

# **Staff Report to the Planning Commission**

Application Number: 99-0805

Applicant: Jim Hildreth, RFPAgenda Date: November 10,2004

**Owner:** Lincoln and Robin Holland **Agenda Item #**: **7 APN:** 105-221-04,107-061-15 and 107-561-01 **Time:** After 9:00 a.m.

**Project Description:** Proposal to rezone a single lot of record with three Assessor's ParcelNumbers (105-221-04, 107-061-15 and 107-561-01) from the Special Use (SU) and Agriculture (A) zone districts to the Timber Production (TP) zone district.

**Location:** The property is located on the southeast side of Bean Hill Road at the intersection of Bean Hill and Bean Hill Orchard Roads, Aptos.

**Supervisoral District:** 2<sup>nd</sup> District (District Supervisor: Pine)

Permits Required: Rezoning

### **Staff Recommendation:**

- Adopt the Resolution **sending** a recommendation to the Board of Supervisors for approval of Application 99-0805 based on the attached findings.
- Recommend certification that the proposal is statutorily exempt from further Environmental Review under the California Environmental Quality Act.

### **Exhibits**

A.	Findings	F.	Assessor's Parcel Map
B.	Statutory Exemption (CEQA)	G.	Zoning & General Plan Maps
C.	Resolution	H.	Timber Resource Map
D.	Agreement & Declaration	I.	Timber Management Plan
E.	Location Map		

### **Parcel Information**

Parcel Size: 256.4 acres

Existing Land Use - Parcel: Vacant rural land, timberland, meadowlands Existing Land Use - Surrounding: Rural residential, timberland, agriculture

Project Access: Bean Hill Road (northern end) Cox Road (southern end)

Planning Area: Aptos Hills

County of Santa Cruz Planning Department 701 Ocean Street, 4th Floor, Santa Cruz CA 95060

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Owner. Lincoln and Robin Holland

Land Use Designation:

R-M (Mountain Residential)

Zone District:

SU, A (Special Use, Agriculture)

Coastal Zone:

\_\_ Inside \_XX Outside

### **Environmental Information**

Geologic Hazards:

Mapped suspected landslides

Soils:

Ben Lomond, Ben Lomond-Felton complex, Lompico-Felton

complex, Nisene-Aptos complex

Fire Hazard:

Areas within a mapped constraint

Slopes:

Level = 75+%

Env. Sen, Habitat:

Riparian – Valencia Creek

Grading:

Existing roads and timber landings Future Timber Harvest proposed

Tree Removal: Scenic:

Not located within a mapped resource

Drainage:

No changes to existing drainage patterns

Traffic: Roads:

NIA NIA

Parks:

NIA

Archaeology:

Not mapped

### Services Information

Urban/Rural Services Line:

\_\_ Inside XX Outside

Water Supply:

Private well - currently undeveloped

Sewage Disposal:

Septic - currently undeveloped

Fire District:

California Department of Forestry/County Fire

Drainage District:

Zone 7

### History

On December 8,1999, the County Planning Departmet accepted this application for rezoning an existing lot of record (with three Assessor's Parcel Numbers) totaling about 256 acres from the Special Use and Agriculture zone districts to Timber Production. The California State Government Code Section 51113 and County Code Section 13.10.375(c), **zoning** to the TP district specify the **six** criteria, which must be met in order to rezone to TP. **This** project qualifies for a statutory exemption (ExhibitB) in accordance **with** the California Environmental Quality Act and the County Environmental Review Guidelines (Article 17, Section 1703).

### Project **Setting**

The subject property is located in the Aptos Hills area and is undeveloped. The property has a history of timber harvesting and timber management activities. The property was clear cut in the late 1800'sto early 1900's. The property has subsequently been selectively harvested in 1976 under a County issued Timber Harvest Permit (THP) and again between 1988 and 1989 under the CDF issued THP 1-88-202 SCR. Future timber harvesting would utilize the existing system of logging

**Application #: 99-0805** 

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roads and landings.

The property forms the headwaters of the **east** branch of Valencia Creek. Valencia Creek transitions through the property **from an** ephemeral to intermittent stream, then into a perennial stream. Valencia Creek provides spawning and rearing habitat for Southern steelhead trout (*Oncorhynchus mykiss irideus*) - a Federally listed threatened species. **The** property is predominantly redwood forest with areas of *oak* woodlands and meadows.

### **Zoning & General Plan Consistency**

The subject parcel has a 1994 General Plan land use designation of Mountain Residential. The property is currently split zoned Special Use and Agriculture. The Special Use, Agriculture and Timber Production zoning districts all implement the Mountain Residential General Plan designation, as specified in Section 13.10.170 of the County Code.

Valencia Creek meets the definition of Sensitive Habitat under General Plan policy 5.1.2(c) through (f), (i) and (j). General Plan policy 5.1.4 states "implement the protection of sensitive habitats by maintaining the existing Sensitive Habitat Protection ordinance" (this ordinance is Chapter 16.32 of the County Code). In addition, General Plan policy 5.1.6 states that sensitive habitats shall be protected against any significant disruption of habitat values; any proposed development within or adjacent to these areas must maintain or enhancethe functional capacity of the habitat. Projects must be reduced in scale, redesigned, mitigated or, if no alternative exists, denied. Policy 5.1.7 includes the following language, "Protect sensitive habitats against any significant disruption or degradation of habitat values in accordance with the Sensitive Habitat Protection ordinance." The Sensitive Habitat Protection ordinance's definition of development includes the following "the removal or harvesting of major vegetation other than for ... timber operations which are in accordance with a timber harvesting plan submitted pursuant to the provisions of the Z'berg-Nejedly Forest Practice Act of 1973; the disturbance of any rare, endangered, or locally **unique** plant or animal or its habitat". Thus, timber harvesting under a CDF Timber Harvest Permit is specifically exempted from the regulations of Chapter 16.32. Nevertheless, as timber harvesting is not allowed under the subject parcels' current zoning, the proposed rezoning must be analyzed with respect to and found in conformance with the County's General Plan policies for protecting the County's biological resources.

The property owners have entered into an Agreement with the County of Santa Cruz setting limitations on certain timber harvesting activities on **the** subject property, resolving the aforementioned conflicts between timber harvesting activities and the County's General Plan. Specifically, the property owners have agreed to a "no cut zone" within 30 feet of the ephemeral to intermittent portions of Valencia Creek and within 50 feet of the perennial portions. **This** no cut zone is consistent with the County's riparian corridor protection policies and corridor widths for the respective stream classifications. This undisturbed area will also provide adequate protection for **this** sensitive biotic habitat consistent with the County's SensitiveHabitat protection policies. Somecable yarding will be necessary to harveston the steeper areas of the property. Generally, the yarding operations probably will not require tree trimming or removal within the riparian corridor, nevertheless the property owners have agreed to obtain Riparian Exception Permits from the County of Santa **Cruz** if **the** removal and trimming of trees within the riparian setback proves necessary to create the cable corridors. The Riparian Exception permit would be a staff level review and would ensure corridor widths are minimized. These measures would provide adequate protection for this sensitivehabitat consistent with the County's Sensitive Habitat protection policies and is the superior solution to new road construction.

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Owner: Lincoln and Robin Holland

In accordance with California State Government Code Section 51 113 and County Code Section 13.10.375, Special Standards and Conditions for the Timber Production (TP) District, the project meets the following six criteria for rezoning to Timber Production:

- 1. A map has been submitted with the legal description or assessor's parcel number of the properties to be rezoned (Exhibit F).
- 2. **A** Timber Management Plan, prepared by a registered professional forester has been submitted for the property (Exhibit I). The Timber Management Plan has been reviewed and accepted by **the** Planning Department as meeting **minimum** standards.
- 3. The property currently meet the timber stocking standards as set forth in Section 4561 of the Public Resources Code and the Forest Practice Rules for **the** district in which the property is located.
- **4.** The property is timberland, as it is capable of producing a minimum of 15 cubic feet of timber per acre annually, and a significant portion is within a mapped timber resource area.
- 5. The uses on the parcels are in compliance with *the* Timber Production Zone **uses** set forth in Section 13.10.372.
- 6. The land area to be rezoned is in the ownership of one person, as defined in Section 38106 of the Revenue and Taxation Code, and is comprised of at least five acres in area.

### Conclusion

All of the criteria have been met for rezoning the subject parcels to the Timber Production zoning designation. All required findings can be **made** to approve this application and **the** rezoning is consistent with the General Plan policies and land **use** designations pursuant to California State Government Code Section 51113 and County Code Section 13.10.375 and subject to the Agreement (Exhibit D). Please see Exhibit A ("Findings") for a complete listing of findings and evidence related to the above discussion.

### **Staff Recommendation**

- Adopt the Resolution (**Exhibit** C), sending a recommendation to the Board of Supervisors for approval of Application 99-0805 based on the attached findings.
- Recommend certification that **the** proposal is statutorily **exempt** from **further Environmental** Review under the California Environmental Quality Act.

Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the administrative record for the proposed project.

The County Code and General Plan, as well as hearing agendas and additional information are available online at: <a href="https://www.co.santa-cruz.ca.us">www.co.santa-cruz.ca.us</a>

Report Prepared By:

Cathleen Carr

Santa Cruz County Planning Department

Athleen Carr

**701** Ocean Street, 4th Floor Santa Cruz CA 95060

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Report Reviewed By:

Cathy Graves Principal Planner Development Review Application # 99-0805 APN: 105-221-04,107-061-15 and 107-561-01 Owner:Lincoln and Robin Holland

## **REZONING FINDINGS**

1. THE PROPOSED ZONE DISTRICT WILL ALLOW A DENSITY OF DEVELOPMENT AND TYPES OF USES WHICH ARE CONSISTENT WITH THE OBJECTIVES AND LAND-USE DESIGNATIONS OF THE ADOPTED GENERAL PLAN; AND,

The rezoning will allow a density of development and **types** of uses, which are consistent with the objectives and the land use designations of Mountain Residential. The uses will more closely conform with the General Plan as a result of the zoning of a large property (with three parcel numbers) which contains timber resources meeting the timber stocking standards, and has a substantial area designated as a mapped timber resource.

Valencia Creek meets the definition of Sensitive Habitat under General Plan policy 5.1.2(c) through (f), (i) and (j). General Plan policy 5.1.4 states "implement the protection of sensitive habitats by maintaining the existing Sensitive Habitat Protection ordinance" (this ordinance is Chapter 16.32 of the County Code). In addition, General Plan policy 5.1.6 states that sensitive habitats shall be protected against any significant disruption of habitat values; any proposed development within or adjacent to these areas must maintain or enhance the functional capacity of the habitat. Projects must be reduced in scale, redesigned, mitigated or, if no alternative exists, denied. Policy 5.1.7 includes the following language, "Protect sensitive habitats against any significant disruption or degradation of habitat values in accordance with the Sensitive Habitat Protection ordinance." The Sensitive Habitat Protection ordinance's definition of development includes the following "the removal or harvesting of major vegetation other than for ... timber operations which are in accordance with a timber harvesting plan submitted pursuant to the provisions of the Z'berg-Nejedly Forest Practice Act of 1973; the disturbance of any rare, endangered, or locally unique plant or animal or its habitat". Thus, timber harvesting under a CDF Timber Harvest Permit is specifically exempted from the regulations of Chapter 16.32. Nevertheless, as timber harvesting is not allowed under the subject parcels' current zoning, the proposed rezoning must be analyzed with respect to and found in conformance with the County's General Plan policies for protecting the County's biological resources.

In order to provide the highest level of protection of these resources, the property owners have entered into an Agreement with the County of Santa Cruz setting limitations on certain timber harvesting activities on the subject parcels, resolving the aforementioned conflicts between timber harvesting activities and the County's General Plan. Specifically, the property owners have agreed to a general "no cut zone" within 30 feet of the ephemeral to intermittent portions of Valencia Creek and within 50 feet of the perennial portions. These no cut zones are consistent with the County's riparian corridor protection policies and corridor widths for the respective stream classifications. This undisturbed area will also provide adequate protection for this sensitive biotic habitat consistent with the County's Sensitive Habitat protection policies. Some cable yarding will be necessary to harvest on the steeperareas of the property. Generally, the yarding operations probably will not require tree trimming or removal within the riparian corridor, nevertheless the property owners have agreed to obtain Riparian Exception Permits from the County of Santa Cruz if the removal and trimming of trees within the riparian setback proves necessary to create the cable corridors. The Riparian Exception permit would be a staff level review and would ensure corridor widths are minimized. These measures would provide adequate protection for this sensitive habitat consistent with the County's Sensitive Habitat protection policies and is the superior solution to new road construction.

With this agreement, the proposed rezoning will conform with the General Plan's policies for the

Owner:Lincoln and Robin Holland

protection of sensitive habitat and riparian corridors.

2. THE PROPOSED ZONE DISTRICT IS APPROPRIATE OF THE LEVEL OF UTILITIES AND COMMUNITY SERVICE AVAILABLE TO THE LAND; AND,

The proposed TP zone district is appropriate to the level of utilities and community services available to the parcel. The subject property is accessed at the northwestern boundaries via Bean Hill Cox Road. The property is located outside of the Urban Services Line and is, therefore, rural in nature.

3. THE PROPOSED REZONING IS NECESSARY TO PROVIDE FOR A COMMUNITY RELATED USE WHICH WAS NOT ANTICIPATED WHEN THE ZONING PLAN WAS ADOPTED.

The proposed rezoning is necessary to provide for a community related use - timber harvesting and timberland management. Timber harvesting was permitted in the SU and A zone districts in the past in certain circumstances under the jurisdiction of the County and later under the sole authority of the California Department of Forestry. Moreover, the subject property was selectively harvested in 1976 under a County issued Timber Harvest Permit (THP) and again between 1988 and 1989 under the CDF issued THP 1-88-202 SCR. Presently, timber harvesting is only allowed within the Timber Production, Parks and Recreation and Mineral Extraction zone districts and the CA zone district outside of the Coastal Zone. The subject property contains timber stands exceeding the timber stocking standards, and a significant area of the property is located within amapped timber resource area. The rezoning will allow the continuation of harvesting and management of the timberlands on the subject property.

# CALIFORNIA ENVIRONMENTAL QUALITY ACT NOTICE OF EXEMPTION

The Santa Cruz County Planning Department has reviewed the project described below and has determined that it is exempt from the provisions of CEQA as specified in Sections 15061 - 15332 of CEQA for the reason(s) which have been specified in this document.

Application Number: 99-0805
Assessor Parcel Number: 105-221-04,107-061-15 and 107-561-01 Project Location: No Situs
Troject Location. No Situs
Project Description: Proposal to rezone a single lot of record with three Assessor's ParcelNumbers (105-221-04, 107-061-15 and 107-561-01) from the Special Use (SU) and Agriculture (A) zone districts to the Timber Production (TP) zone district.
Person or Agency Proposing Project: Jim Hildreth, RPF
Contact Phone Number: <b>(831) 464-1196</b>
A The proposed activity is not a project under CEQA Guidelines Section 15378.  The proposed activity is not subject to CEQA as specified under CEQA Guidelines Section 15060(c).
C. <u>Ministerial Project</u> involving only the use of fixed standards or objective measurements without personal judgment.
D. XXX Statutory Exemption other than a Ministerial Project (CEQA Guidelines Section 15260 to 15285).
Specify type: Specify type: Article 17, Section 1703. Timberland Preserves
E Categorical Exemption
Specify type:
F. Reasons why the project is exempt:
Date:
Cathleen Carr, Project Planner

# BEFORE THE PLANNING COMMISSION OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

	RESOLUTION NO
	On the motion of Commissioner duly seconded by Commissioner the following Resolution is adopted
	PLANNING COMMISSION RESOLUTION INDING RECOMMENDATION TO THE BOARD OF SUPERVISORS ON PROPOSED AMENDMENT TO THE ZONING ORDINANCE
99-0805, inv Bean Hill an	EREAS, the Planning Commission has held a public hearing on Application No. olving property located on southeast side of Bean Hill Road at the intersection of d Bean Hill Orchard Roads, Aptos, and the Planning Commission has considered rezoning, all testimony and evidence received at the public hearing, and the freport.
that the Boar changing pro	V, THEREFORE, BE IT RESOLVED, that the Planning Commission recommends of Supervisors adopt the attached ordinance amending the Zoning Ordinance by operties from the "SU" Special Use and "A" Agriculture zone district to the "TP" auction zone district.
	Γ FURTHER RESOLVED, that the Planning Commission makes findings on the oning as contained in Exhibit A of the Report to the Planning Commission dated
	0,2004.
November 10 PASS	
November 10 PASS	SED AND ADOPTED by the Planning Commission of the County of Santa Cruz,
PASS State of Calif AYES: NOES: ABSENT	SED AND ADOPTED by the Planning Commission of the County of Santa Cruz, fornia, this 10 <sup>th</sup> day of November, 2004, by the following vote:  COMMISSIONERS COMMISSIONERS COMMISSIONERS
PASS State of Calif  AYES: NOES: ABSENT ABSTAIN:	SED AND ADOPTED by the Planning Commission of the County of Santa Cruz, fornia, this 10 <sup>th</sup> day of November, 2004, by the following vote:  COMMISSIONERS COMMISSIONERS COMMISSIONERS COMMISSIONERS

COUNTY COUNSEL

## AGREEMENT CONCERNING APPLICATION FOR REZONE TO TIMBER PRODUCTION ZONE DISTRICT

The County of Santa Cruz ("County") and Lincoln David Holland and Robin Carol Holland ("Owners") agree as follows:

