Moore Joint Timber Management Plan

For

Parcel One & Parcel Two

In

Portions of Section 2, T1N, R1W, H. B. & M. & Portions of Section 35, T2N, R1W, H. B. & M.

Prepared by
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November 29, 2022

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I. Introduction:

The Moore property is located west-northwest of Rio Dell, California. The property is 212 acres in size and is composed of two separate patent parcels. This timber management guide was prepared to facilitate the lot line adjustment of this 212 acres (2 patent parcels). Parcel One, which shall be 81 acres, and Parcel Two which will be 131 acres. Neither parcel is considered substandard in regards to TPZ zoning. This timber management guide was prepared in order to facilitate the lot line adjustment.

Landowner's Name and Address:

Alexander Moore P.O. Box 514 Ferndale, CA 95536

Parcels owned by Alexander Moore

I. Stocking

The property consists of three age classes of timber; regeneration, pole and small merchantable timber, and large saw timber. The parcels currently have between 59% (Parcel Two) and 65% (Parcel One) of the area stocked with conifers (to state standards) with the rest of the property containing hardwood species (see below) and/or open prairies. The hardwoods present on the subject property (Parcel One, Parcel Two) are predominantly tan oak, madrone, pepperwood and other miscellaneous hardwoods. The predominant conifer species are Douglas-fir and redwood, with incidental grand fir. The species composition, including the dominance of hardwood over portions of the parcels, is a result of historic harvests that targeted predominantly the conifers with minimal reforestation post harvest.

Parcel One – 65% Stocked with conifers

Parcel Two - 59% Stocked with Conifers

Note: Stocking percentages represent the timbered portions of the parcel.

II. Access

Parcel One may be accessed by way of Blue Slide Road (County Road) with various existing seasonal and permanent roads located within and adjacent to the parcel utilized in accessing the interior of the parcel. (see Project Area Zoning Map: Page 16)

Parcel Two may be accessed by way of Blue Slide Road (County Road) with various existing seasonal and permanent roads located within and adjacent to the parcel utilized in accessing the interior of the parcel. (see Project Area Zoning Map: Page 16)

Both Parcels have separate seasonal roads which provide access to the interior of the parcels. These seasonal roads are accessed via Blue Slide Road (County Road). Neither Parcel will need a right-of-way deeded prior to the split.

III. Management Statement

These parcels are located approximately 1.9 miles west of Rio Dell, CA and approximately 0.42 miles south across the Eel River from Metropolitan, CA.

The Zoning is Timber Production Zone (TPZ) and Agriculture Exclusive (AE).

Parcel One is occupied by site II timberland (65%) and AE areas and stream bed lacking site class designation (35%). This parcel is located on a broad flat bench associated with various watercourses, including Slater Creek and the Eel River. It is timbered with young, mixed stands of predominantly redwood, Douglas-fir, grand fir, tan oak, madrone and pepperwood. Approximately 34% of Parcel One, located on benches and associated watercourses, is considered agricultural lands (Agriculture Exclusive zoning).

Parcel Two is made up of site II timberland (59%), and AE areas lacking site class designation (41%). This parcel is located on a flat bench, and main ridgeline running northeast to southwest. The parcel is timbered with younger mixed stands of redwood, Douglas-fir, grand fir, tan oak, madrone and pepperwood. Approximately 41% of Parcel Two is considered agricultural lands (Agriculture Exclusive zoning).

The Management Objectives for all of the parcels are:

- 1. Improve timber growth through future selective harvests.
- 2. Create and maintain unevenaged stands using selective harvests.
- 3. Maximize recreational, aesthetic, and wildlife values through controlled harvests.
- 4. Maximize timber production by restocking under stocked areas.

IV. Property Description

A. Legal Description:

Parcel One

Portions of the S ½ of Section 35, T2N, R1W, H. B. & M.

Assessor's Parcel Number: 205-081-012-000

205-011-037-000

Parcel Two

Portions of the N ½ of Section 2, T1N, R1W, H. B. & M.

Assessor's Parcel Number: 205-081-012-000

205-011-037-000

205-011-007-000

205-031-005-000

B. Location and legal status of Right-of-Way and Easements:

The property is accessed from a county road (Blue Slide Road).

Parcel One is accessed by way of two existing seasonal roads which begins at Blue Slide Road. There are no required rights-of-way to access this parcel. Refer to the General Location Map and Project Area Zoning Map for road locations.

