk of the printer of the Ukiah Daily Journal, a newspaper of general circulation, printed and published daily except Saturday in the City of Ukiah, County of Mendocino and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Mendocino, State of California, under the date of September 22, 1952, Case Number 9267; that the notice, of which the annexed is a printed copy (set in type not smaller than non-pareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

OCTOBER 14

all in the year **1998**.

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at Ukiah, California, this 15th day of October, 1998.

Lucy K. French
LEGAL CLERK

This space is for the County Clerk's Filing Stamp

AN ADDENDUM

NOV 20 1998

Proof of Publication of:

PUBLIC NOTICE

PUBLIC NOTICE

801-98

10-14/98

NOTICE

A Timber Harvest Plan is being prepared in the Yale Creek Drainage. The legal description of the proposed plan area is as follows: portion of Sections 15, 22 and 23, T12N, R13W, MDBM. Information is being requested concerning the presence of domestic water supplies which use this water-course as their source. Please provide any pertinent information within 10 days from the date of this publication to: Summit Forestry, 16575 Franklin Road, Fort Bragg, CA 95437.

PROOF OF PUBLICATION

Summit Forestry

16575 Franklin Road
Fort Bragg, CA 95437
(707) 964-4566

PLAN ADDENDUM
NOV 20 1998

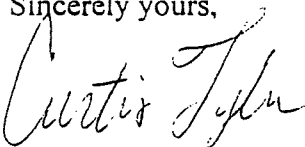
October 14, 1998

William & Arleen Barr
20111 Fish Rock Road
Yorkville, CA 95494

Dear Neighbor,

A timber harvest plan is being prepared on private property which is located in the Yale Creek drainage. I am requesting information concerning domestic water supplies which use this stream as the source. If you know of any such domestic water supplies please contact me within 10 days of the date on which this letter was postmarked. The legal description for the area where timber harvest is to occur is as follows: portion of Sections 15, 22 & 23, T12N, R13W, M.D.B.M. A preliminary map of the proposed harvest area is enclosed for your reference. This notice is being sent to you because you are listed as a landowner within 1000' downstream or down slope from the proposed harvest area. Thank you for your cooperation.