- 1. **The** County and **Owners** enter into this Agreement Concerning Application for Rezone to Timber Production Zone District ("Agreement") on the basis of the following facts, understandings, and intentions:
- A. Owners are the owners of certain real property, totaling approximately <u>256</u> acres (<u>APN</u> <u>105-221-04. 107-061-15</u> and <u>107-561-01</u>) ("Property"? located on the <u>southeast side of Bean Hill Road at the</u> intersection of Bean Hill and Bean Hill Orchard Roads. Autos.
  - B. The Property is currently zoned <u>SU (Special Use)</u> and A (Agriculture).
- C. On December 8.1999, Owners submitted an application, including a timber management plan ("TMP"), to the County to rezone the Property to a Timber Production ("TP") zone district.
- D. In December 1998, litigation was filed against the County which included, among other claims, a challenge to the criteria that the County may consider in reviewing applications to rezone property to a TP zone district. The litigation is corrently pending in the California Court of Appeal (Big Creek. et al. v. County of Santa Cruz, Civil No. H023778).
- E. It is the County's position that it is required by state law to ensure that all zoning decisions, including rezoning property to a TF zone district, are consistent with the policies set forth in the County's General Plan and Local Coastal Program Land Use Plan ("General Plan/LCP") and that it has the authority to deny TP rezone applications where necessary to ensure such consistency. Given that the County's authority in this area is currently at issue in pending litigation before the Court of Appeal, the County, in order to avoid the potential for duplicative additional litigation, has refrained from acting on rezone applications that present clear conflicts with its General Plan/LCP pending a final judicial decision.
- **F.** The County Planning Department has determined that rezoning the Property to **the** TP zone district would, at a minimum, create the following potential conflicts between timber harvesting on the

property and the designated County General Plan/LCP policies:

- **5.***I Biological Diversity*
- 5.1.6 Development within Sensitive Habitats
- 5.1.7 Site **Design** and UseRegulations
- 5.2 Riparian Corridors and Wetlands
- **5.2.2**Riparian Com'dor and Wetland Protection Ordinance
- **5.2.3** *Activities Within Riparian Corridors and Wetlands*
- **5.2.4**Riparian Corridor Buffer Setback
- 5.2.7 Compatible Uses with Riparian Corridors

Yalencia Creek is classified as an intermittent toperennial stream on the subject property. In addition, there are three ephemeral to intermittent tributaries to Yalencia Creek on the property. Yalencia Creek provides spawning and rearing habitat to Steelhead trout, a Federally listed as Threatened specie. Timber harvesting activities could conflict with the County's riparian and sensitive habitat protection General Planpolicies. The removal of trees within the 50-foot riparian corridor of the perennial portions of Yalencia Creek and the 30-foot riparian corridor of the ephemeral to intermittent stream channels could damage downstreams almonid habitat through increased water temperatures through loss of shade. Moreover, the site disturbance resulting from timber harvesting activities can increase erosion, resulting in increased turbidity and sedimentation within the stream, thereby degrading in stream water quality and aquatic habitats. The preferred method of timber harvesting in some locations of this property is cable yarding in areas of very steep topography. This method minimizes road construction and ground disturbance and eliminates the need to construct a bridges across stream channels. Nevertheless, this method may require some tree trimming and removal within the riparian corridor to create cable corridors.

- G. Owners seek to have the County rezone the Property to a TP zone district prior to the issuance of the Court of Appeal decision in the <u>Big Creek</u> litigation so that they may proceed at their discretion to obtain all required approvals to timber harvest the Property and obtain any tax benefit resulting from the rezone.

  Owners further desire to ensure that future timber harvesting on the Property is consistent, to the extent feasible, with the County General Plan/LCP.
- H. The County seeks to ensure that it complies with state law by approving an application to rezone the Property to TP only where the rezone would be consistent with the policies set forth in its General Plan/LCP.

- I. Both Owners and the County seek to avoid the expense and **risks** inherent in litigation and to permit the rezone to go forward in a manner that is mutually satisfactory and beneficial to both parties.
- J. In <u>July of 2004</u>, Owners initiated a series of discussions with the County Planning Department to discuss whether the identified potential General Plan/LCP inconsistencies could be resolved by an agreement regarding any future timber harvesting on the Property.
- **K.** After extensive discussions, **Owners** and the County have agreed to enter **into** this Agreement and to comply with the terms and conditions set forth herein, including the timber harvesting conditions set forth in paragraph 8, below, which they believe are just, fair and adequate.
- 2. Owners shall promptly submit a revised TMP to the County that complies with the timber harvesting conditions set forth in paragraph 8, below.
- 3. Owners shall execute and provide the County with the notarized **original** of the Declaration of Restrictions attached hereto and incorporated herein **as** Exhibit A, which includes the timber harvesting conditions that shall govern all future timber harvesting operations on the Property.
- **4.** The County, after receipt of the revised TMP, shall promptly review the TMP to determine its consistency with the provisions of **this** Agreement. Once the County determines that the revised TMP fully complies with the terms of this Agreement, the County shall notice a public hearing before the Planning Commission to consider Owners' application to rezone the Property to TP.
- 5. The Planning Department staff shall diligently seek to procure approval of Owners' rezone application. Nothing herein contained, however, shall be deemed to restrict the discretion of the Planning Commission or, if an appeal is filed, the Board of Supervisors to consider such matters as may be appropriate, to propose modifications to this Agreement, or to deny the rezone application.
- 6. The parties to **this** Agreement shall **make** every effort and shall cooperate diligently to have all proceedings before the Planning Commission and any proceedings before the Board of Supervisors with regard to the rezone application concluded expeditiously
  - 7. If the County does not approve Owners' application to rezone the Property to TP in accordance

with the terms set forth in this Agreement, then, 1) this Agreement shall have no further force or effect and shall be deemed terminated; and 2) the Declaration of Restrictions executed by Owners shall have no further force or effect, shall be deemed terminated, and shall not be filed with the Office of the County Recorder of the County of santa Cruz.

- 8. If the County approves the application to rezone the Property to TP, then the County shall file the Declaration of Restrictions with the Office of the County Recorder of the County of Santa Cruz. In addition, Owners agree that any Timber Harvest Plan ("THP") application that they submit to the California Department of Forestry ("CDF") to conduct timber harvesting on the Property at any time during which the Property is zoned TP or is in a zone district in which commercial timber harvesting is permitted under County law shall, at a minimum, include and be consistent with the timber harvesting conditions set forth below:
  - a. Prior to commencement & timber harvest operations under an approved Timber Harvest Permit, the owner shall obtain a Riparian Exception Permitfrom the County of Santa Cruzfor all tree removal and trimming for the cable corridors across the creek channel and within 30 feet of the edge of the mean high water mark for the stream. All workshall be completed in conformance with the conditions & the Riparian Permit.
  - b. Timber harvesting and/or tree removal isprohibited within **50** feet of perennial portions of Valencia Creek and within 30 feet of the ephemeral to intermittent portions of Valencia Creek and its tributaries with the following exceptions:

Tree(s) posing an imminent hazard to public health and safety may be removed. However, any such tree located within 50 feet & Valencia Creekshall requirea Riparian Exception Permit prior to removal.

Trees removed for cable corridors under an approved Riparian Exception in accordance with condition a. above.

- c. Nothing contained in this Agreement shall be deemed to restrict the discretion of the CDF or to preclude CDF, in approving a THP for the Properly, from imposing conditions on the THP that are more restrictive on timber harvesting than the terms set forth in this Agreement.
- 9. This Agreement shall run with the Property and be binding upon the parties hereto, and their respective employees, counsel, agents, successors and assigns.
- 10. Each signatory hereto represents that he or she is authorized to execute this Agreement so as to bind *the* parties on whose behalf he or she is a signatory. The parties have read **and** understand the terms **of this**

Agreement. Each party is fully aware of the contents of this Agreement and its legal effect, although Ownershave chosen not to be represented by counsel in their negotiations for, and in the preparation of, this Agreement.

- 11. **This** Agreement constitutes the entire agreement between the parties and all other prior agreements or understandings, written or oral, are merged into and superseded by the terms of **this** Agreement, which may not be altered, modified, or otherwise changed excepted by a writing signed by the duly authorized representatives of the parties to this Agreement.
- 12. Owners and the County shall reasonably cooperate with one another in order to effectuate the purposes of this Agreement. The parties to this Agreement shall attempt in good faith to resolve **through** negotiation any dispute, claim or controversy regarding the interpretation or application of **this** Agreement. Either party may initiate negotiations by providing written notice in letter **form** to the party from whom relief is requested, setting forth the subject of the dispute and the relief requested. The recipient of such notice shall respond within five **days** with a written statement of its position **on**, and recommended solution **to**, the dispute. If the dispute is not resolved by this exchange of correspondence, then representatives of the parties shall meet at a mutually agreeable *time* and place (either in person or by telephone) within ten days of the date of the initial notice in order to exchange relevant information and perspectives, and to attempt to resolve the dispute.
- 13. Any written communications concerning this Agreement *shall* be delivered to the parties at the addresses set forth below:

county of santa Cruz:

Planning Director Planning Department 701 Ocean Street, 4<sup>th</sup> Floor Santa Cruz, CA 95060

owners:

Lincoln David and Robin Carol Holland *330* La Mesa Drive Portola Valley, CA 94028

These addresses may be modified by written notification to the other party.

14. This Agreement shall be interpreted and construed in the manner best calculated to carry out its

purposes of achieving the objectives set forth in paragraph 1, subparagraphs G, H, and I, above.

- 15. This Agreement shall become effective on the date that it is signed by the signatories set forth below.
- 16. This Agreement shall be signed by the parties below and may be executed in separate counterparts.

DATED:	9)	3/04
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By Mich Dard Haller Lincoln David Holland

By Robin Carol Holland
Robin Carol Holland

DATED:	
DALLED.	

COUNTY OF SANTA CRUZ, et al.

By\_\_\_\_\_\_\_ Chair, Board of Supervisors

APPROVED AS TO FORM:

ASSISTANT COUNTY COUNSEL

[99-0805TP rezone agreement.wpd]

Recording requested by:

### COUNTY OF SANTA CRUZ

When recorded, return to:

Santa Cruz County Planning Department 701 Ocean Street Santa Cmz, CA 95060 Attn: Cathleen Carr

RE: APN 105-221-04,107-061-15and 107-561-01

### **DECLARATION OF RESTRICTIONS**

### RECITALS

A. THIS DECLARATION is made in the County of Santa Cruz, State of California, effective date
shown below, by Lincoln David Holland and Robin Carol Holland ("Declarants"), owners of real properly
described in Exhibit "A" attached hereto and incorporated herein by reference ("Subject Property")
Declarants enter into this Declaration for the purpose of complying with the Agreement Concerning
Application for Rezone to Timber Production Zone District entered into between the Declarants and the
County of Santa Cruz ("County") on("Agreement").

- Declarantsapplied to rezone the SubjectProperty to a Timber Production ("TP") zone district so that they could conduct timber harvesting on the Subject Property. The County Planning Department determined that timber harvesting on the Subject Property created potential conflicts with the County's General Plan and Local Coastal Program Land Use Plan ("General Plan/LCP"). The Agreement provides, in part, that if the County approved the rezone to TP, Declarants agreed to a number of conditions regarding the manner of harvesting the timber on the Subject Property that would reduce or eliminate the potential General Plan/LCP conflicts. The Agreement states that the Timber Harvest Plan ("THP"), which Declarants must submit to the State in order to conduct timber harvesting on the Subject Property, must include these conditions.
  - The County entered into the Agreement because, among other reasons, it concluded that the Agreement's conditions on timber harvesting reduce or eliminate the potential conflicts that the rezoning would create with the General Plan/LCP and therefore benefit the public at large and, more specifically, the property owners and residents in proximity to the Subject Property, while permitting Declarants to achieve the benefits of rezoning to the TP zone district and to comply with the General Plan/LCP.
    - D. For purposes of this Declaration, the pertinent provisions of the Agreement are as follows:
  - 1. Paragraph 8 provides that if the County approves the application of Declarants to rezone the Subject Property to TP, Declarants agree that any THP application that they submit to the California Department of Forestry to conduct timber harvesting on the Subject Property shall, at a minimum, include and be consistent with the terms set forth in the remainder of Paragraph 8.

#### RESTRICTIONS

Declarants, in consideration of the County's approval of the rezone of the Subject Property to TP, a zone designation in which timber harvest operations are permitted and which benefits the Subject Property, and to comply with the terms of the Agreement, hereby declare that all of the Subject Property shall be held, transferred, sold, and conveyed subject to the following restrictions and conditions for the protection and benefit of the County and of the public at large:

- 1. <u>Covenant Running</u> with the <u>Land</u>. Declarants covenant and agree to restrict, and by this instrument do restrict, the <u>future</u> use of the Subject Property as set forthbelow by the establishment of this covenant which shall run with the title <u>to</u> the Subject Property and be binding on all parties having or acquiring any right, title or interest in the Subject Property or any part thereof, their heirs, assigns and any other transferees and successors and shall apply to each owner thereof, while each such owner owns an interest in the subject property.
- 2. <u>Use of the Subject Property</u>. Neither Declarants nor any other person shall conduct any commercial timber harvesting operations on **the** Subject Property inconsistent with the terms of the Agreement. In particular, the following timber harvesting conditions, set forth in paragraph 8 of the Agreement, shall govern future timber harvesting on the Subject Property:
  - a. Prior to commencement & timber harvest operations under an approved Timber Harvest Permit, the ownershall obtain a Riparian Exception Permit from the County & Santa Cruzfor all tree removal and trimming for the cable com'dors across the creek channel and within 30 feet of the edge & the mean high water mark for the stream. All work shall be completed in conformance with the conditions & the Riparian Permit.
  - b. Timber harvesting and/or tree removal is prohibited within 50 feet & perennial portions of Valencia Creek and within 30 feet & the ephemeral to intermittent portions & Valencia Creek and its tributaries with the following exceptions:

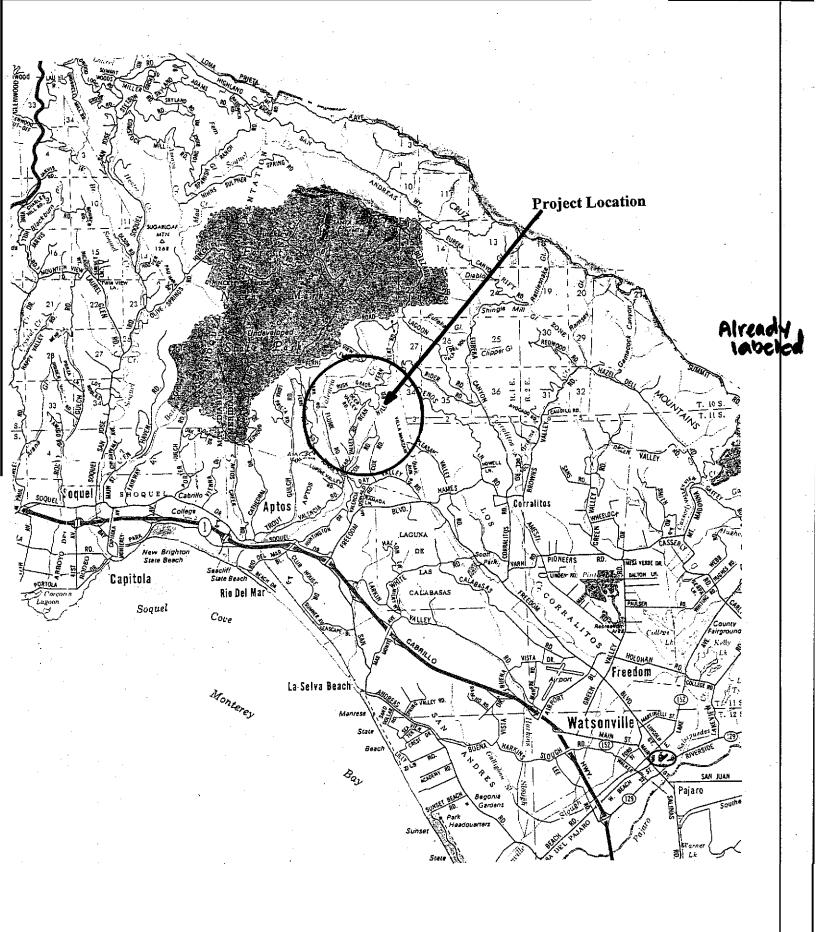
Tree(s) posing an imminent hazard to public health and safety may be removed. However, any such tree located within **50** feet & Valencia Creek shall require a Riparian Exception Permit prior to removal.

Trees removed for cable corridors under an approved Riparian Exception in accordance with condition a, above.

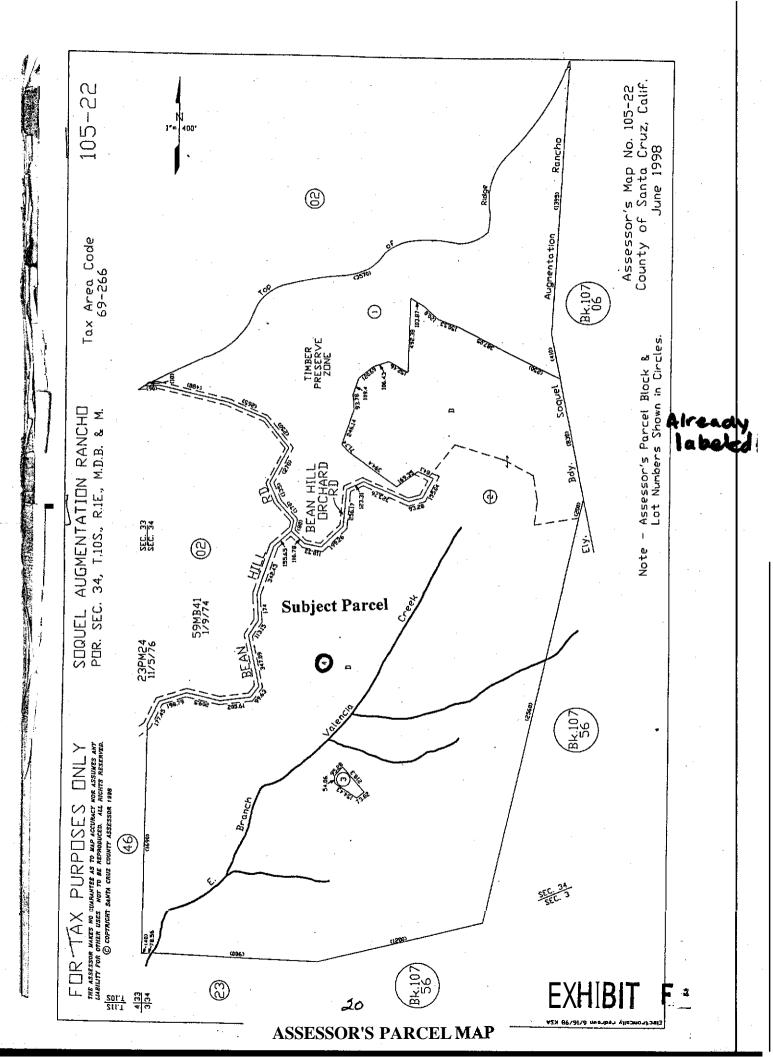
- c. Nothing contained in this Agreement shall be deemed to restrict the discretion **d** the CDF or to preclude CDF, in approving a THP **for** the Property+from imposing conditions on the THP that are more restrictive on timber harvesting than the terms set forth in this Agreement.
- **3.** <u>Term.</u> This Declaration shall commence on the effective date shown below and remain in full force and effect in perpetuity at all times during which the Subject Property is zoned TP or is in a zone district in which commercial timber harvesting is permitted under County law.
- **4.** <u>No Dedication: No Rights of Public Use</u>. The provisions of this Declaration do not constitute a dedication for public **use**, or a conveyance of an interest in the Subject Property.