Parcel Two will be accessed by way of an existing seasonal road which begins at Blue Slide Road (County Road). There are no required rights-of-way to access this parcel. Refer to the General Location Map and Project Area Zoning Map for road locations.

C. Location of Improvements and Non-Timber Production Uses:

As indicated above, a portion of Parcel One is zoned Agriculture Exclusive (34% of Parcel One) and Unclassified (0.01% of Parcel One). A portion of Parcel Two is zoned Agriculture Exclusive (41% of Parcel Two). As indicated, the balance of the parcels are zoned TPZ.

Domestic Water, Aspect, and Soils:

Parcel One -

There are no domestic water supplies located within this parcel. There is a domestic water supply within 1,000 feet downstream of the parcel boundary.

The parcel is located on a broad flat. and a ridge running east to west, and northwest to southeast. The parcel is located mainly on south, east and west facing slopes. Elevation ranges from approximately 40 feet to approximately 280 feet. The temperature extremes on the parcel are moderated by the proximity to the ocean but are characteristically hot and dry during the summer and cold and wet during the winter.

The soils within the parcel are made up of Larabee (914), Unclassified Secondary Soils on Terraces and Benches (400), and Stream Bed (No Soil Number). The Larabee and Unclassified Secondary Soils all occur individually. The Larabee soil series has a depth of 36 to > 48 inches. The Secondary Soils have a depth of ~12 to 36 inches. The Larabee soils are considered to have good drainage, while the Secondary soils are considered to have moderate drainage. The Larabee and Secondary soils are rated high for timber production based on the Soil-Vegetation Maps of California. The parcel contains site II timberland designation, along with areas of grassland lacking timberland site designation.

The following Stand and Stock Table was based on a variable plot cruise performed by James L. Able Forestry Consultants, Inc., for the existing NTMP in which plots were systematically placed on a 2 ½ X 5 chain grid over the entire property. At each plot, data was collected to determine the growth and yield of the parcel. Current stand tables were generated utilizing the data collected during this variable plot cruise and a stand table projection growth model. These calculations were field verified utilizing basal area sampling and ring count growth evaluation.

Parcel One - 2022 Stand Table

DBH	Redwood	Douglas-fir	Grand fir	Tan Oak	Red Alder	Big Leaf Maple	California Bay
0"- 4"	33		79	0	3	0	0
5" - 8"	19	Ö	0	2	19	0	0
9" - 12"	32	0	0	3	0	0	0
13" - 16"	40	0	1	3	2	0	6
17" - 20"	14	0	0	0	0	2	1
21" - 24"	9	0	1	0	0	1	3
25" - 28"	4	0	1	0	0	0	0
29" - 32"	3	0	0	0	0	1	0
33" - 36"	1	0	0	0	0	0	. 0
37" - 40"	2	0	0	0	0	Ō	0
41" - 44"	1	0	0	0	0	0	0
45" - 48"	. 0	0	0	0	0	0	0
49" - 52"	1	0	0	0	0	0	0
53" - 56"	0	0	0	0	0	Ô	0
57" - 60"	0	0	0	0	0	0	0
61" - 64"	0	0	0	0	0	0	0
65" - 68"	0	0	0	0	0	0	0
TPA	159	6	83	9	24	4	10

Note: The above table indicates the total number of trees on Parcel One as a whole,

CONIFER GROWTH PER ACRE PER YEAR (Redwood, Douglas-fir, Grand fir) 967 Board Feet

Conifer Stocking - 65%

Note: Conifer Growth and Conifer Stocking represents the timbered portion of the parcel.

Parcel Two

There are no domestic water supplies within the parcel. There are no known domestic water supplies within 1,000 feet downstream of the parcel boundary.

The parcel is located on a flat, and ridges running southwest to northeast, south to north, and northwest to southeast. The parcel is located on north, west and east facing slopes. Elevation ranges from approximately 40 feet to approximately 440 feet. The temperature extremes on the parcel are moderated by the proximity to the ocean but are characteristically hot and dry during the summer and cold and wet during the winter.

The soils within the parcel are made up of Larabee (914), and Unclassified Secondary Soils on Terraces and Benches (400). The Larabee and Unclassified Secondary Soils all occur individually. The Larabee soil series has a depth of 36 to > 48 inches. The Secondary Soils have a depth of ~12 to 36 inches. The Larabee soils are considered to have good drainage, while the Secondary soils are considered to have moderate drainage. The Larabee and Secondary soils are rated high for timber production based on the Soil-Vegetation Maps of California. The parcel contains site II timberland designation, along with areas of grassland lacking timberland site designation.

