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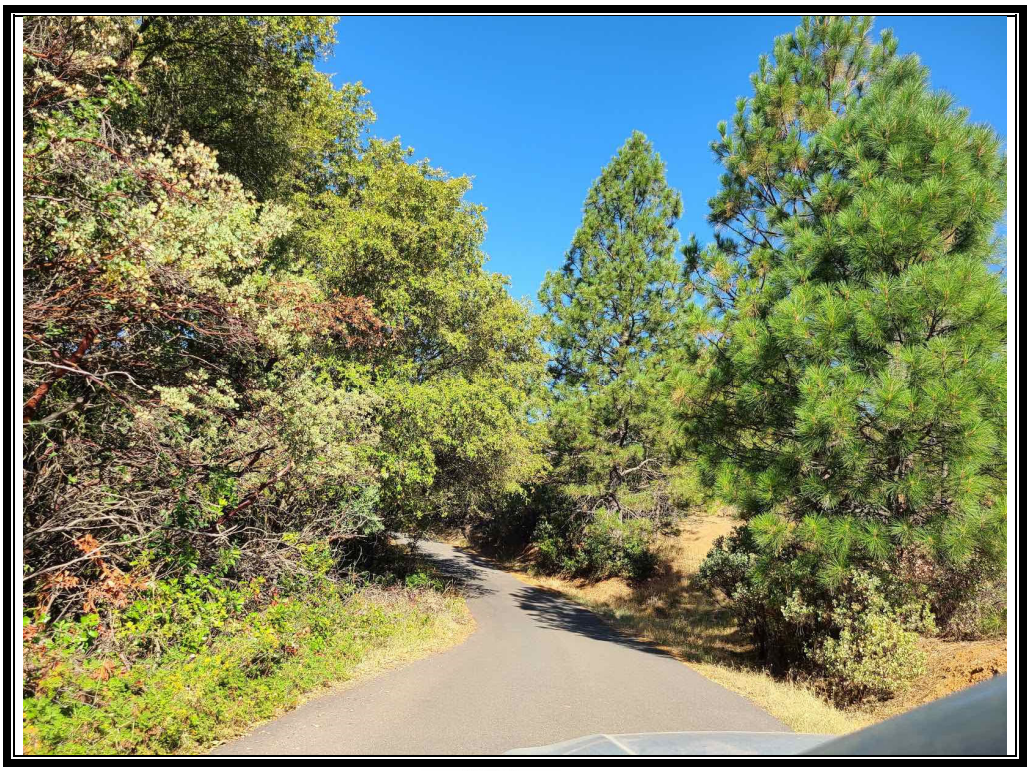
Initial Study-Mitigated Negative Declaration
for the proposed
Amador County Ingress, Egress and Education Plan
Amador County, California



prepared by:
Ed Struffenegger, Registered Professional Forester #2200 (for)
The California Department of Forestry and Fire Protection
The Lead Agency Pursuant to § 21082.1 of the
California Environmental Quality Act

CAL FIRE
P.O. Box 944246
Sacramento, CA 94244-2460
(916) 263-3370

September 9, 2022

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MITIGATED NEGATIVE DECLARATION

Introduction and Regulatory Context

STAGE OF CEQA DOCUMENT DEVELOPMENT

☐ **Administrative Draft.** This California Environmental Quality Act (CEQA) document is in preparation by California Department of Forestry and Fire Protection (CAL FIRE) staff.

☒ **Public Document.** This completed CEQA document has been filed by CAL FIRE at the State Clearinghouse on September 12th, 2022 and is being circulated for a 30-day state agency and public review period. The review period ends on October 13th, 2022.

☐ **Final CEQA Document.** This final CEQA document contains the changes made by the Department following consideration of comments received during the public and agency review period. The CEQA administrative record supporting this document is on file, and available for review, at CAL FIRE's Sacramento Headquarters, Environmental Protection Program.

INTRODUCTION

This initial study-mitigated negative declaration (IS-MND) describes the environmental impact analysis conducted for the proposed project. This document was prepared for CAL FIRE staff utilizing information gathered from a number of sources including research, field review of the proposed project area and consultation with environmental planners and other experts on staff at other public agencies. Pursuant to § 21082.1 of CEQA, the lead agency, CAL FIRE, has prepared, reviewed, and analyzed the IS-MND and declares that the statements made in this document reflect CAL FIRE's independent judgment as lead agency pursuant to CEQA. CAL FIRE further finds that the proposed project, which includes revised activities and mitigation measures designed to minimize environmental impacts, will not result in a significant effect on the environment.

