INTRODUCTION

1.1.1 Project Overview

The entirety of the project is on Jackson Demonstration State Forest (JDSF) – state owned land. The primary purpose of JDSF is to conduct innovative demonstrations, experiments, and education in forest management (Board Policy 0351.2). This project would act as a demonstration to the community, land managers, and other stakeholders on fuels treatments for fuel reduction, invasive weed control, in the coastal redwood region. The main purpose of the Thompson Gulch Cal VTP is to act as a demonstration, however, it will also be part of a slash treatment research project conducted by University of California Cooperative Extension (UCCE).

This project will be used as a demonstration of how to use prescribed fire in post timber harvest areas for both large and small landowners. This project also has an ecological restoration demonstration. Per the JDSF Management Plan, the project falls within the Late Seral Development Zone which is managed to accelerate the development of larger trees/other older forest structures such as snags, large branches, multiple canopies, deformities in trees, and suitable spacing between trees and larger trees. Reintroducing fire to this stand, post-harvest, would not only reduce fuel levels, but help to bring in older forest structure, which is a management goal that can be demonstrated at Thompson Gulch.

1.1.2 Proposed Project

JDSF proposes to implement vegetation treatments on up to 152 acres of land on JDSF within the Thompson Gulch watershed and within the Thompson Gulch Timber Harvest Plan (1-14-058MEN) that was harvested in 2015 (Figure 1-1). JDSF is part of CAL FIRE's State Forest Program in which there are eight demonstration state forests totaling 71,000 acres. The forests represent the most common forest types in the state. The Board of Forestry and Fire Protection policy provides that JDSF management must include "research and demonstration projects [that] include silviculture, mensuration, logging methods, economics, hydrology, protection, and recreation," (California Department of Forestry and Fire Protection, 2016).

1.1.3 Lead Agency

For the purposes of the CalVTP PEIR and this PSA, a project proponent is a public agency that provides funding for vegetation treatment or has land ownership, land management, or other regulatory responsibility in the treatable landscape and is seeking to fund, authorize, or implement vegetation treatments consistent with the CalVTP. This document is being prepared by JDSF to comply with CEQA for the implementation of vegetation treatments that require a discretionary action by a state or local agency. The CEQA lead agency is CAL FIRE.

1.1.4 Purpose of this Document

This document serves as the PSA/addendum to evaluate whether the proposed project is within the scope of the CalVTP PEIR and whether any of the changes or revisions would result in new or substantially more severe significant environmental impacts. The treatment types and activities are consistent with the CalVTP PEIR; however, the geographical extent of the project is outside of the treatable landscape of the CalVTP PEIR.

An Addendum to an EIR is included when a previously certified EIR has been prepared and some changes or revisions to the project are proposed, but none of the changes or revisions would result in new or substantially more severe significant environmental impacts, consistent with CEQA Section 21166 and CEQA Guidelines Sections 15162, 15163, 15164, and 15168.

In the PSA/Addendum, each resource is evaluated in terms of whether the project, including the additional geographic area, would result in significant impacts that would be substantially more severe than those covered in the CalVTP PEIR or would result in any new impacts that were not covered in the PEIR.

This document serves as both a PSA and an Addendum to the CalVTP PEIR to provide CEQA compliance for the proposed vegetation treatments. The project-specific mitigation monitoring and reporting program (MMRP), which identifies the CalVTP standard project requirements (SPRs) and mitigation measures (MMs) applicable to the proposed project, is presented in Attachment A. The SPRs identified in the MMRP have been incorporated into the proposed vegetation treatments as a standard part of treatment design and implementation.

| | PROGRAM | RNIA VEGETATION TREATMENT ENVIRONMENTAL CHECKLIST |
|----|---|--|
| 1. | Project Title: | Thompson Gulch VTP |
| 2. | CAL FIRE Project Number | Rx-North-106-MEU |
| 3. | CalVTP I.D. Number | 2022-37 |
| 4. | Project Proponent Name and Address: | CALFIRE-JDSF 802 N. Main St. Fort Bragg, CA 95437 |
| 5. | Contact Person Information and Phone Number: | Edwin Diaz 707-964-5674 EXT: 118 |
| 6. | Project Location: | Mendocino, CA 95460, Mendocino County Section 1 and 12, T17N R17W, MDB&M USGS 7.5 Min Quadrangle: Mathison Peak 1991 39.342480, -123.712739 [include county and coordinates; also include cross street, other major landmarks or legal description useful to identify treatment location] |
| 7. | Total Area to be Treated (acres) | 152 |

8. **Description of Project:** (Describe the whole action involved, including any phasing of initial treatments as well as planned treatments, including equipment to be used and planned duration of treatments, but not limited to later phases (e.g., maintenance) of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)

a. Initial Treatment

The Thompson Gulch Vegetation Treatment Project (Project) is proposed to improve overall forest health and provide watershed benefits. Objectives for the vegetation treatments are to:

- reduce fuel loading from the 2015 timber harvest (specifically 1, 10 and some 100-hour fuels),
- re-introduce fire to the landscape to promote late seral forest stand characteristics,
- create a heterogeneous forest structure resilient to future natural disturbances and climate scenarios; and
- support and facilitate current, proposed, and future research and demonstration projects.

Proposed treatment types are fuel break and ecological restoration. Treatment activities would include manual and mechanical treatments, prescribed burning (pile and broadcast), as well as herbicide treatment.

Implementation of initial treatments would require a minimum of 6 JDSF staff, 1 hand crew and 1 engine crew, along with their associated vehicles to travel to and from the treatment areas. Staff numbers, engines and hand crew personnel may increase in size according to project needs and complexity of treatment activities.

Through existing and future partnerships with local organizations, agencies and researchers, the vegetation treatment project would fit well in JDSF's research and demonstration mandate. The location of the project provides easy access for private landowners, students, resource

professionals and other stakeholders. The proposed treatments are described in more detail below.

Ecological Restoration

Ecological restoration treatments would seek to return fire to the landscape closer to pre-European (Classical) conditions that were achieved by natural fire processes and Indigenous burnings. The project area is located in the Late Seral Development designation for JDSF, where the management goals are to 1) move the stand to an 'old growth' stand characteristics on a much faster timeline than a 'hands off' management approach would and 2) have long-term carbon storage. The return of fire would improve habitat quality, increase late seral stand characteristics (snags, basal hollows or goose pens, reduction of stems per acre), and remove excess fire fuel buildup from fire exclusion practices, which will lead to a more carbon stable, and disturbance resilient stand structure and composition.

The burn plan will specify mitigation measures for old growth or special characteristic trees within Units A and B to protect the trees from fire damage. The goal of the prescribed burn treatment is to reduce the quantity and modify the arrangement of fuels on the forest floor while increasing fuel separation between aerial and ground fuels. Implementing this prescribed fire treatment could cause mortality to fir and smaller diameter redwoods depending on fire effects, however, the resulting stand will create a more fire-tolerant ecosystem.

Fuel Breaks

In strategic locations, fuel breaks create zones of vegetation removal and ongoing maintenance, often in a linear layout, that reduce wildfire risk and support fire suppression by providing responders with staging areas or access to a remote landscape for fire control actions. Only shaded fuel breaks will be implemented within the treatment areas. This project fits into the JDSF Forest Protection Plan with strategic fuel breaks across the forest, with one being on County Road 408. This project would help implement a segment of that greater 408 shaded fuel break. The selection timber harvest from 2015 reduced the amount of tree canopy within the project areas, which makes a fuel break easier to implement in the area of that stand along County road 408.

Prescribed Burn Treatment

Prescribed burning would be used to reduce fuel loading from the 2015 timber harvest plan and create a segment of the County Road 408 Shaded Fuel Break. Up to 138 acres would be treated using prescribed burning. Pretreatment of vegetation, if needed, would occur within 14 acres along County Road 408, with a variable fuel break width averaging around 100 feet from the road. The fuel break will be along the west side of the road and would be accomplished by manual (lop and scatter) and mechanical (mastication) means on smaller trees (<12" DBH), slash, and vegetation. All burning would occur in accordance with regulations regarding the use of prescribed fire. This would include preparation and implementation of a burn permit from Mendocino County Air Quality Management District and a smoke management plan.

- 9. Treatment Types [see description in CalVTP PEIR Section 2.5.1, check every applicable category; provide detail in Description of Project]
 - Wildland-Urban Interface Fuel Reduction
 - Fuel Break
 - Ecological Restoration
- 10. **Treatment Activities** [see description in CalVTP PEIR Section 2.5.2, check every applicable category; include number of acres subject to each treatment activity, provide detail in Description of Project]

- Prescribed (Broadcast) Burning, 138 acres
- Prescribed (Pile) Burning, acres
- Mechanical Treatment, 7 acres
- Manual Treatment, 7 acres
- Prescribed Herbivory, acres
- Herbicide Application, 20 acres
- 11. **Fuel Type** [see description in in CalVTP PEIR Section 2.4.1, check every applicable category; provide detail in Description of Project]
 - Grass Fuel Type
 - Shrub Fuel Type
 - Tree Fuel Type
- 12. **Geographic Scope** [Refer to Treatable Landscapes Treatment Types map for a map of the CalVTP treatable landscape]
 - The treatment site is entirely within the CalVTP treatable landscape
 - The treatment site is NOT entirely within the CalVTP treatable landscape

The CalVTP Treatable Landscape boundary was digitally developed at a large scale, which did not allow for high resolution mapping. As a result, areas were dis-included from the treatable landscape, even though the vegetation is very similar to the surrounding vegetation within the treatable landscapes. These areas need treatment, as they provide fuel ignition and transfer fire to the "treatable landscapes." Onsite field evaluation consistent with the CalVTP EIR determined that the vegetation in the project is consistent with the California Vegetation Cover Types (Wildlife Habitat Relationship - 13) Conifer Woodland designation and does not differ from adjacent treatable vegetation types within and surrounding the project area. Additionally, the entire project area is within the SRA and the vegetation is not a wet meadow, estuary, or other non-fire prone area excluded from the treatable landscape. Therefore, the environmental analysis in the PEIR is applicable to the entire project area due to the similarities of the areas within and outside of the treatable landscape.

13. Surrounding Land Uses and Setting: (Briefly describe the project's surroundings)

The project area is situated in a rural area of Mendocino County along County Road 408. The project is on state-owned land. Surrounding land uses include recreation areas, campgrounds, State Parks, and timber land.

14. Other public agencies whose approval is required: (e.g., permits)

Smoke management plan will be prepared for Mendocino County Air Quality Management District

Burn permits will be obtained from **California Department of Forestry and Fire Protection and Mendocino County Air Quality Management District**

15. Native American Consultation. Pursuant to PRC Sections 21080.3.1, 21080.3.2, and 21082.3, lead agencies undertaking CEQA review must, upon written request of a California Native American tribe, begin consultation before the release of an environmental impact report, negative declaration, or mitigated negative declaration. For treatment projects that require additional CEQA review and documentation, have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.? Note: For treatment projects that are within the scope of this PEIR, AB 52 consultation has been completed. The Board of Forestry and Fire Protection and CAL FIRE completed consultation pursuant to Public Resources Code section 21080.3.1 in preparation of the PEIR.

CAL FIRE Associate State Archaeologist Ben Harris was consulted during the planning phase of the proposed project. A records search, tribal notification, survey, and survey report were conducted for the VTP area.

Pursuant to CalVTP SPR CUL-2, an updated Native American contact list and sacred lands file search was obtained from the Native American Heritage Commission (NAHC). The sacred lands data file indicated no sacred sites occur within the Project area or adjacent lands. On October 18th, 2022, letters were sent to each of the 15 Tribal contacts provided by the NAHC for Northern Mendocino County (listed below). As project planning and implementation proceeds, JDSF will continue to consult with interested Tribal representees regarding the project and incorporate their concerns into project planning and protection measures as warranted.

- Native American Heritage Commission
- Coyote Valley Band of Pomo Indians Michael Hunter, Chairman, Priscilla Hunter, Tribal Historic Preservation Officer and Environmental Protection Department Director
- Guidiville Indian Rancheria Donald Duncan, Chairperson
- Deborah Hutt
- InterTribal Sinkyone Wilderness Council Hawk Rosales, Executive Director
- Cahto Tribe of the Laytonville Rancheria Mary J. Norris, Chairwoman
- Manchester Band of Pomo Indians Jaime Cobarrubia, Chairman & Sal Martinez, Tribal Secretary
- Noyo River Indian Community
- Pinoleville Pomo Nation Leona Williams, Chairperson
- Potter Valley Tribe Salvador Rosales, Chairperson
- Redwood Valley Little River Band of Pomo Indians Debra Ramirez, Chairperson
- Round Valley Reservation/Covelo Indian Community James Russ, President & Patricia Rabano, Tribal Historic Preservation Officer
- Shebelna Band of Mendocino Coast Pomo Indians Charlie Fales, Councilmen
- Sherwood Valley Band of Pomo Indians Melanie Rafanan, Chairman & Valerie Stanley, Tribal Historic Preservation Officer
- Wailaki Tribe Louis Hoaglin Jr., Chairperson
- Yokayo Tribe Chairperson

16. Use of PSA for Treatment Maintenance:

[Prior to implementing a maintenance treatment, the project proponent would verify that the expected site conditions as described in the PSA are present in the treatment area. As time passes, the continued relevance of the PSA would be considered by the project proponent in light of potentially changed conditions or circumstances. Where the project proponent determines that the PSA is no longer sufficiently relevant, the project proponent would determine whether a new

PSA or other environmental analysis is warranted. In addition to verifying that the PSA continues to provide relevant CEQA coverage for treatment maintenance, the project proponent would update the PSA at the time a maintenance treatment is needed when more than 10 years have passed since the approval of the PSA or the latest PSA update. For example, the project proponent may conduct a reconnaissance survey to verify that conditions are substantially similar to those anticipated in the PSA. Updated information should be documented.]

Maintenance treatments of project areas will be incorporated in JDSF's existing general land management maintenance schedule and will be based on real-time monitoring of site conditions. Maintenance treatments could occur as frequently as a 5-to-10-year basis but may be shorter or longer depending on site conditions. The need for retreatment with herbicides for control of invasive plant species will be evident in the 1-2 year period following the initial treatment. If herbicide treatment is prescribed, it will likely occur within 2 years of the initial treatment and then on a recurring annual basis for 1-2 years until invasive plant species drop below a fuels management or native species conservation threshold.

The project areas are generally managed on a 15–20-year reentry cycle, so some additional management of the timber stand is likely to occur approximately 5-10 years after this project is complete. Retreatment methods will involve the same vegetation treatment activities used in the original treatment (manual, mechanical, prescribed fire, and herbicides); however, JDSF anticipates that manual, mechanical, and herbicide treatments will decline over time and prescribed fire will be utilized more. However, if the retreatment occurs during a timber harvest plan, it might be more efficient and effective to utilize manual and mechanical treatments as they will already be onsite for other work.

17. **Standard Project Requirements and Mitigation Measures.** [Refer to Attachment A to identify which SPRs and Mitigation Measures apply to the project. Complete Attachment A to document the responsible party for each applicable SPR and Mitigation Measure. Check one box below.]

All applicable SPRs and Mitigation Measures are feasible and will be implemented

There is NO new information which would render mitigation measures previously considered infeasible or not considered in the CalVTP PEIR now feasible OR such mitigation measures have been adopted. [Guidelines Sec.15162(a)(3); PRC Sec. 21166(c)]

All applicable SPRs and Mitigation Measures are NOT feasible or will NOT be implemented (*provide explanation*)

Explanation:

DETERMINATION (To be completed by the project proponent)

On the basis of this initial evaluation:

- I find that all of the effects of the proposed project (a) have been analyzed adequately in the CalVTP PEIR, (b) have been avoided or mitigated pursuant to the CalVTP PEIR, and (c) all applicable mitigation measures and Standard Project Requirements identified in the CalVTP PEIR will be implemented. The proposed project is therefore **WITHIN THE SCOPE** of the CalVTP PEIR. NO ADDITIONAL CEQA DOCUMENTATION is required.
- □ I find that the proposed project will have effects that were not examined in the CalVTP PEIR. These effects are less than significant without any mitigation beyond what is already required pursuant to the CalVTP PEIR. A NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project will have effects that were not examined in the CalVTP PEIR. Although these effects might be significant in the absence of additional mitigation beyond what is already required pursuant to the CalVTP PEIR, revisions to the proposed project or additional mitigation measures have been agreed to by the project proponent that would avoid or reduce the effects so that clearly no significant effects would occur. A MITIGATED NEGATIVE DECLARATION will be prepared.
- □ I find that the proposed project will have environmental effects that were not examined in the CalVTP PEIR. Because these effects are or may be significant and cannot be clearly mitigated, an ENVIRONMENTAL IMPACT REPORT will be prepared.

| Signature: | DocuSigned by: | | Date: 11/16/2023 |
|---------------|-------------------|--------|-----------------------|
| Printed Name: | George Morris III | Title: | Northern Region Chief |

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION CAL FIRE

Agency

EVALUATION OF ENVIRONMENTAL IMPACTS

- 1. A brief explanation is required for each Impact, Standard Project Requirement (SPR) and Mitigation Measure (MM) identified in the Project-Specific Analysis Checklist (PSA Checklist). The information provides clarity for review and/or provides direction to the field staff that will implement the project utilizing the checklist (persons familiar with the project and preparation of the document may be different through the life span of the document). Answers should consider whether the proposed project would result in new or more substantial environmental effects than described in the CalVTP PEIR, after incorporation of applicable SPRs and MM required by the CalVTP PEIR.
- 2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and short-term as well as long-term impacts. Refer to the applicable resource analysis section in the CalVTP PEIR for each environmental topic.
- 3. Once the project proponent has evaluated the environmental effect that may occur, then the checklist answers must indicate whether the impact is:

(Definitions located in Chapter 3 – "Environmental Settings, Impacts, and Mitigation Measures, 3.1.4 – Terminology Used In the PEIR")

- <u>Less Than Significant (LTS)</u> An impact either on its own or with incorporation of SPRs, does not exceed the defined thresholds of significance (no mitigation required), or that is potentially significant and can be reduced to less than significant through implementation of feasible mitigation measures.
- Less Than Significant with Mitigation (LTSM) An impact was identified within the PEIR which was viewed in totality as potentially significant and/or significantly unavoidable and the mitigation measures and SPRs and MMs provided in the PEIR will be implemented mitigating to a point of less than significance.
- <u>Potential Significant (PS)</u> An impact treated as if it were a significant impact. "Potentially" is used to convey that not every qualifying treatment will result in impacts to the reasonably maximum degree that they are disclosed in this PEIR.
- **Potentially Significant and unavoidable (PSU)** An impact is considered significant and unavoidable if it would result in a substantial adverse change in the environment that cannot be feasibly avoided or mitigated to a less-than-significant level. "Potentially" is used to convey that not every qualifying treatment will result in impacts to the reasonably maximum degree that they are disclosed in this PEIR
- <u>Significantly Unavoidable (SU)</u> An impact is considered significant and unavoidable if it would result in a substantial adverse change in the environment that cannot be feasibly avoided or mitigated to a less-than-significant level.
- Not applicable (N/A)

If the impact is equal to or less than the impact identified in the PEIR, the PEIR can be utilized without a Negative Declaration, Mitigated Negative Declaration or EIR. If there are one or more entries where the impact is evaluated to be greater than the impact in the PEIR, additional documentation is required.

- 4. Where a Negative Declaration, Mitigated Negative Declaration is required, the environmental review would be guided by the directions for use of the PEIR with later activities in Section 15168. Where an EIR is required, the environmental review would be guided by Sections 15162 and 15163. When preparing any environmental document, the environmental analysis may incorporate by reference the analysis from the CalVTP PEIR and focus the environmental analysis solely on issues that were not addressed in the CalVTP PEIR.
- 5. Project proponents should incorporate into the PSA checklist references to information sources for potential impacts. Include a list of references cited in the PSA and make copies of such references available to the public upon request.
- 6. Standard Project Requirements (SPR) and Mitigations Measures (MM).
 - **Applicable (Yes/No).** Document whether the SPR or mitigation measure is applicable to the project (Yes or No). The applicability should be substantiated in the Environmental Checklist Discussion.
 - **Implementing Entity**. Most cases this will be CAL FIRE. The implementing entity is the individual or organization responsible for carrying out the requirement. This could include the project proponent's project manager, a technical specialist (e.g., archeologist or biologist), a vegetation management contractor, a partner agency or organization, or other entities that are primarily responsible for carrying out each project requirement.
 - Verifying/Monitoring Entity. Most cases this will be CAL FIRE. The verifying/monitoring entity is the individual or organization responsible for ensuring that the requirement is implemented. The verifying/monitoring entity may be different from the implementing entity.
 - **NOTE**: the cited SPRs and MMs are summarized to manage the templet's size. Refer to the approved CaIVTP language attached for the full list of requirements.

EC-1: AESTHETICS AND VISUAL RESOURCES

| | PEIR specific | | | Project specific | | |
|--|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact AES-1: Result in Short-Term, Substantial Degradation of a Scenic Vista or Visual Character or Quality of Public Views, or Damage to Scenic Resources in a State Scenic Highway from Treatment Activities | Impact AES-1, 3.2 | LTS | <u>SPR AES</u> - 2 <u>SPR AQ</u> - 2, 3 <u>SPR REC</u> -1 | Yes | LTS | |

Initial and maintenance treatments would include mechanical treatments, manual treatments, prescribed burning (broadcast and pile), and herbicide treatment. The potential for these treatment activities to result in short-term degradation of the visual character of a treatment area was examined in the PEIR. The proposed treatments would occur on State owned land, where public recreation trails and County Roads provide public viewpoints. There are no eligible or designated State scenic highways with views of the project area (Caltrans 2019). However, County Road 408 is a road which JDSF has designated for "Trail Buffer Corridor."