The following Stand and Stock Table was based on a variable plot cruise performed by James L. Able Forestry Consultants, Inc., for the existing NTMP in which plots were systematically placed on a 2 ½ X 5 chain grid over the entire property. At each plot, data was collected to determine the growth and yield of the parcel. Current stand tables were generated utilizing the data collected during this variable plot cruise and a stand table projection growth model. These calculations were field verified utilizing basal area sampling and ring count growth evaluation.

Parcel Two - 2022 Stand Table

DBH	Redwood	Douglas-fir	Grand fir	Tan Oak	Red Alder	Big Leaf Maple	California Bay
0"- 4"	28	16	28	0	2	0	0
5" - 8"	45	15	6	0	6	0	0
9" - 12"	50	7	2	4	6	1	2
13" - 16"	14	0	0	2	1	0	1
17" - 20"	8	0	0	2	0	0	1
21" - 24"	9	0	0	0	0	0	0
25" - 28"	7	0	0	0	0	0	0
29" - 32"	1	0	0	0	0	0	0
33" - 36"	1.	0	0	0	0	0	0
37" - 40"	2	0	0	0	0	0	0
41" - 44"	1	0	0	0	0	0	0
45" - 48"	O	0	0	0	0	0	0
49" - 52"	1	0	0	0	0	0	0
53" - 56"	0	0	0	0	0	0	0
57" - 60"	0	0	0	0	0	0	Ō
61" - 64"	0	0	0	0	0	0	0
65" - 68"	0	0	0	0	0	0	0
TPA	166	38	36	8	15	2	5

Note: The above table indicates total number of trees on Parcel Two as a whole.

CONIFER GROWTH PER ACRE PER YEAR (Redwood, Douglas-fir, Grand fir) 1,165 BOARD FEET

Conifer Stocking – 59%

Note: Conifer Growth and Conifer Stocking represents the timbered portion of the parcel.

V. Management Description

Management History:

The property was harvested in the mid 1950's after having been used primarily as range land for grazing, and again in the 1990's and 2015. Burning was a management tool that was also utilized on the property. The previously mentioned harvests included a mix of conifer and hardwood management prescriptions using the selection method (single tree/group) in order to attain unevenaged stands of timber. The main private road system has been maintained and upgraded at various times.

Recommended Silviculture:

Due to the overall gentle to moderate slopes, aspect, stocking, species mix, age classes present and site conditions (moderate to good) of the parcels, moderate amounts of timber management have taken place over the past 25 years. With the conditions present, and the desires of the owners, the timber would be best managed under unevenaged management. The property currently has an NTMP in place and utilizes unevenaged management. This type of silviculture would utilize single tree and group selections and would remove the hardwood as it becomes merchantable while increasing the conifer component over the area. Regeneration of the area would utilize artificial conifer regeneration in conjunction with natural conifer regeneration to ensure adequate site occupancy. As per the NTMP, Group selection units can be no larger than 2.5 acres in size and must be separated by areas of like size. This would mean that only a portion of the area would be harvested at any one time. The use of unevenaged management on these parcels will mean that merchantable volume could be harvested periodically, while maintaining a forested component. The retention of standing timber will act as shade and a seed source. This will be beneficial on the harsher sites.

Cutting Cycle, Stand Regulation and Regeneration, and Intermediate Treatments:

Due to the current species composition, with much of the area having a large hardwood component and the size and age of the current stands, the initial entry (single tree/group selection) should occur within 5-10 years (by year 2030) on the various parcels. On Parcel One, there is approximately 2/3rds of the area that has merchantable Douglas-fir, redwood, grand fir and hardwood which could be harvested at this time and it is anticipated that the initial entry will occur within the next 10 years. This merchantable volume is present over the majority of the parcel (excluding the AE areas). On Parcel Two, there is approximately half, or slightly more, of the area that has merchantable Douglas-fir, redwood, grand fir and hardwood which could be harvested within the next 5 to 10 years as well. This merchantable volume is present over the majority of the parcel (excluding the AE areas). These areas could be harvested under a selection type harvest (single tree/group selection). This type of harvest would remove about one fourth to one third of the merchantable timber available at the time of harvest. Such harvests should be done favoring retention of conifer growing stock and removal of some of the larger hardwood component. Artificial regeneration should be used (conifer seedlings, Douglas-fir and/or redwood) to capture the site. If artificial regeneration is used, the seedlings will be planted to approximately 300 seedlings per acre.