REGULATORY GUIDANCE

This IS-MND has been prepared for CAL FIRE to evaluate potential environmental effects that could result following approval and implementation of the proposed project. This document has been prepared in accordance with current CEQA Statutes (Public Resources Code §21000 *et seq*.) and current CEQA Guidelines (California Code of Regulations [CCR] §15000 *et seq*.)

An initial study is prepared by a lead agency to determine if a project may have a significant effect on the environment (14 CCR § 15063(a)), and thus, to determine the appropriate environmental document. In accordance with CEQA Guidelines §15070, a "public agency shall prepare…a proposed negative declaration or mitigated negative declaration…when: (a) The initial study shows that there is no substantial evidence…that the project may have a significant impact upon the environment, or (b) The initial study identifies potentially significant effects but revisions to the project plans or proposal are agreed to by the applicant and such revisions will reduce potentially significant effects to a less-than-significant level." In this circumstance, the lead agency prepares a written statement describing its reasons for concluding that the proposed project will not have a significant effect on the environment and, therefore, does not require the

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preparation of an environmental impact report. This IS-MND conforms to these requirements and to the content requirements of CEQA Guidelines § 15071.

PURPOSE OF THE INITIAL STUDY

CAL FIRE has primary authority for carrying out the proposed project and is the lead agency under CEQA. The purpose of this IS-MND is to present to the public and reviewing agencies the environmental consequences of implementing the proposed project and to describe the adjustments made to the project to avoid significant effects or reduce them to a less-than-significant level. This disclosure document is being made available to the public and reviewing agencies for review and comment. The IS-MND is being circulated for public and state agency review and comment for a review period of 30 days as indicated on the ***Notice of Intent to Adopt a Mitigated Negative Declaration*** (NOI). The 30-day public review period for this project begins on **September 12th, 2022,** and ends on **October 13th, 2022**.

The requirements for providing an NOI are found in CEQA Guidelines §15072. These guidelines require CAL FIRE to notify the general public by providing the NOI to the county clerk for posting, sending the NOI to those who have requested it, and utilizing at least one of the following three procedures:

- Publication in a newspaper of general circulation in the area affected by the proposed project,
- Posting the NOI on and off site in the area where the project is to be located, or
- Direct mailing to the owners and occupants of property contiguous to the project.

CAL FIRE has elected to utilize **"Publication in a newspaper of general circulation in the area affected by the proposed project",** the first of the three notification options. An electronic version of the NOI and the CEQA document were made available for review for the entire 30-day review period through their posting at:
https://www.fire.ca.gov/programs/resource-management/resource-protection-improvement/environmental-protection-program/public-notices

If submitted prior to the close of public comment, views and comments are welcomed from reviewing agencies or any member of the public on how the proposed project may affect the environment. Written comments must be postmarked or submitted on or prior to the date the public review period will close (as indicated on the NOI) for CAL FIRE's consideration. Written comments may also be submitted via email (using the email address that appears below), but comments sent via email must also be received on or prior to the close of the 30-day public comment period. Comments should be addressed to:

Patrick McDaniel
Forester I, Vegetation Management Program
CAL FIRE, Amador El Dorado Unit
2840 Mt. Danaher Road
Camino, CA 95709
Email: SacramentoPublicComment@Fire.ca.gov

After comments are received from the public and reviewing agencies, CAL FIRE will consider those comments and may (1) adopt the mitigated negative declaration and approve the proposed project; (2) undertake additional environmental studies; or (3) abandon the project.

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Project Description and Environmental Setting

PROJECT LOCATION

This project is located entirely within Amador County in the Sierra foothills. The project area includes private roads within Amador County from Highway 49 on the west to the intersection of Highway 88 and Shake Ridge Road on the east. This is the area generally bounded by the towns/cities of Jackson, Amador City, Sutter Creek, Plymouth, and Pioneer. The total project area is 1,325.8 acres.

The project area can be found in portions of the following sections, MDB&M:

T6N R11E: Sections 1-6, 8-12, 13-17, 20-28, 34-36
T6N R12E: Sections 1-11, 14-22, 27-32
T7N R10E: Sections 1, 2, 11-14, 22-26, 35, 36
T7N R11E: Sections 1-13, 16-36
T7N R12E: Sections 1-36
T7N R13E: Sections 2-10, 14-23, 26-32
T8N R10E: Sections 13, 14, 23-26, 35, 36
T8N R11E: Sections 14-36
T8N R12E: Sections 30-36
T8N R13E: Sections 31-36

BACKGROUND AND NEED FOR THE PROJECT

In the event of a wildfire, a properly functioning road system is of critical importance for the ingress of fire-fighting resources and for the egress of evacuated residents. In Amador County, many roads exhibit signs of encroaching vegetation, which effectively reduces the ability of those roads to be readily available for ingress and egress during wildfires.