Short-term substantial degradation of the visual character of the project area will be less than significant. Smoke from prescribed burns would not result in substantial short-term aesthetic impacts, because burning would be temporary, and the requirement to prepare and adhere to a smoke management plan (SMP) (SPR AQ-2) and a Burn Plan (SPR AQ-3) which prescribe the conditions under which prescribed burning can occur to reduce the generation and visibility of smoke. Therefore, this impact would be less than significant. SPRs applicable to the proposed treatments are AES-2, AQ-2, AQ-3, and REC-1. This determination is consistent with the PEIR and would not constitute a substantially more severe significant impact than what is covered in the PEIR.

| Impact AES-2 : Result in Long-Term, Substantial Degradation of a Scenic Vista or Visual Character or Quality of Public Views, or Damage to Scenic Resources in a State Scenic Highway from WUI Fuel Reduction, Ecological Restoration, or Shaded Fuel Break | Impact AES-2, 3.2 | LTS | <u>SPR AES</u> - 1 <u>SPR AES</u> - 3 <u>SPR AD</u> - 4 <u>SPR REC</u> - 1 | Yes | LTS | |
|--|-------------------------|-----|---|-----|-----|--|
| Treatment Types | | | | | | |

Initial and maintenance treatments would include mechanical treatments, manual treatments, and prescribed burning. The potential for these treatment activities to result in long-term degradation of the visual character of a treatment area was examined in the PEIR. The proposed treatments would occur on State owned land, where public recreation trails and County Roads provide public viewpoints. There are no eligible or designated State scenic highways with direct views of the project area (Caltrans 2019).

No forest land will be converted to other use and the aesthetic value will not be degraded. This project will likely result in a more open understory with less deadwood, which is typically considered more aesthetically pleasant than understories with limited visibility (Golivets, 2011), though preference is subjective.

Because ecological restoration would be designed to improve habitat quality and create a landscape appearance closer to native conditions, it would result in long-term beneficial visual impacts SPRs applicable to the proposed treatments are AES-1, AD-4, and REC-1. This determination is consistent with the PEIR and would not

| Impact AES-3 : Result in Long-Term Substantial Degradation of a Scenic Vista or Visual Character or Quality of Public Views, or Damage to Scenic Resources in a State Scenic Highway from the Non-Shaded Fuel Break Treatment Type | Impact AES-3, 3.2 | SU | <u>MM AES</u> - 3 | No | N/A | |
|--|-------------------------|--------------|-------------------|------------|----------------------|--|
| This impact does not apply to the proposed project because non-shaded fuel breaks | are not propos | ed. Only sha | aded-fuel breaks | are propos | ed for this project. | |
| Other Impacts to Aesthetics: Would the project result in other impacts to aesthetics that are not evaluated in the CalVTP PEIR? | | | | No | N/A | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|---|-----------------------------|---|------------------------------------|
| SPR AES-1 Vegetation Thinning and Edge Feathering: This SPR only applies to mechanical and manual treatment activities within all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| The project proponent will thin and feather adjacent vegetation to break up or screen linear edges of clearings as reasonable or appropriate for vegetation conditions. In general, thinning and feathering as well as a gradation of tall to short vegetation at the clearing edge, will achieve a natural transitional clearing edge will fade into this transitional band. This SPR only applies to mechanical and manual to types, including treatment maintenance. | in irregular al appearar | patches of varying ice. The contrast o | densities, f a distinct |
| SPR AES-2 Avoid Staging within Viewsheds: This SPR applies to all treatment activities and all treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| The project proponent will store all treatment-related materials, including vehicles, vegetation treatment the viewshed of public trails, parks, recreation areas, and roadways to the extent feasible. The project staging, and storage areas outside of the viewshed of public trails, parks, recreation areas, and road applies to all treatment activities and treatment types, including treatment maintenance. | ct proponen | t will also locate m | aterials, |
| SPR AES-3 Provide Vegetation Screening: This SPR applies to all treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> N/A | CAL FIRE |
| The project proponent will store all treatment-related materials, including vehicles, vegetation treatment the viewshed of public trails, parks, recreation areas, and roadways to the extent feasible. The project staging, and storage areas outside of the viewshed of public trails, parks, recreation areas, and road applies to all treatment activities and treatment types, including treatment maintenance. | ct proponen | t will also locate m | aterials, |
| MM AES-3: Conduct Visual Reconnaissance for Non-Shaded Fuel Breaks and Relocate or Feather and Screen Publicly Visible Non-Shaded Fuel Breaks | No | <u>CAL FIRE</u> N/A | CAL FIRE |

This impact does not apply to the proposed project because non-shaded fuel breaks are not proposed. Only shaded fuel breaks are proposed for this project.

EC-2: AGRICULTURE AND FOREST RESOURCES

| | PEIR specific | | Project specific | | | |
|--|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact AG-1: Result Directly in the Loss of Forest Land or Conversion of Forest Land to a Non-Forest Use or Involve Other Changes in the Existing Environment Which, Due to Their Location or Nature, Could Result in Conversion of Forest Land to Non-Forest Use | Impact AG-1, 3.3 | LTS | N/A | No | N/A | |

This impact does not apply to the proposed project because the property is designated for research, demonstration, and recreation. No loss of forest land or conversion of forest land to non-forest use will result from this project. Overstory trees 12" in DBH or greater will not be cut. Prescribed burning is projected to result in few losses to the overstory canopy based on past prescribed burning in similar stands on the property. If higher mortality results in significant loss of canopy, then stocking levels will be assessed, and if necessary, planting will occur within 5 years of the mortality event to ensure adequate stocking. Additionally, because the area is generally considered low in snag density, some overstory mortality would be welcomed as it would recruit additional wildlife habitat for primary cavity excavators and secondary cavity users.

The project area includes redwood forest and small areas of hardwoods and Douglas-fir. Mastication and manual treatment may include the removal of brush and trees that are less than 12 inches in DBH. Vegetation remaining after treatments would be consistent with the definition of forest land as defined in Public Resources Code Section 12220(g).

Treatments would include the removal of trees in the understory to improve forest health and reduce wildfire risk. Treatments would improve forest stand conditions and would not result in conversion to a non-forest use. Vegetation management has the potential to improve the forest stand conditions by removing competitive vegetation and scarifying the forest floor conditions allowing for natural seeding of tree species.

| | Other Impacts to Agriculture and Forest Resources: Would the project result in other impacts to agriculture and forest resources that are not evaluated in the CalVTP PEIR? | | | No | N/A | |
|--|--|--|--|----|-----|--|
|--|--|--|--|----|-----|--|

EC-3: AIR QUALITY

| PEIR specific | Project specific |
|---------------|------------------|
| | |

| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
|--|--|---|--|---|--|------------------|
| Impact AQ-1: Generate Emissions of Criteria Air Pollutants and Precursors During Treatment Activities that would exceed CAAQS or NAAQS | Impact AQ-1, 3.4 | PSU | <u>SPR AD</u> - 4 <u>SPR AQ</u> - 2, 6 <u>MM AQ</u> - 1 | Yes | PSU | |

The proposed project involves using various types of equipment, vehicles, handheld power tools, and using prescribed fire to burn piles and conduct broadcast burns. Masticators, loaders, dump trucks, chippers, pickups, trucks, crew carriers, chainsaws, and other associated vegetation management equipment, vehicles, and tools are types of petroleum-powered resources for on-road and off-road use to implement vegetation treatment. Fire engines and fire crew carriers, which also use petroleumpowered resources, would be used to support the prescribed burning of piles and or a broadcast burn. The usages of the equipment, vehicles, tools, and prescribed burning for on-road and off-road purposes would result in emissions of criteria pollutants that could potentially exceed California ambient air quality standards (CAAQS), the national ambient air quality standards (NAAQS), or MCAQMD rules and regulations.

As described in the PEIR, due to multiple variables quantifying the reduction of emissions, the impact would remain potentially significant and unavoidable. The determination is consistent with the PEIR and would not constitute a substantially more severe impact than identified in the PEIR. SPRs applicable to the proposed treatments are AD-4, AQ-2, and AQ-6. Mitigation Measure AQ-1 would reduce the mass emissions of criteria air pollutants and precursors generated by use of on-road vehicles and off-road equipment during treatment activities.

| 3.4 SPR NOI-5 | Impact AQ-2: Expose People to Diesel Particulate Matter Emissions and Related Health Risk | Impact AQ-2, 3.4 | LTS | <u>SPR HAZ</u> - 1 <u>SPR NOI</u> - 4 SPR NOI- 5 | Yes | LTS | |
|-----------------|---|------------------------|-----|--|-----|-----|--|
|-----------------|---|------------------------|-----|--|-----|-----|--|

Use of vehicles and mechanical equipment during initial and maintenance treatments could expose people to diesel particulate matter emissions. The potential to expose people to diesel particulate matter emissions was examined in the PEIR. Diesel particulate matter emissions from the proposed treatments are within the scope of the PEIR because the exposure potential is the same as analyzed in the PEIR, and the types and amount of equipment that would be used as well as the duration of use during proposed treatments are consistent with those analyzed in the PEIR. Diesel particulate matter generated by treatment activities would not take place near any single sensitive receptor for an extended period. In addition, diesel particulate matter dissipates rapidly from the source, and exposure concentrations would decline with distance from these activities (Zhu et al. 2002). Furthermore, SPR HAZ-1 requires that all diesel and gasoline-powered equipment be properly maintained to comply with all state and federal emissions requirements, which would prevent excessive emissions of diesel particulate matter due to poorly functioning equipment. Also, SPR NOI-4 requires vegetation treatment activities and staging areas be located as far as possible from human receptors and SPR NOI-5 restricts equipment idling time. Diesel exhaust emissions would be temporary, would not be generated at any one location for an extended period, and would dissipate rapidly from the source with an increase in distance.

| Impact AQ-3 : Expose People to Fugitive Dust Emissions Containing Naturally Occurring Asbestos and Related Health Risk | Impact AQ-3, 3.4 | LTS | <u>SPR AQ</u> - 4, 5 | No | N/A | \boxtimes | |
|--|------------------------|-----|-------------------------|-----|-----|-------------|--|
| This impact does not apply to the treatment project, because no naturally occurring asbestos is mapped in the treatment area (see MCAQDM NOA map). | | | | | | | |
| Impact AQ-4: Expose People to Toxic Air Contaminants Emitted by | Impact | PSU | <u>SPR AD</u> - 4 | Yes | PSU | \boxtimes | |

| Prescribed Burns and Related Health Risk | AQ-4, 3.4 | | <u>SPR AQ</u> - 2, 6 | | | |
|---|--|---|--|--|---|--|
| The potential to expose people to toxic air contaminants was examined in the PEIR. The potential to expose people to toxic air contaminants was examined in the PEIR. The pefore prescribed burning. AQ-2 requires submitting a smoke management plan to M management plan limits prescribed burning to permissible burn days. | | | | | | |
| mpact AQ-5 : Expose People to Objectionable Odors from Diesel Exhaust | Impact AQ-5, 3.4 | LTS | <u>SPR HAZ</u> - 2 <u>SPR NOI</u> - 4, 5 | Yes | E LTS | |
| The use of vehicles and mechanical equipment during initial and maintenance treatment This project will comply with the following applicable SPRs to minimize the potential for these SPRs will reduce the amount of exhaust emissions produced by equipment by re- road closures, operation limitations, and equipment maintenance, impacts of this pro- diesel exhaust was analyzed in the PEIR (CalVTP Final PEIR Volume II Section 3.4.3, 37- creatments is within the scope of the impacts stated in the PEIR because the treatmer ntroduce any new operational sources of odors to the treatable landscape or any new sources. Diesel-powered equipment used for treatments implemented under the CalV | or impacts on estricting idle ject will remai 38). The relea at activities are v locations wh | diesel exhau time. Based in less than s ase of object e consistent here people s | ust exposure: on the staging significant. The ional odors fre with those are spend time the | HAZ-1 and g area loca ne potentia om diesel nalyzed in at could b | d NOI-5. The implem- ation requirements an al to expose human re exhaust during propo the PEIR. The CalVTP e exposed to existing | entation o id potentia eceptors to sed would not |
| mpact AQ-6 : Expose People to Objectionable Odors from Smoke During Prescribed Burning | Impact AQ-6, 3.4 | PSU | <u>SPR AD</u> - 4 <u>SPR AQ</u> - 2, 6 | Yes | PSU | |
| The project proponents would apply SPRs AD-4, AQ-2, AQ-3, and AQ-6. Prescribed bur would be conducted in accordance with local air district regulations and the Smoke M exposure to smoke would be short duration and occur infrequently. The duration and activities addressed in the PEIR (CalVTP Final PEIR Volume II Section 3.4.3, 37-38); the also within the scope of impacts covered in the PEIR. All feasible measures to prevent SPRs. | anagement Pl I parameters o refore, the res | lan. Treatme of the prescr sultant poter | ents are locate ibed burn tre ntial for expos | ed in less p atments a sure to obj | populated areas. Addi re within the scope of jectionable odors fron | tionally, f the n smoke is |
| Other Impacts to Air Quality: Would the project result in other impacts to air quality that are not evaluated in the CalVTP PEIR? | | | | No | N/A | |
| | | | | | | |
| | | | Ар | plicable | Implementing Entity & Timing Relative | Verifying Monitorir |

| | Аррісаріе | to Implementation | Entity |
|--|-------------|--------------------------|----------|
| SPR AQ-1 Comply with Air Quality Regulations: This SPR applies to all treatment activities and all treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| The CAL FIRE Vegetation Management Program requires projects involving prescribed burning to har plan and to comply with all local air quality standards and procedures. | ave an appr | oved smoke mana | agement |

Project Specific Analysis

| SPR AQ-2 Submit Smoke Management Plan: This SPR applies only to prescribed burning treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
|--|------------------------------|---|-----------------|
| The CAL FIRE Vegetation Management Program requires projects involving prescribed burning to de submit it to the local air quality management district for approval prior to implementing a prescribed b | • | noke management | plan and |
| SPR AQ-3 Create Burn Plan: The project proponent will create a burn plan using the CAL FIRE burn plan template for all prescribed burns. This SPR applies only to prescribed burning treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
| A burn plan will be developed for this project prior to any prescribed firing operations. The burn plan environmental conditions when prescribed fire may be employed as a treatment and when it is not. T outputs from BehavePlus and a First Order Fire Effects Model to assess fire behavior based on fuel representing the upper-most limits for wind, temperature, and relative humidity that would be permiss | he burn pla types and v | n will include fire n veather conditions | nodeling |
| SPR AQ-4 Minimize Dust: This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| At the time of treatment activities, dust abatement actions shall occur on unpaved roads. These inclumph, applying water or a suitable and non-toxic dust-control agent to a level necessary for controlling disturbing activities that generate excessive dust that may pose a health hazard to receptors outside | g fugitive du | ist, and suspending | |
| SPR AQ-5 Avoid Naturally Occurring Asbestos: This SPR applies to all treatment activities and treatment types. | No | <u>CAL FIRE</u> N/A | <u>CAL FIRE</u> |
| This soil type does not occur in the project area. | | | |
| SPR AQ-6: Prescribed Burn Safety Procedures: Prescribed burns will follow all safety procedures required of CAL FIRE crew, including the implementation of an approved Incident Action Plan (IAP). | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE |
| The Prescribed Fire IC will create an IAP that shall include burn dates, burn hours, weather limitation communications plan, a medical plan, a traffic plan, and any special instructions relevant to maintain adjacent landowners, and the public. In addition, a press release detailing the location, days, and but communicated to local media outlets to inform the public about the project at least three days prior to | ing health a rn hours for | and safety of fire per the project will be | ersonnel, |
| MM AQ-1: Implement On-Road Vehicle and Off-Road Equipment Exhaust Emission Reduction Techniques Where feasible, project proponents will implement emission reduction techniques to reduce exhaust emissions from off-road equipment. | Yes | CAL FIRE Prior-During | CAL FIRE |
| CAL FIRE is committed to reducing diesel and gasoline emissions from equipment by implementing where feasible. These include encouraging carpooling to the project area and using the best emissio diesel-powered equipment. | - | | |

EC-4: ARCHEOLOGICAL, HISTORICAL, AND TRIBAL CULTURAL RESOURCES

| | PEIR specific | | | Pro | | |
|--|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact CUL-1: Cause a Substantial Adverse Change in the Significance of Built Historical Resources | Impact CUL-1, 3.5 | LTS | <u>SPR CUL</u> - 1, 7, 8 | Yes | LTS | |

The proposed treatments include mechanical and prescribed broadcast and pile burning, which could damage built historical resources. The NWIC records search completed on June 2, 2022 (NWIC File No. 21-1217) revealed no built historical resources within the proposed treatment areas (SPR CUL-1). In addition, all project areas had archaeological surveys conducted by qualified individuals during THP preparation (SPR CUL-4). Archeological surveys were also conducted in 2022 for this project. As per Mitigation Measure CUL-2, any archaeological resource discovered during treatments will be given 100 ft avoidance, and the site will be reviewed by an archaeologist. SPR-8 will require that all crew members and contractors are trained on the protection of sensitive archaeological, historical, or tribal cultural resources.

The potential for built historical period resources to be damaged during these activities has been assessed in the PEIR. The impact of this project is within the scope of the PEIR because the treatment activities are the same and protection measures have been designed by an archaeologist.

| Impact CUL-2 : Cause a Substantial Adverse Change in the Significance of Unique Archaeological Resources or Subsurface Historical Resources | Impact CUL-2, 3.5 | SU | <u>SPR CUL</u> - 2, 3, 4, 5, 8 <u>MM CUL</u> - 2 | Yes | SU | \boxtimes |
|--|----------------------|----|--|-----|----|-------------|
|--|----------------------|----|--|-----|----|-------------|

Vegetation treatments include mechanical and broadcast/pile burning treatments that could disturb the ground, potentially resulting in damage to unknown archaeological resources. As per Mitigation Measure CUL-2, any archaeological resource discovered during treatments will be given 100 ft avoidance, and the site will be reviewed by an archaeologist. SPR-8 will require that all crew members and contractors are trained on the protection of sensitive archaeological, historical, or tribal cultural resources.

SPR CUL-1 requires an archaeological and historical resource record search to be conducted. A property-wide resource records check was conducted by the Northwest Information Center on 6/2/2022 (NWIC File #21-1217).

SPR CUL-2 requires contacting geographically affiliated Native American Tribes. Responses can help identify and protect resources so that a substantial adverse change in significance does not occur to unique archaeological resources. Tribes were contacted on October 18th, 2022. A response was received on November 21st, 2022, from Sherwood Valley Band of Pomo Indians.

As per SPR CUL-3, pre-field research was conducted as part of the cultural resource investigation to assist with the success of field surveyors in identifying archeological resources during SPR CUL-4 archaeological surveys. For cultural resources identified in the archaeological surveys that cannot be avoided, SPR CUL-5 requires an archaeologist to notify the tribes and assess whether an archaeological find qualifies as a unique archaeological resource, an historic resource, or, in coordination with said tribes, as a tribal cultural resource.

Conducting record searches, contacting Native American groups, conducting cultural resource surveys, and avoiding known unique archaeological and subsurface historical resources would avoid or minimize the risk of disturbance, damage, or destruction of these resources by identifying, avoiding, or protecting these sensitive subsurface resources from damage that could be caused by treatment activities. Additionally, implementation of Mitigation Measure CUL-2 would reduce impacts to

unknown unique archaeological or subsurface historical resources because it would protect in place, recover information, record, or otherwise treat the discovered resource appropriately.

By utilizing these SPRs and mitigation measures, we will avoid substantial adverse change in the significance of unique archaeological resources or subsurface historical resources.

| Impact CUL-3: Cause a Substantial Adverse Change in the Significance of a Tribal Cultural Resource | Impact CUL-3, 3.5 | LTS | <u>SPR CUL</u> - 1, 2, 3, 5, 6, 8 | Yes | LTS | |
|--|----------------------|-----|---|-----|-----|--|
|--|----------------------|-----|---|-----|-----|--|

Vegetation treatments include mechanical, broadcast and pile burning treatments that could disturb the ground, potentially resulting in damage to unknown archaeological resources. SPR-8 requires that all crew members and contractors are trained on the protection of sensitive archaeological, historical, or tribal cultural resources.

A records search was conducted as per SPR CUL-1. SPR CUL-2 requires that the proponent contact geographically affiliated Native American Tribes. Responses help identify and protect resources so that a substantial adverse change in significance does not occur to tribal cultural resources.

As per SPR CUL-3, pre-field research was conducted as part of the cultural resource investigation to assist with the success of field surveyors in identifying archeological resources during SPR CUL-4 archaeological surveys. For cultural resources identified in the archaeological surveys that cannot be avoided, SPR CUL-5 requires an archaeologist to notify the tribes and, in coordination with said tribes, assess whether an archaeological find qualifies as a tribal cultural resource.

If a tribal cultural resource is identified within a treatment area and cannot be avoided, under SPR CUL-6, the project proponent, in consultation the culturally affiliated tribes, will develop effective protection measures for important tribal cultural resources located within treatment areas.

The potential for these activities to cause a substantial adverse change in the significance of a tribal cultural resource was examined in the PEIR. The impact of this project was determined to be the same as the PEIR because the treatment activities are the same and the potential resources are the same. Implementation of SPRs would avoid any substantial adverse change to any tribal cultural resource and impacts would be less than significant.

| Impact CUL-4: Disturb Human Remains | Impact CUL-4, 3.5 | LTS | N/A | Yes | LTS | |
|-------------------------------------|----------------------|-----|-----|-----|-----|--|
|-------------------------------------|----------------------|-----|-----|-----|-----|--|

There is a potential for treatment activities to uncover human remains due to the nature of the treatment activities. The NWIC record search did not uncover any burial sites or prehistoric sites. The potential for treatment activities to uncover human remains was examined in the PEIR. This impact is within the scope of the PEIR because the intensity of ground disturbance, the equipment used, and the duration of their use is the same as those analyzed in the PEIR.