The second entry would occur when more of the timber, both conifer and hardwood, has become merchantable and where the crowns have closed out in the area that was previously harvested. A single tree or group selection type harvest should be used to remove more of the hardwood component and incidental conifers. This should take place approximately 10 to 15 years

following the first entry. Artificial regeneration should be used (conifer seedlings, Douglas-fir and/or redwood) to capture the site. Seedlings should be planted to approximately 300 seedlings per acre.

The third entry should be anticipated on all of the parcels within 10 to 15 years following the second entry. This entry will be a single tree and/or group selection with a focus on removing merchantable hardwood and incidental conifers. After this entry much of the merchantable hardwood on the parcel should have been harvested. In areas where seedlings are planted, approximately 300 trees will be planted per acre.

The fourth entry should be anticipated for all of the parcels within 10 to 15 years following the third entry. This harvest would be a single tree selection and/or thinning on the first area harvested and those areas that were young regeneration during the initial entry. The thinning will favor the best growing, most wind firm trees as leave trees. Approximately 30% of the basal area would be removed. The scattered residual conifers in the harvest area would also be removed in conjunction with the thinning of the new age class.

The fifth entry should be anticipated for all of the parcels 10 to 15 years following the fourth entry. The harvest would be primarily a single tree selection and/or thinning on the second area harvested, favoring the best growing, most wind firm trees as leave trees. Approximately 30% of the basal area would be removed. The scattered residual conifers associated with the selection area would also be removed in conjunction with this harvest. Group selection harvest could be done on these larger scattered residual conifers and hardwoods and poorly stocked areas as well.

This type of harvesting would allow for an area to be entered while still maintaining growth and a forested component. The entries would be staggered due to the initial harvest dates. The initial thinning harvests would occur on an area over a possible 10 to 15 year period beginning at age 45 - 55 years with selections occurring at approximately age 60.

Expected Yields:

Parcel One -

According to the NTMP and verified by published yield tables, the present growth rate for the parcel is approximately 967 board feet per acre per year. This is less than indicative of the potential of this property. This property is not fully stocked with conifers, therefore the growth rate should be approximately 2,410 board feet per year at the current stand age of approximately 50 years. According to published Yield Tables, Site II lands should have between 58,000 – 82,000 board feet per acre at 50 years of age. These tables were calculated for evenaged stands, which is not the planned management objective (unevenaged stands) for the parcel so the average volume per acre should be less than these projected volumes.

Parcel Two-

According to the NTMP and verified by published yield tables, the present growth rate for the parcel is approximately 1,165 board feet per acre per year. This is not indicative of the potential of this property. If the property were fully stocked with conifers, the growth rate would be approximately 2,410 board feet per year at the current, average, stand age of approximately 50 years. This would indicate, according to published Yield Tables, Site II lands should have between 58,000 – 82,000 board feet per acre at 70 years of age. These published tables were calculated for evenaged stands. Unevenaged stands are the planned management objective for the parcel, and so the average volume per acre should be less than the projected volumes.

Condition of Access System:

The appurtenant access is made up of one county road (Blue Slide Road) and various seasonal roads. The county road has a paved surface that is in very good condition, allowing for year round use. Parcels One and Two contain various existing seasonal roads within their boundaries. These roads are in generally good condition. The majority of the roads are usable for vehicular traffic at this time. Some of the seasonal road system requires minor reconstruction and surface blading.

Harvesting System:

Parcel One -

The slopes on the parcel range from 0% to 70% with most of the area in the 20-50% range. There are numerous existing skid trails and truck roads that allow access to the parcel on the more gentle slopes. The recommended yarding system is tractor-cable option. A tractor/rubber tired skidder would be used due to the gentle to moderate slopes present within the parcel and existing truck road and skid road system, while a cable yarder could be used on the steeper slopes. (see Harvest System Map)

Parcel Two-

The slopes on the parcel range from 0% to 70% with most of the area in the 20-50% range. There are numerous existing skid trails and truck roads that would provide access into the majority of the parcel. The proposed yarding system is tractor-cable option. A tractor/rubber tired skidder would be used due to the gentle to moderate slopes present within the parcel and the existing road and skid road system, while a cable yarder could be used on the steeper slopes. (see Harvest System Map)

Protection from Fire:

During the summer months, the project area is hot and dry. During this season, fire may pose a serious threat, particularly in rural settings such as this one. Any housing structures should be constructed in accordance with PRC 4290 which mandates landowners to provide adequate access for fire trucks, the use of fuel brakes and fire resistant structures and building materials. The landowner should also strive to keep fuel loads to a minimum.