The Amador Fire Safe Council's (AFSC's) vision for this project is to have every ingress and egress route west of Dew Drop in Amador County in the event of wildfire: mapped, understood (by residents and fire agencies) and safely cleared. In the summer of 2019 the AFSC developed the Amador County Evacuation Route Committee, inviting partners and community members to start developing mapping that identified evacuation routes within the county, prioritized roadways needing clearing, and provided education to residents regarding routes. CAL FIRE, Amador Office of Emergency Services (OES), Amador Fire Protection District, all other fire protection districts in the County, and the Amador County Transportation Commission (ACTC) worked together to identify evacuation routes for the county west of Dew Drop which is the heavily-populated wildland-urban interface (WUI) zone. In addition, ACTC is able to identify the number of residents within each traffic-shed to assist fire agencies and OES if evacuation is ever necessary.

PROJECT OBJECTIVES

1. Reduce roadside vegetation along private roads to provide for safe and efficient ingress and egress of vehicles and equipment in the event of a fire.

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2. Provide for a defensible space along private roads to effectively fight fires from the road.
3. Reduce roadside fuels to slow the spread of a fire started in or adjacent to the roadway.
4. The final desired condition will be an open and park like condition along roads consisting of larger diameter trees. All ground fuels, brush, and smaller-diameter trees will be chipped or masticated.

PROJECT START DATE

Summer 2022

PROJECT DESCRIPTION

This project involves the clearance of roadside vegetation (fuels) on private roads within unincorporated regions in Amador County, California. All roadside vegetation up to 10 inches diameter at breast height (dbh) shall be removed within 20 feet of road edge on either side. This distance may be reduced in locations where fences exist within this 20-foot zone. The vegetation to be treated includes ground fuels, brush, and small-diameter trees. The fuels reduction shall be done by a combination of CAL FIRE Pine Grove Camp crews and private contractors. The work to be done involves the hand cutting of vegetation with the cut vegetation chipped on-site and blown back onto the cut-bank and road edge. The work to be done with private contractors may include the hand cutting and chipping of vegetation (as outlined above) or the mastication of vegetation on-site by means of a mechanical masticator. This mastication will be "reach-in" mastication only, with the mastication equipment sitting on the actual road prism, and the actual mastication to be accomplished by reaching-in to the work site via mastication arms or booms. In addition, all tress greater than 10 inches d.b.h within the proposed project area shall be limbed up to a minimum height of 10 feet, with the limbs treated by chipping or mastication. All other equipment, including crew buses, utility vehicles and tow-behind chipper shall remain on the existing road prism. There are approximately 273.45 miles of road covered by this project (approx. 1,325.8 acres total area, assuming 40 foot clearing limits, total width, 20-feet on both sides of the road).

This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project. No burning will be conducted under this project.

This roadside vegetation clearance project will include the maintenance of some or all of the treated areas by a variety of methods, including re-cutting and chipping, additional mechanical mastication (as described above) or the selective use of herbicides. The intent is for this Mitigated Negative Declaration to cover ongoing roadside clearance in perpetuity.

ENVIRONMENTAL SETTING OF THE PROJECT REGION

Project elevation ranges from 1,200 to 4,300 feet. Slopes within the project area range from nearly flat to moderately steep (30% to 50%) on the steeper cut and fill slopes.

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DESCRIPTION OF THE LOCAL ENVIRONMENT

The western and lower regions of the project area include oak-woodland mixed with grassland. The predominant species are interior live oak and blue oaks, with scattered gray pines in many locations.

The middle regions of this project include a mixture of hardwood/conifer species. The conifer species include Ponderosa pine, sugar pine, white fir, Douglas fir, and incense cedar. The hardwood species include canyon live oak, interior live oak, black oak, and madrone. Several brush species are intermixed within this region, including manzanita, *ceanothus*, toyon, coyote brush, and poison oak.

The eastern and upper regions of the project include predominantly Sierra mixed conifer species, including the species listed above, with some black oaks scattered intermixed with the conifers. Brush species are often predominant in open areas and less-dense conifer stands.