Sincerely yours,



Curtis Tyler
Forestry Technician

For

Lee Susan
RPF #2127

MAP TO ACCOMPANY
TIMBER HARVEST PLAN

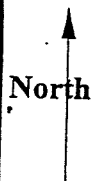
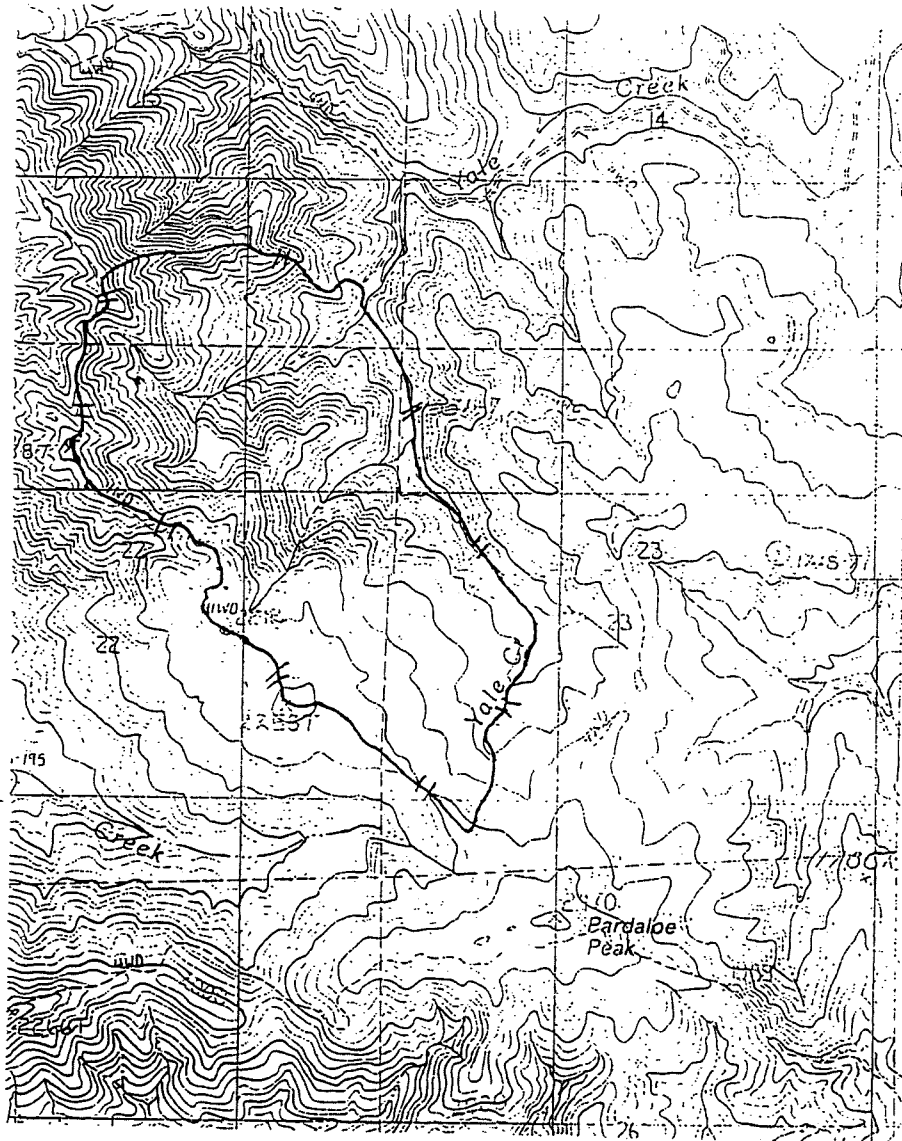
PLAN ADDENDUM

NOV 20 1998

Yale Creek #2
1998

T 12 N

R 13 W



Legend: Approximate Plan Area



Map Scale is 1" : 2,000'

Plan Addendum
12/3/98

Summit Forestry

Lee Susan
16575 Franklin Road
Fort Bragg, CA 95434
(707) 964-4566
summit@mcn.org

December 3, 1998

Mr. Fred Galbreath
P.O. Box 188
Kentfield, CA 94904

Dear Mr. Galbreath,

The THP which we recently prepared for the California Department of Fish and Game, the owner signs a THP of the same location (copy attached). I do not have your signature.

PRC 4582 specifies that a THP is not valid until the landowner is notified of the THP and the technical requirements. I will be sure that this should be accepted for filing.

Please give me a call when you wish to discuss this matter. Charlie is out of the office until he returns.

Sincerely yours,



Lee Susan
Forester #2127

A portion of your Yorkville Ranch is being submitted to the California Department of Fish and Game for their review and approval. Ordinarily the property owner signs a THP of the same location. In this case your signature only appears in one location. I will accept the THP for filing with only one signature.

The THP is being submitted without the landowner's signature if the landowner is notified of the THP. The purpose of this letter is to meet that requirement. I will send a copy of this letter and the plan to CDF with a copy of this letter and the plan.

If you have any questions concerning this matter, please call me. I will explain the circumstance to him when he returns.

Sent Certified Return
Receipt. L.S. 12/3/98

cc: Charles Hiatt

REVIEW TEAM CHAIRMAN'S RECOMMENDATIONS FOR TIMBER
HARVESTING PLAN OR AMENDMENT NO: 1-98-415 MEN
DATE: February 03, 1999
PAGE: 1