Logging slash should be treated as follows:

Within 100 feet of the edge of public roads, and within 50 feet of the edge of the traveled surface of permanent and seasonal private roads open for public use, where permission to pass is not required, slash created by timber operations or road construction should be treated by lopping for fire hazard reduction, piling and burning, chipping, burying or removal from the zone.

All woody debris created by timber operations greater than one inch but less than eight inches in diameter within 100 feet of permanently located structures maintained for human habitation should be removed or piled and burned. All slash created between 100-200 feet of permanently located structures maintained for human habitation should be lopped for fire hazard reduction, removed, chipped or piled and burned.

Local fire protection agencies are listed as follows:

Rio Dell Volunteer Fire Department 50 W. Center Street Rio Dell, CA 95562 (707) 764-3329

Or

CALFIRE
Fortuna Station
118 N. Fortuna Blvd.
Fortuna, CA 95540
(707) 725-4413

Emergency Vehicle Access and Emergency Egress:

The parcels can be accessed via Blue Slide Road (Parcel One and Parcel Two) for emergency vehicles (See Project Area Map). Roads constructed on the parcel should be in accordance with PRC 4290, which mandates road widths, turn around areas and other physical characteristics, which would accommodate emergency vehicles.

Protection from Insects and Disease:

Disease and insect epidemics are not common in the area, and the parcels do not appear to have significant insect or disease problems. However, the proposed harvest should promote healthy, vigorous trees while eliminating those trees which might be the least resistant to attack by insects or diseases. The promotion of a healthy stand should decrease the chances of insect or disease problems.

It should be noted that these parcels are within the Sudden Oak Death "Zone of Infestation" declared by the California Board of Forestry. Any harvest or removal of timber or forest products must comply with the limitations set forth at the time of harvest by the California Department of Forestry and/or the California Department of Food and Agriculture to prevent the spread of the pathogen.

Erosion:

Parcel One and Parcel Two exhibit some minor existing erosion problems. However, as a means to prevent erosion problems, adequate drainage facilities such as waterbars, rolling dips and culverts should be installed wherever needed on the existing/proposed road system. Road cuts should be kept to a minimum and located in areas which will require the least amount of excavation. Tractors should be excluded from any watercourses, and skid trails and roads should have waterbars, rolling dips and/or cross drains placed in accordance to the Forest Practice Rules.

VI. Management Organization

The property currently has a Non-Industrial Timber Management Plan (1-14NTMP-006HUM) in place. Any future timber harvest operations must conform to the Forest Practice Rules in place at the time of the approval of the NTMP. These future harvests will require the services of a Registered Professional Forester to prepare and review the management and harvest activities proposed in the Non-Industrial Timber Management Plan (1-14NTMP-006HUM)) and associated Notice of Timber Operations (NTO). The cost to activate the NTO can range from approximately \$5,000 to \$10,000. Once an NTO is activated, logging costs, road reconstruction and trucking can range from \$250 to \$350 or more per thousand board feet harvested. The Department of Fish and Wildlife and Water Quality also require a fee for review and issuance of permits for the project.

VII. Management Schedule

As previously outlined in the Management Description, the first harvest could occur within approximately 5 to 10 years on both of the parcels. Harvesting should be conducted during the normal operating season (April 1st - October 15th). Planting activities should take place after November 1st or after at least 2" of rainfall has been recorded, whichever occurs first. Fire protection facilities should be installed before the commencement of fire season, or directly after harvesting or road building activities are complete.

The previously described management recommendations were provided to achieve high quality, conifer timber by maximizing their growth rate and growth potential. The proposed unevenaged management should provide protection for wildlife and watershed concerns. These parcels could be managed in a number of different ways to promote different types of wood products or it could be left unmanaged. The landowner should participate in every aspect of land management decision making. Management decisions should be based on the landowner's needs and desires. These decisions should be amended into this management guide.

This management plan must be updated every five years. Updates should reflect any changes in the Forest Practice Rules, current ownership's, stand conditions, or recommended treatments.