In general, the roadside vegetation in most areas in the middle to upper regions of this project area are dense-to-very dense, and often extend to—and often into—the road prism. Often this vegetation is dead or dying, posing an extraordinary fire threat and a potentially significantly affecting the potential ingress/egress of these roads in the event of a catastrophic wildfire

Biological Resources/Habitat

This project will treat fuels and vegetation within 20 feet of private roads throughout areas of Amador from Highway 49 on the west to Dew Drop CAL FIRE Fire Station on the east. The actual habitat types within the actual project (i.e., within 20 feet of the road) have been heavily modified from previous road construction, road re-construction, and related maintenance activities. Some of this previous maintenance activity included the removal and trimming of roadside vegetation. Additional vegetation altering work has been performed by property owners, and many property owners have cleared roadside fuels, trimmed residual trees, and performed on-going vegetation-removal maintenance activities. As a result of all this activity, the actual road-side vegetation within these 20-foot zones includes large areas of cleared areas (such as large road cuts and road fills) where there is no vegetation, areas with no brush or trees, but covered with other vegetation types (such as grasses and bear clover), and other areas dominated with early-seral brush and tree species. Additionally, most dead trees and snags have been either removed or fallen for public safety along this 20 foot zone. Very few areas within the project area can be characterized as undisturbed, native vegetation types.

In addition, road use along these private roads will often result in lower occupancy of wildlife species in this 20 foot zone. This is a result of traffic, noise, pedestrian use, and in some cases, dust from native-surfaced roads.

The vegetation types and habitat types of the actual project area within 20 feet of the private roads will likely not be representative of the larger habitat types outside

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this 20 foot zone. However, a discussion of these broad habitat types that exist on larger landscape areas of Amador County is as follows:

At the lower elevations of the project area, the predominant habitat type is mixed chaparral which occurs from the western portion of the project area up to approximately 1,500 to 2,000 foot elevation. This habitat type is characterized by a structurally homogeneous land type dominated by manzanita and scrub oak. Other species that may be present in this habitat include chamise, poison oak, ceanothus, incense cedar, and foothill pine. Mixed chaparral generally occupies more mesic sites and often makes up the understory of ponderosa pine and other mixed conifer habitat types.

The montane hardwood habitat type is generally found from 1,500 to 2,000 foot elevations up to approximately 2,500 to 3,000 foot elevation. The montane hardwood habitat type is composed of a hardwood tree layer with an infrequent and limited shrub and herbaceous layer. Snags and downed woody material are generally sparse throughout this habitat. Common species at the project elevation include canyon live oak, ponderosa pine, Douglas fir, tanoak, Pacific madrone, California black oak, and foothill pine (*Pinus sabiniana*). Associated understory includes manzanita (*Arctostaphylos spp*.), poison oak (*Toxicodendron diversilobum*), and ceanothus (*Ceanothus spp.*).

The dominant habitat types from 2,500 to 3,000 foot elevation up to the eastern end of the project at approximately 4,500 foot elevation is conifer-dominated habitats. The dominant vegetation type is ponderosa pine *(Pinus ponderosa)* forest, where the stand is at least 50% of the canopy. Common species in this habitat include Douglas fir (*Pseudotsuga menziesii*), incense cedar (*Calocedrus decurrens*), sugar pine (*Pinus lambertiana*), and California black oak (*Quercus kelloggii*). Canyon live oak (*Quercus chrysolepis*), Pacific madrone (*Arbutus menziesii*), tanoak (*Notholithocarpus densiflorus*), and white fir (*Abies concolor*) are also present. Sierra mixed conifer is another habitat type present at this elevation, where the overstory is dominated by a mixture of conifer species, such as Ponderosa pine, sugar pine, Douglas fir, white fir, and incense cedar. California black oaks can be found interspersed within this habitat type.

This project will not be removing any trees larger than 10 inches DBH. The overstory component of all tree-dominated habitat types will not be significantly altered by the removal of overstory vegetation.

Species Associated with Project-Area Habitat Types:

As previously mentioned, the occurrences of wildlife within the project area (i.e, within the 20 foot zone along private roads) may not be similar to occurrences of wildlife further back from the road. Nevertheless, a discussion of potential impacts to listed species that are present in the Amador County area follows:

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A California Department of Fish and Wildlife's Natural Diversity Database (CNDDB) query was run on 1/27/2021. The results of this query, the location of the occurrence, and any associated protection measures are as follows:

A total of 44 Occurrences were listed on the CNDDB. Of these Occurrences, nine were for federally- or state-listed species, as listed below:

Federally Listed or State Listed Species

Valley Elderberry Longhorn Beetle. 1 occurrence. (west of Highway 49, outside Jackson, on French Bar Road). Protection: none needed. This is both well outside the project area, and below the lowest elevation of the project. USFWS guidance suggests that most occurrences of the VELB are at 500 foot elevation and below, which again, is below the elevation of this project. No additional protections required.