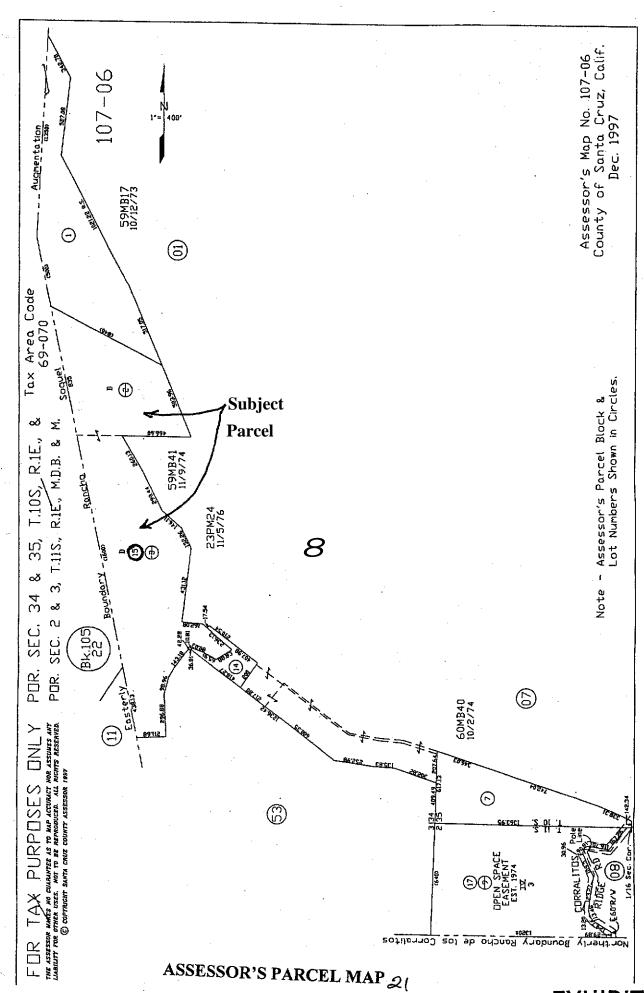
- 5. Enforcement. Any conveyance, contract, or authorization (whether written or oral) by Declarants or their successors in interest which would permit **use** of the Subject Property contrary to the terms of this Declaration shall be a breach of this Declaration. County or its successor may bring an action by administrative or judicial proceeding when County deems necessary or convenient to enforce this Declaration. Declarants understand and agree that the enforcement proceedings provided in this paragraph are not exclusive and that the County may pursue any appropriate legal and equitable remedies available to it, and County shall recover, provided that County is the prevailing party, reasonable attorneys' fees and costs in bringing any action, whether administrative or judicial, to enforce this Declaration as against the party causing such breach.
  - 6. Recordation of Documents. This Declaration shall be dulyrecorded in the Office of the County Recorder of the County of Santa Cruz following the rezoning of the Subject Property to the TP zone district. In the event that under the terms and conditions of this document, or any subsequent mutual written agreement, these restrictions are terminated with respect to all or any part of the Subject Property, the County shall, upon written request, execute and record with the County Recorder of the County of Santa Cruz any documents necessary to evidence such termination.
  - 7. <u>Construction of Validity/Severability</u>. If any provision of these restrictions shall be held to be invalid, or for any reason become unenforceable, no other provision shall be thereby affected or impaired, but rather shall be deemed severable.

IN WITNESS WHEREOF, Declaran of	ts have executed this Declaration of Restrictions on the	day
Declarant	Declarant	
	ACKNOWLEDGED BEFORE A NOTARY PUBLIC TEFORM OF ACKNOWLEDGMENT SHALLBE ATTA	
STATE OF CALIFORNIA  COUNTY OF SANTA CRUZ )	)	
known to me (or proved to me on the subscribed to the within instrument authorized capacities, and that by the of which the persons acted, executed		mes are in their
WITNESS my hand and offi  Notary Public, State of Calif		



**LOCATION MAP** 





FXHIRIT F

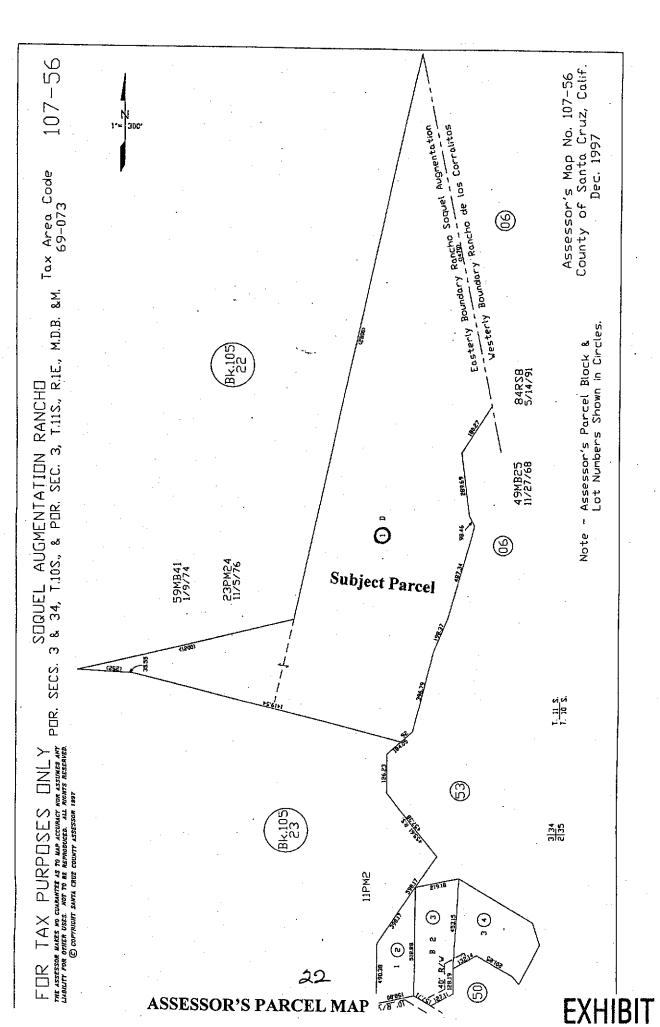
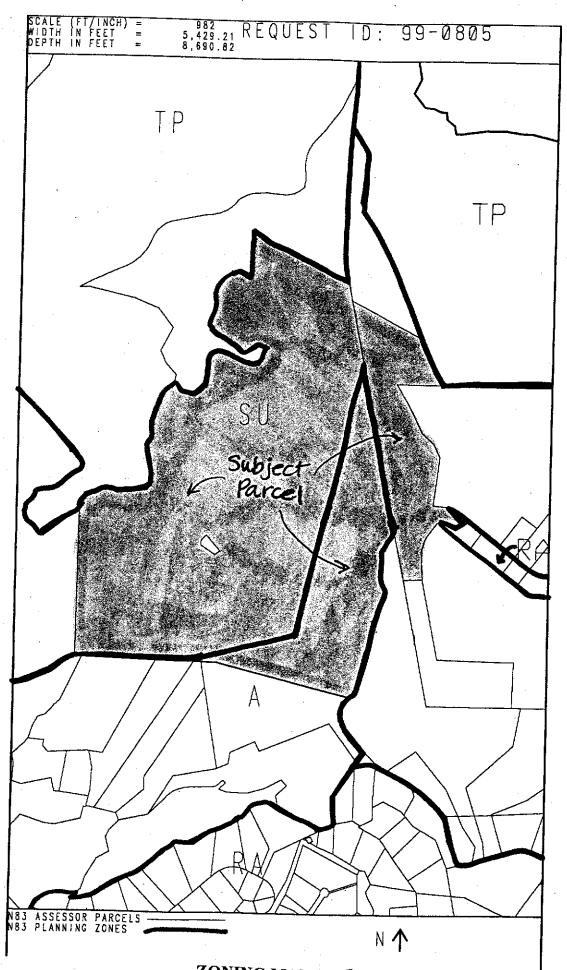


EXHIBIT F



ZONING MAP 23

EXHIBIT

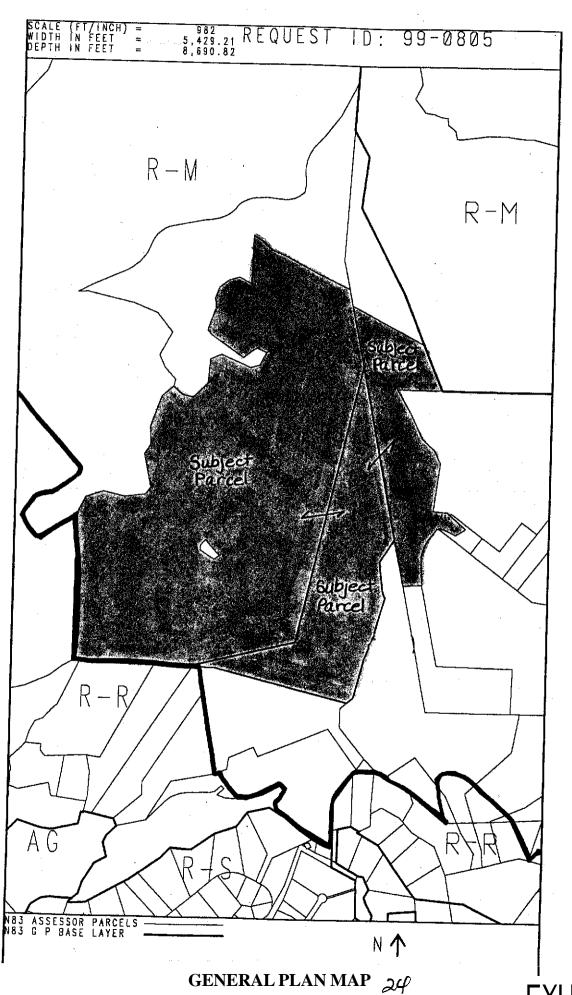
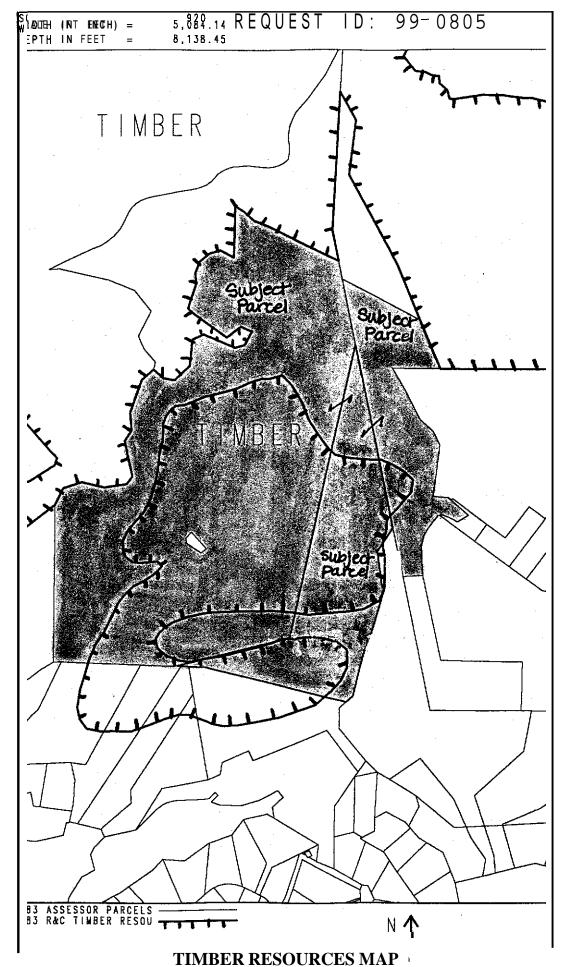


EXHIBIT (



### HILDRETH FORESTRY CONSULTING LLC

September 2,2004

Ms. Cathleen Carr Planning Department County of Santa Cruz 701 Ocean Street, 4<sup>th</sup> Floor Santa Cruz, CA **95060** 

Re: Timber Rezoning Application #99-0805 Lincoln and Robin Holland APN 105-221-04, 107-061-15, 107-561-01

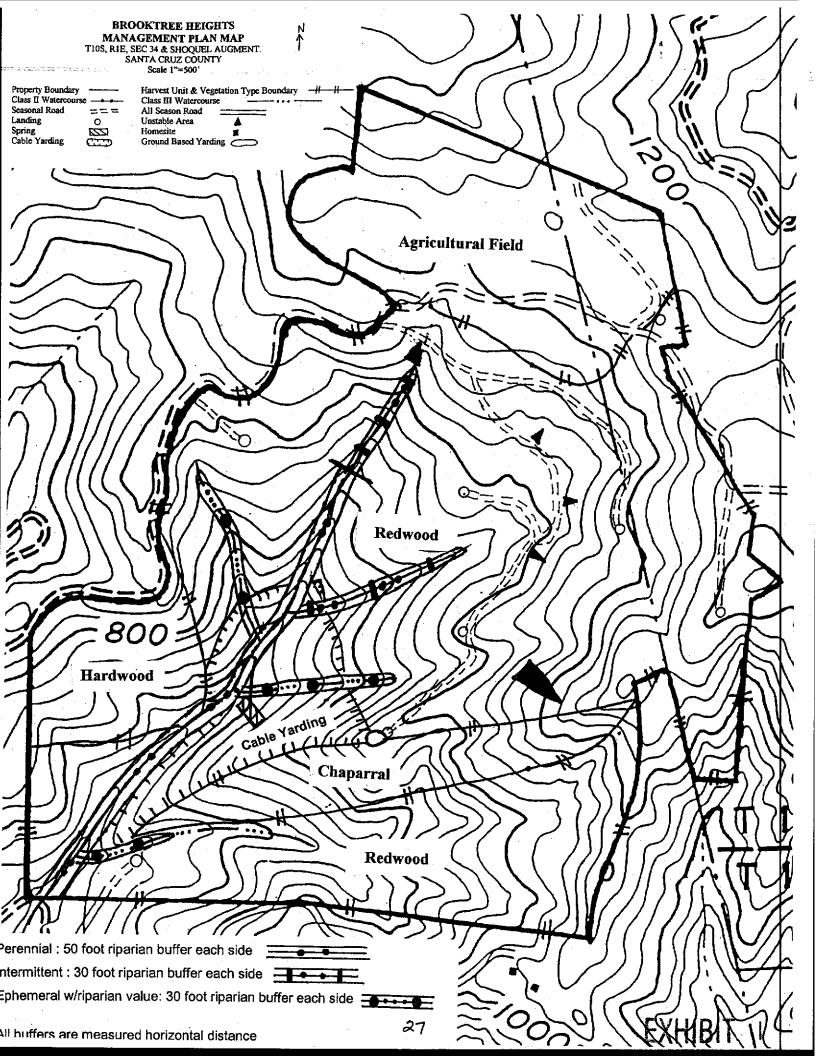
Dear Ms. Carr,

Enclosed, please find the updated management plan map that indicates the nparian buffers. You had also asked me to investigate if cable yarding would be used **in** these buffers. The past harvest plan (1-88-202 SCR) did indeed require yarding through the WLPZ and ELZs, so I assume that this would again be desired. Please note that full suspension **is** required by the Department of Fish and Game and CDF.

Please **give** me a call if you have any questions.

Sincerely,.

Jim **Hildrett** RFF #2639



# JAMES HILDRETH PROFESSIONAL FORESTER

May 15,2000

Cathleen Carr Project Planner Santa Cruz County Planning Department 701 Ocean Street Santa Cruz, CA 95060

Re: Brooktree Heights - Application No. 99-0805

Dear Ms Carr:

Enclosed, please find the requested maps for the Brooktree Heights Forest Management Plan. The **new** "Management Plan Map" has the requested items clearly identified. I have **also** updated the other maps to reflect the latest property name change from "Skyview Ranch" to "Brooktree Heights".

I assisted Gary Paul, RPF, in the development of this management plan. I am now acting as the lead forester for this project. Please "cc" copies of all future correspondences to me on behalf of Santa Cruz Timber Company. Feel free to give me a call if you have any other questions or concerns, or if you need additional information.

I also want to thank you for answering my questions regarding the potential to re-zone a property to TPZ in the Bear Creek area. I really appreciate your input and your timely response.