Eric Caraft, RPF #3036

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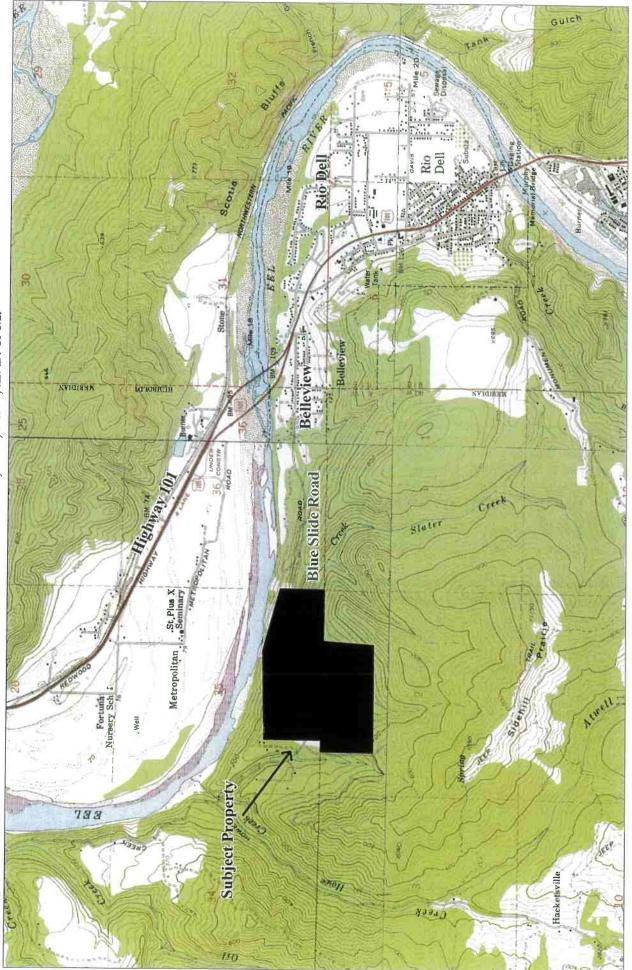
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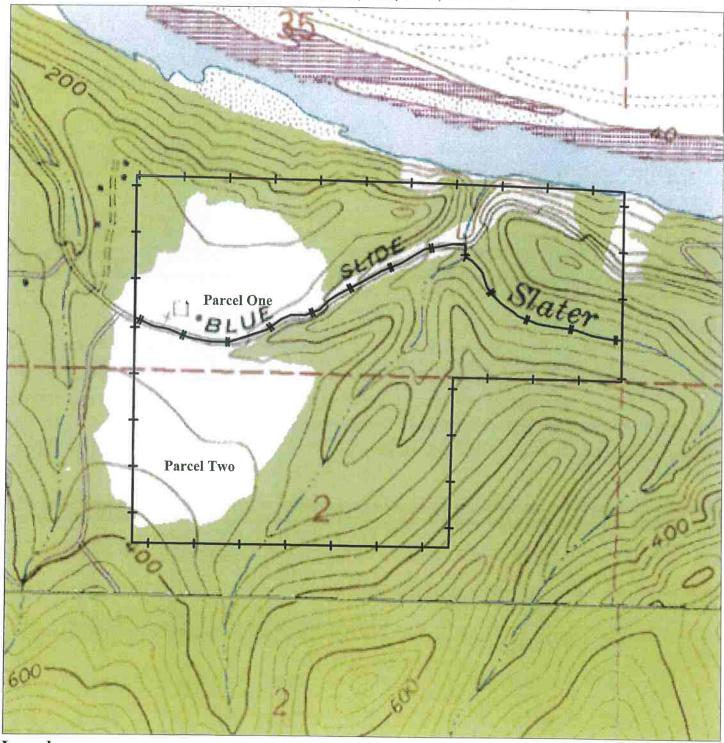


Moore JTMP General Location Map Portions of Section 2, 71N, R1W, H. B. & M. Portions of Section 35, 72N, R1W, H. B. & M.



Moore JTMP Project Area Map USGS Quadrangle Portions of Section 2, T1N, R1W, H. B. & M. Portions of Section 35, T2N, R1W, H. B. & M.