Per California Health and Safety Code (HSC 7050.5(b)), in the event human remains or burials are encountered, all work shall cease, and the Mendocino County Coroner's office and CAL FIRE archaeologist shall be contacted. Work will not occur until clearance is granted.

| Other Impacts to Archeological, Historical, and Tribal Cultural Resources: Would the project result in other impacts to archeological historical, or tribal cultural resources that are not evaluated in the CaIVTP PEIR? | | | No | N/A | |
|--|--|--|----|-----|--|
|--|--|--|----|-----|--|

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|--|------------------------------|---|------------------------------------|
| SPR CUL-1 Conduct Record Search: For treatments led by CAL FIRE, an archaeological and historical resource record search will be conducted per the "Archaeological Review Procedures for CAL FIRE Projects" (current edition dated 2010). This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
| An Archaeological Records Check Request was completed by Jessika Akmenkalns. NWIC Record S 21-1217) | Search: Jun | e 2, 2022 (NWIC F | ile No. |
| SPR CUL-2 Contact Geographically Affiliated Native American Tribes: The project proponent will obtain the latest Native American Heritage Commission (NAHC) provided Native Americans Contact List, which may be obtained from the CAL FIRE website, as appropriate. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
| Letters identifying the location and treatment measures for the project were sent to the Native Americ Department of Forestry and Fire Protection (CAL FIRE) Native American Contact list, Mendocino Co FIRE Archaeologist. The letters requested any information concerning the location of any cultural res area. One response was received (see attached letter). Full archaeological survey and reporting has | unty with up sources that | odates from Ben H t may exist within t | arris, CAL he project |
| SPR-CUL-3 Pre-field Research: The project proponent will conduct research prior to implementing treatments as part of the cultural resource investigation. This SPR applies to all treatment activities and treatment types | Yes | CAL FIRE Prior-During | CAL FIRE |
| Literature, ethnographic data, GLO maps, historic maps, lidar, past project maps, old logging records experience working in the project areas were reviewed during pre-field research. | s, and know | ledge from those v | vith |
| SPR CUL-4 Archaeological Surveys: The project proponent will coordinate with an archaeologically trained resource professional or qualified archaeologist to conduct a site-specific survey of the treatment area. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| The general approach was a map based on buffering the project sites and designating high, medium surveyors in the field. The surveyors could evaluate an area and upgrade or downgrade their survey coverage and provide a guide to intensity. | - | • | - |
| The GIS data available incorporates prior Archaeologists' property-wide baseline maps and the 5-ye made. The GIS data also has the Author's pre-field research for JDSF from archival maps, survey re | | • | |

were the primary base map, though Lidar was used to supplement.

Complete, General, Cursory, and Intuitive intensity were used in different locations. The maps described above were assembled and used for baseline guidance. Survey intensity would be modified by the field contextual conditions, adding promising areas or downgrading more marginal ones.

As a starting point, areas delineated as 'high probability' were surveyed at the General level with focused areas of Complete. Complete surveys seek to cover the area in $\frac{1}{2}$ chain (33ft / 10m) transects, while General seeks to cover in transects 1 – 1.5 chains (66ft -99ft / 20-30m) apart. Where ground coverage does not afford looks at the bare mineral soil, scrapes are used to provide at least a 9-10sq ft / 1 sq meter look.

The 'medium probability' was meant for a mixture of General near the 'High' and becoming Cursory further away at the margins of the area. While the general intensity is described above, a cursory more looks for localized features to investigate. The 'low probability' was intended to be a blend of cursory or intuitive. Transect lines 100-150ft apart (30-50m) through the unit were walked, with focus given to promising terrain features.

Two cultural resource surveyors surveyed this project area. Both surveyors were trained through Cal Fire's Archeological Training course #178. Ben Harris, State Archeologist, was consulted as well.

| SPR CUL-5 Treatment of Archaeological Resources: If cultural resources are identified within a treatment area, and cannot be avoided, a qualified archaeologist will notify the culturally affiliated tribe(s) based on information provided by NAHC and assess, whether an archaeological find qualifies as a unique archaeological resource, an historical resource, or in coordination with said tribe(s), as a tribal cultural resource. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> During-Post | CAL FIRE |
|---|-----------|--------------------------------------|----------|
| | | | |
| SPR CUL-6 Treatment of Tribal Cultural Resources: If a tribal cultural resource is identified within a treatment area, and cannot be avoided, the project proponent in consultation the culturally affiliated tribe(s), will develop effective protection measures for important tribal cultural resources located within treatment areas. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior-During-Post | CAL FIRE |
| Tribes were contacted on October 18th, 2022. A response was received on November 21st, 2022, fr Indians. | om Sherwo | ood Valley Band of | Pomo |
| SPR CUL-7 Avoid Built Historical Resources: If the records search identifies built historical resources, as defined in Section 15064.5 of the State CEQA Guidelines, the project proponent will avoid these resources. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During-Post | CAL FIRE |
| Flag and avoid protection measures will prevent significant impacts to built historical resources, as re | viewed by | the state archeolog | gist. |

| SPR CUL-8 Cultural Resource Training: The project proponent will train all crew members and contractors implementing treatment activities on the protection of sensitive archaeological, historical, or tribal cultural resources. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
|---|---|---|--|
| | | | - |
| MM CUL-2: Protect Inadvertent Discoveries of Unique Archaeological Resources or Subsurface Historical Resources If any prehistoric or historic-era subsurface archaeological features or deposits, including locally darkened soil ("midden"), that could conceal cultural deposits, are discovered during ground- disturbing activities, all ground-disturbing activity within 100 feet of the resources will be halted and a qualified professional archaeologist or CAL FIRE archeological trained Registered Professional Forester will assess the significance of the find. | Yes | <u>CAL FIRE</u> Prior-During-Post | <u>CAL FIRE</u> |
| Should project activities reveal cultural or archaeological resources, CAL FIRE's standard post-review. Work will cease within 100 feet of the discovery and the appropriate CAL FIRE archeologist will be condiscretion of the archaeologist if or when adequate protection measures have been established. Dep the project may no longer be considered exempt and an appropriate CEQA document may need to be Safety Code (HSC 7050.5(b)), in the event human remains or burials are encountered, all work shall Coroner's office and CAL FIRE archaeologist shall be contacted. Work will not occur until clearance in | ontacted. V bending on e develope cease, and | Vork will not resum the nature of the d d. Per California F | e until the iscovery, lealth and |

EC-5: BIOLOGICAL RESOURCES

| | PEIR specific | | | Pro | | |
|--|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | ldentify Impact Significance for the Treatment Project | No New Impact |
| Impact BIO-1: Substantially Affect Special-Status Plant Species Either Directly or Through Habitat Modifications | Impact BIO-1, 3.6 | LTS | <u>SPR BIO-</u> 1, 2, 7, 9 <u>SPR AQ-</u> 3, 4, <u>SPR GEO-</u> 1, 3, 4, 5, 7 <u>SPR HYD-</u> 5 <u>MM BIO-</u> 1a, 1b, 1c | Yes | LTS | |

habitat modifications. As part of SPR BIO-1, a data review performed by a Certified Botanist has identified forty-four (44) special-status plant species with a moderate to high potential to be found within the proposed treatment areas, as described in the following section. The complete scoping list evaluating all potential plants can be found in Attachment B. Additionally, a floristic survey was performed as part of SPR BIO-1, which identified every plant encountered through the blooming window within the project area. This complete survey captures any plant, regardless of whether it is on the scoping list or not, to ensure all Special-Status plants are discovered.

SPR BIO-7 would apply to all treatment activities, including maintenance treatments; it requires protocol-level surveys for special-status plants to be conducted prior to implementation of mechanical, manual, herbicide, and prescribed burning treatments. Pursuant to SPR BIO-7, surveys would not be required for those special-status plants not listed under CESA or ESA, if the target special-status plant species is an herbaceous annual species, stump-sprouting species, or geophyte species, and the treatment may be carried out during the dormant season for that species or when the species has completed its annual life cycle provided the treatment would not alter habitat in a way that would make it unsuitable for the special-status plants to reestablish following treatment, or destroy seeds, stumps, or roots, rhizomes, bulbs and other underground parts of special-status plants.

Eight of the 44 special-status plant species with high or moderate potential to occur within the treatment areas are herbaceous annual species or geophytes, as indicated in Table 2. Impacts on these species would be avoided by implementing non-ground-disturbing treatment activities (e.g., manual treatment activities) during the dormant season (i.e., when the plant has no above ground parts), which would generally occur during the winter. Ground-disturbing treatment activities (e.g., mechanical treatments, construction of control lines for broadcast burning) may result in impacts on these plant species even when dormant and would not be conducted without prior implementation of SPR BIO-7. If non-ground-disturbing treatments cannot be completed in the dormant season and would be implemented during the growing period of these annual and geophyte species, protocol surveys (per SPR BIO-7) and avoidance of any identified plants (per Mitigation Measures BIO-1a and BIO-1b) must be implemented, as described below. The remaining 36 of the 42 special-status plant species that have potential to occur within the treatment areas are perennial species, which could not be avoided in the same manner as herbaceous annual species or geophytes; therefore, protocol-level surveys under SPR BIO-7 would be necessary to identify them prior to implementing treatment activities regardless of the timing of treatments.

Where special-status plants are identified during these surveys (SPR BIO-7), Mitigation Measures BIO-1a and BIO-1b would be implemented to avoid loss of identified special-status plants. Per Mitigation Measures BIO-1a and BIO-1b, if special-status plants are identified during protocol-level surveys, a no-disturbance buffer of at least 50 feet would be established around the area occupied by the species within which prescribed (broadcast or pile) fire, and mechanical, herbicide, and manual treatment, would not occur unless a qualified RPF or biologist determines, based on substantial evidence, that the species would benefit from treatment in the occupied habitat area. In the case of plants listed pursuant to CESA or ESA, the determination of beneficial effects would need to be made in consultation with the California Department of Fish and Wildlife (CDFW) and/or USFWS. If treatments are determined to be beneficial and would be implemented in areas occupied by special-status plants, under the specific conditions described under Mitigation Measures BIO-1a and BIO-1b, additional impact minimization and avoidance measures or design alternatives to reduce impacts would be identified. An evaluation of the appropriate treatment design and frequency to maintain habitat function for special-status plants will be carried out by a qualified RPF or botanist. Therefore, habitat function for special-status plants would be maintained because treatment activities and maintenance treatments would be designed to ensure that treatments, including follow-up maintenance, maintain habitat function for the special-status plant species present. In addition, SPR BIO-2 would require biological resource training for workers and SPR BIO-9 would prevent noxious weed spread from treatment activities to areas that have Special-Status plants.

For species listed under ESA or CESA, if the project proponent cannot avoid loss by implementing no-disturbance buffers, the project proponent will implement Mitigation Measure BIO-1c. In this case where it is determined by a qualified RPF or botanist, in consultation with CDFW and USFWS, as appropriate depending on species status and location, that the listed plants would benefit from treatment in the occupied habitat area even though some of the listed plants may be lost during treatment activities.

Through the above mitigation measure and SPRs, impacts to special-status plant species will be less than significant.

| | Impact | LTS | SPR BIO- | Yes | LTS | \square |
|--|------------|-----|--|-----|-----|-----------|
| | BIO-2, 3.6 | | 1, 2, 3, 4, 5, 8, 10, 11 | | | |
| Impact BIO-2: Substantially Affect Special-Status Wildlife Species | | | <u>SPR HYD-</u> 1, 3, 4, 5 <u>SPR HAZ-</u> | | | |
| Either Directly or Through Habitat Modifications | | | 5, 6 <u>MM BIO-</u> | | | |
| | | | 2a, 2b, 2c, 2d, 2e, 2f, | | | |
| | | | 2g, 2h, 3a, 3b, 3c, 4 | | | |

Initial vegetation treatments and follow-up maintenance treatments could result in direct or indirect adverse effects on special-status wildlife species and habitat suitable for these species within a treatment area, as described in the following sections. As part of SPR BIO-1, a data review performed by the JDSF biologist has identified thirty-five (35) special-status wildlife species with a moderate to high potential to be found within the proposed treatment areas, as described in the following section. Potential impacts resulting from maintenance activities would be like those resulting from initial vegetation treatments because the same treatment activities would occur.

Special-Status Amphibians

Four special-status amphibian species may occur within the treatment area: northern red-legged frog, foothill yellow-legged frog, coastal tailed frog, and red-bellied newt. Habitat exists for all four species within the proposed treatment areas within perennial watercourses and wet areas. In addition, red-bellied newts can be found within terrestrial environments. Adult and juvenile northern red-legged frogs are also known to travel through upland habitat (e.g., riparian, woodland, grassland) to move between breeding and nonbreeding sites (e.g., other ponds, deep pools in streams, moist and cool riparian understory, burrows) for access to refugia and foraging habitat or to disperse to new breeding locations.

The foothill yellow-legged frog is a highly aquatic species which inhabits a variety of small to large sized streams with rocky or cobble substrate, from sea-level to 6,000 feet in parts of Oregon and California. They are found in a variety of riparian, oak-woodland, conifer, coastal scrub, mixed chaparral, and meadow stream habitats. They use permanent pools of streams, ponds, and marshes with extensive shoreline vegetative cover. Adults bask on sunny exposed rock surfaces near streams and dive into the water when disturbed. Breeding can begin as early as March in warm coastal streams and extend into May, and larvae can hatch in as little as 5 or more than 35 days depending on temperature. Reproduction is aquatic and egg-laying occurs on streams and rivers (not ponds or lakes), with peak season occurring April to July. Egg clusters are attached to the downstream side of rocks in shallow, slow moving water near stream edges. They occasionally attach their eggs on vegetation as well. Rearing habitat for tadpoles consists of sunny low-gradient gravel and cobble bars along vegetated banks. Tadpoles eat diatoms and filamentous algae. Post-metamorphic frogs eat terrestrial and aquatic invertebrates such as flies, moths, mosquitos, ants, beetles, water striders, snails, arachnids. Time to metamorphosis takes 3 to 4 months, from July to October. This species of frog is rarely found far from permanent water, even on rainy nights. Home range is limited to about 33 feet in the farthest direction. They also make seasonal upslope migrations during the winter period to smaller watercourses to avoid high flows and habitat inundation (Morey 2000) (CDFW 2018).

SPR BIO-10 would require a qualified biologist or RPF of record to survey for the presence of red-legged frogs, foothill yellow-legged frogs, and red-bellied newt. The survey will be conducted no more than 14 days prior to the beginning of treatment activities. To meet Mitigation Measure BIO-2b, JDSF would require flagging areas for avoidance, relocation of individual animals by a qualified RPF or biologist with a valid CDFW scientific collecting permit, and/or other measures recommended by CDFW as necessary to avoid injury to or mortality of red-legged frogs and foothill yellow-legged frogs.

Additionally, WLPZs ranging from 50 to 150 feet adjacent to all Class I-III watercourses within the treatment areas would be implemented per SPR HYD-4. Also,

pursuant to SPR HYD-4, no fire ignition (nor use of associated accelerants) will occur within WLPZs – (however low intensity backing fires may be allowed to enter or spread into WLPZs). SPR GEO-1 would be implemented, which would limit mechanical and herbicide treatments before, during, or after precipitation events. SPR BIO-2 would train workers in identifying red-bellied newts. SPR BIO-10 would require a qualified biologist or RPF of record to survey for the presence of red-bellied newts no more than 14 days prior to the beginning of treatment activities. If red-bellied newts are found during protocol level surveys, relocation of individuals by a qualified RPF or biologist with a valid CDFW scientific collecting permit would occur, and/or other measures recommended by CDFW as necessary to avoid injury to or mortality.

Habitat function for the special-status amphibians would be maintained because treatment activities and maintenance treatments would not occur within aquatic habitat and SPRs HYD-4, BIO-1, BIO-2, BIO-10 and GEO-1 would be implemented.

Special-Status Birds

Seventeen special-status bird species may occur within the treatment area: northern goshawk, tricolored blackbird, golden eagle, great egret, great blue heron, marbled murrelet, bald eagle, osprey, long-eared owl, Vaux's swift, olive-sided flycatcher, white tailed kite, least willow flycatcher, peregrine falcon, purple martin, yellow warbler and northern spotted owl. Osprey and northern spotted owl are known to nest in locations near the proposed treatment areas.

Treatment activities, including mechanical treatments, manual treatments, herbicide treatments, and prescribed (broadcast or pile) burning conducted during the nesting bird season (February 1–August 31) could result in direct loss of active nests if trees or shrubs containing nests are removed, treated with herbicide, or burned. If a nest structure is observed during SPR BIO-12, it shall be retained. Indirect disturbances to active nests may occur from treatment activities including mechanical treatments, manual treatments, and prescribed burning, due to auditory and visual stimulus (e.g., heavy equipment, chain saws, vehicles, personnel) potentially resulting in abandonment and loss of eggs or chicks.

Per SPR BIO-1, if it is determined that adverse effects on habitat suitable for nesting special-status birds can be clearly avoided by physically avoiding habitat suitable for the species or conducting treatments outside of the season of sensitivity (i.e., nesting bird season), then no mitigation would be required. Additionally, no manual, mechanical, herbicide or prescribed burn operations will be conducted within 1/4 mile of any Northern Spotted Owl activity center during their breeding season (February 1 – July 31).

For other nesting special-status birds, adverse effects would be clearly avoided for treatments that would occur outside of the nesting bird season (February 1–August 31). If conducting treatments outside of the nesting bird season is determined to be infeasible for certain treatments, project proponent will implement BIO-12 to survey for active bird nests. If an active nest is observed (i.e., presence of eggs and/or chicks) or determined to likely be present based on nesting bird behavior, the project proponent will implement a feasible strategy to avoid disturbance of active nests.

If no active bird nests are observed during focused surveys, then additional avoidance measures for these species would not be required. If active special-status bird nests are observed during focused surveys, then Mitigation Measures BIO-2a (for bald eagle, marbled murrelet, osprey and northern spotted owl) would be implemented.

Habitat function for special-status birds would be maintained because treatment activities would not result in removal of trees (i.e., conifers, hardwoods) or snags 12 inches DBH or greater, which would be the most likely features to be used by these species due to the cover provided by larger trees. Additionally, treatments within riparian habitat (which provides nesting habitat for several of the special-status bird species that may occur in the treatment areas [e.g., yellow warbler]) that is included within a WLPZ would be limited pursuant to SPR HYD-4 (e.g., no mechanical treatment, retention of at least 75 percent surface cover).

If Mitigation Measure BIO-2a is required for treatment, Jackson Demonstration State Forest would contact CDFW to seek technical input on the determination that habitat function would be maintained for marbled murrelet, bald eagle, osprey and northern spotted owl. This impact of the proposed project is consistent with the PEIR and would not constitute a substantially more severe significant impact than what was covered in the PEIR.

Special-Status Invertebrates

Four special-status invertebrates may occur within the proposed treatment areas: Crotch's bumble bee, western bumble bee, Mendocino leptonetid spider and the Pomo bronze shoulderband (snail). MM Bio-2f does not apply to the Pomo bronze shoulderband snail or Mendocino leptonetid spider because neither are state or federally listed.

Habitat requirements for Bombus crotchii are open grassland and scrub habitats while requirements for Bombus occidentalis occidentalis are meadows and grasslands with abundant floral resources (Hatfield et al., 2018). The project area is a closed-canopy forest with neither meadows, open grassland, nor scrub habitat contained within.

Thinning and burning forested areas may increase bumble bee forage potential for bees since flowering plants such as ceanothus have been observed revegetating under the forest canopy after mastication and broadcast burning of a nearby selection harvested THP. Herbicide application may be used to treat invasive weed populations in order to promote native plants, and native floral resources will not be treated with herbicides.

No habitat required for special-status bees will be treated, therefore, MM BIO-2g does not apply.

Special-Status Fish

Four special-status fish species have habitat that occurs within the proposed treatment areas: Steelhead – Northern California coast DPS, coho salmon – Central Coast ESU, chinook salmon – California Coastal ESU, and pacific lamprey (Table 2). The potential for treatment activities and maintenance treatments to result in adverse effects on special-status fish was examined in the PEIR.

Per SPR BIO-1, if it is determined that adverse effects on special-status fish can be clearly avoided by physically avoiding habitat for these species, then mitigation would not be required. WLPZs ranging from 50 to 150 feet adjacent to all Class I and Class II streams within the treatment areas would be implemented per SPR HYD-4 and its project-specific refinement to include the implementation of no-disturbance buffers of 300 feet around all ponds (including ponds on adjacent private property where the buffer extends into a treatment area). Adverse effects on special-status fish would be clearly avoided through implementation of this SPR and further mitigation would not be required.

Habitat function for special-status fish would be maintained because treatment activities and maintenance treatments would not occur within aquatic habitat and treatments within WLPZs adjacent to treatment areas would be limited pursuant to SPR HYD-4 (e.g., no mechanical treatment, retention of at least 75 percent surface cover, no treatment within 300 feet of ponds). This impact of the proposed project is consistent with the PEIR and would not constitute a substantially more severe significant impact than what was covered in the PEIR.

Special-Status Mammals

Six special-status mammal species have habitat that occurs within the proposed treatment areas: Sonoma tree vole, pallid bat, ringtail, Humboldt marten, fisher, and Townsend's big-eared bat. (Table 2). The potential for treatment activities and maintenance treatments to result in adverse effects on special-status mammals was examined in the PEIR.

Habitat potentially suitable for Sonoma tree vole is present in the proposed treatment areas, including Douglas-fir Forest. Sonoma tree voles prefer old growth or mixed old growth and mature forest habitat; however, the species can occur in other types and ages of forests, including young growth forests. While it is possible that this species could nest in large trees (especially Douglas-fir) on the project site, treatment activities would not result in removal of any living trees greater than 12 inches DBH. Small trees (<12 inches DBH) with nest structures identified during protocol-level surveys per SPR BIO-10 shall be retained. Adverse effects on Sonoma tree voles are unlikely to occur and mitigation would not be required.

Habitat function for Sonoma tree vole would be maintained because treatment activities and maintenance treatments would not result in removal of living trees (i.e., conifers, hardwoods) greater than 12 inches DBH, which would retain the essential range of habitat features by retaining the larger trees.

Habitat potentially suitable for Townsend's big-eared bat is present within forest habitat, rocky areas, and human-made structures (e.g., barns, bridges) in the treatment areas. Per SPR BIO-1, if it is determined that adverse effects on special-status bats can be clearly avoided by conducting treatments outside of the season of sensitivity (i.e., maternity season), then mitigation would not be required. Adverse effects on special-status bat maternity roosts would be clearly avoided by conducting initial and maintenance treatments outside of the bat maternity season (April 1–August 31; California Department of Transportation 2004).