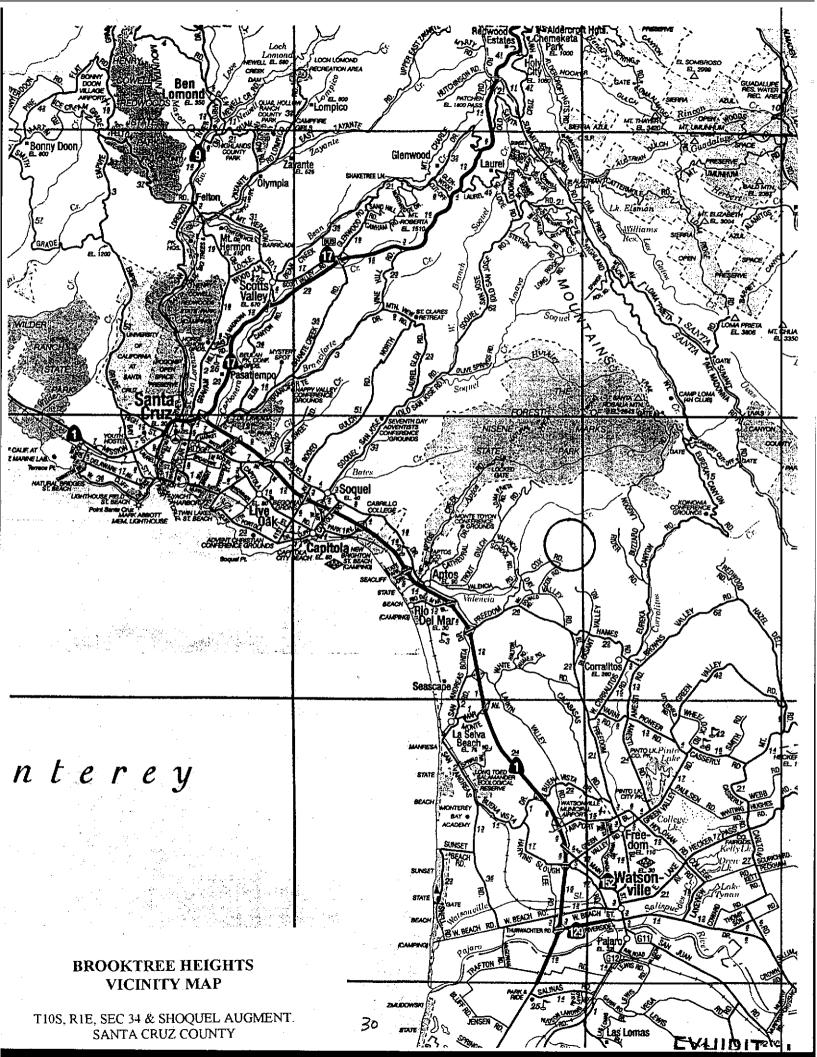
Sincerely.

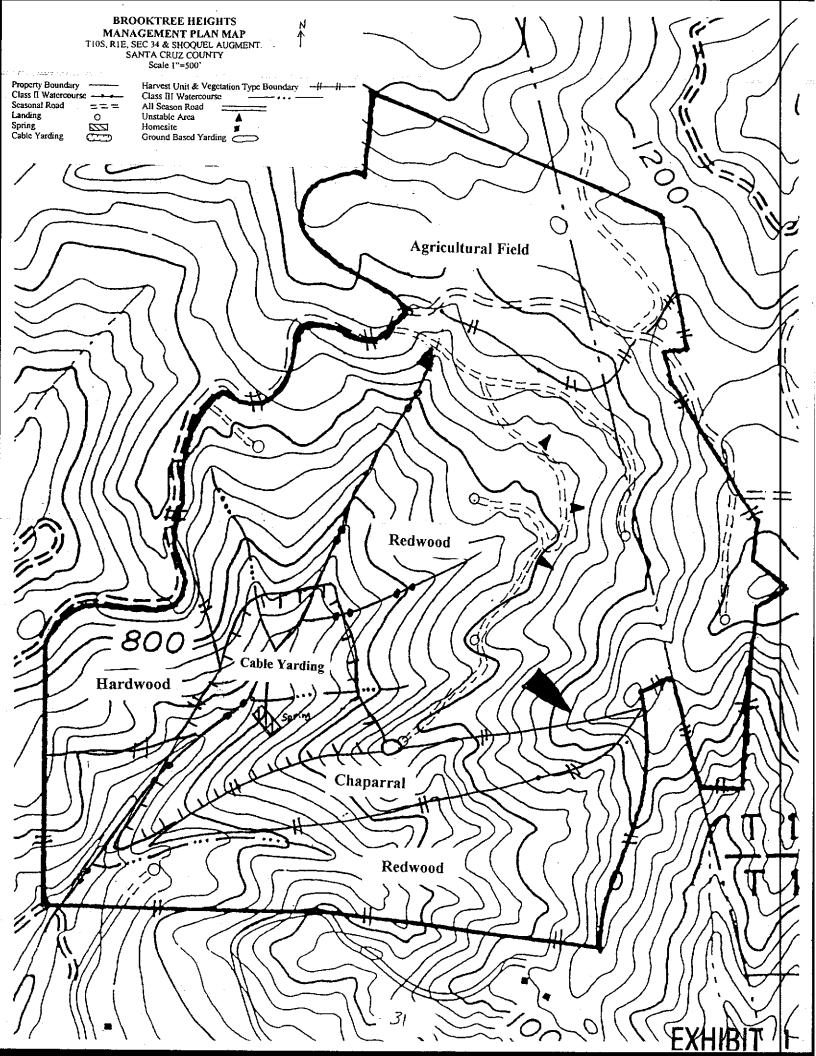
Iim Hildreth

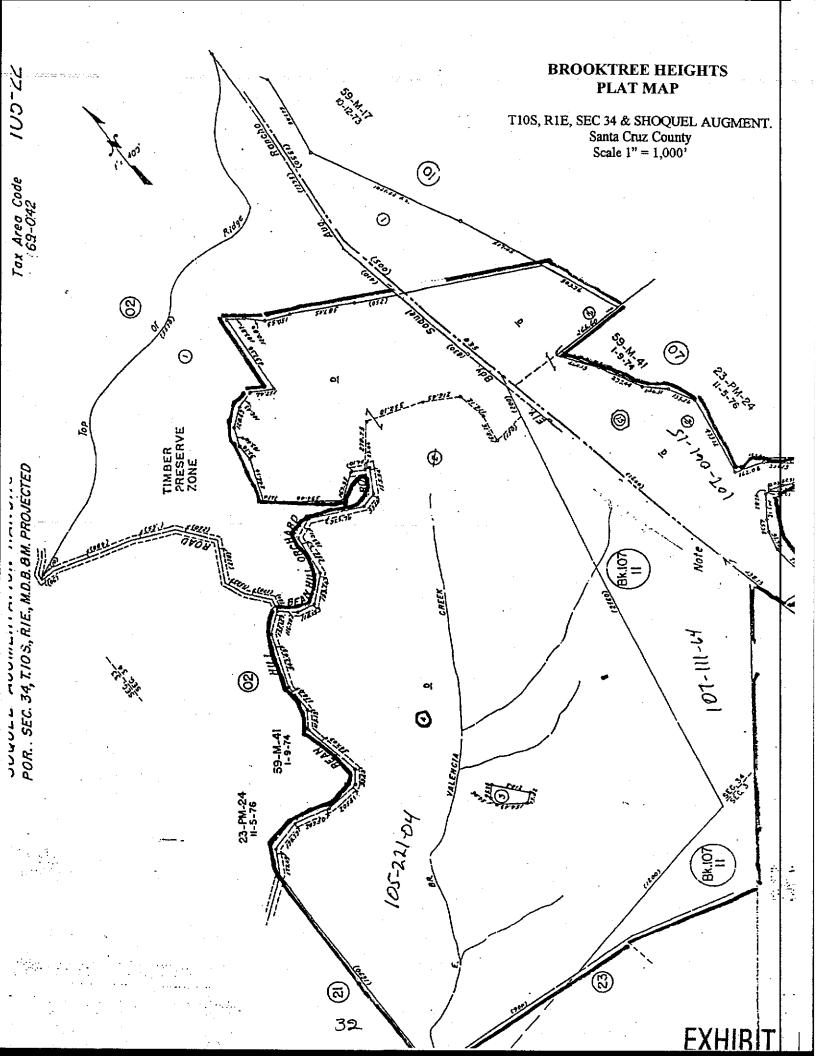
Registered Professional Forester #2639

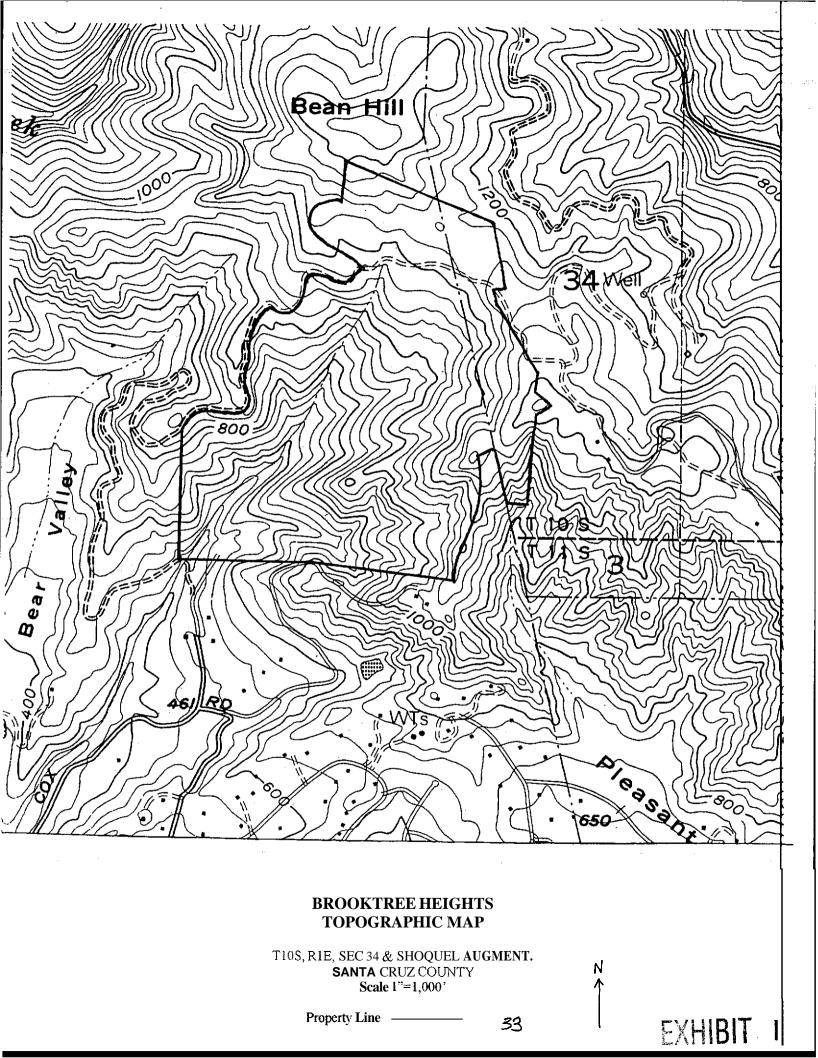
### **MAPS**

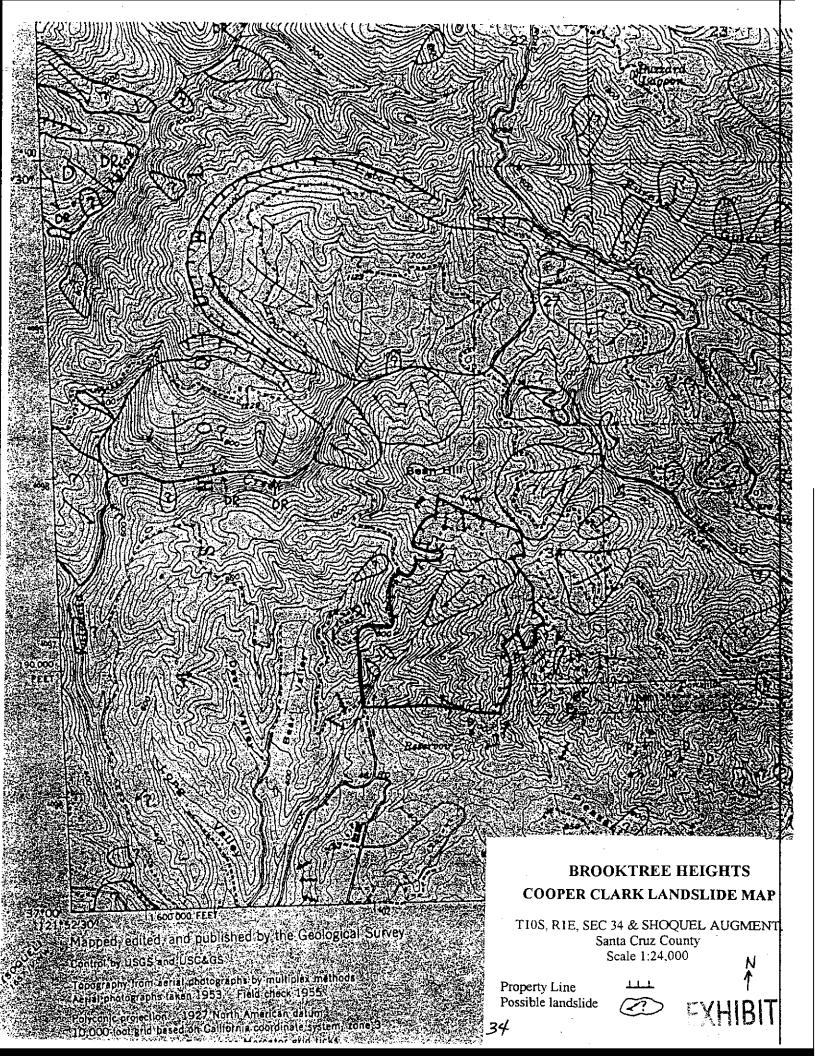
Vicinity Map Management Plan Map Plat Map Topographic Map Soil Type Map Cooper Clark Landslide Map

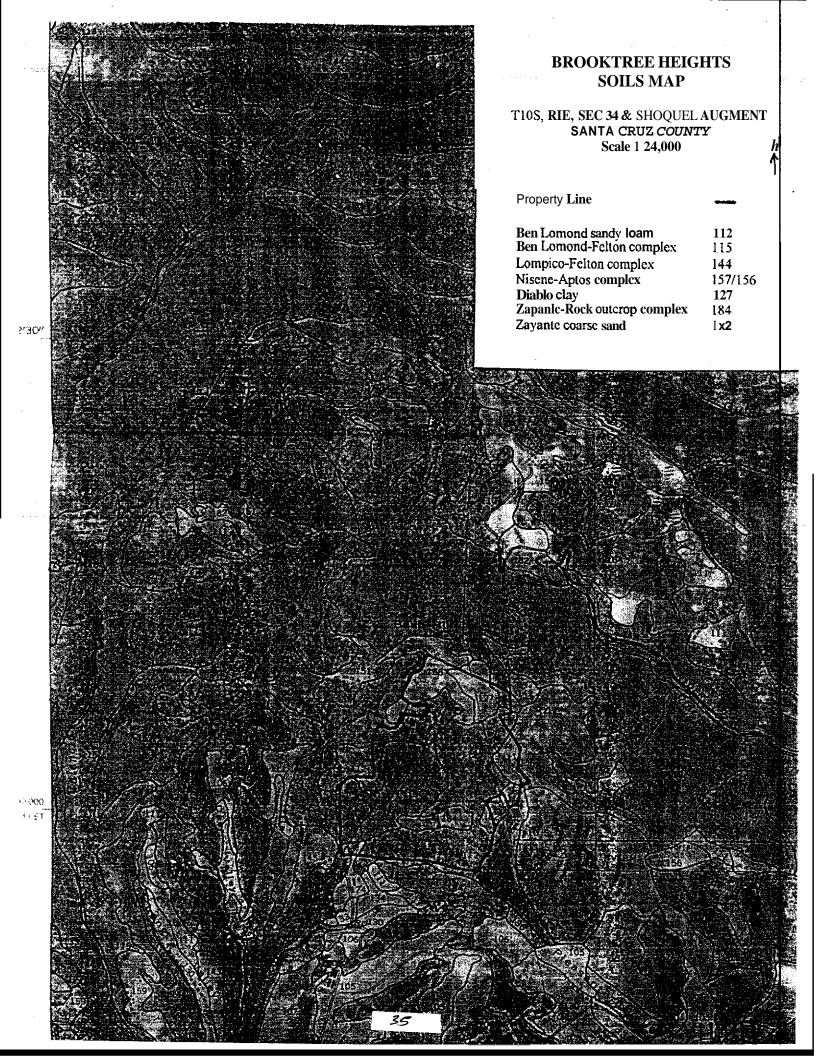












## **BROOKTREE HEIGHTS**

### TIMBER MANAGEMENT PLAN

December 1,1999

### PORTIONS OF

TOWNSHIP 10 SOUTH, RANGE 1EAST SECTION 34 & **SHOQUEL** AUGMENT.

SANTA CRUZ COUNTY, CALIFORNIA

PREPARED BY GARY PAUL. Registered Professional Forester #1829

5521 Scotts Valley Drive, Suite 235, Scotts Valley, CA 95066 (831) 438-8968

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#### **INTRODUCTION**

This management plan is for the Brooktree Heights property located near Aptos. This plan is required by Santa Cruz County in connection with the landowners application to have the property placed in Timberland Production Zoning (TPZ) Gary Paul, Forestry Consultant, prepared this plan with the assistance of Jim Hildreth (Forester)

This timber management plan is designed to assist the landowners in the management of the natural resources on **their** property. The plan describes the property and management goals, identifies problems and opportunities, and outlines management activities needed to meet the landowner's objectives.

The property contains three parcels They are, as recorded by the Santa Cruz County Assessor, as follows.