UNIT, FG, WQ
2-9-99

PART OF PLAN

1. To provide additional protection to the beneficial uses of water, at the landing located just below spring SP2, prior to the use of the landing, the LTO shall place brow logs or straw bales adjacent to the channel which bisects the landing.
2. At Area D, where the RPF proposes a Class III diversion, prior to the beginning of the Director's 10 working day THP determination period (14 CCR 1037.4), the RPF shall submit a description and sketch map of the proposed diversion at Area D.
3. At tractor road crossing TC1, upon completion of timber operations, the LTO shall install a 2-ft. to 3-ft. berm on the eastern approach to the crossing to ensure the Class II watercourse is not diverted down the tractor road.
4. At Crossings C2 and C3, a layer of straw, filter fabric, or clean rock shall be placed in the channel by the LTO prior to installation of the crossings to ensure that all fill material is removed back to the original channel grade upon removal of the crossing.
5. No sidecast shall be deposited by the LTO during road reconstruction between Crossings C2 and C3.
6. Road reconstruction at Map Points W1 and W2, including installation and removal of Crossings C2, C3, and C4, shall occur only once in the life of the THP.
7. The Northern Spotted Owl No-Take Certification shall be effective until March 1, 1999. No timber operations shall be conducted after that date until an extension of the No-Take Certification is obtained from the Department of Fish and Game and made part of the THP by filing a minor deviation.
8. The RPF shall designate the LTO(s) responsible for roads and landings reconstruction, construction, and maintenance in the THP area(s) and on appurtenant road(s); this action shall be in the form of a minor deviation (14 CCR 1040) submitted in writing to the

I agree to the above mitigation measures.

2/5/99

Date

RECEIVED

FEB 09 1999

COAST AREA OFFICE
RESOURCE MANAGEMENT



RPF's Signature

LEE SUSAN

RPF's Typed or Printed Name

Additional THP Page 20.2

REVIEW TEAM CHAIRMAN'S RECOMMENDATIONS FOR TIMBER
HARVESTING PLAN OR AMENDMENT NO: 1-98-415 MEN
DATE: February 03, 1999
PAGE: 2

Director prior to any road and landing reconstruction, construction, and maintenance. If multiple LTO's are listed, their responsibilities shall be defined in the minor deviation. If the RPF on the THP does not have the authority under THP Item #13 (c) to submit minor deviations (commonly called "minor amendments"), the Plan Submitter shall be responsible for accomplishing this mitigation measure.

This mitigation measure is to clarify the LTO(s) responsible for roads and landings construction, reconstruction and maintenance. (14 CCR 923.7, 963.7)

9. Prior to the beginning of the Director's 10 working day THP determination period (14 CCR 1037.4), the RPF shall revise the THP pages and pagination as the same information presented on page 48.1 (revised 01-07-99) is also on page 49 (revised 01-20-99); page 49 as revised 01-07-99 is now submitted as page 50 (revised 01-20-99); and the assessment map on page 50 as revised 01-07-99 is now replaced by page 50 (revised 01-20-99) the cumulative effects reference list.

PART OF PLAN

RECEIVED

FEB 09 1999

**COAST AREA OFFICE
RESOURCE MANAGEMENT**

I agree to the above mitigation measures.

2/4/99

Date



RPF's Signature

LEE SUSAN

RPF's Typed or Printed Name

Additional THP Page 20.3

DEPARTMENT OF FORESTRY AND FIRE PROTECTION

17501 N Highway 101
Willits, CA 95490
(707) 459-7440

February 11, 2005

FRED GALBREATH ESTATE
90 CULLODEN PARK RD
SAN RAFAEL, CA 94901

NOTICE OF INSPECTION

Section 4604 of the Public Resources Code (PRC) requires the department to inspect timber operations for compliance with the Forest Practice Act and Rules of the Board of Forestry.

Harvest Document: 1-98-415-MENYALE CREEK #2
Inspection Date: February 11, 2005
Inspection Number: 2
Person Contacted: CHARLES HYATT

Final Completion and Stocking Inspection - no violations observed on the area inspected.

The timber harvest area shown on the attached map meets the minimum stocking standards of 14 CCR 913.2 (a) (2) (A) (2).