Treatment activities, including mechanical treatments, manual treatments, herbicide treatments, and prescribed burning using Utility Task Vehicles (UTVs), conducted within habitat suitable for bats during the bat maternity season (April 1–August 31) could disturb active bat roosts from auditory and visual stimuli (e.g., heavy equipment, chain saws, vehicles, personnel) or smoke (e.g., prescribed burning) potentially resulting in abandonment of the roost and loss of young.

If mechanical, manual, herbicide, or prescribed burning treatments would occur during the bat maternity season, then SPR BIO-10 would apply, and focused surveys for these species would be conducted within suitable habitat areas prior to initiation of manual, mechanical, herbicide, and prescribed burning treatments. If special-status bat roosts are identified during focused surveys, Mitigation Measure BIO-2b for special-status bats would be implemented.

Under Mitigation Measure BIO-2b, a no-disturbance buffer of 250 feet would be established around active bat roosts and mechanical treatments and manual treatments would not occur within this buffer. A no-disturbance buffer of 250 feet is necessary to protect sensitive roosts; this buffer size was adjusted to be larger than the general no-disturbance buffer of 100 feet provided in Mitigation Measure BIO-2b in order to provide adequate protection such that impacts would be less than significant under CEQA. If special-status bat roosts are identified in a treatment area where prescribed burning is planned, prescribed burning activities would be implemented outside of the bat breeding season, which is April 1–August 31.

Habitat function for special-status bats would be maintained because treatment activities and maintenance treatments would not result in removal of living trees (i.e., conifers, hardwoods) 12 inches DBH or greater, which would be the most likely features to be used by this species due to the cover provided by larger trees.

Treatments will not result in impacts to special status species based on implementation of applicable SPRs (BIO-1, BIO-10, BIO-12, etc.). Additionally, habitat function will be retained as the location, essential habitat features, and species supported will not substantially change as a result of treatments.

| Impact BIO-3 : Substantially Affect Riparian Habitat or Other Sensitive Natural Community Through Direct Loss or Degradation that Leads to | Impact BIO-3, 3.6 | LTS | <u>SPR BIO-</u> 1, 2, 3, 4, 5, 6, 8, 9 <u>SPR HYD-</u> 4, 5 | Yes | LTS | |
|---|----------------------|-----|---|-----|-----|--|
| Loss of Habitat Function | | | 4, 5 <u>MM BIO-</u> 3a, 3b, 3c | | | |

Initial vegetation treatments and maintenance treatments could result in a less than significant adverse effect on Riparian Habitat or other sensitive natural communities. Riparian buffers have been placed around all watercourses and springs. Equipment is excluded from operating within the buffers Backing fires may occur within some of the riparian buffers but will not be ignited from within them. Due to these protections of the watercourses and wet areas and their adjoining riparian habitat, the impact will be less than significant.

The Redwood Forest and Woodland natural community is ranked G3/S3, qualifying it as a sensitive natural community. The project proponent has conducted a CDFW protocol-level Special Status Plants and Sensitive Natural Communities survey prior to treatment within the proposed treatment areas (SPR BIO-7). SPR BIO-2 would require biological training to field workers to help them recognize rare plants so they might readily identify new detections during project work.

The Sensitive Natural Communities within the project area are Redwood Forest Alliance and Tanoak Forest Alliance (both S3). Membership rules for Redwood Forest Alliance state that there must be 50% relative cover in the Redwood tree canopy, or more than 30% relative cover with other conifers. Membership rules for the Tanoak Forest Alliance state that there must be 50% relative cover in the tanoak canopy and over 10% absolute cover in the tree layer. Neither one of these Sensitive Natural Communities will have their relative cover reduced below these levels through any of the treatment prescriptions proposed for the VTP.

Riparian habitat is present adjacent to streams in all the proposed treatment areas. Under SPR HYD-4, WLPZs ranging from 50 to 150 feet would be established adjacent to all Class I and Class II streams and springs for manual, mechanical, and pile burning treatments, which would limit the extent of treatment activities within riparian habitat. While these SPRs would reduce potential impacts on riparian habitat, the extent of riparian habitat within the treatment areas has not been mapped and riparian habitat may be present outside of the areas incorporated within WLPZs. As a result, prior to implementation of treatment activities, SPR BIO-3 would need to be implemented to identify and map the extent of riparian habitat within the treatment areas. As required under SPR BIO-4, treatments in riparian habitats would retain at least 75 percent of the overstory and 50 percent of the understory canopy of native riparian vegetation and would largely be limited to removal of uncharacteristic fuel loads (e.g., dead or dying vegetation, invasive plants).

Additionally, the project will focus on removing trees less than 12" DBH trees and shrubs, which will not alter the composition of any forested habitat. The potential for treatment activities to result in adverse effects on sensitive habitats, as described above, was examined in the PEIR. This impact on sensitive habitats is within the scope of the PEIR. SPRs that apply are SPR BIO-1, SPR BIO-2, SPR BIO-3, SPR BIO-4, SPR BIO-6, SPR BIO-9, SPR GEO-1, SPR GEO-3, SPR GEO-4, SPR GEO-5, and SPR HYD-4.

| Impact BIO-4: Substantially Affect State or Federally Protected | Impact BIO-4, 3.6 | LTS | <u>SPR BIO-</u> 1 SPR HYD- | Yes | LTS | \boxtimes |
|---|----------------------|-----|-------------------------------|-----|-----|-------------|
| Wetlands | | | 1, 3, 4, MM BIO- 4 | | | |

The treatment activities have the potential to negatively impact wetlands and riparian habitats. With the inclusion of the SPRs listed in the table above, this impact will be less than significant. These SPRs include the implementation of slope dependent, watercourse, and wet area protections.

A qualified RPF or biologist will identify and establish a buffer around wetland features, with a minimum buffer width of 25 feet that may be larger if deemed necessary.

Within this buffer, soil disturbance is prohibited, therefore, mastication and equipment/vehicle access and staging will be prohibited.

Prescribed (broadcast) burning may be implemented in some wetlands if it is determined by a qualified RPF or biologist that:

- No special-status species are present in the wetland habitat,
- The wetland habitat function would be maintained,
- The prescribed burn is within the normal fire return interval for the wetland vegetation types present,
- Fire containment lines and pile burning are prohibited within the buffer, and
- No fire ignition (and associated use of accelerants) will occur within the wetland buffer.

| | Impact | LTS | SPR BIO- | Yes | LTS | \square |
|---|------------------|--------------------|--------------------------|----------------|--------------------------|-----------|
| Impact BIO-5: Interfere Substantially with Wildlife Movement | BIO-5, 3.6 | | 1, 4, 5, 10, 11 | | | |
| Corridors or Impede Use of Nurseries | | | SPR HYD- | | | |
| | | | 1, 4 <u>MM BIO-</u> 5 | | | |
| The treatment activities could result in direct or indirect adverse effects on wildlife o | orridors because | l s suitable ba | | t in the treat | I tment area. In fact | it is |

The treatment activities could result in direct or indirect adverse effects on wildlife corridors because suitable habitat is present in the treatment area. In fact, it is expected that some wildlife corridors for certain species will ultimately be improved by the treatment activities. For example, the understory is expected to be more

open after treatments, allowing travel for some bird species to improve. By protecting the forest ecosystem as a whole, the habitat corridors may experience treatment-related noise and disturbance, leading to temporary changes in migration or movement patterns, however, corridors will be better protected from high intensity wildfire in the future. This will conserve and protect the corridors in the long run and promote a healthy, fire resilient ecosystem. Furthermore, with the inclusion of the riparian zone protections pursuant to SPR HYD-4, there will be areas of intact wildlife corridors which connect multiple treatment areas to untreated landscapes. SPRs that apply to project impacts under Impact BIO-5 are BIO-1, BIO-4, BIO-5, BIO-10, HYD-1, HYD-4. Any nursery site identified during BIO-10 surveys would be protected per MM BIO-5.

| Impact BIO-6: Substantially Reduce Habitat or Abundance of Common Wildlife | Impact BIO-6, 3.6 | LTS | <u>SPR BIO-</u> 1, 2, 3, 4, | Yes | LTS | |
|--|----------------------|-----|--------------------------------|-----|-----|--|
| Common whome | | | 5, 12 | | | |

Initial vegetation treatments and maintenance treatments could result in direct or indirect adverse effects resulting in reduction of habitat or abundance of common wildlife, including nesting birds, because habitat suitable for these species is present throughout treatment areas. Treatment activities, including mechanical treatments, manual treatments, herbicide treatments, and prescribed burning during the nesting bird season (February 1– August 31) could result in direct loss of active nests or disturbance to active nests from auditory and visual stimulus (e.g., heavy equipment, chain saws, vehicles, personnel), potentially resulting in abandonment and loss of eggs or chicks.

SPR BIO-12 would apply, and for treatments implemented during the nesting bird season, a survey for common nesting birds will be conducted within the treatment area by a qualified RPF or biologist prior to treatment activities. If no active bird nests are observed during focused surveys, then additional avoidance measures would not be required. If active nests of common birds or raptors are observed during focused surveys, disturbance to the nests will be avoided by establishing an appropriate buffer around the nests, modifying treatments to avoid disturbance to the nests, or deferring treatment until the nests are no longer active as determined by a qualified RPF or biologist.

Because treatments would be implemented within relatively small proportions of the extensive ranges of common species, and suitable habitat would remain available to these species across the broader landscape surrounding treatment areas, the magnitude of these potential losses would not substantially reduce the overall abundance of any common wildlife species. Additionally, implementation of SPRs BIO-1, BIO-2, BIO-3, BIO-4, and BIO-5 would limit the loss or degradation of some high-quality breeding habitats for special-status wildlife that would also benefit common species, and implementation of SPR BIO-12 would protect common nesting birds, including raptors. Therefore, treatment activities would not substantially reduce the population size of or availability of suitable breeding habitat for any common wildlife species, including nesting birds.

| Impact BIO-7: Conflict with Local Policies or Ordinances Protecting Biological Resources | Impact BIO-7, 3.6 | Np Impact | <u>SPR AD-</u> 3 | Yes | LTS | \boxtimes | |
|---|----------------------|--------------|------------------|-----|-----|-------------|---|
| Biological Resources | | | | | | | l |

The potential for treatment activities to result in conflicts with local policies or ordinances was examined by the project preparer. The only applicable policy relevant to the protection of biological resources is the Jackson Demonstration State Forest Management Plan. Given its geographic location, vegetation types, and demonstration mandate, the Jackson Demonstration State Forest is in a unique position to develop habitats that contribute to improvement in the population viability of certain species of concern and to protect or restore other forest values. Opportunities exist for habitat restoration and management for species that may or may not presently occur on the forest. Similarly, efforts to control the establishment and spread of invasive weed species will contribute to the protection of biological diversity from both a local and regional perspective. All projects implemented under the CalVTP that are subject to local policies or ordinances would be required to comply with them, per SPR AD-3.

| Impact BIO-8 : Conflict with the Provisions of an Adopted Natural Community Conservation Plan, Habitat Conservation Plan, or Other Approved Habitat Plan | Impact BIO-8, 3.6 | No Impact | N/A | No | N/A | |
|---|----------------------|----------------|----------------|--------------|---------------------|------|
| This impact does not apply to the proposed project because the treatment areas are n community conservation plan. Therefore, this impact does not apply to the proposed p | - | olan area of a | any adopted ha | abitat conse | rvation plan or nat | ural |
| Other Impacts to Biological Resources: Would the project result in other impacts to biological resources that are not evaluated in the CalVTP PEIR? | | | | No | N/A | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|---|------------|---|------------------------------------|
| SPR BIO-1: Review and Survey Project-Specific Biological Resources. | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE |
| 1. Suitable Habitat Is Present but Adverse Effects Can Be Clearly Avoided. | Yes | | |
| 2. Suitable Habitat is Present and Adverse Effects Cannot Be Clearly Avoided. | No | | |
| This SPR applies to all treatment activities and treatment types. | | | |

Scoping: Prior to surveys, the following literature and database searches were completed to assess the potential for sensitive natural communities and special-status species:

- Aerial photographs (Google Earth 2023 and NAIP 2020, NAIP 2022)
- California Natural Diversity Database (CDFW 2022, CNDDB)
- California Native Plant Society Electronic Inventory (CNPS 2022)
- A Manual of California Vegetation Online (CNPS 2022)
- Preliminary Descriptions of the Terrestrial Natural Communities (Holland 1986)

Scoping lists and database searches (i.e. CNDDB, CNPS) were based on Fort Bragg, Elk, Albion, Sherwood Peak, Dutchmans Knoll, Inglenook, Comptche, Northspur, Albion, Navarro, Longvale, Greenough Ridge, Burbeck, Bailey Ridge and Navarro 7.5' USGS Quadrangle maps. Additionally, the CAL VTP Special-Status Plant Species Known to Occur in the Northern California Coast Ranges Ecological Section (M261B) within the Treatable Landscape Scoping Lists.

Site visits evaluated the presence of suitable habitat for special-status species as well as observation of specific species. Suitable habitat conditions are based on physical and biological conditions of the site, as well as the professional expertise of the surveyor. The potential for each special-status species to occur in the Survey Area was ranked based on the following criteria:

- None. No habitat components meeting the species requirements are present.
- Unlikely. Few to none of the habitat components meeting the species requirements are present, and/or the majority of habitat within and adjacent to the project site is unsuitable or of very poor quality. Habitat components may include, but are not limited to climate, soil and aspect. The species is not likely to be found on the site.
- Moderate. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. Habitat components include climate, soil and aspect. The species has a moderate probability of being found on the site.
- High. All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site.
- Present. Species has been observed on the site or has been recorded (database observation) on the site in the recent past.

Surveying methods were based on Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities (CDFW 2018). A seasonally appropriate floristic survey was performed.

| SPR BIO-2: Require Biological Resource Training for Workers. The project proponent will | | | |
|--|-----|--------------------------|----------|
| require crew members and contractors to receive training from a qualified RPF or biologist prior to beginning a treatment project. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |

Worker Environmental Awareness Program trainings will be given to crews prior to and during treatment activities, informing them of sensitive biological resources identified in SPR – BIO 1 and proper avoidance measures in the treatment area.

| SPR BIO-3: Survey Sensitive Natural Communities and Other Sensitive Habitats. If SPR BIO- | | | |
|--|-----|--------------|----------|
| 1 determines that sensitive natural communities or sensitive habitats may be present and adverse | Yes | CAL FIRE | CAL FIRE |
| effects cannot be avoided. This SPR applies to all treatment activities and treatment types. | 165 | Prior-During | <u></u> |

Sensitive natural communities were surveyed for as part of the 2018 Department of Fish and Wildlife Protocol for botanical surveys. The only Sensitive Natural Communities observed within the project area are Redwood Forest Alliance and Tanoak Forest Alliance (both S3).

Membership rules for Redwood Forest Alliance state that there must be 50% relative cover in the Redwood tree canopy, or more than 30% relative cover with other conifers. Characteristic species include redwood (Sequoia sempervirens), Douglas-fir (Pseudotsuga menziesii), tanoak (Notholithocarpus densiflorus) and understory species such as sword fern (Polystichum munitum). Membership rules for the Tanoak Forest Alliance state that there must be 50% relative cover in the tanoak canopy and over 10% absolute cover in the tree layer.

Neither one of these Sensitive Natural Communities will have their relative cover reduced through any of the treatment prescriptions

| proposed for the VTP. | | | | | | | |
|---|-------------|--------------------------|-----------------|--|--|--|--|
| SPR BIO-4: Design Treatment to Avoid Loss or Degradation of Riparian Habitat Function. Project proponents, in consultation with a qualified RPF or qualified biologist, will design treatments in riparian habitats to retain or improve habitat functions. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE | | | | |
| The project area contains class II and III waters and seeps/springs (given class II buffers) which will f flagging prior to treatment. Implementation of SPR BIO -4 and SPR HYD -4 will establish equipment exclude equipment within the buffer, but allow limited other treatments such as a backing fire during l | exclusion b | uffers in these area | | | | | |
| SPR BIO-5: Avoid Environmental Effects of Type Conversion and Maintain Habitat Function in Chaparral and Coastal Sage Scrub. The project proponent will design treatment activities to avoid type conversion where native coastal sage scrub and chaparral are present. These SPR requirements apply to all treatment activities and all treatment types. Additional measures will be applied to ecological restoration treatment types | No | <u>CAL FIRE</u> N/A | <u>CAL FIRE</u> | | | | |
| The project is located outside Chaparral and Coastal Sage Scrub habitats and shall have no impact of | on these ha | bitats. | | | | | |
| SPR BIO-6: Prevent Spread of Plant Pathogens. When working in sensitive natural communities, riparian habitats, or oak woodlands that are at risk from plant pathogens (e.g., lone chaparral, blue oak woodland), the project proponent will implement best management practices to prevent the spread of <i>Phytopthora</i> and other plant pathogens (e.g., pitch canker (<i>Fusarium</i>), goldspotted oak borer, shot hole borer, bark beetle). This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE | | | | |
| Personnel utilized on this project will be advised of the need to ensure equipment coming to or leaving the project area is properly washed. It is most likely that personnel and equipment assigned to work on the project will be from the local area and the concern of pathogens entering from other areas will be low. However, because Fire Crews, Fuels Crews, associated equipment (chainsaws, hand tools, etc.), and vehicles could have been used in other portions of the state, either on fires or other fuel treatment projects, the crews will be advised to completely clean their equipment, tools, and vehicles before arriving at and leaving the project site. | | | | | | | |
| SPR BIO-7: Survey for Special-Status Plants. If SPR BIO-1 determines that suitable habitat for special-status plant species is present and cannot be avoided, the project proponent will require a qualified RPF or botanist to conduct protocol-level surveys for special-status plant species with the potential to be affected by a treatment prior to initiation of the treatment. The survey will follow the methods in the current version of CDFW's "Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities." This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE | | | | |
| 44 special-status plant species returned from SPR BIO-1 that have the potential to be within the project area. Surveys to determine the presence or absence of special-status plant species will be conducted within suitable habitat that could be affected by the treatment and timed to coincide with the blooming or other appropriate phenological period of the target species (as determined by a qualified RPF or botanist), or all species in the same genus as the target species will be assumed to be special-status. | | | | | | | |

| SPR BIO-8: Identify and Minimize Impacts in Coastal Zone ESHAs. This SPR applies to all treatment activities and only the ecosystem restoration treatment type. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
|--|--|---|------------------------------------|
| The project is not within the coastal zone. Therefore, SPR BIO-8 is not applicable to this project. | | | |
| SPR BIO-9: Prevent Spread of Invasive Plants, Noxious Weeds, and Invasive Wildlife. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| Personnel will be required to clean tools and equipment per SPR – BIO 9 | | | |
| SPR BIO-10: Survey for Special-Status Wildlife and Nursery Sites. If SPR BIO-1 determines that suitable habitat for special-status wildlife species or nurseries of any wildlife species is present and cannot be avoided, the project proponent will require a qualified RPF or biologist to conduct focused or protocol-level surveys for special-status wildlife species or nursery sites (e.g., bat maternity roosts, deer fawning areas, heron or egret rookeries) with potential to be directly or indirectly affected by a treatment activity. The survey area will be determined by a qualified RPF or biologist based on the species and habitats and any recommended buffer distances in agency protocols. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE |
| Habitat exists for a variety of special-status wildlife species within the project area. Pre-operational su days prior to any project preparation (e.g. control line installation) or project implementation to determ and/or their structures supporting potential nurseries or nests are present within treatment areas. The wildlife species identified in BIO – 1 will receive SPR BIO-10 focused surveys prior to project activities for occurrence: Southern Torrent Salamander Coastal Tailed Frog Northern Red-legged Frog Red-Bellied Newt Western Pond Turtle Northern Spotted Owl (Strix occidentalis caurina), Marbled Murrelet Other special-statues birds (Golden Eagle, Great Egret, Great Blue Heron, etc.) Special Status Invertebrates Ringtail Sonoma Tree Vole Fisher Special Status Bats | hine if spec habitat foi s occurring | ial-status wildlife s r the following spec n the habitat with | pecies cial status potential |
| Surveys will identify and protect unique structures such as large basal hollows, old growth stumps, ar habitat for bat maternity roosts, and heron and egret rookeries, for example. | nd tall trees | close to water as | potential |

| SPR BIO-11. Install Wildlife-Friendly Fencing (Prescribed Herbivory). This SPR applies only to prescribed herbivory and all treatment types. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
|---|-----|---------------------------|-----------------|
| | | | |
| SPR BIO-12. Protect Common Nesting Birds, Including Raptors. The project proponent will schedule treatment activities to avoid the active nesting season of common native bird species, including raptors, that could be present within or adjacent to the treatment site, if feasible. Common native birds are species not otherwise treated as special status in the CalVTP PEIR. The active nesting season or peak nesting season will be defined by the qualified RPF or biologist. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | <u>CAL FIRE</u> |
| Treatments will be scheduled to avoid active nesting season for common native birds when feasible. | | | |
| MM BIO-1a: Avoid Loss of Special-Status Plants Listed under ESA or CESA If listed plants are determined to be present through application of SPR BIO-1 and SPR BIO-7, the project proponent will avoid and protect these species by establishing a no-disturbance buffer around the area occupied by listed plants and marking the buffer boundary with high-visibility flagging, fencing, stakes, or clear, existing landscape demarcations (e.g., edge of a roadway). | Yes | CAL FIRE Prior-During | CAL FIRE |
| If any special-status plants or species that are listed under ESA or CESA are found during the surveys, avoidance strategy will be implemented as per MM BIO-1a. | | | |
| MM BIO-1b: Avoid Loss of Special-Status Plants Not Listed Under ESA or CESA If non-listed special-status plant species (i.e., species not listed under ESA or CESA, but meeting the definition of special-status as stated in Section 3.6.1 of the Program EIR) are determined to be present through application of SPR BIO-1 and SPR BIO-7, the project proponent will implement measures to avoid loss of individuals and maintain habitat function of occupied habitat. | Yes | CAL FIRE Prior-During | <u>CAL FIRE</u> |
| If species not listed under CESA or ESA are found, they will be protected under MM BIO-1b. | | | |
| MM BIO-1c: Compensate for Unavoidable Loss of Special-Status Plants If significant impacts on listed or non-listed special-status plants cannot feasibly be avoided as specified under the circumstances described under Mitigation Measures BIO-1a and 1b, the project proponent will prepare a Compensatory Mitigation Plan that identifies the residual significant impacts that require compensatory mitigation and describes the compensatory mitigation strategy being implemented and how unavoidable losses of special-status plants will be compensated. If the special-status plant taxa are listed under ESA or CESA, the plan will be submitted to CDFW and/or USFWS (as appropriate) for review and comment. Compensatory mitigation may be satisfied through compliance with permit conditions, or other authorizations obtained by the project proponent (e.g., incidental take permit for state-listed plants), if these requirements are equally or more effective than the mitigation identified above. | Yes | <u>CAL FIRE</u> During | CAL FIRE |