OWNER	PARCEL OWNER	ACRES	<b>CURRENT ZONING</b>
Brooktree Heights Ltd.	APN # 107-111-64	47 acres	Agriculture
Brooktree Heights Ltd	APN # 107-061-15	30 acres	Special Use w/partial timber overlay
Brooktree Heights Ltd.	APN # 105-221-04	179 acres	Special Use w/partial timber overlay

256 acres

#### FOREST MANAGEMENT OBJECTIVES

The owner desires to manage this forestland for the long term production of merchantable timber. This goal is to be achieved without degrading the quality of other forest resources such as soils, watershed, wildlife, and recreation. In addition, all future activities will recognize the need to protect the visual quality of the forest and reduce the potential of wildfire.

The immediate objective is to obtain Timber Production Zoning, which will **allow** management of the property consistent with these objectives **Timber** management objectives are to convert even-aged timber stands into an uneven-aged condition using a level of harvest that may be sustained over time. These management objectives are consistent with the Forest Practice Rules.

#### GENERAL DESCRIPTION

This property is located approximately two miles northeast of Aptos in portions of Township 10 South, Range 1 East, Section **34** and the Shoquel Augment. of Santa Cruz County, California. According to the County Assessor Office, the property contains a total of approximately **256** acres. There are approximately 180 acres that contain merchantable timber The remaining acres contain stands of hardwood trees (20 acres), a field (**35** acres) and chaparral (20 acres)

The property is accessible from the south on Cox Road, a paved county road. Further access is provided on Bean Hall Road, a private rocked road, There is a short system of dirt logging roads on the property that provide access during dry weather only.

The merchantable timber consists of medium to well stocked stands of redwood trees mixed with areas of hardwoods (primarily tan oak, madrone, and bay laurel). There are also large, very scattered Douglas-fir trees. The timber is located on moderately steep to very steep slopes Elevation ranges from approximately **400** to 1,400 feet.

The East Branch of Valencia Creek (also known as Cox Creek) flows from north to south through the middle of the property. It is considered a Class II watercourse within the property. There are four watercourses that branch out from Valencia Creek. These are Class II & III watercourses

#### **HISTORY**

The property is presumed to have been clearcut harvested during the late 1800's or early 1900's. The large old growth redwood stumps found in the middle of the clumps of merchantable redwood trees evidence this. The property was selectively harvested (thinned) in 1976. It was selectively harvested again in 1988 and 1989 under THP 1-88-202 SCR.

No historical or archaeological sites are known to exist on the property.

#### **RESOURCES**

#### Soils

According to the Soil **Survey** of **Santa** Cruz County (USDA, Soil Conservation Service) the merchantable timber occurs on four soil types

Ben Lomond sandy loam (1 12): The soil is used mainly for timber production, recreation, wildlife, and watershed. The Ben Lomond soil is deep and well drained Permeability is moderately rapid, runoff is very rapid, and the hazard of erosion is very high. Effective rooting depth is 40 to 60 inches. Ben Lomond-Felton complex (115): The soil complex is used mainly for timber production, recreation, wildlife, and watershed. This is comprised of approximately 35%. Ben Lomond sandy loam and 35%. Felton sandy loam. The Ben Lomond soil is deep and well drained. Permeability is moderately rapid, runoff is very rapid, and the hazard of erosion is very high. Effective rooting depth is 40 to 60 inches. The Felton soil is deep and well drained Permeability is moderately slow, runoff is very rapid, and the hazard of erosion is very high. Effective rooting depth is 40 to 70 inches Lompico-Felton complex (144). The soil complex is used mainly for timber production, recreation, wildlife, and watershed. This complex is about 35% Lompico loam and 30% Felton sandy loam. The Lompico soil is moderately deep and well drained. Permeability is moderate, runoff is very rapid, and the hazard of erosion is very high. Effective rooting depth is 20 to 40 inches. The Felton soil is deep and well drained. Permeability is moderately slow, runoff is very rapid, and the hazard of erosion is very high. Effective rooting depth is 40 to 60 inches.

Nisene-Aptos complex (157): The soil complex **is** used mainly for timber production, recreation, wildlife, and watershed. **This** complex is about 35% Aptos fine sandy **loam** and 30% Nisene loam. The Nisene soil is deep and well drained, Permeability is moderate, runoff is rapid, and the hazard

of erosion is high. Effective rooting depth is 40 to 60 inches. The Aptos soil is moderately deep and well drained. Permeability is moderate, runoff **is** rapid, and the hazard of erosion is high. Effective rooting depth is 20 to 40 inches.

The large field at the north end of the property contains Diablo clay and Nisene-Aptos complex soils. The chaparral occurs on Zayante-Rock outcrop complex and Zayante coarse sand soils.

# Geology

#### Landslides

The Cooper-Clark landslide maps were reviewed and show an area of "possible" movement within the stand of redwoods. The inner gorge of Valencia Creek has several small slides. No harvesting is allowed adjacent to the watercourse, **so** potential harvesting will not affect these slides. Five slides were identified on THP 1-88-202 as requiring specific mitigation. These are related to the dirt logging road system, and after harvesting, erosion control measures were installed. These measures stabilized the roadbed, except for near the headwall of the watershed. The logging road crosses a swale where it begins to catch water from the field above. The roadbed is partially washed out, and will need to be reworked to allow for the passage of log trucks (now passable by pickup trucks). This segment of roadbed crossing the swale should be stabilized or removed after harvesting.

Future harvest operations will be designed to eliminate the potential for sediment to enter the watercourses on this property. Measures will include installing erosion control structures on all roads and skid trails, and the use of a cable yarding system in the southern portion of the property where the slopes are steep and the soil erosion hazard rating is extreme.

# Faults:

Gary Griggs, Consulting Geologist, prepared a Geologic Hazard Evaluation Report in July of **1989.** The county required this report as the landowner was considering a minor land division of the property at **this** time. The report focused on the geologic hazards at the two proposed building sites. The report also contains general information regarding fault lines and a post earthquake inspection report after the October **17, 1989 7** 1 magnitude earthquake.

4

The post earthquake site review states that "This was the largest earthquake in central California in 83 years and had widespread effects throughout the county The property is only 2-3 miles from the official epicenter and is crossed by several traces of the Zayante Fault. . . Nonetheless, there was no indication of any surface ground breakage of any sort on the proposed building site areas".

#### Watershed

The Valencia Creek watershed contains a total of approximately **8,399** acres. Over the last 10 years, approximately **537** acres (**6%**) of the watershed has been selectively harvested. Most of this harvesting has been conducted with ground based equipment. The watershed area is primarily used for timber production, homes sites and recreation.

The E Branch Valencia Creek (Cox Creek) flows through the middle of the property. This stream is considered a Class II watercourse within the property. In general, the watercourse shows signs of being moderately aggraded and gravel embedded. Large woody and other organic debris is present in small amounts. Bank cutting and downcutting was observed in this reach of stream Several small slides were noted near the stream. The stream is of moderately steep gradient and has several small shallow pools. Streamside vegetation includes redwoods and hardwood trees.

**This** property has been logged twice since the clearcutting at the turn of the century. Long term, adverse impacts to the E. Branch Valencia Creek appear to be primarily related to failures of the cutbanks and past failures of the road system

#### Wildlife

Wildlife found on this property is typical of the Santa Cruz Mountains. Deer and many species of bird (including raptor) were observed. The wildlife habitat relationship (WHR) classification for the tree dominated habitat is 4D, meaning the average tree size is between 11-24". DBH, and the canopy closure is dense, between 60-100%. Characteristics of late succession stands are not present. There are few snags throughout the stand, and occasional down logs from the turn of the century logging.

Timber harvesting at the turn of the century used clearcut harvesting where all sound

merchantable redwood trees were harvested. The current stand of trees naturally regenerated primarily from stump sprouting **This** resulted in a dense stand of even-aged redwoods, where sunlight does not reach the understory in amount necessary for conifer reproduction.

The goal of the past and future harvesting is to create an uneven-aged forest, with several age classes and canopy levels. The selective harvesting in 1976 opened up portions of the forest canopy to allow redwood stump sprouting. The selective harvest in 1988/1989 removed about 40 percent of the stems over 18 inches in diameter. These two harvests were the first steps in creating an uneven-aged forest

Future timber harvests will also use the selection system to open the forest canopy and allow sunlight to penetrate to the forest floor. Harvesting will retain trees from all diameter classes. This silviculture method will gradually move the forest stand towards an uneven-aged structure where growth and harvest is balanced. This type of management generally improves forage for a variety of small and large mammals. The resulting prey base will increase raptor use

# Rare. Threatened and Endangered Species

The Natural Diversity Database map and the Biotic Resources map were inspected

# Animal

There have been no red-legged frog sightings within the Valencia Creek watershed. The property is within the potential range of the red-legged frog, and E. Branch Valencia Creek may provide suitable habitat This creek will be protected as required by State Forest Practice Rules.

No other rare, threatened and endangered animal species are know to exist within the immediate vicinity of the property Habitat for Species of Special Concern in the County, as listed in the County General Plan, should not be affected by selective harvesting as allowed in the local area.

#### Fish:

The property is located adjacent to E Branch Valencia Creek that drains into Valencia Creek then into Aptos Creek. According to the Department of Fish & Game (DFG), Aptos Creek is the very southern range for Coho. DFG has designated Aptos Creek as a potential recover stream, but there have been no recent sightings. DFG states that this watercourse and its tributaries suffer from

various habitat deficiencies for Coho salmon. This includes silt loading from the roads adjacent to the creek, which has inundated spawning gravel, pool habitat, and substrate for insects Breaks in the riparian vegetation from the road and housing development have resulted in less forage and canopy for fish.

Mitigation measures for fish on the property would be related to timber harvesting within the WLPZ of E Branch Valencia Creek, and the generation of sediment in the Class III watercourses.

## plant:

This property is not within the range of any RTE species and none were noted on the site.

# **Ancient Trees**

No ancient trees were left on the site from the turn of the century logging

#### Recreation

Recreation on the property includes observing wildlife, hiking and horseback riding Future harvesting will be selective, and should be designed to enhance or maintain the aesthetics surroundings.

#### Cultural

THP 1-88-202 SCR submitted an Archaeological Records Check and the information center indicated no recorded archaeological sites. The presence of archeological or historical sites **was** not observed. **An** intensive survey was not conducted If any sites are found in the future, they will be preserved.

## **Timber Description**

The merchantable timber on this property is an approximately 180 acre stand of coast redwood. The redwood occurs in well-stocked clumps, intermixed with scattered Douglas-fir, 'tan oak, madrone and bay laurel. There are also a few large areas with hardwoods, shrubs and forbs. The average site index is site III.

The age of the stand is 95-100 years old, a result of clearcutting which took place at the turn of the century. Growth slowed as the trees grew larger and closer together, and began competing for available water, nutrients, and sunlight. Selective harvests in 1976 and 1988/1989 reduced competition, and trees in all size classes were retained.

Future harvests, **as** discussed later in plan, will continue to create an uneven-aged stand. This will be accomplished by selectivelythinning clumps of redwoods. The goal of future selective harvests will be to produce adequate light for vigorous stump sprouting, to promote growth on residual trees, to promote continued production of high quality redwood timber by maintaining good spacing and good distribution of diameter classes, and to maintain an aesthetically pleasing forest.

#### TIMBER INVENTORY

# **Sampling Method**

**An** inventory of the 180 acres of merchantable timber was conducted in November of 1999. This cruise consisted of the tallying of 20 one-fifth acre fixed radius plots. Plot locations were made to insure representative sampling.

Diameters (dbh) were measured or estimated at breast height. The form factor was measured with a Releskop or estimated on all sample trees. This form factor is the diameter at 16 feet above the stump (form point) divided by the dbh. All measurements are taken outside the bark.

Bole height was measured with a Releskop or estimated on all sample trees to height which is equivalent to 40 percent of the diameter at form point. Logs were cruised in variable log lengths to optimize recovery. Defect was estimated with cull segments or as a scaling deduction from a log. Minimum log size used is 6 inches by 12 feet. Minimum dbh cruised was 12 inches. All volumes are presented as Scribner short log (16') scale. Growth rate information was collected by boring the outer 25% of selected trees and measuring radial growth and age.

#### **Results**

The redwood averages 22" dbh, with a net merchantable volume of 22 thousand board feet (MBF) per acre. The Douglas-fir averages 34" dbh and less than 1 MBF per acre. The total net

(MBF) per acre. The Douglas-fir averages 34" dbh and less than 1 MBF per acre. The total **net** merchantable volume of both species is 22.5 MBF per acre for a total of 4.058 MBF. The volume per acre reflects the presence of hardwood trees within the stand of merchantable timber. These small areas with hardwood trees were included in the cruise. Although numerous, **their** location made them too difficult to remove **from** the redwood timber type that was cruised. Large areas of continuous hardwood stands (approximately 20 acres) were not cruised.

#### TIMBER STAND SUMMARY

### **REDWOOD**

Diameter Class (inches)

	12-16	<u>18-24</u>	<u> 26-34</u>	<u>36+</u>	<u>Total</u>
Trees per Acre	14	18	11	2	45 trees
Net Volume/Acre(BdFt)	1800	7600	10,300	2300	22 MBF

**Limitation:** All cruise data presented in this report is intended to be used as a guide for this management plan only, and should not be extended or taken out of context for any other purposes.

#### MANAGEMENT PRACTICES

#### Roads

There is a short system of *dirt* logging roads on the property. These connect with the Bean Hill Road system, which is a rocked private road. A portion of the western edge of the property is adjacent to this road. This road continues south to Cox **Road** (paved county road). The owner has access through **this** route for log hauling

The past harvesting in 1988/1989 hauled logs out towards the northeast on a logging road system that crosses two neighboring properties. These agreements have expired, but may be used again in the future

The primary potential urban interface consideration is log truck traffic on this equality road

harvesting will help to reduce neighborhood impacts

### **Fire Protection**

magnificação em percolação de

The property is located on slopes above Valencia Creek. The rocked road system provides good access for fire fighting. The property is heavily wooded, and future harvesting needs to provide for fire protection. Forest Practice Rules, including those regarding fire protection, will be followed in future timber harvest operations. The slash will be lopped after each operation to reduce fire danger

No residences are located on or adjacent to the property. The closest residence is located south of the parcel on the ranch near **Cox** Road. A file protection zone should be established around any future structures built within **300** feet of the harvest area.

# Recreation

No recreational enhancements of the property are planned. The visual aesthetics of the property will be preserved through careful planning and supervision of timber harvesting operations.

# Wildlife

Management activities are directed at protecting and enhancing wildlife diversity. The selective cutting practices have the goal of creating several age classes and canopy layers. This will create habitat for a wider range of species

Redwood and Douglas-fir snags will be retained during harvest operations where they do not present a safety or fire hazard Downed logs (16" by 20' minimum) will also be retained. Several large Douglas-fir trees were observed to have poor health and vigor. These trees could be recruited for hture snags and downed logs. They should be retained where they will not compete for sunlight with other trees.

# **Timber Management**

Harvest

The stand of timber has regenerated from clearcut **logging** at the turn of the century. It now

contains a medium to well-stocked stand of approximately 100-year-old redwood trees. The average site index for the stand is site III. The average growth rate of the stand is approximately 2 1/2 % per year. The trees are competing with each other for sunlight, water, and nutrients, and the growth rate is slow

Based upon this information, a selective harvest is recommended for **next** year (2000) The goal is to begin to create a healthy uneven-aged stand where harvests are sustainable (harvest does not exceed growth) The current stand of redwood has approximately 22 thousand board feet (MBF) per acre. The harvest should remove about 8 MBF per acre or 1,500 MBF total (adjusted for leaving additional trees for watercourse protection). This will leave residual stands of 14 MBF per acre. Approximately 40-50% of the trees 18" in diameter or more should be harvested. In order to move towards an optimal uneven-aged size class distribution, some trees from all size classes should be retained. However, trees in the 26-34" diameter range should account for a large proportion of harvested trees. No trees under 18" diameter will be removed unless damaged. At least 75 square feet of basal area (Site III lands) must be retained as required by the Forest Practice Rules

The increased light and growing space that is provided by the removal of harvested trees increases the growth of residual trees and initiates the sprouting of a new generation of redwood trees. The residual stand, anticipated to grow at an average growth rate of 3-4%, will reach approximately 23 MBF per acre in 15 years

Future selective harvests are recommended on roughly a 10 to 15 year cutting cycle. These should harvest in the range of 40-50% of the trees 18"+ dbh. Over the long term, overall growth on the property will improve as sprouts reach maturity and contribute to the harvest. Growth should be re-evaluated in the future to see if the level of harvest needs to be adjusted to maintain a balance between growth and harvest.

#### **Logging Practices**

Most of the 180 acres harvest area is on moderately steep terrain. These stands may be tractor logged (about 150 acres) using the existing network of skid trails and logging roads. The last THP classified the soil erosion hazard rating as moderate in these tractor logging areas.

The remaining 30 acres of redwoods are located on steep slopes that require the use of a

yarder (cable logging system). The last THP classified the soil erosion hazard rating as extreme, but using a yarder eliminated the use of skid trails on these steep slopes

There is one segment of road near the northeast end of the property that was installed to provide access for a yarder. It was constructed and then recontoured and grass seeded/mulched after the last harvest. **This** will need to be done for future harvests.

Several Class II and III watercourses are located within the proposed harvest area. These watercourses should not be crossed with skid trails where possible. Past logging operations did not use skid trail crossings.

#### **Soil Stabilization**

The harvest area is located on the slopes above E Branch Valencia Creek. Special consideration will be given to soil stabilization measures.

The proper location and construction of roads and skid trails is critical to minimizing the potential for soil erosion. All trails and roads are in place, and proper drainage devices will be installed as part of each hture harvest operation. These devices include waterbreaks, outsloping, grass seeding and mulching, and the use of temporary culverts on the **dirt** road system. It is recommended that all dirt roads used be grass seeded after proper drainage devices are installed.

Except for this short system of seasonal dirt logging roads, the haul route uses permanent rocked and paved roads. The use of the proper logging system is also critical to minimizing soil erosion. The steep area will use a yarder to eliminate the need for new skid trail construction.