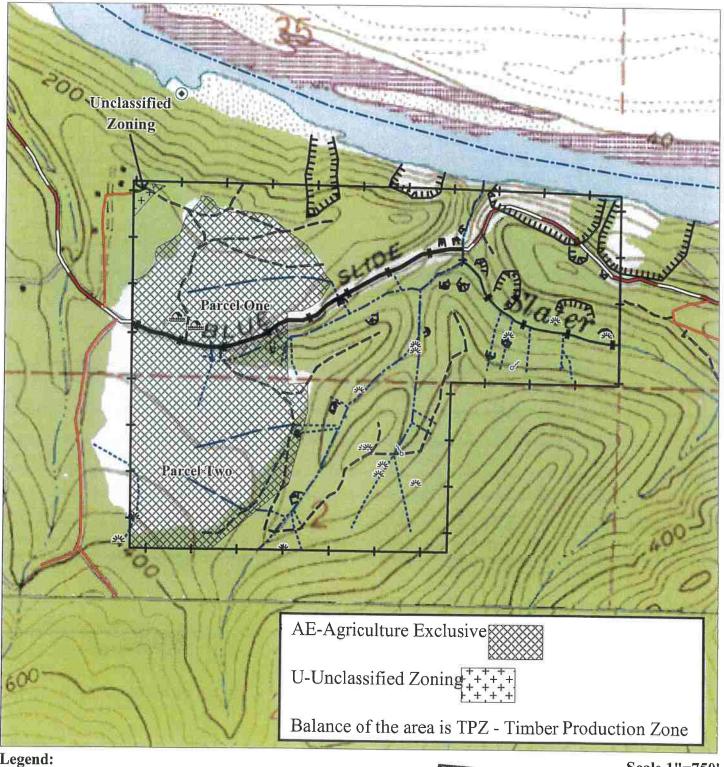


Legend:
Property/NTMP Boundary
New Parcel Boundary

Scale 1"=750'

Moore JTMP Project Area Zoning Map Portions of Section 2, T1N, R1W, H. B. & M. Portions of Section 35, T2N, R1W, H. B. & M.



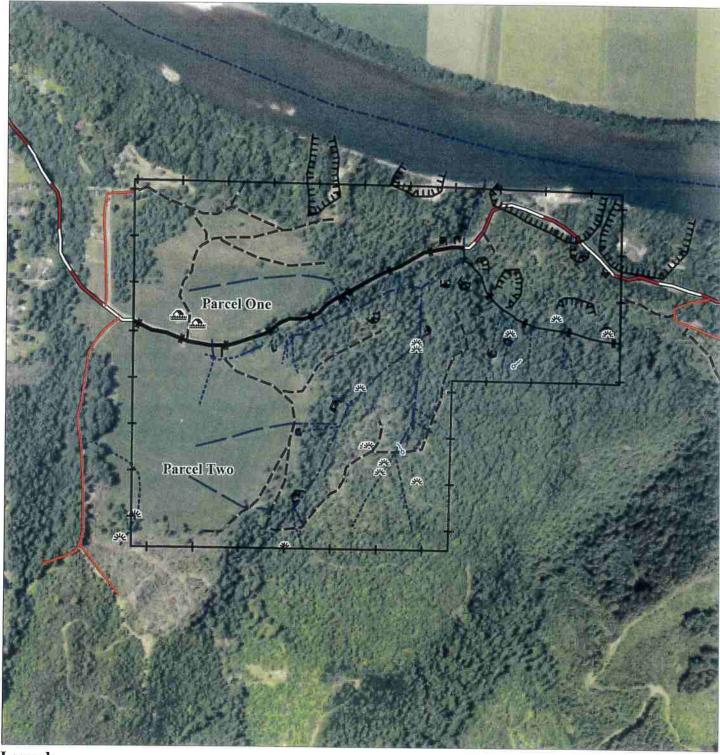


	Balance of the area	is TPZ - Timber Produ	uction Zone
Legend: Property/NTMP Boundary —————	_ Unstable Area	-1111	Scale 1"=750
New Parcel Boundary Class I Watercourse Class II-L Watercourse Class II-S Watercourse Class III Watercourse Class IV Watercourse	Spring Wet Area Existing Seasonal I County Road Existing Permanen Structures		r Intake

Moore JTMP Project Area Photo Portions of Section 2, T1N, R1W, H. B. & M. Portions of Section 35, T2N, R1W, H. B. & M.