Pursuant to 14 CCR 1050, erosion controls to include drainage structures and drainage facilities, inspection and maintenance shall be performed for a prescribed maintenance period of one to three years from the date CDF received the Timber Operations Work Completion Report. The LTO is responsible for proper construction, inspection and maintenance of erosion controls during the prescribed maintenance period until the Work Completion Report, as described in PRC 4585, is approved by the Director. **The landowner is responsible for inspection and any needed repair and maintenance of erosion controls during the remainder of the prescribed maintenance period.** Responsibility for erosion controls maintenance may be assumed at an earlier date by the landowner or can be delegated to a third party provided that the assuming party acknowledges such responsibility in writing to the Director [14 CCR 1050(c)]. The landowner's responsibility for the remainder of the prescribed maintenance period starts on the date of this Work Completion Report CDF Inspection.

The completed plan area shall have a prescribed maintenance period through November 15, 2007 *Ken*

If you have any questions, please contact Ken Margiott at (707) 895-2018

THP 1-98-415-MEN

INSPECTION #2

Date of Inspection: February 11, 2005

Page 2

Loyde Johnson,
Unit Chief, Mendocino Unit



Kenneth J. Margiott RPF # 2671
Area Forester, Resource Management

cc: Unit, Region, CDF Inspector, Timberland Owner, RPF, LTO

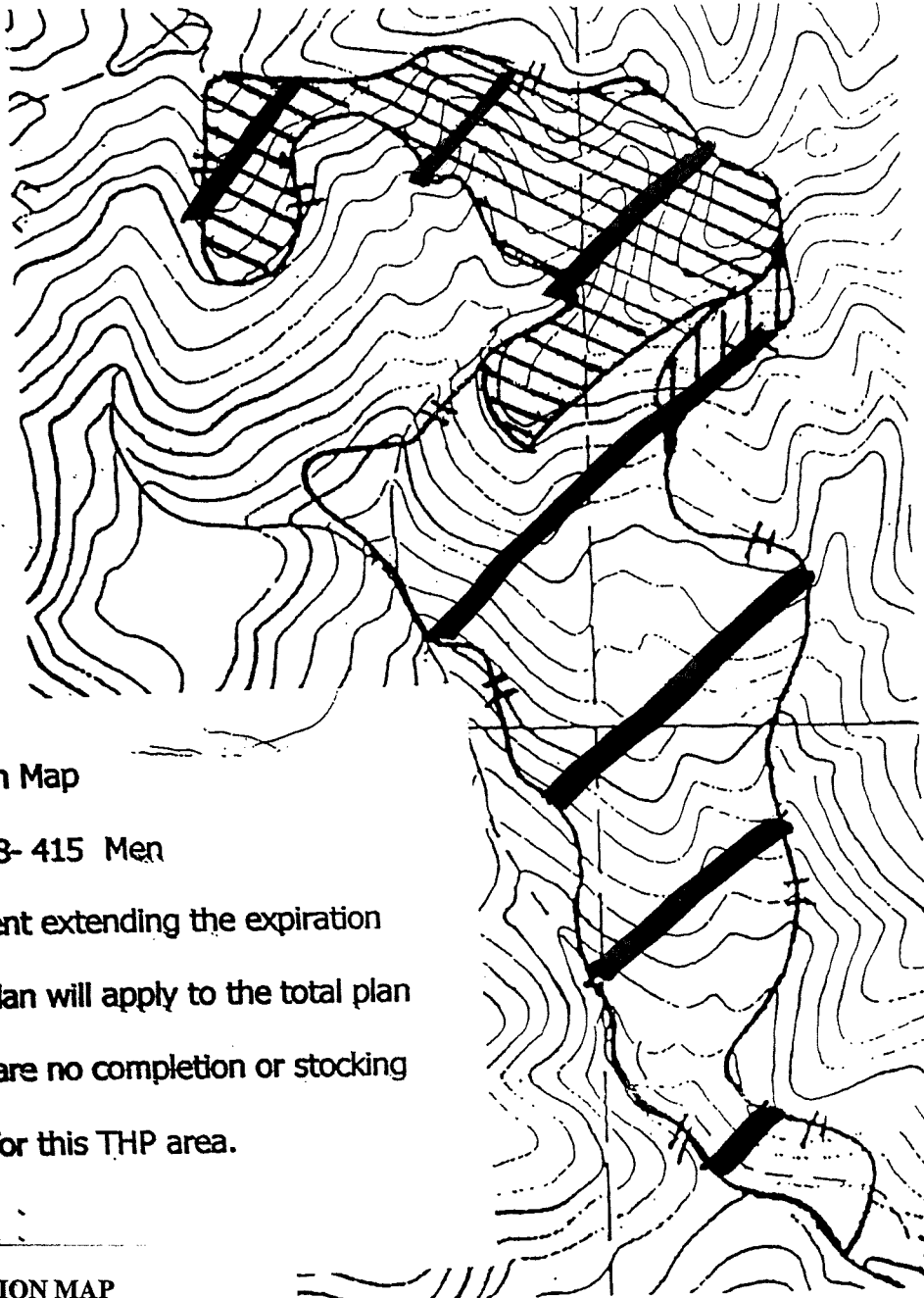
MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