#### **Watercourse Protection**

Future logging will take place within the watercourse and lake protection zone (WLPZ) on the both sides of E. Branch Valencia Creek (Class II). Current shade canopy in this area is approximately 90% by ocular estimate. Within the WLPZ, Forest Practice Rules require the retention of trees to provide canopy cover that protects stream temperature. Additional requirements include retaining trees on the streambank, excluding ground based equipment within the WLPZ, and falling trees away from the stream. In addition, a Santa Cruz County ordinance requires that a 50 foot no harvest zone be established adjacent to each side of E. Branch Valencia Creek. This ordinance is

currently subject to litigation

Several Class III watercourses flow within stands of merchantable timber These watercourses drain directly into E Branch Valencia Creek These are watercourses that flow water only dunng periods of rainfall

A harvest inspection report from the 1988 THP indicates the presence of an old water diversion structure located about 100 feet north of the south property line on Valencia Creek. This uptake is used for irrigation. There are also several springs and a spring box located within the harvest area. These resources were protected during past harvesting, and will be protected in the future. This protection includes buffers and during THP preparation, the notification of neighbors of the intent to harvest/domestic water supply inquiry as required by the Forest Practice Rules.

# **Timber Stand Improvement**

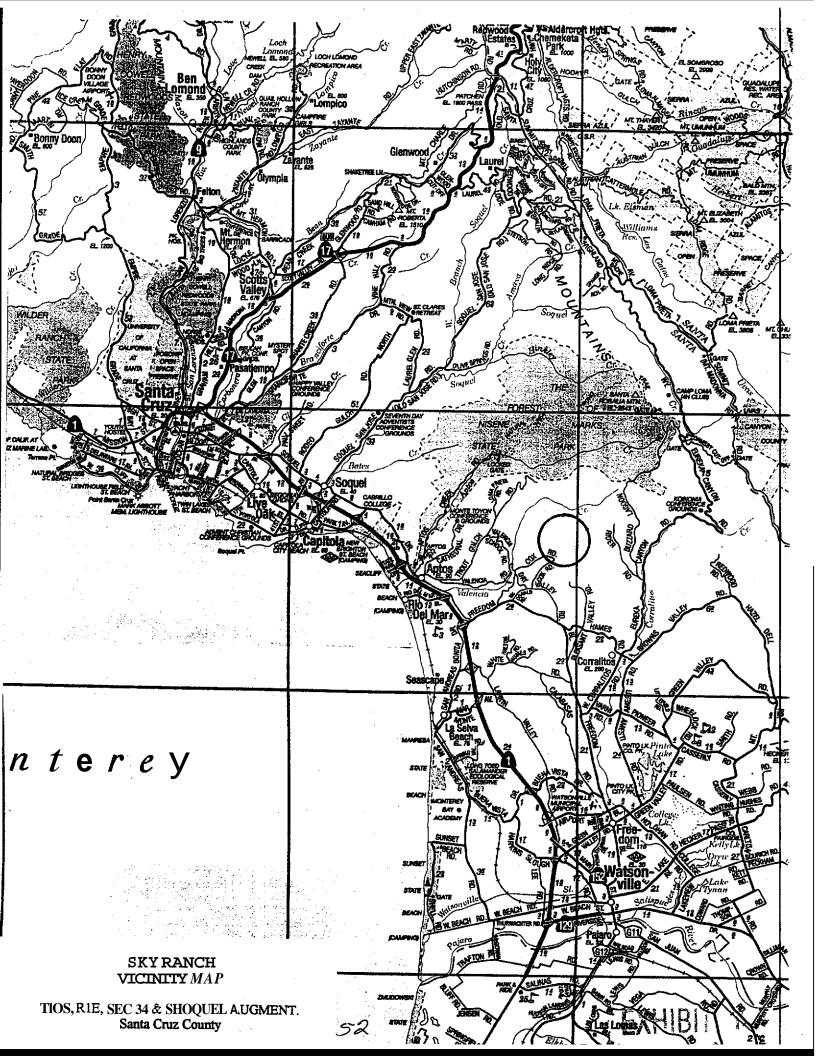
In order to achieve a fully stocked stand for the future, tree planting and sprout thinning is recommended. The objective is to achieve a fully stocked stand of redwoods with an average spacing of 10-14 feet. This stand improvement will be conducted in areas that have supported redwood in the past.

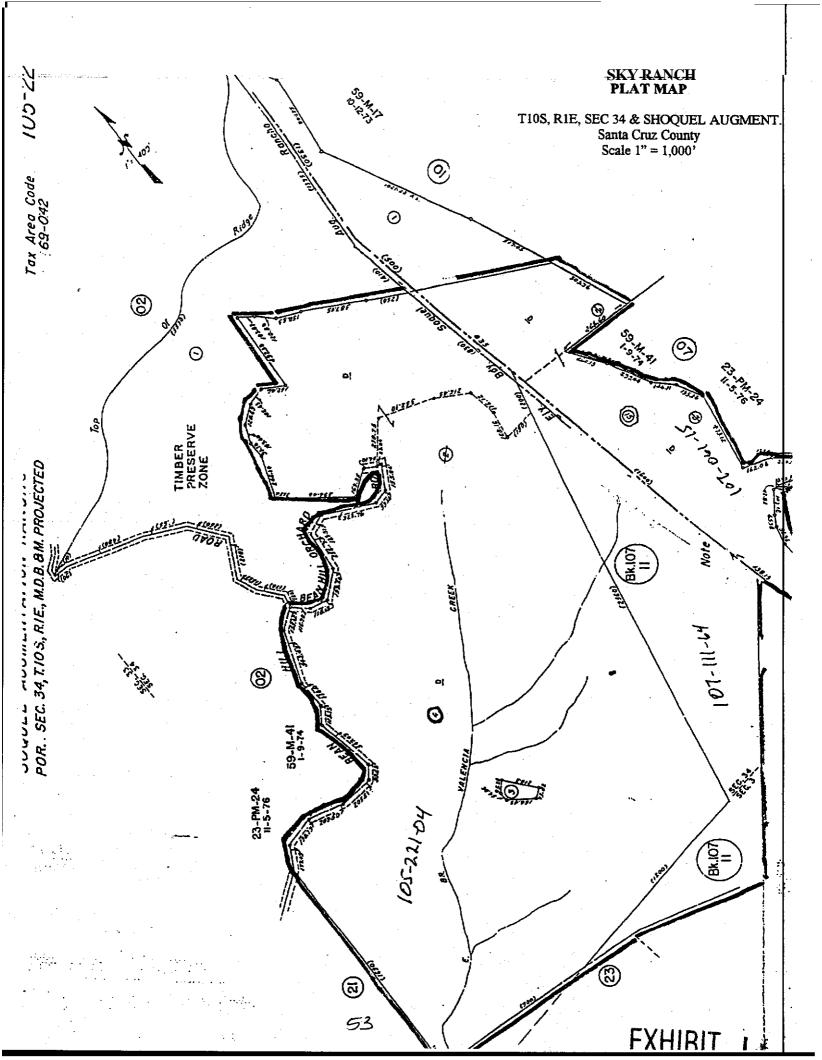
Multiple stump sprouts resulting from harvesting should be thinned to an average of **2-3** healthy sprouts per stump **This** practice should be completed about **5** years after harvest, or when competition dictates. This will produce healthier and more vigorous young trees in the understory. Dead and unhealthy small trees and sprouts should be removed to reduce competition and reduce fire hazard. All harvest areas will have the slash lopped to within 30 inches of the ground.

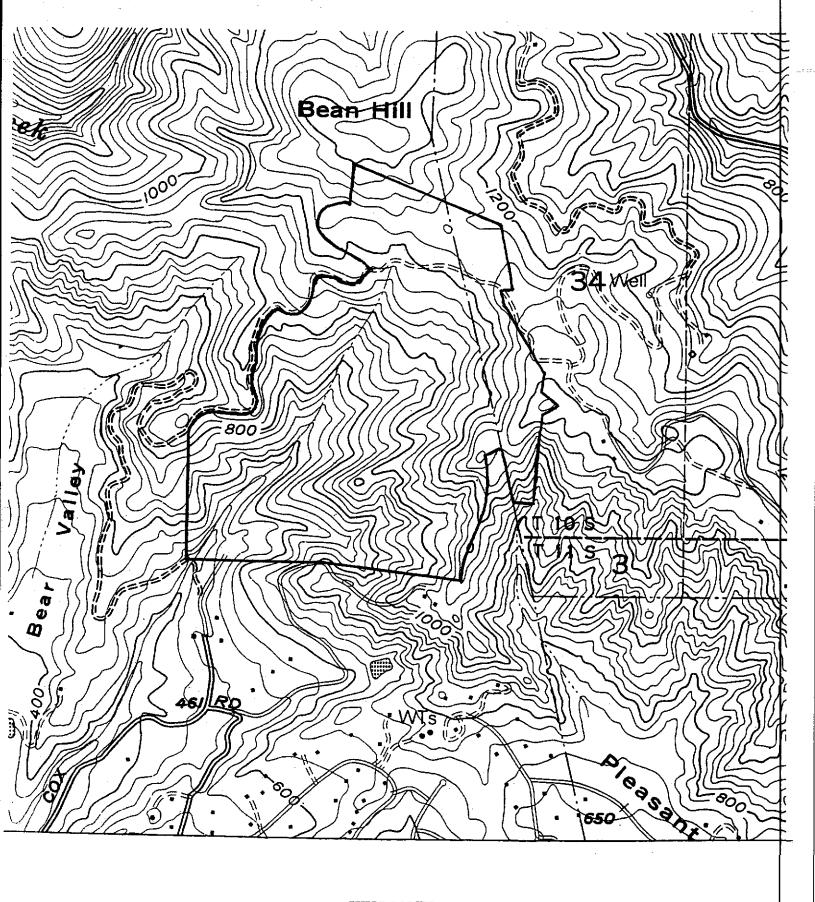
Tree planting should be limited to those areas that are open enough for a good chance of establishment and growth Areas for planting trees should cleared of brush and logging slash during the clean up after logging. It is recommended that **2-0** (**2** year old) redwood seedlings **from** the appropriate seed zone be planted on **a** 8' by 8' spacing The removal of competing vegetation around each seedling for the first 3 years will likely be necessary for **seedling** survival Protection such as tubing seedlings may be necessary if deer browsing occurs

# **MAPS**

Vicinity Map Plat Map Topographic Map Soil Type Map Cooper Clark Landslide Map







SKY RANCH TOPOGRAPHIC MAP

TIOS, R1E, SEC 34 & SHOQUEL AUGMENT.

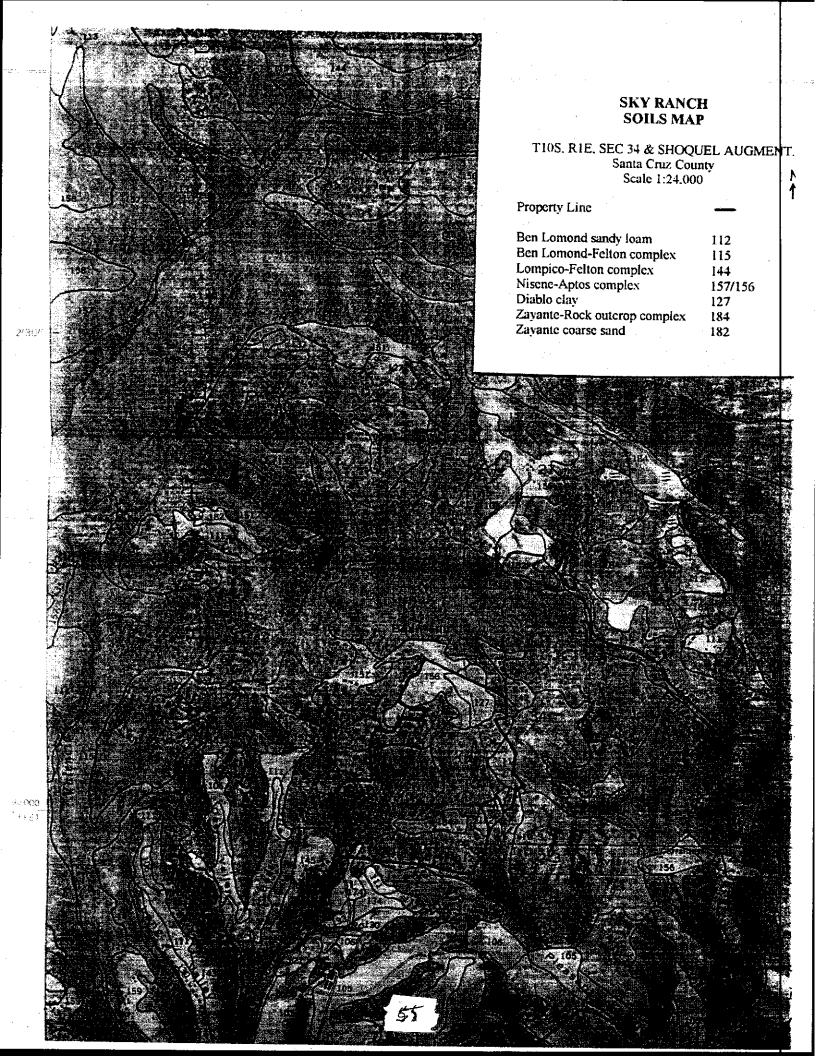
Santa Cruz county

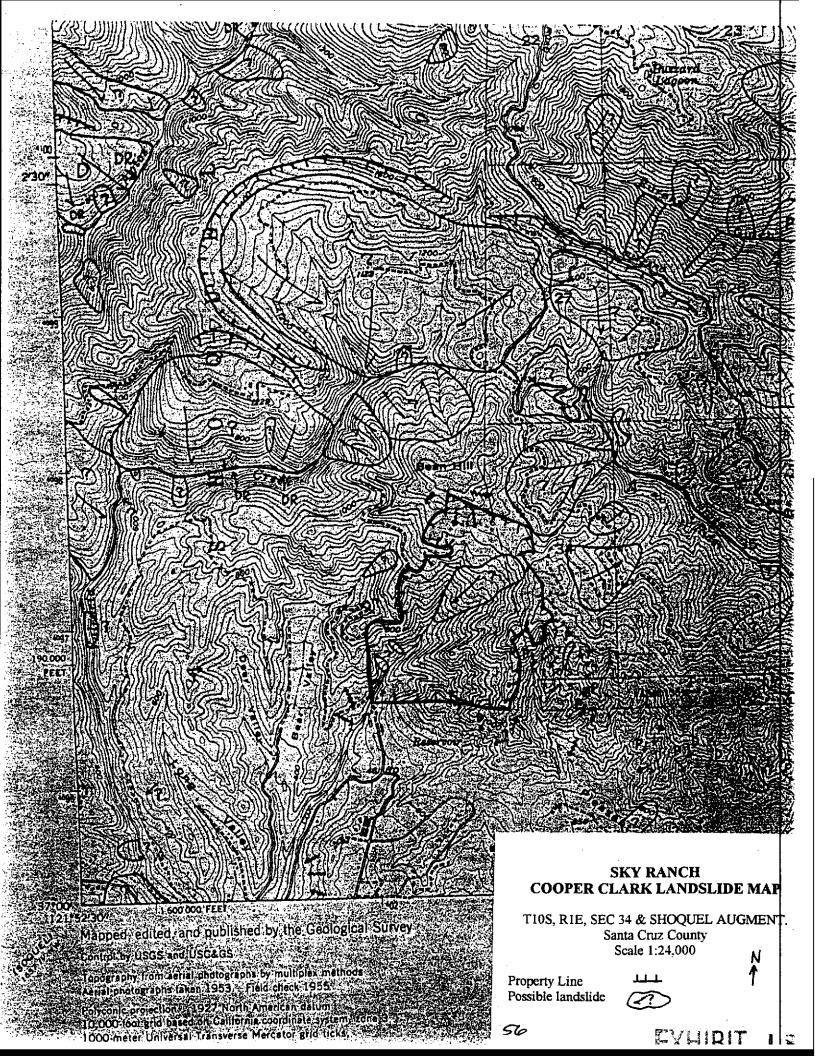
Scale 1" = 1,000'

Property Line

<del>-</del> 54

EXHIBIT 1.4





TIMBER HARVEST PLAN 1-88-202 SCR

STATE OF CALIFORNIA DEPARTMENT OF FORESTRY RH-63(6/B6)		ER HARVESTING P	LAN	( Date Recd AF ( Date Filed.	L-88-202 SO R 0 7 1998 A PRIL 19	ir
This Timber Harvesting Pl (FPA) and Board of Forest must be printed legibly i	ry rules. See ser	parate instructi	epleted, i	s designed to comp nformation on comp	oly with the Fo	orest Practice Act orm. NOTE: The form
1. TIMBER OWNER(S):Name_	Brooktree	Heights,	A Lim	ited Partne	rship	
Address						
City <u>Scotts Va</u>	lley	State <u>CA</u>	Zip	95066	Phone_(4	08) 335-5377
2. TIMBERLAND OWNER(S):N	se Same a	s above				
Address						
City		State	Zip_		Phone	
3. TIMBER OPERATOR(5):Na	me Big Cre	ek Lumber	Co.			
Address 3564 Hi	ghway 1			L	icense #A	X=300
City Davenport		State <u>CA</u>	Zip _	95017	Phone_4	108-423-4156
4. PLAN SUBNITTER(S):Nam	e Big Cre	ek Lumber	Co		~~~~~~~~~~~	
If the plan submitter						
•						**************************************
		,				
5. Person to contact on	-site who is resp	oonsible tor the	conduct	of the operation:	~	
Name Michael						
Address 3564 Hi	ghway 1					***********
City Davenpor						408-423-4156
3 6. RPF preparing the Th	P:NameMic	chael E.	<u>Jani</u>			
						1856
City Davenpor	<u>t</u>	State <u>CA</u>	Zip	95017	Phone _	408-423-4156
$\mathcal{O}$					. 7540-130-004	