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| California Department of Forestry & Fire Prevention | | Project S | pecific Analysis | | |
|--|-----|---------------------------------|------------------|--|--|
| MM BIO-2a: Avoid Mortality, Injury, or Disturbance and Maintain Habitat Function for Listed Wildlife Species and California Fully Protected Species (All Treatment Activities) | Yes | CAL FIRE Prior-During | CAL FIRE | | |
| Avoidance measures will include using riparian and wet area buffers which will maintain habitat function for listed aquatic wildlife and wildlife that use riparian areas for travel corridors, nesting, breeding, and other life processes. Some wildlife have special survey protocols, such as the northern spotted owl (Strix occidentalis caurina) and the marbled murrelet (Brachyramphus marmoratus). These surveys will be carried out and appropriate buffers around occupied habitat will be applied to avoid mortality, injury, or disturbance and to maintain habitat function for listed or fully protected species and treatments will not occur within the buffer. Alternatively, treatments may be implemented outside of the sensitive period for that species to avoid mortality, injury, or disturbance and to maintain. | | | | | |
| MM BIO-2b: Avoid Mortality, Injury, or Disturbance and Maintain Habitat Function for Other Special- Status Wildlife Species (All Treatment Activities) If other special-status wildlife species (i.e., species not listed under CESA or ESA or California Fully Protected, but meeting the definition of special status as stated in Section 3.6.1 of the Program EIR) are observed during reconnaissance surveys (conducted pursuant to SPR BIO-1) or focused or protocol-level surveys (conducted pursuant to SPR BIO-10), the project proponent will avoid or minimize adverse effects to the species. The only exception to this mitigation approach is in cases where it is determined by a qualified RPF or biologist that the special-status wildlife would benefit from treatment in the occupied habitat area even though some of the non-listed special-status wildlife may be killed, injured, or disturbed during treatment activities. If it is determined that treatment activities would be beneficial to special-status wildlife, no compensatory mitigation will be required. | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE | | |
| For special-status wildlife species not listed under CESA or ESA that were observed during reconnaissance, focused or protocol-level surveys, the project proponent will avoid or minimize adverse effects to the species by implementing a no-disturbance buffer around occupied sites (for all treatment activities except prescribed burning). For prescribed burning, treatments will occur outside of the sensitive period for that species. Additionally, habitat function will be maintained by ensuring habitat features essential for survival for special status species (e.g., trees with complex structure, trees with nesting platforms, raptor rests, etc.) will be retained. | | | | | |
| MM BIO-2c: Compensate for Mortality, Injury, or Disturbance and Loss of Habitat Function for Special- Status Wildlife if Applicable (All Treatment Activities) If the provisions of Mitigation Measure BIO-2a, BIO-2b, BIO-2d, BIO-2e, BIO-2f, or BIO-2g cannot be implemented and the project proponent determines that additional mitigation is necessary to reduce significant impacts, the project proponent will compensate for such impacts to species or habitat by acquiring and/or protecting land that provides (or will provide in the case of restoration) habitat function for affected species that is at least equivalent to the habitat function removed or degraded as a result of the treatment. Compensatory mitigation may be satisfied through compliance with permit conditions, or other authorizations obtained by the project proponent (e.g., incidental take permit), if these requirements are equally or more effective than the mitigation identified above. | No | <u>CAL FIRE</u> N/A | CAL FIRE | | |
| MM BIO-2d: Implement Protective Measures for Valley Elderberry Longhorn Beetle (All Treatment Activities) | No | <u>CAL FIRE</u> N/A | CAL FIRE | | |
| Valley Elderberry Longhorn Beetle is not found in the project area. It is endemic to riparian areas in the Sacramento and San Joaquin Valleys (Lang et. Al. | | | | | |

| 1989). | | | |
|---|-------------|---------------------------|----------|
| MM BIO-2e: Design Treatment to Retain Special-Status Butterfly Host Plants (All Treatment Activities) The only exception to this mitigation approach is in cases where it is determined by a qualified RPF or biologist that the special-status butterfly would benefit from treatment in the occupied habitat area even though some may be killed, injured or disturbed during treatment activities. If it is determined that treatment activities would be beneficial to special-status butterflies, no compensatory mitigation will be required. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| No special status butterflies or obligate host species were documented during desk review or reconn However, if a special-status butterfly is encountered during operations, MM Bio-2e would be applied. | aissance si | urveys for this proje | ect. |
| MM BIO-2f: Avoid Habitat for Special-Status Beetles, Flies, Grasshoppers, and Snails (All Treatment Activities) | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| No special status beetles, flies, grasshoppers, or snails were documented during desk review or reconnaissance surveys for this project. However, if special-status beetles, flies, grasshoppers, or snails are encountered during operations, MM Bio-2f would be applied. | | | |
| MM BIO-2g: Design Treatment to Avoid Mortality, Injury, or Disturbance and Maintain Habitat Function for Special-Status Bumble Bees (All Treatment Activities) The only exception to this mitigation approach is in cases where it is determined by a qualified RPF or biologist that the special-status bumble bee would benefit from treatment in the occupied (or assumed to be occupied) habitat area even though some of the non-listed special-status bumble bees may be killed, injured, or disturbed during treatment activities. If it is determined that treatment activities would be beneficial to special-status bumble bees, no compensatory mitigation will be required. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
| There are two special-status bees that have potential to occur near the project area, Bombus crotchii and Bombus occidentalis occidentalis. | | | |
| Habitat requirements for Bombus crotchii are open grassland and scrub habitats while requirements for Bombus occidentalis occidentalis are meadows and grasslands with abundant floral resources (Hatfield et al., 2018). The project area is a closed-canopy forest with neither meadows, open grassland, nor scrub habitat contained within. | | | |
| Thinning and burning forested areas may increase bumble bee forage potential since flowering plants such as ceanothus have been observed revegetating under the forest canopy after mastication and broadcast burning of a nearby selection harvested THP. | | | |
| Herbicide application may be used on invasive plants by hand application. Broad application of herbicides can reduce floral resources (Hatfield et al., 2018) and is not proposed for this project. The aim of the herbicide treatment for this project is not to reduce floral resources but to promote native vegetation as the key floral resource which establishes after mechanical, manual, and prescribed burning treatments. | | | |
| | | | |

No habitat required for special-status bees will be treated and floral resources adjacent to habitat will not be significantly impacted, therefore, MM BIO-2g does not apply.

| MM BIO-2h: Avoid Potential Disease Transmission Between Domestic Livestock and Special-Status Ungulates (Prescribed Herbivory) | No | CAL FIRE N/A | CAL FIRE | |
|--|------------|---------------------------------|-----------------|--|
| | | | | |
| MM BIO-3a: Design Treatments to Avoid Loss of Sensitive Natural Communities and Oak Woodlands The project proponent will implement the following measures when working in treatment areas that contain sensitive natural communities identified during surveys conducted pursuant to SPR BIO-3: The only exception to this mitigation approach is in cases where it is determined by a qualified RPF or botanist that the sensitive natural community or oak woodland would benefit from treatment in the occupied habitat area even though some loss may occur during treatment activities. If it is determined that treatment activities would be beneficial to sensitive natural communities or oak woodlands, no compensatory mitigation will be required. | Yes | <u>CAL FIRE</u> Prior-During | <u>CAL FIRE</u> | |
| The only Sensitive Natural Communities within the project area are Redwood Forest Alliance and Ta | noak Fores | at Alliance (both S3 | 3). | |
| Membership rules for Redwood Forest Alliance state that there must be 50% relative cover in the Redwood tree canopy, or more than 30% relative cover with other conifers. Membership rules for the Tanoak Forest Alliance state that there must be 50% relative cover in the tanoak canopy and over 10% absolute cover in the tree layer. Neither one of these Sensitive Natural Communities will have their relative cover reduced through any of the treatment prescriptions proposed for the VTP. | | | | |
| MM BIO-3b: Compensate for Loss of Sensitive Natural Communities and Oak Woodlands. If significant impacts on sensitive natural communities or oak woodlands cannot feasibly be avoided or reduced as specified under Mitigation Measure BIO-3a, the project proponent will prepare a Compensatory Mitigation Plan that identifies the residual significant effects on sensitive natural communities or oak woodlands that require compensatory mitigation and describes the compensatory mitigation strategy being implemented to reduce residual effects. | No | <u>CAL FIRE</u> N/A | CAL FIRE | |
| Sensitive natural communities or oak woodlands will not be converted or lost; therefore, MM BIO-3b does not apply to this project. | | | | |
| MM BIO-3c: Compensate for Unavoidable Loss of Riparian Habitat Compensatory mitigation may be satisfied through compliance with permit conditions, or other authorizations obtained by the project proponent (e.g., Lake and Streambed Alteration Agreement), if these requirements are equally or more effective than the mitigation identified above. | Yes | CAL FIRE Prior-During | CAL FIRE | |
| Project treatments within riparian habitat will be of limited intensity and will not constitute a loss of habitat. | | | | |
| MM BIO-4: Avoid State and Federally Protected Wetlands | Yes | CAL FIRE Prior-During | CAL FIRE | |
| Wetland features will be identified, flagged and buffered for avoidance per SPR HYD-4. | | | | |

| MM BIO-5: Retain Nursery Habitat and Implement Buffers to Avoid Nursery Sites | Yes | CAL FIRE Prior-During | CAL FIRE |
|--|-----|--------------------------|----------|
| A qualified RPF or biologist will identify the important habitat features of the wildlife nursery and, prior features for avoidance and retention during treatment. The project proponent will establish a non-dis if activities are required while the nursery site is active/occupied. | | | |

Refer to Attachment B for guidance on the project-specific review and survey procedures for biological resources.

Special-Status Plant and Wildlife Species¹ with High and Moderate Probability that may occur in the Treatment Areas

| Species | Lifeform | CRPR ² / Other Rank | State Listing Status | Federal Listing Status | g Habitat Micro Habitat | | Potential Habitat? ³ | Mitigation Measures if Found |
|---|-------------------------------|--------------------------------------|----------------------------|------------------------------|---|---|------------------------------------|---------------------------------|
| Special-Status Plants | | | | | | | | |
| Astragalus agnicidus Humboldt County milk- vetch | perennial herb | 1B.1 | CE | | Broadleafed upland forest, North Coast coniferous forest | | High | MM Bio-1a or MM Bio-1c |
| Bryoria spiralifera twisted horsehair lichen | fruticose lichen | 1B.2 | | | Coastal dunes. North Coast coniferous forest (immediate coast) | Usually on conifers | Moderate | MM Bio-1b or MM Bio-1c |
| Calamagrostis bolanderi Bolander's reed grass | perennial rhizomatous herb | 4.2 | | -,- | Bogs and fens, Broadleafed upland forest, Closed-cone coniferous forest, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest | Mesic. | High | MM Bio-1b or MM Bio-1c |
| Calamagrostis foliosa leafy reed grass | perennial herb | 4.2 | CR | | Coastal bluff scrub North coast coniferous forest | Rocky cliffs and ocean-facing bluffs. | Moderate | MM Bio-1a or MM Bio-1c |
| Calcium adspersum Spiral-spored guilded-head pin lichen | crustose lichen | 2B.2 | | | In the Pacific Northwest, all known occurrences are on trees older than 200 years | It usually occurs in relatively open stands in drier microhabitats where sheltered from precipitation, such as in crevices of bark, the dry side of leaning trunks, or the underside of limbs. | Moderate | MM Bio-1b or MM Bio-1c |
| Campanula californica swamp harebell | perennial rhizomatous herb | 1B.2 | | -,- | Bogs and fens, Closed-cone coniferous forest, Coastal prairie, Marshes and swamps, Meadows and seeps, North Coast coniferous forest | Mesic. | High | MM Bio-1b or MM Bio-1c |
| Cardamine angulata seaside bittercress | perennial herb | 2B.1 | | -,- | Lower montane coniferous forest North coast coniferous forest Wetland | Wet areas, streambanks. | Moderate | MM Bio-1b or MM Bio-1c |

| Carex californica California sedge | perennial rhizomatous herb | 2B.2 | | -,- | Bogs and fens, Closed-cone coniferous forest, Coastal prairie, Marshes and swamps, Meadows and seeps | | High | MM Bio-1b or MM Bio-1c |
|--|--------------------------------|------|-----|-----|--|---|----------|---------------------------|
| Ceanothus gloriosus var. exaltatus glory brush | perennial evergreen shrub | 4.3 | | | Chaparral | | High | MM Bio-1b or MM Bio-1c |
| Chrysosplenium glechomifolium Pacific golden saxifrage | perennial herb | 4.3 | | | North Coast coniferous forest, Riparian forest | Roadsides (sometimes), Seeps (sometimes), Streambanks | Moderate | MM Bio-1b or MM Bio-1c |
| <i>Coptis laciniata</i> Oregon goldthread | perennial rhizomatous herb | 4.2 | | | Meadows and seeps, North Coast coniferous forest | Mesic. | High | MM Bio-1b or MM Bio-1c |
| Cornus canadensis bunchberry | perennial rhizomatous herb | 2B.2 | | | Bogs and fens, Meadows and seeps, North Coast coniferous forest | | High | MM Bio-1b or MM Bio-1c |
| Cornus unalaschkensis bunchberry | perennial herb | 2B.2 | | | Bogs and fens, Meadows and seeps, North Coast coniferous forest | | High | MM Bio-1b or MM Bio-1c |
| Cypripedium montanum mountain lady's-slipper | perennial rhizomatous herb | 4.2 | | | Broadleafed upland forest, Cismontane woodland, Lower montane coniferous forest, North Coast coniferous forest | | High | MM Bio-1b or MM Bio-1c |
| Erythronium oregonum giant fawn lily | perennial geophyte | 2B.2 | -,- | | Cismontane woodland Meadow & seep Ultramafic | Openings. Sometimes on serpentine; rocky sites. | Moderate | MM Bio-1b or MM Bio-1c |
| Erythronium revolutum coast fawn lily | perennial geophyte | 2B.2 | | | Bog & fen Broadleaved upland forest North coast coniferous forest Wetland | Mesic sites; streambanks. | High | MM Bio-1b or MM Bio-1c |
| Fissidens pauperculus minute pocket moss | moss | 1B.2 | | | North Coast coniferous forest | | High | MM Bio-1b or MM Bio-1c |
| Glyceria grandis American manna grass | perennial rhizomatous grass | 2B.3 | | | Bog & fen Marsh & swamp Meadow & seep Wetland | Wet meadows, ditches, streams, and ponds, in valleys and lower elevations in the mountains. | High | MM Bio-1b or MM Bio-1c |
| Kopsiopsis hookeri small groundcone | perennial geophyte | 2B.3 | | | North Coast coniferous forest | Parasitic on <i>Gaultheria shallon</i> and <i>Vaccinium</i> spp. | High | MM Bio-1b or MM Bio-1c |
| Lilium maritimum coast lily | perennial geophyte | 1B.1 | | | Broadleafed upland forest, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Marshes and swamps, North Coast coniferous forest | | High | MM Bio-1b or MM Bio-1c |
| Lilium rubescens redwood lily | perennial geophyte | 4.2 | | | Broadleafed upland forest, Chaparral, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest | Roadsides (sometimes), Serpentinite (sometimes). Increasingly rare in southern portion of range. | High | MM Bio-1b or MM Bio-1c |
| Listera cordata heart-leaved twayblade | perennial herb | 4.2 | | | Bogs and fens, Lower montane coniferous forest, North Coast coniferous forest | Easily overlooked | High | MM Bio-1b or MM Bio-1c |

| Lycopodium clavatum | perennial | 4.1 | | Lower montane coniferous forest, Marshes | Educe (after) Organings Deadsides | | MM Bio-1b or MM |
|--|-------------------------------|------|-----|--|--|----------|---------------------------|
| running-pine | rhizomatous herb | 4.1 | | and swamps, North Coast coniferous forest | Edges (often), Openings, Roadsides. | High | Bio-1c |
| Mitellastra caulescens leafy-stemmed mitrewort | perennial rhizomatous herb | 4.2 | -,- | Broadleafed upland forest, Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest | Mesic, Roadsides (sometimes). | High | MM Bio-1b or MM Bio-1c |
| <i>Monotropa uniflora</i> ghost-pipe | perennial geophyte | 2B.2 | | Broadleaved upland forest North coast coniferous forest | Often under redwoods or western hemlock. | Moderate | MM Bio-1b or MM Bio-1c |
| Packera bolanderi var. bolanderi seacoast ragwort | perennial rhizomatous herb | 2B.2 | | Coastal scrub, North Coast coniferous forest | | High | MM Bio-1b or MM Bio-1c |
| Piperia candida white-flowered rein orchid | perennial herb | 1B.2 | | Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest | Serpentinite (sometimes) | High | MM Bio-1b or MM Bio-1c |
| Pityopus californicus California pinefoot | perennial herb | 4.2 | | Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest | Mesic. | High | MM Bio-1b or MM Bio-1c |
| Pleuropogon hooverianus North Coast semaphore grass | perennial rhizomatous herb | 1B.1 | СТ | Broadleafed upland forest, Meadows and seeps, North Coast coniferous forest | Mesic, Openings. | Moderate | MM Bio-1a or MM Bio-1c |
| Pleuropogon refractus nodding semaphore grass | perennial rhizomatous herb | 4.2 | | Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest, Riparian forest | Mesic. | High | MM Bio-1b or MM Bio-1c |
| Potamogeton epihydrus Nuttall's ribbon-leaved pondweed | perennial herb | 2B.2 | | Marsh & swamp Wetland | Shallow water, ponds, lakes, streams, irrigation ditches. | Moderate | MM Bio-1b or MM Bio-1c |
| Ramalina thrausta angel's hair lichen | fruticose lichen | 2B.1 | -,- | North Coast coniferous forest | On dead twigs and other lichens. | High | MM Bio-1b or MM Bio-1c |
| <i>Ranunculus lobbii</i> Lobb's aquatic buttercup | perennial herb | 4.2 | | Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools | Mesic sites. | Moderate | MM Bio-1b or MM Bio-1c |
| Rhynchospora alba white beaked-rush | perennial rhizomatous herb | 2B.2 | | Bogs and fens, Marshes and swamps, Meadows and seeps | | High | MM Bio-1b or MM Bio-1c |
| Sanguisorba officinalis great burnet | perennial rhizomatous herb | 2B.2 | | Bogs and fens, Broadleafed upland forest, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Riparian forest | | High | MM Bio-1b or MM Bio-1c |
| <i>Sidalcea malachroides</i> maple-leaved checkerbloom | perennial herb | 4.2 | -,- | Broadleafed upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland | Disturbed areas (often). | High | MM Bio-1b or MM Bio-1c |
| <i>Thermopsis robusta</i> robust false lupine | perennial rhizomatous herb | 1B.2 | | Broadleaved upland forest North coast coniferous forest Ultramafic | Ridgetops; sometimes on serpentine. | Moderate | MM Bio-1b or MM Bio-1c |

| Tiarella trifoliata var. trifoliata trifoliate laceflower | perennial rhizomatous herb | 3.2 | | | Lower montane coniferous forest, North Coast coniferous forest | Edges, Streambanks | High | MM Bio-1b or MM Bio-1c |
|---|-------------------------------|-----------------------------------|----------------------------|------------------------------|--|---|-----------------------|---------------------------------|
| Trichodon cylindricus cylindrical trichodon | moss | 2B.2 | | -,- | Broadleaved upland forest Meadow & seep Upper montane coniferous forest | Moss growing in openings on sandy or clay soils on roadsides, stream banks, trails or in fields. | Moderate | MM Bio-1b or MM Bio-1c |
| Trifolium buckwestiorum Santa Cruz clover | annual herb | 1B.1 | | | Broadleafed upland forest, Cismontane woodland, Coastal prairie | Gravelly | High | MM Bio-1b or MM Bio-1c |
| <i>Trifolium trichocalyx</i> Monterey clover | annual herb | 1B.1 | CE | FE | Closed-cone coniferous forest | | High | MM Bio-1a or MM Bio-1c |
| Triquetrella californica coastal triquetrella | moss | 1B.2 | | -,- | Coastal bluff scrub, Coastal scrub | | High | |
| <i>Usnea longissima</i> Methuselah's beard lichen | fruticose lichen | 4.2 | | | Broadleafed upland forest, North Coast coniferous forest | | | |
| Veratrum fimbriatum fringed false-hellebore | perennial herb | 4.3 | | | Bogs and fens, Coastal scrub, Meadows and seeps, North Coast coniferous forest | Mesic | | |
| Special-Status Wildlife | Lifeform | CRPR ² / Other Rank | State Listing Status | Federal Listing Status | Habitat | Micro Habitat | Potential Habitat? | Mitigation Measures if Found |
| Actinemys marmorata northwestern pond turtle | reptile | SC | | -,- | North coast confierous forest Redwood mixed conifer | Breeds in rivers and ponds; may be found in wintering in upland habitat below leaf litter. | Moderate | MM Bio-2b |
| Antrozous pallidus pallid bat | mammal/chiroptera | SC | | -,- | north coast coniferous forest, oak woodland, coast redwood, grasslands | Roosts range from solitary to gregarious in caves, mines, crevices, basal hollows, underneath exfoliating bark. | High | MM Bio-2b |
| Aquila chrysaetos golden eagle | bird | WL/BFS | FP | | North coast coniferous forest Redwood mixed conifer oak woodland | Nests in large trees in broken habitats; cliff faces and steep rocky areas. | Moderate | MM Bio-2a |
| Arborimus pomo Sonoma tree vole | mammal/rodentia | sc | | | North coast coniferous forest Oldgrowth Redwood | Feeds almost exclusively on Douglas- fir needles. Will occasionaly take needles of grand fir, hemlock or spruce. | High | MM Bio-2b |
| Ardea alba great egret | bird | BFS | | -,- | North coast coniferous forest Redwood | Communally nests in tall trees close to feeding areas. | Moderate | MM Bio-2b |
| Ardea herodias great blue heron | bird | BFS | | | North coast coniferous forest Redwood | Communally nests in tall trees close to feeding areas. | Moderate | MM Bio-2b |
| Ascaphus truei coastal tailed frog | amphibian | SC | | | Aquatic North coast coniferous forest Redwood | Breeds in headwater streams with cobble substrates, cold and clear | Moderate | MM Bio-2b |