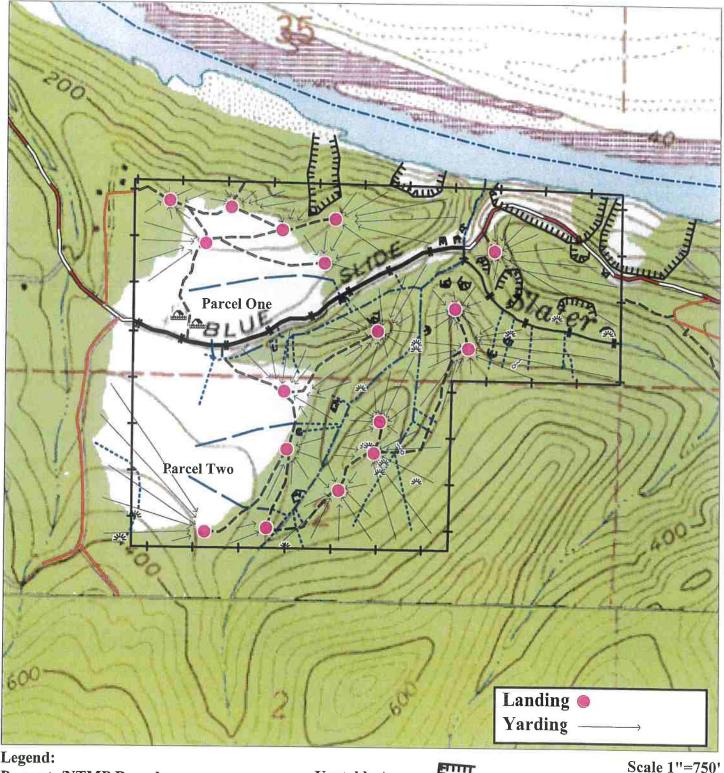
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Legend:	
Property/NTMP Boundary —	Unstable Area
New Parcel Boundary	Spring p
Class I Watercourse	Wet Area المحدد
Class II-L Watercourse —————	Existing Seasonal Road
Class II-S Watercourse — — —	County Road
Class III Watercourse	Existing Permanent Road
Class IV Watercourse —————	C4
1	Structures 2

Moore JTMP Harvest Systems Map Portions of Section 2, T1N, R1W, H. B. & M. Portions of Section 35, T2N, R1W, H. B. & M.

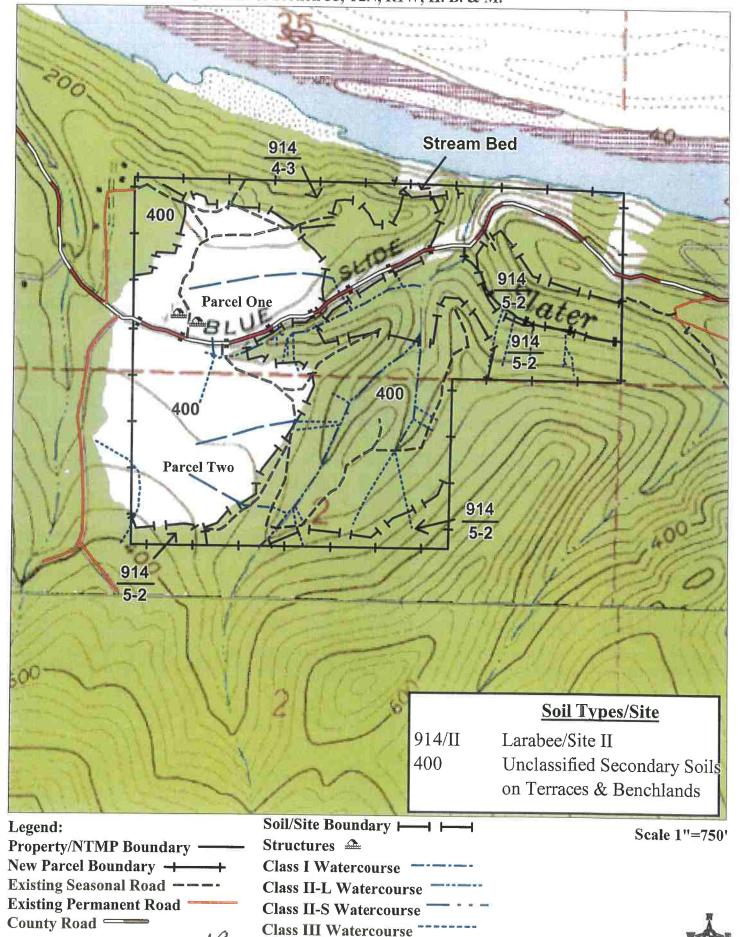




Legend: Property/NTMP Boundary **Unstable Area** New Parcel Boundary -Spring Class I Watercourse Wet Area 34 Class II-L Watercourse Existing Seasonal Road ---Class II-S Watercourse -County Road ____ Class III Watercourse Existing Permanent Road ____ Class IV Watercourse -Structures ____ 18

Moore JTMP
Soils & Site Map
Portions of Section 2, T1N, R1W, H. B. & M.
Portions of Section 35, T2N, R1W, H. B. & M.





Class IV Watercourse