PLAN ADDENDUM

NOV 20 1998

T 12 N

R 13 W



Time Extension Map

THP 1-98-415 Men

The amendment extending the expiration
Date of this plan will apply to the total plan
Area. There are no completion or stocking
reports filed for this THP area.

CDF INSPECTION MAP

PLAN # 1-98-415

INSPECTION TYPE Completion # 2

INSPECTION DATE February 12, 2005

INSPECTOR: Gen Margolis

SEC 23, 10, 11 T18 R16

MAP POINT

AREA TRAVERSED

ALL THP AREA
COMPLETED

RECEIVED

NOV 15 2004

COAST AREA OFFICE
RESOURCE MANAGEMENT

RECEIVED

JAN 28 2002

COAST AREA OFFICE
RESOURCE MANAGEMENT

North

State of California
Department of Forestry
and Fire Protection
Completion/Stocking Report
RM - 71 (Rev. 01/00)
Page One of Three

RECEIVED

NOV 15 2004

ORIGINAL - C. TO UNIT
DATE 11-17 INITIALS Jt

Admin. Use Only

Area: _____

Date Received: NOV 15 2004

Date Approved: _____

Date Sent to B.O.E.: _____

CC's: Unit, App., DF&G, WQCB, Bd of Equal.
& Original to R.O. on 3/1/05

TIMBER OPERATIONS WORK COMPLETION AND/OR STOCKING REPORT
(As per Div. 4, Chap. 8, Section 4585 and 4587 PRC, and Title 14 CCR Sections 1070 - 1075)

Certification By Timber Owner or Agent: I certify that the declarations herein are true and correct to the best of my knowledge and belief. I am notifying the Department of Forestry and Fire Protection of the status of compliance with the completion and stocking requirements of the Forest Practice Act and rules of the Board of Forestry and Fire Protection for:

Harvest Document Number: 1-98-415 M

Harvest document includes a Timber Harvesting Plan (THP), a Nonindustrial Timber Management Plan's Notice of Timber Operations (NTO), a Less Than Three Acre Conversion Exemption (EX), or an Emergency Notice (EM). For Timberland Conversion Permits (TCP), include the THP Number above, as well as the Conversion Permit No.: _____

Completion Report

- ☒ **Final Completion Report.** On (date): 2/9/04 all work on the operation was completed, and no further harvesting shall be conducted.
- [] **Partial Completion Report.** On (date): _____ all work on a part of the plan as shown on the attached map was completed. Additional harvesting is anticipated on the remaining portion of the logging area. **Only one partial completion report may be accepted by the CDF during any calendar year.**
- [] **NTMP-NTO Completion Report.** On (date): _____ all work on this NTO was completed for this calendar year. Additional harvesting is anticipated in following years.
- [] **EX Completion Report.** On (date): _____ all work on this Less Than Three Acre Conversion Exemption was completed. No stocking report is required.
- [] **TCP Completion Report.** On (date): _____ all work on this Timberland Conversion Permit was completed. No stocking report is required.