| <i>Asio otus</i> long-eared owl | bird | SC | | | North coast coniferous forest Redwood Oak woodland Savannah | Utilizes nests of corvids, hawks, squirrels, and woodrats, mistletoe brooms, and debris accumulations, and less so, on cliffs and tree caivities. May nests in forested areas adjacent to broken habitats and grasslands used for foraging. | High | MM Bio-2b |
|---|-------------------|-----|-----|-----|---|---|----------|-----------|
| Bassariscus astutus ringtail | mammal/carnivora | -,- | FP | | Riparian associate of North coast coniferous forest Redwood mixed conifer oak woodland | Utilize cavities, rocky outcrops, abandoned rodent burrows, woodrate nests for resting and denning sites. Maternity season is April 15 - June 30. | High | MM Bio-2a |
| Brachyramphus marmoratus marbled murrelet | bird | -,- | CE | FT | Lower montane coniferous forest Oldgrowth Redwood | Nests in old-growth redwood- dominated forests, up to six miles inland, often in Douglas-fir. | High | MM Bio-2a |
| Calileptoneta wapiti Mendocino leptonetid spider | invertebrate | -,- | -,- | | North coast coniferous forest | Known only from the type locality, Elk, and nearby sites in Mendocino County. | High | MM Bio-2b |
| <i>Chaetura vauxi</i> Vaux's swift | bird | SC | -,- | | North coast coniferous forest Redwood | Utilizes stovepipe cavity trees and basal hollows | High | MM Bio-2b |
| Contopus cooperi olive-sided flycatcher | bird | SC | | -,- | North coast coniferous forest Redwood Coastal prairie and scrub | Utilized mature forests with broken habitat, edges, and openings. | High | MM Bio-2b |
| Corynorhinus townsendii Townsend's big-eared bat | mammal/chiroptera | SC | | ~ | Broadleaved upland forest Chaparral Chenopod scrub Great Basin grassland Great Basin scrub Joshua tree woodland Lower montane coniferous forest Meadow & seep Mojavean desert scrub Riparian forest Riparian woodland Sonoran desert scrub Sonoran thorn woodland Upper montane coniferous forest Valley & foothill grassland | Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance. | High | MM Bio-2b |
| Elanus leucurus white-tailed kite | bird | FP | | | North coast coniferous forest Redwood Mixed conifer oak woodland savannah | Nests in forests or clumps of trees near foraging area in grasslands, coastal prairie and scrub; non- breeders may travel from foraging areas to communal roosts in interior forest habitat. | Moderate | MM Bio-2b |
| Empidonax traillii brewsteri least willow flycatcher | bird | | CE | | Riparian forests within coast redwood, north coast coniferous forest | nests in willow thickets along riparian corridors and flood plains | Moderate | MM Bio-2a |

| <i>Entosphenus tridentatus</i> Pacific lamprey | fish | sc | | | Aquatic West Coast streams | Stream and river habitat; project outside of watercourse areas | High | MM Bio-2b |
|---|-------------------|--------|-----|----------|---|---|----------|-----------|
| Falco pregrinus anatus peregrine falcon | bird | BFS | FP | Delisted | North coast coniferous forest Redwood | Nests on rock faces, cliffs; known to utilize large old-growth trees with top cavities for nesting. | Moderate | MM Bio-2a |
| Haliaeetus leucocephalus bald eagle | bird | BFS | CE | Delisted | Lower montane coniferous forest Oldgrowth | Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter. | Moderate | MM Bio-2a |
| Helminthoglypta arrosa pomoensis Pomo bronze shoulderband | invertebrate | SC | | -,- | North coast coniferous forest Redwood | Found under redwoods. | Moderate | MM Bio-2b |
| Lasiurus blossevillii western red bat | mammal/chiroptera | SC | | | Riparian forest | Roosts in and under foliage of trees and shrubs in riparian habitat. | High | MM Bio-2b |
| Oncorhynchus kisutch pop. 4 coho salmon - central California coast ESU | fish | | CE | FE | Aquatic Rivers and streams south of Punta Gorda, to and including Aptos Creek | Stream and river habitat; project on a ridgline outside of watercourse areas | High | MM Bio-2a |
| Oncorhynchus mykiss irideus pop. 16 steelhead - northern California DPS | fish | | | FT | Aquatic Sacramento/San Joaquin flowing waters | Stream and river habitat; project on a ridgline outside of watercourse areas | High | MM Bio-2b |
| Oncorhynchus tshawytscha pop. 17 chinook salmon - California coastal ESU | fish | | | FT | Aquatic Rivers and streams south of the Klamath River to the Russian River | Stream and river habitat; project on a ridgline outside of watercourse areas | High | MM Bio-2b |
| Pandion haliaetus osprey | bird | BFS/WL | | | Riparian forest North coast coniferous forest Redwood | Large nests built in tree-tops within 15 miles of a good fish-producing body of water. | High | MM Bio-2b |
| Pekania pennanti fisher | mammal/carnivora | SC | -,- | | North coast coniferous forest Redwood mixed conifer | Utilize cavities in trees and logs for matenial nesting; cavities, platforms, large lateral branches, existing nest structures or misteltoe brooms for resting. | Moderate | MM Bio-2b |
| Progne subis purple martin | bird | SC | -,- | | Broadleaved upland forest Lower montane coniferous forest North coast coniferous forest Redwood | Nests in old woodpecker cavities mostly; also in human-made structures. Nest often located in tall, isolated tree/snag. | High | MM Bio-2b |
| <i>Rana aurora</i> northern red-legged frog | amphibian | SC | -,- | | Klamath/North coast flowing waters Riparian forest Riparian woodland | Generally near permanent water, but can be found far from water, in damp woods and meadows, during non-breeding season. | Moderate | MM Bio-2b |

| <i>Rana boylii</i> foothill yellow-legged frog | amphibian | sc | CE | -,- | Aquatic Chaparral Cismontane woodland Coastal scrub Klamath/North coast flowing waters Lower montane coniferous forest Meadow & seep Riparian forest Riparian woodland Sacramento/San Joaquin flowing waters | Needs at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis. | Moderate | MM Bio-2a |
|--|-----------|----|-----|-----|---|--|----------|-----------|
| <i>Rhyacotriton variegatus</i> southern torrent salamander | amphibian | SC | -1- | | Aquatic North coast coniferous forest Redwood mixed conifer | Found in seeps and headwater streams | Moderate | MM Bio-2b |
| Setophaga petechia yellow warbler | bird | sc | | | Riparian forest | Nests and forages in willow, wood rose, ash, alder and cottonwood in riparian zones. | Moderate | MM Bio-2b |
| Strix occidentalis caurina northern spotted owl | bird | | СТ | FT | North coast coniferous forest Oldgrowth Coast redwood mixed conifer | High, multistory canopy dominated by big trees, many trees with cavities or broken tops, woody debris, and space under canopy. On industrial timberlands in Mendocino County, species found most frequently nesting in debris accumulations/stick nests of other species in coast redwood trees. | High | MM Bio-2a |
| <i>Taricha rivularis</i> red-bellied newt | amphibian | sc | | -,- | Broadleaved upland forest North coast coniferous forest Redwood Riparian forest Riparian woodland | Lives in terrestrial habitats, juveniles generally underground, adults active at surface in moist environments. Will migrate over 1 km to breed, typically in streams with moderate flow and clean, rocky substrate. | High | MM Bio-2a |

¹October 2022 CNDDB, CNPS, Fort Bragg, Elk, Albion, Sherwood Peak, Dutchmans Knoll, Inglenook, Comptche, Northspur, Albion, Navarro, Longvale, Greenough Ridge, Burbeck, Bailey Ridge and Navarro USGS 7.5' Quadrangle Maps, CAL VTP Scoping List and the NorCal VTP Northern California Coast Ranges (M261B) List and USFWS IPaC List

²CRPR = California Rare Plant Ranking

Other: WL = Watch List, BFS = Board of Forestry Sensitive

State: CE = California Endangered, CT = California Threatened, CR = California Rare, FP = Fully Protected, SC = Species of Special Concern

Federal: FE = Federally Endangered, FT = Federally Threatened

None. No habitat components meeting the species requirements are present (such as coastal marsh or coastal dunes).

Unlikely. Few to none of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. Habitat components include climate, soil and aspect. The species is not likely to be found on the site.

Moderate. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. Habitat components include climate, soil and aspect. The species has a moderate probability of being found on the site.

High. All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site.

Present. Species is observed on the site or has been recorded (database observation) on the site in the recent past.

EC-6: GEOLOGY, SOILS, PALEONTOLOGY, AND MINERAL RESOURCES

| | | PEIR specific | | Pro | oject specific | |
|---|---|--|--|--|---|--|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | ldentify Impact Significance for the Treatment Project | No New Impact |
| Impact GEO-1: Result in Substantial Erosion or Loss of Topsoil | Impact Geo-1, 3.7 | LTS | <u>SPR GEO</u> - 1, 2, 3, 4, 5, 6, 7, 8, <u>SPR HYD</u> -3 <u>SPR AQ</u> - 3 <u>SPR HYD</u> - 4 | Yes | LTS | |
| Initial treatment and maintenance treatments would include mechanical treatment, a removal and soil disturbance. Both prescribed burning and mechanical operations has remove litter and surface fuels. Removing this organic layer can expose mineral soil to burning, typically 70 percent of the vegetation remains which helps minimize erosion 2019). Following a prescribed burn, CAL FIRE would also minimize erosion via the instarisk of soil disturbance. This is due to compaction caused by mechanical equipment, lo equipment. To address this risk, SPR GEO-1 will suspend mechanical soil disturbance of GEO-3 will stabilize mechanically disturbed soil areas. | ve a potential o rain splash a (CAL FIRE 201 allation of wat oss of soil cove | to disturb so nd overland 9). Additiona erbars (SPR er, and the ch | bil and cause a l flow. However, ally, vegetation GEO-5). Mecha nurning and bre | oss in topsoi in an area th usually regro anical operat eakdown of s | Prescribed burn nat is treated by pr ows within a year (i ions may also incre oil structure by me | ing can escribed CAL FIRE ease the echanical |
| Impact GEO-2: Increase Risk of Landslide | Impact Geo-2, 3.7 | LTS | <u>SPR GEO</u> - 3, 4, 7, 8, <u>SPR AQ</u> - 3 | Yes | LTS | |
| A licensed geologist with California Geologic Survey (CGS) reviewed past geologic surv conditions through direct observation. CGS recommendations will be incorporated in | | | | | | arify |
| CGS Specific Recommendations: | | | | | | |

CGS-1 and CGS-2. The VTP should describe the establishment of special treatment zones (STZ) around the identified unstable areas, as shown on Figures 5 and 6 on CGS review maps. Burning and vegetation removal should be restricted within the STZs.

SPRs applicable to this treatment project are GEO-1, GEO-3, GEO-4, GEO-5, GEO-7 and GEO-8. By incorporating CGS recommendations and applicable SPRs, the project will avoid significant impacts.

| Other Impacts to Geology, Soils, Paleontology, And Mineral Resources: Would the project result in other impacts to geology, soils, paleontology, and mineral resources that are not evaluated in the CalVTP PEIR? | | No | N/A | |
|--|--|----|-----|--|
| | | | | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|--|--------------|---|------------------------------------|
| SPR GEO-1 Suspend Disturbance during Heavy Precipitation: The project proponent will suspend mechanical, prescribed herbivory, and herbicide treatments if the National Weather Service forecast is a "chance" (30 percent or more) of rain within the next 24 hours. This SPR applies only to mechanical, prescribed herbivory, and herbicide treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| When mechanical or herbicide treatments are being implemented on this project, activities will be sus Service forecasts a "chance" (30 percent or more) of rain within the next 24 hours. | spended if t | he National Weath | er |
| SPR GEO-2 Limit High Ground Pressure Vehicles: The project proponent will limit heavy equipment that could cause soil disturbance or compaction to be driven through treatment areas when soils are wet and saturated to avoid compaction and/or damage to soil structure. This SPR applies only to mechanical treatment activities and all treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| The project proponent will limit heavy equipment that could cause soil disturbance or compaction to l soils are wet and saturated to avoid compaction and/or damage to soil structure. | be driven th | rough treatment ar | eas when |
| SPR GEO-3 Stabilize Disturbed Soil Areas: The project proponent will stabilize soil disturbed during mechanical, prescribed herbivory treatments and prescribed burns that result in exposure of bare soil over 50 percent or more of the treatment area with mulch or equivalent immediately after treatment activities, to the maximum extent practicable, to minimize the potential for substantial sediment discharge. This SPR only applies to mechanical and prescribed herbivory treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During-Post | CAL FIRE |
| It is not anticipated that any of the project treatments will result in bare soil over 50% of the project. E isolated disturbance where tracked equipment makes turns. In the unlikely event that a treatment are soils will be treatmented with mulch or equivalent immediately after treatment activities, to the maxim potential for substantial sediment discharge. | a crosses t | he 50% threshold, | disturbed |

| SPR GEO-4 Erosion Monitoring: The project proponent will inspect treatment areas for the proper implementation of erosion control SPRs and mitigations prior to the rainy season. This SPR applies only to mechanical and prescribed burning treatment activities and all treatment types. | Yes | CAL FIRE Prior-During-Post | CAL FIRE |
|---|------------------------------|--|----------|
| Treatment areas will be inspected for the proper implementation of erosion control SPRs and mitigate Additionally, after the first storm event where 1.5 inches of rain or more fell within a 24-hour period, the determine if water breaks functioned properly. If any area is identified where erosion could result in s will be immediately corrected and stabilized. The rainy period for this project area is November 1 thro | he project a ubstantial s | area will be inspect sediment discharge | ed to |
| SPR GEO-5 Drain Stormwater via Water Breaks: The project proponent will drain compacted and/or bare linear treatment areas capable of generating storm runoff via water breaks using the spacing and erosion control guidelines contained in Sections 914.6, 934.6, and 954.6(c) of the California Forest Practice Rules. This SPR applies only to mechanical, manual, and prescribed burn treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During-Post | CAL FIRE |
| | | | |
| SPR GEO-6 Minimize Burn Pile Size: The project proponent will not create burn piles that exceed 20 feet in length, width, or diameter, except when on landings, road surfaces, or on contour to minimize the spatial extent of soil damage. This SPR applies to mechanical, manual, and prescribed burning treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| | | · | |
| SPR GEO-7 Minimize Erosion, Slope Restrictions for Heavy Equipment and Tractor Roads. This SPR applies to all treatment activities and all treatment types. | Yes | CAL FIRE During | CAL FIRE |
| | | | |
| SPR GEO-8 Steep Slopes: The project proponent will require a Registered Professional Forester (RPF) or licensed geologist to evaluate treatment areas with slopes greater than 50 percent for unstable areas (areas with potential for landslide) and unstable soils (soil with moderate to high erosion hazard). This SPR applies only to mechanical treatment activities and WUI fuel reduction, non-shaded fuel breaks, and ecological restoration treatment types. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
| Mechanical treatments are not proposed for WUI fuel reduction, non-shaded fuel breaks, or ecological | al restoratio | on treatment types. | |

EC-7: GREENHOUSE GAS EMISSIONS

| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact | |
|--|--|---|---|---|--|------------------|--|
|--|--|---|---|---|--|------------------|--|

| California | Department of | Forestry & | Fire Prevention |
|------------|---------------|------------|-----------------|
|------------|---------------|------------|-----------------|

| Impact GHG-1 : Conflict with applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of GHGs | Impact GHG-1, 3.8 | LTS | <u>SPR GHG</u> - 1 | Yes | LTS | | | |
|--|-------------------------|-----|--------------------|-----|-----|-------------|--|--|
| Consistency of treatments under the CalVTP with applicable plans, policies, and regulations aimed at reducing GHG emissions was examined in the PEIR. Consistent with the PEIR, although GHG emissions would occur from equipment and vehicles used to implement treatments and from broadcast burning, one of the purposes of the proposed project is to reduce wildfire risk, which would reduce GHG emissions and increase carbon sequestration over the long term. | | | | | | | | |
| Impact GHG-2: Generate Greenhouse Gas Emissions through | Impact | PSU | SPR AQ- 3 | Yes | PSU | \boxtimes | | |

Use of vehicles/equipment and prescribed burning during treatment activities will result in greenhouse gas (GHG) emissions. Greenhouse gases contribute to climate change and include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (NO₂), and others. CO₂ will be the primary GHG emitted during the treatment activities. Strategies to mitigate climate change center on reducing the net GHG emissions. This includes reducing emissions as well as increasing carbon stored in natural systems and stabilizing the storage of carbon over long periods of time (Pellegrini et. al., 2021). This project will have short-term increases in GHG emissions that will result in more stable storage of carbon within the forest biomass over a long period of time by reducing the risk of catastrophic wildfires and creating fire-adapted ecosystems more resilient to fire.

3.8

Estimations of GHG emissions were calculated for equipment/vehicle use (see GHG Calculations attachment). For heavy equipment and transport, wildland engines, and pickups, the CO₂ equivalent was 6.9 metric tons.

Estimations of GHG emissions were calculated for broadcast burning treatments using First Order Fire Effects Model (FOFEM) (see GHG Calculations attachment). A range of forest cover types were analyzed, including Redwood/tanoak, Douglas-fir/tanoak/madrone/bay laurel, Douglas-fir/white fir, redwood, and Douglasfir/tanoak/Pacific madrone. Inputs were modified to reflect conditions more accurately in Jackson Demonstration State Forest when data was available to supplement the cover type default values. Otherwise, input defaults were used for the cover types. For the range of cover types modelled, the total CO₂ emissions ranged from 3,400 metric tons for Doug-fir, Tanoak, Madrone, CA bay laurel forest type to 7,900 metric tons for Redwood-tanoak cover type modelled over the 138 acres to be prescribed burned. The estimated metric tons of CO₂ per acre for the various cover types are shown below.

The cover types within the project area range from redwood dominated forests to Douglas-fir dominated forests, both often including a major tanoak component and minor components of grand fir, western hemlock, madrone, bay laurel, or chinquapin. The total is estimated to be below 7,900 metric tons, but not less than 3,400 metric tons, given the range of cover types. The overall CO₂ emissions estimate is likely closer to the higher end of the range, given the dominance of redwood forest cover types in the project area. A conservative CO₂ emission estimate of 7,900 metric tons would be appropriate, given the dominant tree species within the project.

| Cover type | CO ₂ (metric ton/ac) | CO ₂ total for 138 acres (metric ton) |
|-------------------|---------------------------------|---|
| Redwood-Tanoak | 56.9 | 7,900 |
| DF/TO/Madrone/Bay | 24.6 | 3,400 |
| DF/WF | 31.8 | 4,400 |
| SAF Redwood | 53.5 | 7,400 |
| SAF DF/TO/PM | 42.5 | 5,900 |

The mechanical, manual, and prescribed burn treatments will reduce slash and combustible fuels available for fire consumption. This, in turn, reduces the potential for catastrophic wildfires, restores ecology that was historically fire-adapted, puts fire back on the landscape where it was historically present at around 6-to-20-year intervals (Brown and Baxter, 2003), and creates a more stable natural carbon storage. Therefore, the benefits to net GHG emissions resulting from the project outweigh the short-term carbon emissions.

GHG generation was examined in the PEIR. Mitigation Measure GHG-2 would be implemented and would reduce GHG emissions associated with the prescribed burning. However, emissions generated by the treatment would still contribute to the annual emissions generated by the CalVTP, and this impact would remain significant and unavoidable, consistent with, and for the same reasons described in, the PEIR. SPR AQ-3 is also applicable to this treatment and will contain the description of feasible GHG reduction techniques implemented per Mitigation Measure GHG-2.

| Other Impacts to related to Greenhouse Gases: Would the project result in other impacts related to greenhouse gases that are not evaluated in the CalVTP PEIR? | | No | N/A | |
|--|--|----|-----|--|
| | | | | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|--|------------|---|------------------------------------|
| SPR GHG-1 Contribute to the AB 1504 Carbon Inventory Process: The project proponent of treatment projects subject to the AB 1504 process will provide all necessary data about the treatment that is needed by the U.S. Forest Service and FRAP to fulfill requirements of the AB 1504 carbon inventory, and to aid in the ongoing research about the long-term net change in carbon sequestration resulting from treatment activity. This SPR applies to all treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During-Post | CAL FIRE |
| | | | |
| MM GHG-2. Implement GHG Emission Reduction Techniques During Prescribed Burns. The project proponent will document in the Burn Plan required pursuant to SPR AQ-3 which methods for reducing GHG emissions can feasibly be integrated into the treatment design. | Yes | <u>CAL FIRE</u> During-Post | CAL FIRE |
| | | | |

EC-8: Energy

| | PEIR specific | | | Project specific | | | | |
|---|--|---|--|---|--|------------------|--|--|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact | | |
| Impact ENG-1: Result in Wasteful, Inefficient, or Unnecessary Consumption of Energy | Impact ENG-1, 3.9 | LTS | N/A | Yes | LTS | | | |
| Use of vehicles and mechanical equipment during initial treatment and treatment maintenance activities would result in the consumption of energy through the use of fossil fuels. The use of fossil fuels for equipment and vehicles was examined in the PEIR. The consumption of energy during implementation of the treatment project is within the scope of the PEIR because the types of activities, as well as the associated equipment and duration of proposed use, are consistent with those analyzed in the PEIR. No SPRs are applicable to this impact. | | | | | | | | |
| Other Impacts to Energy Resources : Would the project result in other impacts to energy resources that are not evaluated in the CaIVTP PEIR? | | | | No | N/A | | | |
| | | | 1 | 1 | | I. | | |

EC-9: HAZARDOUS MATERIALS, PUBLIC HEALTH AND SAFETY

| | PEIR specific | | | Pro | | |
|--|--|---|---|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact HAZ-1: Create a Significant Health Hazard from the Use of Hazardous Materials | Impact HAZ-1, 3.10 | LTS | <u>SPR HAZ</u> - 1 | Yes | LTS | |

The proposed project includes manual, mechanical, herbicide, and prescribed broadcast burning treatments. These activities would require the transportation, use, and storage of petroleum products (fuels, oils, and lubricants) and herbicides. These products are known hazardous materials that can cause significant health hazards.