**EXHIBIT** 

training constants	,,,,,,,			
7. Expected commencement date of timber opera	tions: <u>Marc</u>	h-1, 1988		_
8. Expected completion date of timber operation	ons: Matel	1991		-
9. Forest products to be harvested: redu	wood and Do	ouglas-fir s	awlogs	_
10. The timber operation is to be within: (ch	eck the appropria	te baxes)		
1.[x] Coast Forest Oistrict 2.[ 1 Northern Forest Oistrict 3.[ ] Southern Forest District		•	strict of the Coast Forest Oistrict strict of the Southern Forest Oistrict	
11. Location of the timber operation by lega	al description:			
Base and Meridian: [x] Mount Diables	[ 1Humbaldt,	<b>1 San</b> Bernard	lino	
•	mate Acreage (	County	(Optional, Assessors Parcel No.)	
ptn.				
	180	Santa Cruz	107-111-64	
Augment			<b>107-061-</b> I5	
W <sup>1</sup> / <sub>2</sub> Sec.			105-221-04	
34 10S 1E			-	
TOTAL ACREAGE NOTE: Additional sheets may be necessar	<u>180</u> ary.		# # # # # # # # # # # # # # # # # # #	
12. [ ] Yes [x] No ls a tiaberland converted of expiration:	ersion permit in <b>e</b>	ffect? If yes, list	permit inumber and date	
13. [ 1 Yes [x] No ls there a THP on till report of satisfactor If yes, identify the	e with COF tor an y stocking has no	y portion <b>ot</b> the plant $\infty$	an area tor rhich <b>a</b> ) <b>F</b> ?	
14. [x] Yes [ 1 No [s any part of the pl jurisdiction, or a co	an rithin <b>a</b> speci	al treatment area;	Tahoe Regional Planning Agency	
			unty	
15. Check the method or treatments ահիշհ ar an addendum:	e to be applied:	and provide any oth	er information required by the rules i	n
1[ 1Clearcutting 2[ 1Sh 4[ ] Shelterwood; removal step 5[ ] Se	n <b>e{terwood</b> ; prepa eed tree; seed tre		3[] Shelterrood! seed step 6[] Seed tree: seed tree removal ste	;p
?[x] Selection - designate basal area st	ocking standards	to be met: Site	<u> III- 75 sq. ft.</u>	
8[ ] Commercial thinning - designate bas	sal area stocking	standards to be me	t :	
9[] Sanitation salvage - when will stood 10[] Special treatment areas 11[] 112[] Alternative prescription 13[] NOTE: Where the level of stocking is based.	Rehabilitation of Transition method	understocked areas		P

			ural methods or treatments per justify the exception in an ac	
b. [ 1 Yes [X] No	Vill artificial	regeneration be required to	restock the logged area?	
17. C ] Yes [※] No A	re broadleaf or	optional species proposed for	or management? See item 18	
18. [ 1 Ye5 [x] No A	re broadleaf or	optional species to be used	to meet stocking standards?	
It the answer to it	ems 17 or 18 is	yes; list the species and p	rovide the <b>infòrmation</b> require	d by the rules:
	· • ************************************		400 1 7 4/4 B	
HARVESTING PRACTICES				
19. Indicate type of	yarding systems	to be used this plan:		
1[x] Tractor, skid 4[ ] Cable, high-l		2[ ] Balloon, helicopter 55x1 Cable, skyline	3658 Cable, ground-lead 66 ] Animal	
7[ ] Other:				
	Will tractor com	structed layouts be used?		•
21. [x] Yes [ ] Na	Will tractors be	used for directional tree ;	?enillue	
Check items 22 th	rough 25 that ap	ply to the use of tractors.		
23. [X] Yes [ ] No 24. [ ] Yes [X] No	Operations on sl Operations on sl	stable soils or slide areas' opes over 65%? opes over 50% with high or o n cable yarding areas?		
If any of items 22	through 25 are	answered yes, explain and j	ustify as required by the rule	5:
see add	endum "Har		5 ***	
27. Describe sail s THP where requir	3 Moderater tabilization sea red by the rules	present on this THP: [] High, [저 Extreme sures to be implemented or a	eny additional erosion control	measures proposed in th

28. [2] Yes [ ] No Are any alternative practices or exceptions to the standard harvesting or erosion control practices permitted in the rules proposed for this plan? If yes, explain and justify:
see addendum "Harvesting Practices" 22,23,25
29. [3] Ye5 [ 1 No Are timber operations proposed for the winter period? If yes, provide a winter period plan in an addendum or specify compliance rith 16 CAC 914.7(c),934.7(c) or 954.7(c). No winter period plan in needed for cable, helicopter, or balloon yarding. Compliance with 14CAC 914.7( for all tractor operations.  ROADS AND LANDINGS
30. [x] Yes [] No Will any roads or landings be constructed or reconstructed?
If yes, check items 31 through 37 that apply:  31. [] Yes [x] No VVI new roads be rider than single lane nith turnouts?
32. [ ] Ye5 [x] No Will any landings exceed the waximum size specified in the rules?
33. [x] Yes [] No Are logging roads or landings proposed in areas of unstable soils or known slide-prone areas?
34. [ 1 Yes [x] No Will new roads exceed a grade of 15% or pitches of 20% for distance greater than 500 feet?
35. [ I Yes [x] No Are roads to be constructed, other than crossings; within the ratercourse and late protection zone of a class I or !! natercourse?
3b. [] Yes [x] No Will roads or landings longer than 100 feet in length be located on slopes over 55%, or on slope over 50% nhich are uithin 100 feet of the boundary of a natercourse or lake protection zone?  37. [] Yes [x] No Are exemptions proposed for flagging or otherwise identifying the location of roads to be
constructed?
38. If any of items 31 through 37 are answered yes, explain, justify, and give site-specific measures to reduce adverse impacts or, it there is any additional or special infuriation concerning the construction and/or mainter of roads or landings, if required by the rules. Provide necessary intoriation in an addendum.
<u>VATERCOURSE</u> AND LAKES
39. [x] Yes [ 1 No Are there any watercourses or lakes which contain class I through IV raters on or adjacent to the plan area? If yes, complete items 40 through 50.
40. [ 1 Yes [x] No Are any in-lieu practices and/or alternative practices proposed for watercourse or lake profe [f yes, explain and justity:
<u> </u>
Are any exceptions proposed for the tollowing watercourse and late protection zone practices? Check items 41 throw
that apply.
41. [] Yes [x] No Exclusion of the use of watercourses, marshes, wet meadows, and other wet areas for landings roads, or tractor roads?
47. [] Yes [x] No Retention of non-commercial vegetation bordering and covering meadows and net areas?

á	3. [_] Yes	[x] No	Directional felling of trees within the zone away from the watercourse or late?
4	4. [ 1 Yes	[x] No	Increase or decrease of width(s) of the zone(s)?
Á	5, [ ] Yes	[ j No	Protection of watercourses which conduct class IV raters?
2	16. [ 1 Yes	[x] No	Exclusion of heavy equipment from the zone?
4	7. [ 1 Yes	on [x]	Retention of 50% of the overstory canopy in the zone?
4	8, <b>[ 1</b> Yes	[x] No	Retention of SC2 of the understory in the zone?
	f any of ite		rough 48 are ansuered yes, explain and justify it required by the rules and provide necessary lendum.
Α	.?. <b>[∡]</b> Yes	[ ] No	Are residual trees or harvest trees going to be marked rithin the ratercourse or lake Protection zone? It nor explain:
,	An almaticum up par <u>an</u> alla Alban		······································
			escribe the protective measures and zone widths tor the ratercourse and lake protection zones plan area.
		see fe ad.	Are any known rare or endangered species or species of special concern; including key habitat;  associated with the THP area? It yes, in an addendum identify the species and the provisions, to be taken for protection of the species.  Are there any snags which must be felled for fire protection or other reasons? It yes, describe which snags are going to be telled:
		- <del></del>	Are any other provisions for wildlife protection required by the rules? If yes, describe
			provisions:
	CULTURAL RES	OURCES	
	54.a.[ ] Yes	s [x] No	Has an archaeological survey been made of the areas to be harvested?
	ь,[х] Yes		or historical sites located in the area to be harvested?

	HAZARD REDUCTION
	56. What type of slash treatment will be used in the lire protection zone?
	1[] Pile and burn , 2[] Lopping, 3[] Other: 4[X] Not applicable no lire protection zone present
ΝA	57 [] Yes [] No If the clearcutting method is used, will broadcast burning be used for site preparation?
	58. If piling and burning is to be used for hazard reduction, who will be responsible for compliance?
	1[ ] Timber owner: 2[x] Timber operator: 30 ]Timberland owner
	PUBLIC NOTICE
	59. [X] Yes [] No  Are there any ownerships within 300 teet of the plan boundary rhich are than the persons executing this plan? If yes, a list of the names and addresses of the adjaces property owners and a Notice of Intent to Harvest limber sust he included with the plan.
	<u>rests</u>
	60. [ 1 Yes [x] No Are there any adverse insect; disease, or pest problems of significance in the plan area?  If yes; describe the mitigation measures) it any; to improve the health and productivity of the stand in an addendum.
	OTHER INFORMATION
	61. Are there any other existing or planned land use activities including but not limited to other THPs in the area of the proposed THP rhich may combine with the effects of your timber harvesting operation to cause significant advection cumulative enuironmental effects? [ ] Yes; [ 1 No If yes; please describe the other land use(s) and the likely effect as any mitigation nhich would reduce the negative effect in an addendum.
	***

1. [ 1 Yes [ ] No The stocking requirements of the rules 2. [ 1 Yes [ ] No The maintenance of erosion control structures requirements at the rules 3. [ ] Yes [ ] No The marking requirements contained in the rules timber operator assumes all the above responsibilities [X] Yes [ ] No I will provide the timber operator rith a copy of the approved THP.	
After considering the rules of the Board of Forestry and the mitigation measures I have propose? I have determined that the timber operation:  [ 1 will have a significant adverse impact on the environment.  [X] rill not have a significant adverse impact and the environment.  If the operation will have a significant adverse impact on the environment, in an addendum explain why any alternatives or additional mitigation measures that would reduce the impact are not teasible.	
Registered Professional Forester: I certify that I, or my designee, personally inspected the plan area, and the plan complies with the Forest Practice Act and the Forest practice rules.  Signature:	
is hereby given to the Director of Forestry; his agents and employees; to enter the premises to inspect timber operations for compliance with the Forest Practice Act and forest practice rules.  Brooktree Heights, A Limited Partnership, by Hill and Dale Lar Timber Owner: Company, General Partner, Richard H. Guelich III, President  Signature:  Date 5/13/88  Printed Name: Richard H. Guelich III  Brooktree Heights, A Limited Partnership, by Hill and Dale	1c3
UIRECTOR OF FORESTRY	
This Timber Harvesting Plan conforms to the rules and regulations of the Board of Forestry and with the Forest Practice Act.  By:  ( Signature )	,
-	1. [ 1 Yes [ ] No The stocking requirements of the rules 2. [ 1 Yes [ 2] No The maintenance of errosion control structures requirements at the rules 3. [ ] Yes [ 2] No The sating requirements contained in the rules 4 timber operator assumes all the above responsibilities (X) Yes [ ] No I vili provide the viber operator rith a copy of the approved IMP.  After considering the rules of the Board of Forestry and the altigation measures I have propose? I have determined that the Liaber operation: ( I vill have a significant adverse ispect on the environment. [X] rill not have a significant adverse ispect on the environment. [X] rill not a significant adverse ispect on the environment. [X] rill not have a significant adverse ispect on the environment. [Y] rill not have a significant adverse ispect on the environment. [Y] rill not have a significant make significant adverse ispect on the environment. [Y] rill not have a significant adverse ispect on the environment. [Y] rill not have a significant adverse ispect on the environment. [Y] rill not have a significant adverse ispect on the environment. [Y] rill not have a significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not provide the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect on the environment. [Y] rill not not the significant adverse ispect

#### ADDENDUM

#### HARVESTING PRACTICES

22. Operations on unstable soils or slide areas.

Explanation: Several slides occurred on the property during the winters of 1982 & 83. The slides within the intergorges of the main watercourse are too numerous to map and will not be affected by the proposed harvest. The slides located on the plan map have been numbered and described below. They represent the slides that harvesting may impact.

Slide 1 - A small cut bank failure whose toe must be partially removed to reopen the truck road.

Justification- The toe removal will have an insignificant effect on the stability of the slide. Even if the mass moves again, it will only go as far as the road surface. To reconstruct the road to avoid the slide would cause more disruption and result in a road with an undesirable adverse grade.

Slide 2- By far the most active and difficult of all the slides. This is a mass slump which probably originates far above in large depressions in the grassland. The existing road crosses this slump in a zone where channelling begins for watercourses below. Justification- The road into and out of the slumpy ground is in good condition. Little work will be required to reopen the road. Culverts may be helpful in directing water away from the slide mass and into the channels. If excavation is minimized, the use of the road should not add to the instability of the area. To reconstruct a new road elsewhere, would still require crossing this slide mass and necessitate much more soil disruption.

Slide 3- Large cut bank failure which ended up in the road. Justification-Reuse of the existing road will 'result in less soil disruption initially and less potential for further disruption. The slide mass can be almost entirely removed and incorporated into the road prism.

Slide 4- Large, muddy slurry/ debris avalanche which originated from a non-compacted road or landing fill above. The slide material was deposited in the road below.

Justification- The roads were not damaged by the slide. The upper road will require careful drainage so as to avoid channelling water onto the slide face. The lower road can be easily reopened by pushing off the woody debris and incorporating the non-organic material into the road surface.

Slide 5- Another large mud and debris avalanche possibly caused by improper erosion control placement above. Justification- the entire slide area can be avoided- the trail above can be reused but upon completion of use, the water must be channelled away from the affected area. The trail is in the best available location and provides the best access for the timber beyon The proposed road construction nearby drops rapidly so as to avoid the scarp section of the slide. By the time the road crosses the sli area, it's in the area of slide deposition on a stable flat below the scarp. The road surface from the slide to the yarder landing proposed will be either rocked or packed with slash following operations so as to minimize soil erosion from the surface.

23. Operations on slopes over 65%.

Explanation: There are many areas within the proposed tractor operation area where the average slope exceeds 65%. In all cases, these areas are accessed by existing truck roads or skid roads which are still functional.

Justification-

- a.) Environmental- proper use and winterization of existing roads and trails will result in significantly less environmental damage than if a whole new logging network is constructed. Following use of these trails, waterbarring and the packing of slash into the soil surface will minimize erosion. Isolated patches of bare mineral soil will be seeded with rye grass to add to the protection of soil and water.
- b.) Economical- When looking at cable harvesting as a possible alternative for these areas, the costs of logging isolated pockets of timber on steep slopes become prohibitive. Additionally, the terrain doesn't allow for enough deflection to insure adequate residual stand protection.
- 25. Operations within cable yarding areas.

Explanation: Most of the plan area has been tractor yarded before using constructed roads and trails which still appear useable. The area designated on the THP map as cable ground is a rough estimate of what wasn't tractor logged before. Until the timber is marked, the actual breakoff between the two won't be known.

Justification-Rule 914.3e allows for tractor operations where deflection is low. Additionally, once the timber is marked, and should tractor loggable timber be found within designated cable areas, the RPF will notify the Director in writing to request a minor deviation pending field review and approval. Tractor operations will be limited only to areas with existing usable access and outside the WLPZ.

#### ROADS AND LANDINGS

33. Explain: adequately described in "Harvesting Practices Addendum #22 Justification: adequately justified in "Harvesting Practices Addendum" #22(slides 1-5)

#### 50, WATERCOURSE AND LAKE PROTECTION ZONES

Slope Class	30%	30-50%	50-70%
Class I zone width	50'	100'	150'
Class II zone width	50'	50'	100'
Class III zone width	no zones req	uired or necess	ary

#### WILDLIFE

51. During the course of marking, observations will be made to determine if there are any endangered species or habitats within the plan area. The County planning department will be consulted. Should any be located, the Department will be notified immediately and the proper measures taken.

## 61. CUMULATIVE IMPACTS

The plan area is located at the head of a large drainage. There are no significant outside influences affecting the plan area. Downstream from the plan area, housing, farming and ranching all contribute to the sedimentation and pollution of the watercoura

Timber harvesting, as currently practiced in the Santa Cruz mountains and as proposed in this plan should have no negative impacts. Harvesting should have a net benifit to water quality and soil erosion in that the reopening of the road system will allow the operator to redo erosion control that is non-existent or has been so heavily damaged or breeched that it's no longer effective.

RCHAEOLOGICAL RECORDS CHECK REQUEST
'OR REGISTERED PROFESSIONAL FORESTERS Information Center file # 87-THP-19
:o: california Archaeological Inventory FROM: Michael E. Jani Northwest Information Center
Department of Anthropology PROFINITE 535 38th Ave.
Rohnert Park, CA 94928   NOV 1 9 1987   Santa Cruz. CA. 95062
(707) 664-2494 Attention: Christian Carika USUSUS Phone #: 408-476-1015
IDF Timber Harvest Plan# not issued yet RPF License # 1856
County Santa Cruz
Township/Range-Section otn. Rancho Shoquel, T105, R1F
USGS Topographic Quadrangla: Loma Prieta
REPLY BY: X Mail Only (\$15,00*) Telephone (\$20,00*)
I have been granted access to data at the Northwest Information Center of the California Archaeological Inventory and will not disclose specific site locations to unauthorized individuals or in publicly distributed documents without the written consent of the State Historic Preservation Office. Site records and reports resulting from this project will be submitted to the Northwest Information Center within 30 days after completion of the records/reports. I understand that future access to data at the Northwest Information Center is contingent upon compliance with the terms of this
paragraph.
Michael: E. Camp. 11-17-87 Signature Date
U
'NOIE: This request cannot be processed without a project map and prepayment (please make check payable to California Archaeological Inventory).
Bor Intormation Center Use Only -
The project area has/has not been archaeologically surveyed (S- ) and
contains the following recorded archaeological or historical site(s):
See attached map for site location(s). Please contact CDF Archaeologist  Dan Boster or Richard Jenkins (916) 322-0171 for further information.
contains no recorded archaeological sites. This records check did not include the National Register or Kistoric Places, the California Inventor of Historic Resources, and California Kistorical Landmarks. Nor does it include an evaluation of the possibility of unrecorded archaeological or historic resources.
Information Center Staff Oak
·

15. 15.