Stocking Report: The area declared as complete in this report or a previously approved completion report meets all of the stocking requirements of the Forest Practice Act and rules of the Board of Forestry and Fire Protection. The stocking status after completion of timber operations was determined by:

- [] One of the sampling procedures adopted by the Board of Forestry and Fire Protection. The identification of the person sampling, plot data, and a map of the area sampled are attached.
- ☒ Physical examination of the area by the timber owner or the agent thereof after completion of timber operations determined that the area's stocking obviously meet the requirements of the Forest Practice Rules and a waiver of stocking sampling is requested.
- [] As stated in the harvest document, the area was **substantially damaged** as per 14 CCR 1080.1, and only dead, down, or dying trees were salvaged; or the Site Class is IV or V, hence no restocking is required.

NOV 23 2004

Resource Protection
Henderson Unit

Department of Forestry and Fire Protection
COMPLETION AND/OR STOCKING REPORT
Page Two of Three

Harvest Document Number: 1-98-415 M

RECEIVED

NOV 15 2004

This is a stocking report for the:

- ☒ Entire operating area covered by the harvest document.
☐ Entire operating area covered by this completion report, or the completion report previously submitted on (date): _____
☐ Part of the operating area for which this completion report is submitted.

COAST AREA OFFICE
RESOURCE MANAGEMENT

A map indicating the area completed (if the actual area harvested is less than approved) and/or stocked must be submitted with this report. Additional information can be found in the instruction pages of this form.

Signature

Date

Print Name

Address

City, State, and Zip Code

Telephone Number (with Area Code)

RPF License Number, if appropriate

11/11/04 CHARLES HATT
P.O. Box 595 BOONVILLE CA 95415
707 895 2403

DIRECTOR'S CERTIFICATION

Report In Conformance

- ☐ The Director has determined that all of the requirements of the Forest Practice Act and rules of the Board of Forestry and Fire Protection have been completed except stocking for the area described in this report. Erosion control maintenance is required for at least one year following the submission of this report, or until stocking is met, whichever is later, and it may be extended to three years.
- ☐ The area described by this report has been found to meet all of the requirements of the Forest Practice Act and forest practice rules including stocking as shown on the attached map. Erosion control maintenance is required for at least one year following the submission of this report, or until stocking is met for the entire area of the harvest document, whichever is later, and it may be extended to three years.
- ☒ The area described by this report has been found to meet all of the requirements of the Forest Practice Act and forest practice rules including stocking for the entire area as shown on the THP (or other harvest document) Map. Erosion control maintenance is required for at least one year following the submission of this report, and it may be extended to three years.

Report Not In Conformance

- ☐ The area described by this report has been found not to be in compliance with the Forest Practice Act and forest practice rules. See attached documents for further information. A new completion and/or stocking report must be submitted upon completion of the work required in the documents attached.
- ☐ The Director has determined that the stocking requirements of the Forest Practice Act and forest practice rules have not been met. See attached documents for further information. A new completion and/or stocking report must be submitted upon completion of the work required in the documents attached.