The potential for treatment activities that involve hazardous materials that can cause significant health hazards was examined in the PEIR. The project proponent would apply SPR-HAZ 1 to minimize leaks and the risk of resultant contaminants entering the environment. HAZ-1 requires maintenance of all diesel- and gasoline-

| powered equipment to the manufacturer's specification. Accelerants would be used to implement prescribed burns; however, fire ignition (including use of |
|--|
| accelerants) would not occur in the protection zones for watercourses (SPR HYD-4); therefore, water quality would not be affected. SPRs applicable to Impact HAZ-1 |
| are SPR HAZ-1 and SPR HYD-4. |

| Impact HAZ-2: Create a Significant Health Hazard from the Use of Herbicides | Impact HAZ-2, 3.10 | LTS | <u>SPR HAZ</u> - 5, 6, 7, 8, 9 | Yes | LTS | | |
|---|--------------------------|-----|-----------------------------------|-----|-----|--|--|
|---|--------------------------|-----|-----------------------------------|-----|-----|--|--|

Herbicide applications on JDSF comply with all California Department of Pesticide Regulation (CDPR) regulatory, training, and reporting requirements. A Registered Professional Forester, Qualified Applicator License holder, or Pest Control Advisor administers all applications on JDSF. Herbicide application prescriptions are developed by a licensed Pest Control Advisor (PCA). The PCA recommendation contains information on the timing, site conditions, and application method for the specific herbicide formulation.

The use of herbicides for the control of invasive plant species was evaluated under the JDSF Environmental Impact Report (EIR) for the JDSF Forest Management Plan (FMP). The JDSF EIR evaluates the use of herbicides formulations with the following active ingredients: Glyphosate, Triclopyr, Imazapyr, Clopyralid, and Sulfometuron Methly. These active ingredients were also evaluated under the PEIR for the Cal VTP program. For applications associated with this project glyphosate and triclopyr would be the most likely active ingredient in a prescribed herbicide formulation.

From Appendix HAZ-1 of the CalVTP PEIR:

- Glyphosate is listed as having an overall low toxicity to humans. Skin and eye irritation is possible. It is a possible endocrine disruptor.
- Triclopyr has an overall low toxicity. Toxicity is moderate if ingested. It is slightly toxic through acute oral, dermal, and inhalation routes.
- Imazapyr has an overall low toxicity. It is slightly toxic via acute oral, dermal, and inhalation routes.
- Clopyralid has a very low toxicity if ingested.
- Sulfometuron Methyl has a low toxicity via oral, dermal, and inhalation routes.

All of the above were found not likely to be carcinogenic, not carcinogenic, or having no evidence of being carcinogenic. Similarly, birth defects in animal studies were found at only very high concentrations for some of the above herbicides.

JDSF has an existing Integrated Vegetation Management program to control roadside invasive species and "disturbance follower" plant species that regenerate after timber harvests, road work, and other soil disturbing projects. Any herbicide application under this project will be conducted in the context of that existing program. All herbicide applications will be conducted consistent with the requirements of the JDSF FMP and EIR.

Through the compliance with existing regulatory programs, the JDSF Forest Management Plan, and CalVTP SPR HAZ-5-9 this project will avoid significant health hazards.

| Impact HAZ-3 : Expose the Public or Environment to Significant Hazards from Disturbance to Known Hazardous Material Sites | Impact HAZ-3, 3.10 | LTS | <u>MM HAZ</u> - 3 | No | N/A | \boxtimes | | |
|---|--------------------------|-----|-------------------|----|-----|-------------|--|--|
| This impact does not apply to the treatment project, because no known Hazardous Materials Sites will be disturbed during this Project. | | | | | | | | |
| Other Impacts to Hazardous Materials, Public Health and Safety: Would the project result in other impacts to hazardous materials, public health and safety that are not evaluated in the CalVTP PEIR? | | | | No | N/A | | | |
| | | | | | | | | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|---|--------------|---|------------------------------------|
| SPR HAZ-1 Maintain All Equipment: The project proponent will maintain all diesel- and gasoline- powered equipment per manufacturer's specifications, and in compliance with all state and federal emissions requirements. Maintenance records will be available for verification. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| SPR HAZ-2 Require Spark Arrestors : This SPR applies only to manual treatment activities and all treatment types | Yes | CAL FIRE | CAL FIRE |
| | | Prior-During | |
| SPR HAZ-3 Require Fire Extinguishers: The project proponent will require tree cutting crews to carry one fire extinguisher per chainsaw. Each vehicle would be equipped with one long-handled shovel and one axe or Pulaski consistent with PRC Section 4428. This SPR applies only to manual treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE |
| | | | |
| SPR HAZ-4 Prohibit Smoking in Vegetated Areas. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| | | | |
| SPR HAZ-5 Spill Prevention and Response Plan: The project proponent or licensed Pest Control Advisor (PCA) will prepare a Spill Prevention and Response Plan (SPRP) prior to beginning any herbicide treatment activities to provide protection to onsite workers, the public, and the environment from accidental leaks or spills of herbicides, adjuvants, or other potential contaminants. This SPR applies only to herbicide treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE |
| A SPRP will be prepared prior to beginning any herbicide treatment. | | I | |
| SPR HAZ-6 Comply with Herbicide Application Regulations. This SPR applies only to herbicide treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| The project proponent will comply with all herbicide application regulations as well as the herbicide a Management Plan. | pplication p | olicies in the JDSF | = |

| SPR HAZ-7 Triple Rinse Herbicide Containers. This SPR applies only to herbicide treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During-Post | CAL FIRE |
|--|------------|--------------------------------|----------|
| Containers will be rinsed according to SPR HAZ-7. | | | |
| SPR HAZ-8 Minimize Herbicide Drift to Public Areas. This SPR applies only to herbicide treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| Weather conditions will be monitored. Herbicide application will not occur in winds over 7 mph or if w specifications. Spray nozzles will be configured according to SPR HAZ-8. | eather con | ditions exceed lab | el |
| SPR HAZ-9 Notification of Herbicide Use in the Vicinity of Public Areas. This SPR applies only to herbicide treatment activities and all treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| Signs will be posted according to SPR HAZ-9 for herbicide treatments within 500 feet of public areas | | | |
| MM HAZ-3: Identify and Avoid Known Hazardous Waste Sites Prior to the start of vegetation treatment activities requiring soil disturbance (i.e., mechanical treatments) or prescribed burning, CAL FIRE and other project proponents will make reasonable efforts to check with the landowner or other entity with jurisdiction (e.g., California Department of Parks and Recreation) to determine if there are any sites known to have previously used, stored, or disposed of hazardous materials. | Yes | CAL FIRE Prior | CAL FIRE |
| All land within the project area is state-owned land. No known hazardous waste sites exist in the project | ject area. | | |

EC-10: HYDROLOGY AND WATER QUALITY

| | PEIR specific | | | Pro | | |
|--|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact HYD-1 : Violate Water Quality Standards or Waste Discharge Requirements, Substantially Degrade Surface or Ground Water Quality, or Conflict with or Obstruct the Implementation of a Water Quality Control Plan Through the Implementation of Prescribed Burning | Impact HYD-1, 3.11 | LTS | <u>SPR HYD</u> - 4 <u>SPR AQ</u> - 3 <u>SPR BIO</u> - 4, 5 <u>SPR GEO</u> -4, 6 <u>MM BIO</u> - 3b | Yes | LTS | |

Initial and maintenance treatments would include prescribed burning. Runoff into adjacent drainages will be prevented by implementation of a buffer per SPR HYD-4. Although most treatment areas have been designed to avoid streams and watercourses, WLPZs ranging from 50 to 150 feet will be implemented for Class I and Class II streams that are within treatment areas pursuant to SPR HYD-4. The potential for prescribed burning activities to cause runoff and violate water quality regulations or degrade water quality was examined in the PEIR. This impact is within the scope of the PEIR because the use of low-intensity prescribed burns and associated impacts to water quality are consistent with those analyzed in the PEIR. The inclusion of land in the proposed treatment area that is outside the CalVTP treatable landscape constitutes a change to the geographic extent presented in the PEIR. However, within the boundary of the project area, the surface water conditions are essentially the same within and outside the treatable landscape; therefore, the water quality impact from prescribed burning is also the same, as described above. SPRs applicable to Impact HYD-1 are HYD-1, HYD-4, AQ-3, BIO-4, GEO-4 and GEO-5.

Initial treatment would include mechanical and manual treatments. Although most treatment areas have been designed to avoid streams and watercourses, WLPZs ranging from 50 to 150 feet will be implemented for any watercourses that are within treatment areas pursuant to SPR HYD-4. Additionally, SPR BIO-1 requires that a qualified RPF or biologist identify sensitive habitats such as wetlands, wet meadows, or riparian areas as well as a suitable buffer area for avoidance during project activities. This buffer would act as a filter to slow runoff from adjacent treatment areas, allow infiltration of stormwater, and trap sediment that could otherwise be carried into surface waters. SPR GEO-1 and SPR GEO-2 limit ground disturbance during precipitation or heavy equipment operation over saturated soils, when such activity could produce ruts where runoff could concentrate. Equipment operation would be limited on steep or unstable slopes (SPR GEO-7) to reduce the potential for erosion. Additionally, highly disturbed areas would be stabilized with mulch (SPR GEO-3) and treatment areas would be inspected for erosion and remediated prior to the rainy season and following the first large storm or rainfall event (SPR GEO-4). The equipment used for mechanical vegetation removal treatments require the use of fuels and lubricants. Qualifying treatments implemented under the CalVTP would control the potential risks of spills and leaks through application of SPR HAZ-1, which requires that all equipment be maintained and regularly inspected for leaks. Implementation of SPR HAZ-1 would prevent spills of fuels and lubricants onto soils that could be carried by runoff into adjacent waterbodies. The potential for mechanical and manual treatment activities to violate water quality regulations or degrade water quality was examined in the PEIR. This impact is within the scope of the PEIR because the use of heavy equipment and hand-held tools to remove vegetation and associated impacts to water quality are consistent with those analyzed in t

| Impact HYD-3 : Violate Water Quality Standards or Waste Discharge Requirements, Substantially Degrade Surface or Ground Water Quality, or Conflict with or Obstruct the Implementation of a Water Quality Control Plan Through Prescribed Herbivory | Impact HYD-3, 3.11 | LTS | <u>SPR HYD</u> - 3 | No | N/A | | |
|---|--------------------------|-----|--------------------|----|-----|--|--|
|---|--------------------------|-----|--------------------|----|-----|--|--|

This impact does not apply to the proposed project because prescribed herbivory is not a proposed treatment activity.

| Impact HYD-4 : Violate Water Quality Standards or Waste Discharge Requirements, Substantially Degrade Surface or Ground Water Quality, or Conflict with or Obstruct the Implementation of a Water Quality Control Plan Through the Ground Application of Herbicides | Impact HYD-4, 3.11 | LTS | <u>SPR HYD</u> - 5 <u>SPR BIO</u> - 4 <u>SPR HAZ</u> - 5, 7 | Yes | LTS | | |
|---|--------------------------|-----|--|-----|-----|--|--|
|---|--------------------------|-----|--|-----|-----|--|--|

Herbicide treatments are proposed for this project only if necessary to control invasive weeds following the manual, mechanical, or prescribed burning treatments. Application of herbicides will conform to the SPRs listed above. Herbicide application recommendations will be prepared by a licensed Pest Control Advisor, which will contain formulation specific recommendations for the protection of water quality. They will also comply with any other applicable regulations and will be in conformance with the JDSF Management Plan.

Herbicide treatments have a potential to affect surface water through off-site movement of herbicides from runoff, leaching, drift, and misapplication or spills. Herbicide treatments also have the potential to affect ground water through leaching. SPR HYD-5 prohibits herbicide application during precipitation or if precipitation is forecast 24 hours before or after project activities. SPR HYD-5 prohibits spray applications of herbicides when wind speeds are 7 miles per hour or greater and prohibits herbicide application within 50 feet of surface water or wet meadows for non-aquatic formulations. Some formulations may require longer precipitation-free windows, as required by the label, which would be adhered to by applicators. Additionally, SPR HYD-5 prohibits non-aquatic herbicide formulations from being applied within 50 feet of a waterbody, riparian area, or wetland and prohibits the use of all herbicides within WLPZs without notification to the applicable regional water quality control board. These precautions would avoid and minimize the potential for herbicides to leach into groundwater or contaminate stormwater runoff.

SPRs BIO-4 and HYD-5 allow only hand application of herbicides in riparian areas. The project proponent will allow only hand application for all herbicide applications, including in areas outside of riparian areas. These protections along with compliance with label requirements would avoid and minimize the potential for spray drift from herbicides to impact water quality.

SPR HAZ-5 requires that all projects implemented through the proposed program develop a Spill Prevention and Response Plan and that projects maintain an onsite spill kit throughout the life of the activity. SPR HAZ-7 also includes requirements for rinsing and disposal of herbicide containers and requires that equipment and personnel washing occur in a manner that protects water resources. These protections would avoid and minimize the potential for misapplication or spills of herbicides to adversely affect water quality.

| Impact HYD-5: Substantially Alter the Existing Drainage Pattern of a | Impact HYD-5, | LTS | <u>SPR HYD</u> - 4, 6 | Yes | LTS | \boxtimes |
|--|------------------|-----|--------------------------|-----|-----|-------------|
| Treatment Site or Area | 3.11 | | <u>SPR GEO</u> - 5 | | | |

Initial and maintenance treatments have the potential to cause ground disturbance and erosion, which could directly or indirectly modify existing drainage patterns. However, implementation of SPR HYD-6 requires avoiding disturbance of existing drainage systems and maintaining pre-treatment drainage conditions. The potential for treatment activities to substantially alter the existing drainage pattern of a project site was examined in the PEIR. This impact to site drainage is within the scope of the PEIR because the types of treatments and treatment intensity are consistent with those analyzed in the PEIR. SPRs applicable to Impact HYD-5 are HYD-4, HYD-6, GEO-1, GEO-2, and GEO-5.

| Other Impacts to Hydrology and Water Quality : Would the project result in other impacts to hydrology and water quality that are not evaluated in the CalVTP PEIR? | | No | N/A | |
|---|--|----|-----|--|
| | | | | |

| Applicable | Implementing Entity & Timing Relative | Verifying/ Monitoring |
|------------|--|--------------------------|
| | to Implementation | Entity |

| SPR HYD-1 Comply with Water Quality Regulations: Project proponents must also conduct proposed vegetation treatments in conformance with appropriate RWQCB timber, vegetation and land disturbance related Waste Discharge Requirements (WDRs) and/or related Conditional | | | |
|---|-----|---------------------------------|-----------------|
| Waivers of Waste Discharge Requirements (Waivers), and appropriate Basin Plan Prohibitions. Where these regulatory requirements differ, the most restrictive will apply. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> During-Post | <u>CAL FIRE</u> |
| | | | |
| SPR HYD-2 Avoid Construction of New Roads: The project proponent will not construct or reconstruct (i.e., cutting or filling involving less than 50 cubic yards/0.25 linear road miles) any new roads (including temporary roads). This SPR applies to all treatment activities and treatment types. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
| The project proponent is not planning to construct new roads as part of this project. | | | |
| SPR HYD-3 Water Quality Protections for Prescribed Herbivory: This SPR applies to prescribed herbivory treatment activities and all treatment types. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
| | | | |
| SPR HYD-4 Identify and Protect Watercourse and Lake Protection Zones: The project proponent will establish Watercourse and Lake Protection Zones (WLPZs) as defined in 14 CCR Section 916 .5 of the California Forest Practice Rules on either side of watercourses. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| SPR HYD-4 will be implemented to protect watercourses or wet areas. | | | |
| SPR HYD-5 Protect Non-Target Vegetation and Special-status Species from Herbicides: This SPR applies to herbicide treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| The project proponent will adhere to SPR HYD-5 for locating herbicide mixing sites, use of herbicides habitats suitable for special-status species, buffers around ESA or CESA listed plants, and weather p application. | | | |
| SPR HYD-6 Protect Existing Drainage Systems: This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior-During | CAL FIRE |
| All existing drainage systems adjacent to roadways will be protected during project activities. | | | |

EC-11: LAND USE AND PLANNING, POPULATION AND HOUSING

| PEIR specific | Project specific |
|---------------|------------------|
| | |

| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
|---|--|---|--|---|--|------------------|
| Impact LU-1: Cause a Significant Environmental Impact Due to a Conflict with a Land Use Plan, Policy, or Regulation | Impact LU-1, 3.12 | LTS | <u>SPR AD</u> - 3, 9 | Yes | LTS | |
| Project treatments will occur on Jackson Demonstration State Forest (JDSF) – state ow experiments, and education in forest management. The project is consistent with the | | | | | | , |
| Impact LU-2: Induce Substantial Unplanned Population Growth | Impact LU-2, 3.12 | LTS | N/A | Yes | LTS | |
| Treatments will occur on a day-to-day operational period. Short-term increase in personnel due to project implementation will likely be less than one 24-hour period a | | | | | | |
| Other Impacts related to Land Use and Planning, Population and Housing: Would the project result in other impacts related to land use and planning, and population and housing that are not evaluated in the CalVTP PEIR? | | | | No | N/A | |

EC-12: NOISE

| | PEIR specific | | | Pro | | |
|---|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | ldentify Impact Significance for the Treatment Project | No New Impact |
| Impact NOI-1: Result in a Substantial Short-Term Increase in Exterior Ambient Noise Levels During Treatment Implementation | Impact NOI-1, 3.13 | LTS | <u>SPR NOI-</u> 1, 2, 3, 4, 5, <u>6</u> <u>SPR AD</u> - 3 | Yes | LTS | |

Initial and maintenance treatments would require heavy, noise-generating equipment. The potential for a substantial short-term increase in ambient noise levels from use of heavy equipment was examined in the PEIR. This impact is within the scope of the PEIR because the number and types of equipment proposed, and the duration of equipment use, are consistent with those analyzed in the PEIR. While there is the potential for some prescribed broadcast burning to occur during nighttime and weekend hours, all treatment activities using equipment would be limited to daytime hours Monday through Friday, which would avoid the potential to cause sleep disturbance to residents during the more noise-sensitive evening and nighttime hours. In addition, the proposed treatment areas are outside of sensitive noise-

| receptor areas. In addition, SPR AD-3 would require that the project proponent design Management Plan to the extent the project is subject to them. SPRs that are applicable | • | | | | • | plicable to the JD | DSF |
|---|--|--|--|---|---|---|---|
| Impact NOI-2: Result in a Substantial Short-Term Increase in Truck- Generated SENL's During Treatment Activities | Impact NOI-2, 3.13 | LTS | <u>SPR NO</u> | <u> </u> -1 Ye | es | LTS | |
| Initial and maintenance treatments would involve large trucks hauling heavy equipme providing access to the treatment area including Hwy 1, Hwy 20, and County Road 408 increase in traffic-related noise. Haul truck trips on the local roadways would pass by a single event noise levels. A significant portion of the land served by highway routes n routes for logging trucks and the transportation of heavy equipment such as that whic addition, it is common to see forestry work crews being transported on all these afore prescribed burning. The mechanical treatment site is a former timber harvest area wh treatment is only a small portion of the project (7acres) and would not require multiple | Vehicle tra residential re- nentioned ab ch is proposed mentioned h nich sustained | ffic on area h ceptors and t ove are zone d for mechan ighway route d log truck tra | nighways is the event o d for timbe ical treatm es for misce affic during | not expect f each truc er productio ent of the ellaneous fo | ed to g k passi on and propos prestry | generate a notice ing by could incre I frequently used sed treatment are v work including r | eable ease the as haul eas. In manual and |
| The potential for a substantial short-term increase in single-event noise levels was exa number and types of equipment proposed are consistent with those analyzed in the P daytime hours, which would avoid the potential to cause sleep disturbance to residen | EIR. SPR NOI | -1 would limi | t the haul t | rips associa | ated w | ith the treatmen | |
| Other Impacts Related to Noise: Would the project result in other impacts related to noise that are not evaluated in the CalVTP PEIR? | | | | N | 0 | N/A | |
| | | | | | | | |
| | | | | Applicable | & Τ | ementing Entity Timing Relative mplementation | Verifying/ Monitoring Entity |
| SPR NOI-1 Limit Heavy Equipment Use to Daytime Hours: If the pro- subject to local ordinances (e.g., CAL FIRE), it will adhere to the restrict elect to adhere to the restrictions identified by the local ordinance encon area. This SPR applies to all treatment activities and treatment types. | ions stated | above or r | | Yes | | <u>CAL FIRE</u> During | CAL FIRE |
| SPR NOI-2 Equipment Maintenance: All diesel- and gasoline-power | ad traatma | nt equipme | ont will | | | | |
| be properly maintained and equipped with noise-reduction intake and e shrouds, in accordance with manufacturers' recommendations. This s and all treatment types. | exhaust mu | fflers and | engine | Yes | | <u>CAL FIRE</u> During | CAL FIRE |

As per SPR NOI-2, all equipment will be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations.

| SPR NOI-3 Engine Shroud Closure: The project proponent will require that engine shrouds be closed during equipment operation. This SPR applies only to mechanical treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
|--|--------------|---------------------------|----------|
| The project proponent will require that engine shrouds be closed during equipment operation. | | | |
| SPR NOI-4 Locate Staging Areas Away from Noise-Sensitive Land Uses. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| Staging areas will be located away from noise-sensitive land uses. | | · | |
| SPR NOI-5 Restrict Equipment Idle Time: The project proponent will require that all motorized equipment be shut down when not in use. Idling of equipment and haul trucks will be limited to 5 minutes. This SPR applies to all treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| All motorized equipment be shut down when not in use. Idling of equipment and haul trucks will be lin | nited to 5 n | ninutes. | |
| SPR NOI-6 Notify Nearby Off-Site Noise-Sensitive Receptors: For treatment activities utilizing heavy equipment, the project proponent will notify noise-sensitive receptors (e.g., residential land uses, schools, hospitals, places of worship) located within 1,500 feet of the treatment activity. This SPR applies only to mechanical treatment activities and all treatment types. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
| The project does not contain noise-sensitive receptors within 1500' of the mastication units. | | | |

EC-13: RECREATION

| | | PEIR specific | ; | Pro | oject specific | |
|---|--|---|---|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact REC-1: Directly or Indirectly Disrupt Recreational Activities within Designated Recreation Areas | Impact REC-1, 3.14 | LTS | SPR REC- 1 | Yes | LTS | |

Jackson Demonstration State Forest is open for public recreation. There are no designated recreation areas within the treatment areas; however, there is one County Road, the 408 County Road, that runs parallel with the Shaded Fuel Break and lies Westerly from both Units A and B. Recreation occurs on County Road 408, mainly cyclists that go through the section where vegetation management activities will be occurring as well as foragers during mushroom picking season. Treatment activities could result in temporary closure of or limit access to County Road 408.