STIMATED SUP M-87 (4/84)		SOIL EF				ounty 9	oil S	Irvey	STA B	TE OF OARD	CAL OF F	IFOR ORES	ΝΙ. TR
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. PERMEABILITY	£	Glow		Mode	cate	Ra	pid						
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THE DETERMINATION IS

■ 第7540-130-0435

#### SROOKTREE RANCH HARVEST PLAN MAP



HARVEST AREA (tractor/yarder option) Site 111
HARVEST AREA (yarder only) EHR-extreme Site III
EXISTING LANDING

EXISTING SEASONAL ROAD

EXISTING ALL WEATHER ROAD
PROPOSED VARDER LANDING

PROPOSED YARDER LANDING PROPOSED SEASONAL ROAD

SPRING LOT

O PROPOSED LANDING

SCALE: 1"= 1000'

#### MAILING LIST

Juliette W. Suhr, 2770 Weston Rd., Scotts Valley, CA. 95066
Albert 8. Smith, 14561 Winchester Blvd., Los Gatos, CA. 95030
John H. Ehret, Trustee, 1253 Cox Rd., Aptos, CA. 95003
Norman and Angelika Black, 441 Ranchitos del Sol, Aptos, CA. 95003
Telford Inc., 600 Rider Rd., Watsonville, CA 95076
Muriel Hauer 2460 Pleasant Valley Rd., Aptos, CA. 95003

Kenneth and Muriel Marks, 899 Green St., No. 500, San Francisco, CA.

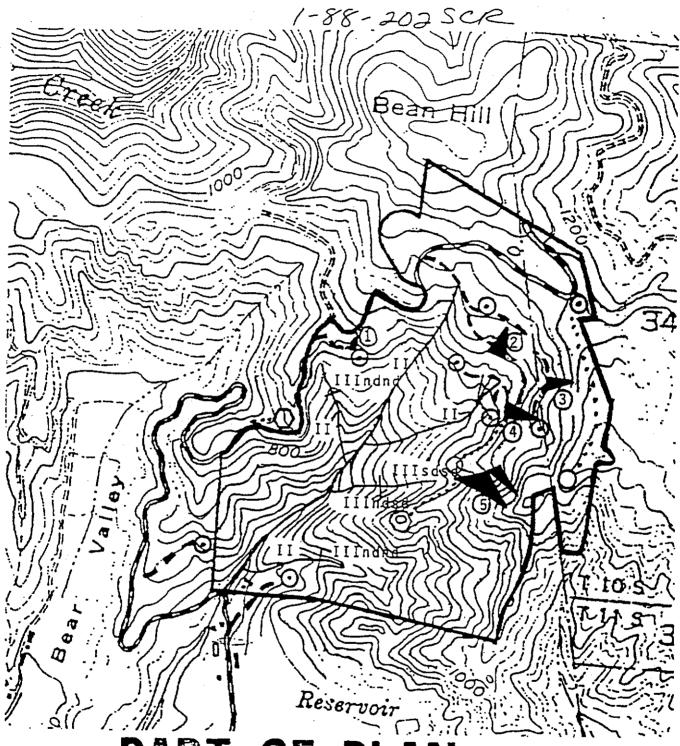
Muriel H. Pagani, 2460 Pleasant Valley Rd. Aptos, CA. 95003 Sherry Mehl, County Government Center, 701 Ocean, Santa Cruz, CA. 95060 Pajaro Valley School Dist., 165 Blackburn Ave. Watsonville, CA. 95076 Watsonville Mater Dept., 250 Main St., Watsonville, CA. 95076

notice of intent sent to all

<u>^₽</u>-

M Jani

# BROOKTREE FAN<€! WATERCOU : DESIGNATION AND SLIDE AF, MAP



# PART OF PLAN

SCALE 1"= 1000'

 $\Delta T^{**}$ 

WATERCOURSE

WATERCOURSE PROTECTION MEASURE

ndnd = no dirt, 'no debris

ndsd = no dirt, stabilize debris
sdsd = stabilize dirt and debris

SLIDE AREA, SLIDE NUMBER (refer to section 22, addendum)

#### REVIEW TEAM RECOMMENDATIONS THP 1-88-202 SCR Lands of Brooktree Heights

- 1. A fire protection zone shall be established around the trailer which is currently used for human habitation.
- 2. At elide 5, the road shall be conetruoted across the debris slide scar by placing fill behind a temporary log crib wall. The logs used for cribbing shall be merchantable and held behind stumps. Following the completion of the harvest and before the winter period, the crib logs shall be pulled and the fill allowed to dry ravel down the slopes. If some cutting is needed to cross this area, the cut slope shall be no higher than 6 feet, and no steeper than 3/4:1.

The new road across the 75% aide slopes shall be built as a partial cut and partial fill, with the fill retained behind a temporary merchantable log retaining wall. Upon completion of use and before the winter period, the slope shall be recontoured by placing the fill on the cut portion of the road. This will probably require using a back hoe or hydraulic excavator to remove the fill from behind the crib logs. The cribbing shall not be removed until after the slope is repaired. The exposed soil on this steep elope shall be grass seeded and mulched with either slaah or straw.

- 3. The haul route for this THP will be to the northeast along roads owned by Albert B. Smith and Telford Smith. Road license agreements between these parties and Big Creek Lumber Company are appended. An agreement authorizing Big Creek-s use of roads, trails, and landings on the Suhr property for this timber operation, is also appended.
- 4. 87 of the THP shall be changed to May 31, 1988, and #8 to May 31, 1991.

PART OF

THESE REVIEW TEAM RECOMMENDATIONS ARE ACCEPTABLE.

DALE F. HOLDERMAN, RPF 69

May 19, 1988





Aug. 28, 1988

Nancy Drinkard Calif. Dept. of Forestry Felton Office

P.O. Drawer F-12

j.p

Dear Nancy:

I would like to request a mor plan amendment for the Brooktree (1-88-2 Ranch timber harvest plan. The amendment will include the addition of a constructed skid trail as shown on the attached map. In addition, I would like to upgrade the watercourse classification to class II for the watercourse adjacent to the trail. These changes are necessary to enable log skidding in the area as the 1982 storm caused irreparable damage to the existing skid trail system. The damage stemmed from streamflow erosion which caused streamba collapse which then destroyed the once used main skid road which accessed the entire draw. The new trail will be constructed on generally gentle slopes, well away from the streamcourse. All feasible alternatives have been looked at; this one provides the maximum protection of the streamcourse while remaining economically feasible.

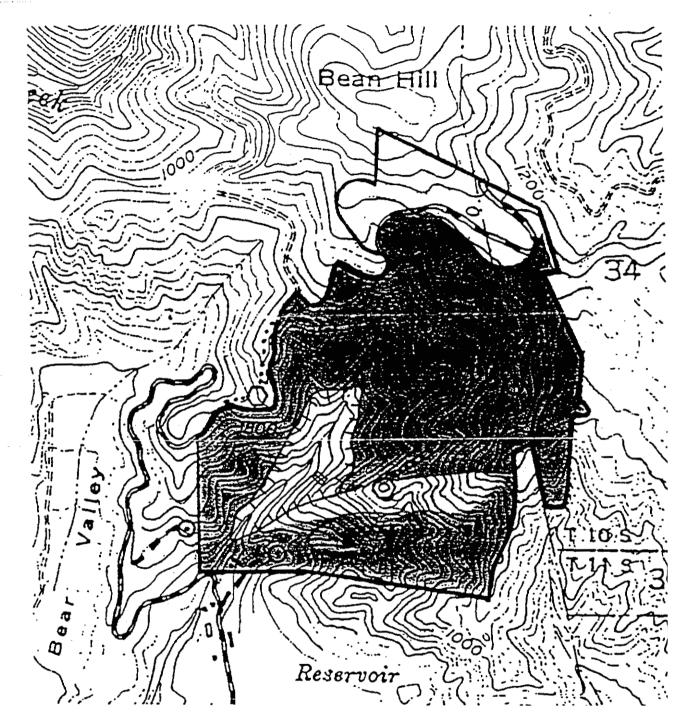
Thank you,

MICHAEL E. JANI

#1856 Forester

Michael E. Jane

#### BROOKTREE RANCH HARVEST PLAN MAP



HARVEST AREA (tractor/yarder option) Site III
HARVEST AREA (yarder only) EHR-extreme Site III
EXISTING LANDING
EXISTING SEASONAL ROAD
EXISTING ALL WEATHER ROAD
PROPOSED YARDER LANDING
PROPOSED SEASONAL ROAD
SPRING LOT
O PROPOSED LANDING
PROPOSED LANDING
PROPOSED SKID ROAD (MINOR AMENDMENT)

WATERCOU : BROOKTREE RANCH SLIDE AF, MAP



# PART OF PLAN

SCALE 1"= 1000'

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WATERCOURSE

WATERCOURSE PROTECTION MEASURE

ndnd - no dirt. no debris

П

ndsd = no dirt, stabilize debris
sdsd = stabilize dirt and debris

SLIDE AREA, SLIDE NUMBER (refer to section 22, addendum)



2 (minos)

September 16, 1988

Mr. Leonard Theiss Department of Forestry P. O. Box 670 Santa Rosa, CA 95402

Dear Len:

The second Review Team Recommendation on THP 88-202 SCR (see attached) requires that we place certain fill material in the road prism "before the winter period" to help prevent land sliding of the cut face. We would like to amend that requirement by replacing the language quoted above with "before 10 inches of rain have fallen, or November 15th, whichever occurs first". The justification for that change is as follows:

- 1. The weather can be beautiful between October 15 and November 15.
  - Early rains generally are not intense.
- Soil generally does not begin to slide until there has been some significant rain.
- The required work will be completed in a timely fashion before the risk of sliding becomes great.

We have reviewed the proposed change with Nancy Drinkard, and would very much appreciate your appro-The additional time will be very helpful to us in that it should enable us to complete the operation this year.

John Sp. Htm., Dru. Minis:

John Sp. Htm., Dru. Minis:

DALE F. HOLDERMAN

Registered Professional

License Number 65

'Sincerely,

License Number 69

EXHIBIT

TIMBER CRUISE SUMMARY

41

# PROJECT REPORT(LA) CATALOG

PROJECT B	Tract	t: BRO	OKTREE	HTS	PAGE 1 DATE: 12/06/99 TIME: 12:11pm								
TYPE NO ACRES	SP YRS	D4H	FF	BOL HGT	BA/A SQFT		LOGS /AC	AVE CF	LOG BF	-PER CF	ACRE- BF	TO	TAL-:- MI3F
0001 18	0.00 DF 100 RW 100		_		1.8 114.6	0.3 44.3	1 104	96 42	489 213	80 4319	405 22138		73 39135
	TYPE	21.9	82	84	116.4	44.5	105	42	215	4399	22542	7918	40 ₿8
PR 18	0.00	<u> </u>									· · · · · · · · · · · · · · · · · · ·		
•	DF	34.1			1.8				489	80		143	73
	RW	21.8	82	83	114.6	44.3	104	42	213	4319	22138	7774	3985
	PROJ	-				44.5	105	42	215	4399	22542	7918	4058

# PROJECT REPORT(FA) SPP, SORT, GRADE, LEN % - BDFT

Plots 20 BFT:C PAGE 1
Trees 183 CUB:1 DATE: 12/06/!
TRACT: BROOKTREE HTS TIME: 12:10pt PROJECT BROOKTRE Acres: 180.00

TIOS R01E S34 T0001

		:	PCT	BDFT /	ACRE	TOT	%BDFT/	'AC BY	GROSS	LEN.	AV	BDFT/	LO
SP	SORT	GRADE B	DFT	GROSS	NET	MBF	12-19	20-25	26-34	35-40	LN	LOG	ACI
DF	DOMESTIC	2SAWMILL	58	267	234	42				100	36	842	
DF	DOMESTIC	3SAWMILL	35	163	140	25				100	36	503	
DF	DOMESTIC	4SAWMILL	8	52	31	6			4	96	35	114	
DF	CULL	0		4									
DF	TOTAL	_	2	486	405	73			0	100	36	489	
RW	DOMESTIC	2SAWMILL	48	11100	10688	1924	1		2	97	38	480	
RW		3SAWMILL	44	9873	9743	1754		4	14	82	35	203	
RW	DOMESTIC	4SAWMILL	8	1808	1708	307	15	23	43	19	24	51	
RW	CULL	0		428									
RW	TOTAL	_	98	23208	22138	3985	2	4	10	84	32	213	1
PRO	JECT TOTAL		100	23693	22542	4058	. 1	4	10	85	32	215	1

# TYPE REPORT(IB) STAND TABLE BY D4H 1" CLASS - SIDE

PROJECT				OOKTREE H	HTS 180.00	Plots Trees JH		FT:C UB:1		1 12/06/5 12:18pn
SPECIES	D4H	AVE. TOT.HT	TREES/ ACRE	TONS/ ACRE	BA/ ACRE	CUFT/ ACRE	BDFT/ ACRE	BDFT PCT	LOGS/ ACRE	TOTE MBI
DOUG FIR	32	144	0.0	0.08	0.1	3	16	4	0	•
	34	138	0.3	2.02	1.6	7 1	355	88	1	64
	36	151	0.0	0.11	0.1	4	22	5	0	4
	38	171	0.0	0.05	0.0	2	12	3	0	•
DOUG FIR	AVE.		0.3	2.27	1.8	80	405	2	1	7 <b>:</b>
REDWOOD	12	68	3.0	1.34	2.4	54	223	1	4	4(
	13	64	0.8	0.38	0.7	15	55	0	1	1(
	14	73	4.0	2.64	4.3	106	445	2	7	8(
	15	78	0.8	0.63	0.9	25	105	0	' 2	15
	16	83	5.0	4.83	7.0	193	815	4	9	14
	17	88	0.8	0.95	1.2	38	183	1	2	3:
	18	98	6.3	9.48	11.0	379	1725	8	13	311
	19	105	0.3	0.47	0.5	19	100	0	1	1.8
	20	112	3.5	7.21	7.6	288	1413	6	10	254
	22	107	3.0	7.36	7.9	294	1450	7	7	261
	23	101	1.0	2.57	2.9	103	523	2	3	94
	24	111	4.0	11.72	12.6	469	2400	11	12	431
	26	121	5.5	20.36	20.3	814	4178	19	16	75:
	27	123	0.5	1.40	2.0	56	320	1	1	5{
	28	134	1.0	4.45	4.3	178	985	4	3	17'
	30	130	1.8	9.24	8.6	370	2025	9	5	36t
	32	131	1.5	9.05	8.4	362	1995	9	5	35!
	34	137	0.5	3.51	3.2	141	810	4	2	14(
	36	139	1.0	8.01	7.1	320	1820	8	3	321
	38	155	0.3	2.39	2.0	96	570	3	1	10:
REDWOOD	AVE.		44.3	107.97	114.6	4319	22138	98	104	398!
TYPE AVE	•		44.5	110.25	116.4	4399	22542	100	105	4051

#### PROJECT REPORT(KA) STATISTICS - UNSTRATIFIED

Plots 2 BFT:C Trees 183 CUB:1 PAGE 1

DATE: 12/06/ TIME: 12:10p PROJECT BROOKTRE TRACT: BROOKTREE HTS TWP 10S RGE 01E SEC 34 TY 0001 AC 180.00 JH

TWP 10S RGE 01E SEC 34 TY 0001

devia sa sana ili. S

PROJECT ACRES: 180.00 TOTAL TYPES: 1

FIXED ARE	A PLOT S	IZE:		F1	0.20	F2		F3		
					ES	STIMA	TED	PERCENT		
				EES		TOTA		SAMPLE		
	PLOTS	TREES		PLOI	[	TREE	S	TREES		
TOTAL CRUISE	20 20	178 178		3.9 3.9		801	<b>-</b>	2.2		
COUNT	20	178	,	3.9		801	<b>J</b>	2.2		
BLANKS										
100%		5								
				STAN	ID SUI	MMARY	=			
	SAMPLE	TREES	AVE E		BASZ		GROSS	NET	GROSS	NET
	TREES	, -		LEN		$\mathcal{A}$	•			•
DOUG FIR	6	0.3	-	111		. 8	486			
REDWOOD	177	44.3	21.8	83	114	<b>.</b> 6	23208	22138	4405	4319
TOTAL	183	44.5	21.9	84	116	. 4	23693	22542	4485	4399
SD:1	COEFF	_	BAS	SAT. A	REA/	ACRE	#	OF PLOTS	REO	TNF. POE
· / <del>·-</del>	VAR,				AVE		GH	5%	10%	15%
DOUG FIR	447.2				1.6		. 2			
REDWOOD	39.9				4.6					_
TOTAL	41.2	9.2	105.5	11	.6.2	126	. 9	68	17	8
SD:1	COEFF			NET E	BF/AC	RE	#	OF PLOTS	REO	INF. POE
	VAR.	% S,E,∛	LOW		AVE	HI	GH	5%	10%	15%
DOUG FIR	447.2				355		10			
REDWOOD TOTAL	49.3 51.1	11.0 11.4		22	2138 2493	245 250		104	26	12
IOIAL	21.1	11.4	19925	44	4493	250	60	104	20	12
SD:1	COEFF				IC FT	/ACRE	#	OF PLOTS	REQ	INF. PO!
	VAR.		k LOW		AVE		GH	5%	10%	15%
DOUG FIR	447.2				71		42			
REDWOOD	45.2	10.1	3883		1319		55	0.0	2.2	10
TOTAL	47.0	10.5	3929	4	1390	48	51	88	22	10