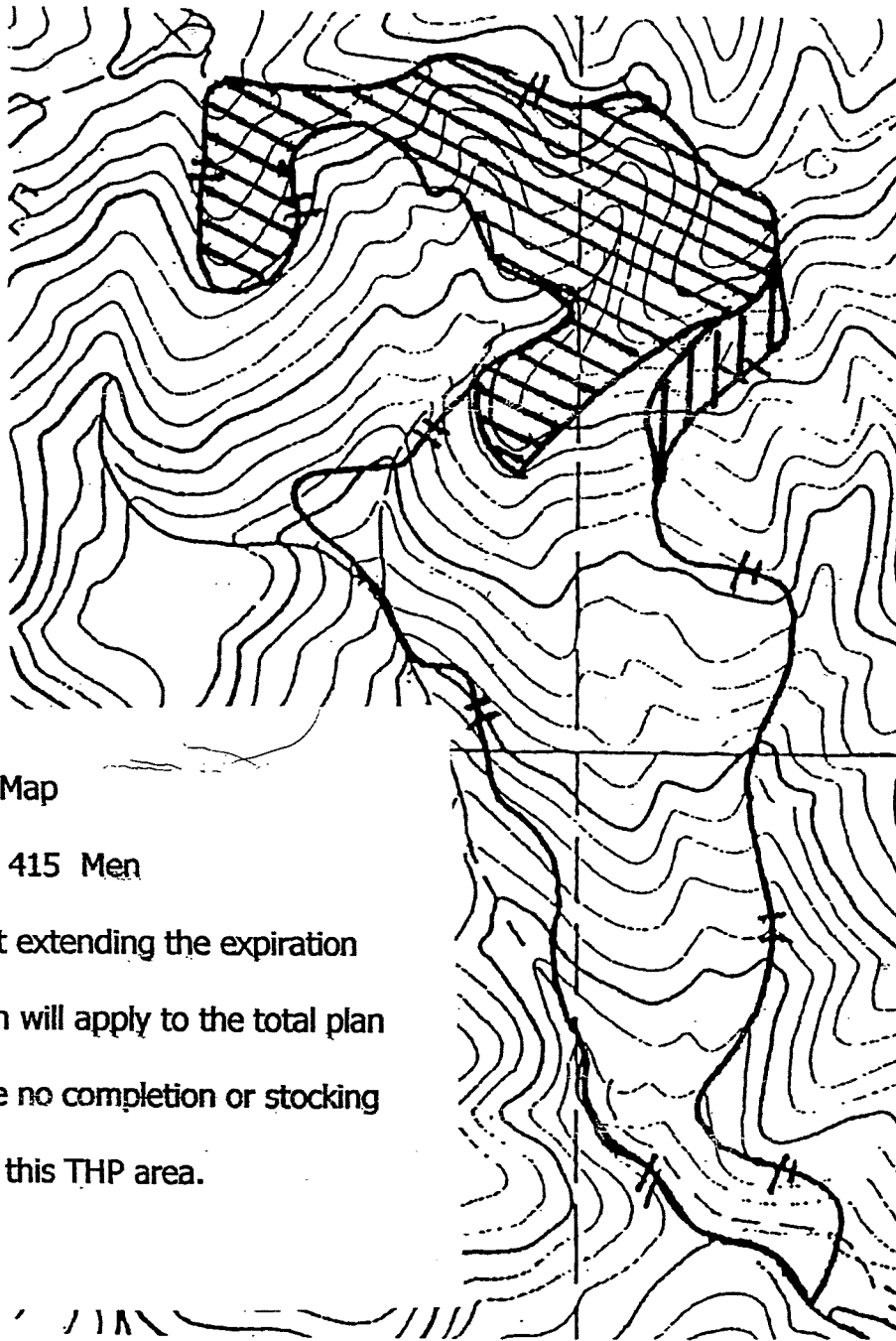
MAP TO ACCOMPANY
TIMBER HARVEST PLAN
Yale Creek #2
1998

PLAN ADDENDUM

NOV 20 1998

T 12 N

R 13 W



Time Extension Map

THP 1- 98- 415 Men

The amendment extending the expiration
Date of this plan will apply to the total plan
Area. There are no completion or stocking
reports filed for this THP area.

LEGEND

Area Boundary.....

Culture:

Native Prescription.....

ion.....

itation.....

is 1" = 500'



ALL THP AREA
IS COMPLETED

RECEIVED

NOV 15 2004

COAST AREA OFFICE
RESOURCE MANAGEMENT

RECEIVED

JAN 28 2002

COAST AREA OFFICE
RESOURCE MANAGEMENT



North