The project proponent would apply SPR REC-1, which would notify users of temporary closures during treatment. If the temporary closure of a recreation area or

facility is required, the proponent will post notifications of the closure at least two weeks prior to the commencement of the treatment activities. In addition, SPR AD-3 would require that the project proponent design and implement the treatment in a manner that is applicable to the JDSF Management Plan to the extent the project is subject to them. SPR AD-6 would require, one to three days prior to the commencement of a treatment activity, the project proponent post signs in a conspicuous location near the treatment area describing the activity and timing and requesting persons in the area to contact a designated representative of the project proponent of prescribed burning operations, the project proponent to: 1) post signs along the closest public roadway to the treatment area describing the activity and timing, and requesting persons in the area to contact a designated representative of the project proponent (contact information will be provided with the notice) if they have questions or smoke concerns; 2) publish a public interest notification in a local newspapers or other widely distributed media source describing the activity, timing, and contact information; 3) send the local county supervisor and county administrative officer (or equivalent official responsible for distribution of public information) a notification letter describing the activity, its necessity, timing, and measures being taken to protect the environment and prevent prescribed burn escape.

| Other Impacts to Recreation : Would the project result in other impacts to recreation that are not evaluated in the CalVTP PEIR? | | No | N/A | |
|---|--|----|-----|--|
| | | | | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|---|------------|---|------------------------------------|
| SPR REC-1 Notify Recreational Users of Temporary Closures. If temporary closure of a recreation area or facility is required, the project proponent will work with the owner/manager to post notifications of the closure approximately 2 weeks prior to the commencement of the treatment activities. This SPR applies to all treatment activities and treatment types. | Yes | CAL FIRE Prior-During | CAL FIRE |
| | | | |

EC-14: TRANSPORTATION

| | | PEIR spec | cific | Pro | oject specific | |
|--|--|---|---|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact TRAN-1 : Result in temporary traffic operations impacts by conflicting with a program, plan, ordinance, or policy addressing roadway facilities or prolonged road closures | Impact TRAN- 1, 3.15 | LTS | <u>SPR TRAN</u> - 1 <u>SPR AD</u> - 3 | Yes | LTS | \boxtimes |

Treatments will temporarily increase vehicular traffic along County Road 408. The potential for a temporary increase in traffic to conflict with a program, plan, ordinance, or policy addressing roadway facilities or prolonged road closures was examined in the PEIR. SPR AD-3 would require that the project proponent design and implement the treatment in a manner that is applicable to the JDSF Management Plan to the extent the project is subject to it. SPR TRAN-1 would implement traffic control during treatments. The proposed treatment project would be short-term, and temporary increases in traffic related to treatments are within the scope of the PEIR analysis and site-specific analysis

| Impact TRAN-2: Substantially increase hazards due to a design feature or incompatible uses | Impact TRAN- 2, 3.15 | LTS | <u>SPR TRAN</u> - 1 SPR AD-3 | Yes | LTS | | |
|---|----------------------------|-----|---------------------------------|-----|-----|--|--|
|---|----------------------------|-----|---------------------------------|-----|-----|--|--|

There is the potential for treatments to substantially increase hazards due to a design feature or incompatible use. This potential would not come from any construction or alteration of roadways but from smoke generated during burning operations that could potentially affect visibility along roadways for short periods of time. SPR TRAN-1 would implement traffic control during treatments. SPRs AD-4 and AD-6 would require public notification of treatments. The impact is within the scope of the PEIR analysis and site-specific analysis.

| Impact TRAN-3: Result in a net increase in VMT for the proposed CalVTP | Impact TRAN- 3, 3.15 | PSU | <u>MM AQ</u> - 1 | Yes | LTS | \boxtimes | |
|--|----------------------------|-----|------------------|-----|-----|-------------|--|
|--|----------------------------|-----|------------------|-----|-----|-------------|--|

Treatments could temporarily increase vehicle miles travelled for a short period as equipment enters the project location. It is not likely that traffic will increase beyond what is normal for the local area. SPRs AD-4 and AD-6 would require public notification of treatments and thus provide local commuters or others that could be affected by the increase in traffic the opportunity to change their schedule during treatment activities. This impact was identified as potentially significant and unavoidable in the PEIR because implementation of the CalVTP could result in a net increase in VMT. The impact is within the scope of the PEIR analysis and site-specific analysis.

| Other Impacts to Transportation : Would the project result in other impacts to transportation that are not evaluated in the CalVTP PEIR? | | No | N/A | |
|---|--|----|-----|--|
| | | | | |

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|---|------------|---|------------------------------------|
| SPR TRAN-1 Implement Traffic Control during Treatments: Prior to initiating vegetation treatment activities the project proponent will work with the agency(ies) with jurisdiction over affected roadways to determine if a Traffic Management Plan (TMP) is needed. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| | | | |

EC-15: PUBLIC SERVICES, UTILITIES, AND SERVICE SYSTEMS

| | | PEIR speci | fic | Pro | oject specific | |
|--|--|--|--|--|--|--|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact UTIL-1: Result in Physical Impacts Associated with Provision of Sufficient Water Supplies, Including Related Infrastructure Needs | Impact UTL-1, 3.16 | LTS | N/A | Yes | LTS | |
| prescribed burn. Water may be supplied from on-site sources, such as from property bonds which are hydrologically connected to watercourses, the project proponent wo CDFW. CDFW is responsible for conserving, protecting, and managing California's fish that an entity must notify CDFW prior to substantially diverting or obstructing the nat channel, or bank of, any river, stream, or lake, or depositing or disposing of debris, wa may pass into any river, stream, or lake. If CDFW determines that project activities will Streambed Alteration Agreement for that activity, that includes reasonable measures accordance with the Agreement. | uld be respo , wildlife, and ural flow of, ste, or other l substantial | nsible for ob d native plar or substantia material con y divert from | ntaining a Lake ar ht resources. Fish ally changing or ι ntaining crumble n a river, stream, | nd Streambe and Game C using any ma d, flaked, or or lake, CDF | d Alteration permit Code Section 1602 s Iterial from the bed ground pavement W will issue a Lake | t from states d, where it e or |
| mpact UTIL-2: Generate Solid Waste in Excess of State Standards or | Impact | PSU | | | | |
| | UTL-2, 3.16 | P30 | <u>SPR UTIL</u> - 1 | No | N/A | |
| Exceed Local Infrastructure Capacity The manual and mechanical treatments will reduce fuels and not generate any solid w | UTL-2, 3.16 | | | | | |
| Exceed Local Infrastructure Capacity The manual and mechanical treatments will reduce fuels and not generate any solid w does not apply to the proposed project. Impact UTIL-3: Comply with Federal, State, and Local Management and Reduction Goals, Statutes, and Regulations Related to Solid Waste | UTL-2, 3.16 | | | | | |
| Exceed Local Infrastructure Capacity The manual and mechanical treatments will reduce fuels and not generate any solid w does not apply to the proposed project. Impact UTIL-3: Comply with Federal, State, and Local Management and Reduction Goals, Statutes, and Regulations Related to Solid | UTL-2, 3.16 vaste. Mastic Impact UTL-3, 3.16 | cated and m | anually treated n | naterials will No | remain on-site. Th | his impac |

| SPR UTIL-1: Solid Organic Waste Disposition Plan. For projects requiring the disposal of material outside of the treatment area, the project proponent will prepare an Organic Waste Disposition Plan prior to initiating treatment activities. This SPR applies only to mechanical and manual treatment activities and all treatment types. | No | <u>CAL FIRE</u> N/A | CAL FIRE |
|---|----|------------------------|----------|
| | | | |

EC-16: WILDFIRE

| | PEIR specific | | | Project specific | | |
|---|--|---|--|---|--|------------------|
| | Identify location of impact Analysis in the PEIR | Identify impact Significance in the PEIR | SPRs & MMs applicable to the impact analysis in PEIR | Does the Impact Apply to the project Treatments proposed | Identify Impact Significance for the Treatment Project | No New Impact |
| Impact WIL-1 : Substantially Exacerbate Fire Risk and Expose People to Uncontrolled Spread of a Wildfire | Impact WIL-1, 3-17 | LTS | <u>SPR HAZ</u> - 2, 3, 4 | Yes | LTS | |

Vegetation treatment activities proposed would include mechanical, manual, herbicide, and prescribed burn treatments, both pile and broadcast. Vegetation treatment involving motorized equipment could pose a risk of accidental ignition. Temporary increases in risk associated with uncontrolled fire from prescribed burnings could also occur. As discussed in Section 3.17.1, "Environmental Setting," in Volume II of the Final PEIR, under "Prescribed Burn Planning and Implementation," implementing a prescribed burn requires extensive planning, including the preparation of prescription burn plans, smoke management plans, site-specific weather forecasting, public notifications, safety considerations, and ultimately favorable weather conditions so a burn can occur on a given day. Prior to implementing a prescribed burn, fire containment lines would be established by clearing vegetation surrounding the designated burn area to help prevent the accidental escape of fire. Water containers and safety equipment would be staged on site as necessary.

The potential increase in exposure to wildfire during implementation of treatments was examined in the PEIR. Increased wildfire risk associated with the use of heavy equipment in vegetated areas and with prescribed burns is within the scope of the PEIR because the types of equipment and treatment duration and the types of prescribed burn methods proposed as part of the project are consistent with those analyzed in the PEIR. SPRs HAZ-1, HAZ-2, HAZ-3, and HAZ-4, pertaining to preparation of burn plans in accordance with CAL FIRE requirements, equipment safety requirements, keeping fire extinguishers, and prohibiting smoking in vegetated areas, apply to the proposed treatments. SPR AQ-3 is also applicable to this as it requires a burn plan prepared by a qualified technician or certified State Burn Boss and will predict fire behavior. SPRs applicable to Impact WIL-1 are SPRs AQ-3 and HAZ-2, 3 and 4.

| Impact WIL-2 : Expose People or Structures to Substantial Risks Related to Post-Fire Flooding or Landslides | Impact WIL-2, 3-17 | LTS | <u>SPR AQ</u> - 3 <u>SPR GEO</u> - 3, 4, 5, 8 | Yes | LTS | | |
|--|--------------------------|-----|---|-----|-----|--|--|
|--|--------------------------|-----|---|-----|-----|--|--|

Initial treatment and treatment maintenance would include prescribed burning. Some steep slopes exist within the treatment areas. Mechanical treatment would occur from existing roads or skid trails or on flat to moderate slopes. Furthermore, because the treatments reduce wildfire risk, they would also decrease post wildfire landslide and flooding risk in areas that could otherwise burn in a high-severity wildfire without treatment. Runoff from Thompson drains away from the closest neighboring property, a small inholding, via unnamed tributaries draining to Thompson Gulch, which then runs to the south of the inholding. Thompson Gulch drains

| into the Little North Fork Big River at Mendocino Woodlands, Camp 2, approximately area. The project area is located on ridgetops and gentler slopes typical of ground-ba | | | | | | |
|--|--------------------------|----------------|------------------|---------------|------------------------|-------------|
| Thompson Gulch and Little North Fork Big River at Mendocino Woodlands. The area of project area. Fire lines within EEZs will be installed by hand crews rather than by doze Project activities would not result in the exposure of people or structures to substantia activities on moderate or gentle slopes, the lack of fan land formations at the confluence of the structure of the str | ers. al risks related | d to post-fire | flooding or land | Islides due 1 | to the location of the | |
| Other Impacts related to Wildfire : Would the project result in other impacts related to wildfire that are not evaluated in the CalVTP PEIR? | | | | No | N/A | \boxtimes |

EC-17: ADMINISTRATIVE STANDARD PROJECT REQUIREMENTS

| | Applicable | Implementing Entity & Timing Relative to Implementation | Verifying/ Monitoring Entity |
|--|------------|---|------------------------------------|
| SPR AD-1 Project Proponent Coordination: For treatments coordinated with CAL FIRE, CAL FIRE would meet with the project proponent to discuss all natural and environmental resources that must be protected using SPRs and any applicable mitigation measures; identify any sensitive resources onsite; and discuss resource protection measures. For any prescribed burn treatments, CAL FIRE would also discuss the details of the burn plan in the incident action plan (IAP). This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
| | | | • |

| SPR AD-2 Delineate Protected Resources: The project proponent will clearly define the boundaries of the treatment area and protected resources on maps for the treatment area and with highly-visible flagging or clear, existing landscape demarcations (e.g., edge of a roadway) prior to beginning any treatment to avoid disturbing the resource. "Protected Resources" refers to environmentally sensitive places within or adjacent to the treatment areas that would be avoided or protected to the extent feasible during planned treatment activities to sustain their natural qualities and processes. This work will be performed by a qualified person, as defined for the specific resource (e.g., qualified Registered Professional Forester or biologist). This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
|--|----------------|---------------------------|-------------|
| Prior to project implementation, project boundaries and protected resources will be mapped, flagged, activities avoid protected resources and stay within the project boundaries. | and define | d, making sure pr | oject |
| SPR AD-3 Consistency with Local Plans, Policies, and Ordinances: The project proponent would design and implement the treatment in a manner that is consistent with applicable local plans (e.g., general plans, Community Wildfire Protection Plans, CAL FIRE Unit Fire Plans), policies, and ordinances to the extent the project is subject to them. This SPR applies to all treatment activities and treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
| The project will be carried out in a manner that is consistent with all local plans, policies, and ordinan | ces. | | |
| SPR AD-4 Public Notifications for Prescribed Burning: At least three days prior to the commencement of prescribed burning operations, the project proponent would: 1) post signs along the closest public roadway to the treatment area describing the activity and timing, and requesting persons in the area to contact a designated representative of the project proponent (contact information would be provided with the notice) if they have questions or smoke concerns; 2) publish a public interest notification in a local newspapers or other widely distributed media source describing the activity, timing, and contact information; 3) send the local county supervisor and county administrative officer (or equivalent official responsible for distribution of public information) a notification letter describing the activity, its necessity, timing, and measures being taken to protect the environment and prevent prescribed burn escape. This SPR applies only to prescribed burn treatment types. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
| Prescribed fire signs will be placed within the project area 3 days prior to firing activities. Notifications | s will be dist | tributed through re | egular |
| social media outlets by the Unit PIO. County Supervisors will be notified as required in SPR AD-4. SPR AD-5 Maintain Site Cleanliness: If trash receptacles are used on-site, the project proponent will use fully covered trash receptacles with secure lids (wildlife proof) to contain all food, food scraps, food wrappers, beverages, and other worker generated miscellaneous trash. Remove all temporary non-biodegradable flagging, trash, debris, and barriers from the project site upon completion of project activities. This SPR applies to all treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> During | CAL FIRE |
| Trash receptacles will not be needed on-site. All staff will be trained and will be advised to remove al removed once the project has been completed and is no longer needed to protect the resources. | l trash gene | erated daily. Flagg | ing will be |

| SPR AD-6 Public Notifications for Treatment Projects. One to three days prior to the commencement of a treatment activity, the project proponent would post signs in a conspicuous location near the treatment area describing the activity and timing, and requesting persons in the area to contact a designated representative of the project proponent (contact information would be provided with the notice) if they have questions or concerns. This SPR applies to all treatment activities and all treatment types, including treatment maintenance. Prescribed burning is subject to the additional notification requirements of SPR AD-4. | Yes | <u>CAL FIRE</u> Prior | CAL FIRE |
|---|-----|-------------------------------|-----------------|
| | | | |
| SPR AD-7 Provide Information on Proposed, Approved, and Completed Treatment Projects . For any vegetation treatment project using the CalVTP PEIR for CEQA compliance, the project proponent will provide the information listed below to the Board or CAL FIRE during the proposed, approved, and completed stages of the project. The Board or CAL FIRE will make this information available to the public via an online database or other mechanism. This SPR applies to all treatment activities and all treatment types. | Yes | CAL FIRE Prior-During-Post | <u>CAL FIRE</u> |
| | | | |
| SPR AD-8 Request Access for Post-Treatment Assessment. For CAL FIRE projects, during contract development, CAL FIRE would include access to the treated area over a prescribed period (usually up to three years) to assess treatment effectiveness in achieving desired fuel conditions and other CalVTP objectives as well as any necessary maintenance, as a contract term for consideration by the landowner. For public landowners, access to the treated area over a prescribed period would be a requirement of the executed contract. This SPR applies to all treatment activities and all treatment types. | Yes | <u>CAL FIRE</u> Post | CAL FIRE |
| | | | |
| SPR AD-9. Obtain a Coastal Development Permit for Proposed Treatment Within the Coastal Zone Where Required . When planning a treatment project within the Coastal Zone, the project proponent would contact the local Coastal Commission district office, or applicable local government to determine if the project area is within the jurisdiction of the Coastal Commission, a local government with a certified Local Coastal Program (LCP), or both. This SPR applies to all treatment activities and all treatment types. | No | <u>CAL FIRE</u> N/A | <u>CAL FIRE</u> |
| | | | |

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EC-18: MANDATORY FINDINGS OF SIGNIFICANCE

| | New Impact that is Significant or Potentially Significant | New Impact that is Less Than Significant with Mitigation Incorporated | New Impact that is Less Than Significant Impact | No New Impact |
|--|---|---|--|------------------|
| a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory? | | | | |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) | | | | |
| c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly? | | | | |

Discussion

No additional comments.

| Ado | ditional information: List of Standard Project Requirements (SPRs) and Mitigations Measures (MMs). See |
|-------------|---|
| Atta | chment A |
| \square | Vicinity map on a USGS quad map (SPR AD-2) |
| | \boxtimes Aerial imagery of subsequent activity area (see vicinity and location maps) |
| | Subsequent activity location on Treatable Landscape Map |
| | Parcel map with APN's covering all ownerships within subsequent activity area – all |
| | ownership is state forest. |
| | Soil survey map of subsequent activity area |
| | Smoke Management Pan/Burn Plan (SPR AQ-2 & 3) – SMP will be submitted/approved prior to burning |
| | Public Notice for Prescribed Burning - will be posted prior to burning |
| | Model run of FOFEM, BEHAVE, or other appropriate fire behavior modeling simulation |
| | Burn Unit Maps – Ortho and Topographic - will be submitted prior to burning & with completion report |
| | Air District Asbestos Dust Control Plan (SPR AQ-5) – Not Applicable |
| | Incident Action Plan (IAP) (SPR AQ-6) – will be submitted with completion report |
| \boxtimes | Archaeological reviews/surveys (Confidential addendum) (EC-4) - confidential |
| \square | Biological review/surveys (EC-5) |
| | CNDDB Records Search |
| | Biologist Consultation/Notification |
| | Water Quality consultation – |
| | Consult Attachment C (and Cal VTP Appendix BIO-3) |
| | Biological Compensation Plan (MM BIO-1c, 2c, 2d, 2e, 2f, 3b, 3c,) – See MM BIO-2d |
| \boxtimes | Geological Review (MM GHG-2) – see CGS comment letter |
| | Spill Prevention & Response Plan (SPR HAZ-5) – Will be completed if herbicide treatment is |
| utili | zed. |
| | Traffic Management Plan (SPR TRAN-1) –If needed, a TMP will be submitted to Mendocino |
| Cou | nty prior to commencement of treatment activities on or near county roads. |
| | Organic waste Disposal Plan (SPR UTIL-1) – Not Applicable |
| \boxtimes | Air Quality and GHG Emissions Estimates (SPR GHG-1) see GHG analysis |
| | Air Quality consultations - SMP will be submitted/approved prior to burning |
| | Off-Site Noise-Sensitive Receptors Notification (SPR NOI-6) – Not Applicable |

DELIVERABLES POST APPROVAL

- Public Notification (News/Press Release)
- Authorized PFIRS Ignition Request
- Live Fire Notification
- Approved FC 400
- Public Notifications to neighbors
- Weather Forecasts/Spot weather Forecasts
- Go NO Go Checklist
- Incident Action Plans (IAP's, Prescribed burn activities)
- Completion Reports to Region
- Other: FC 33, Project Photos