Tricolored Blackbird. 2 occurrences. (Drytown, and at Pardee Reservoir). Both occurrences are outside the project area, with the Pardee Reservoir occurrence approximately 8 miles west of the project perimeter; the Drytown occurrence was approximately 1 mile west of the project area. No habitat or potential habitat for the Tricolored Blackbird exists on the project area.

Foothill Yellow-Legged Frog (FYLF): 6 occurrences. (2 occurrences in the Plymouth area, one occurrence in Sutter Creek, one on the Middle Bar Road, one in proximity to Pardee Reservoir, and one on Else Creek in Pine Grove.) The Sutter Creek and Else Creek occurrences were adjacent to—or within—the proposed project area. To prevent any impacts to the FYLF, all operations associated with this project that are within 100 feet of perennial water or watercourses will be surveyed prior to operations for the presence of frogs. If any frog—of any species—is encountered within the project area, a qualified Wildlife Biologist will be consulted to provide verification of species and potential protection measures. The results of this consultation will be provided to the Department of Fish and Wildlife, as appropriate.

Habitat /or potential habitat for the FYLF exists in proximity to the project area. However, given the pre-operations survey (listed above), and the requirement that all equipment and vehicles must remain on the established road prism, the project is not expected to have a substantial adverse effect on FYLF.

Non-Listed Species

Non-listed Plant Species: Ten occurrences were listed on CNDDB for non-listed plant species. These included Red Hills soaproot, Tuolumne button-celery, and prairie wedge grass. In every case, the occurrences were outside the project area. No additional protections required.

Non-listed Animal Species (outside of cave/mine shaft habitats): 14 occurrences were listed for non-listed animal species that normally occur outside of caves and mines. These included one occurrence for the Tulare cuckoo wasp, 3 occurrences for the North American porcupine, and 10 occurrences for the western pond turtle. After reviewing the locations of these occurrences, it was determined that the Tulare cuckoo

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wasp and North American porcupine sightings were well outside the project area, and no additional protections are required. To prevent any possible impact to the Western pond turtle, all project areas that are within 100 feet of any occurrence in the Plymouth/Shenandoah area will have a pre-operations survey for this species. If any turtle of any species is encountered, a qualified Wildlife Biologist will be consulted. The Wildlife Biologist will propose any necessary pre-operations protection measures.

Non-listed Animal Species (associated with caves and mine shafts): 9 occurrences were listed on CNDDB for non-listed species that are generally associated with caves and abandoned mine shafts. These occurrences were for: Rudolph's cave harvestman, Grubb's cave harvestman, Grady's cave amphipod, and Townsend's Big-Eared Bat. The occurrences listed were in abandoned mine shafts in the Volcano and Sutter Creek areas. No project-related activities will occur within at least 1 mile of any of these occurrences. If any additional mine shafts are discovered within 100 feet of any proposed project area, a pre-operations survey for these species within those caves will be made by a qualified Wildlife Biologist. If any of these species are encountered, the Wildlife Biologist will propose any necessary pre-operations protection measures.

No impacts to any stream bed, bank, or channel will occur as a result of this project. This project will result in no impacts to riparian vegetation. A 1600 Lake and Streambed Alteration Agreement (LSAA) will not be required for any portion of this project.

CURRENT LAND USE AND PREVIOUS IMPACTS

The dominant land use with the project area is dispersed residential development. Parcel sizes range from less than 0.25 acres to 10 acres. Some scattered ranch lands and forest stands can be found on larger parcels, generally between 10 and 160 acres in size. These parcels are often intermixed with the residential developments.

Previous impacts to the region were a result of 19th century and early 20th century mining and logging. These impacts resulted in a dense re-vegetation of brush, hardwood trees, and conifer trees in many areas. Additional impacts were the result of a number of smaller wildfires, and impacts from larger catastrophic wildfires, such as the 30,000-acre Rancheria Creek Fire in 1961 and the 71,000-acre Butte Fire, which burned in both Amador and Calaveras Counties in 2015. There have been only minimal amounts of timber harvesting and forest management practiced on most smaller, rural parcels in the past few decades. This lack of recent forest management—in conjunction with previous impacts—have resulted in dense, overstocked stands, many of which are encroaching onto the Amador County road network.

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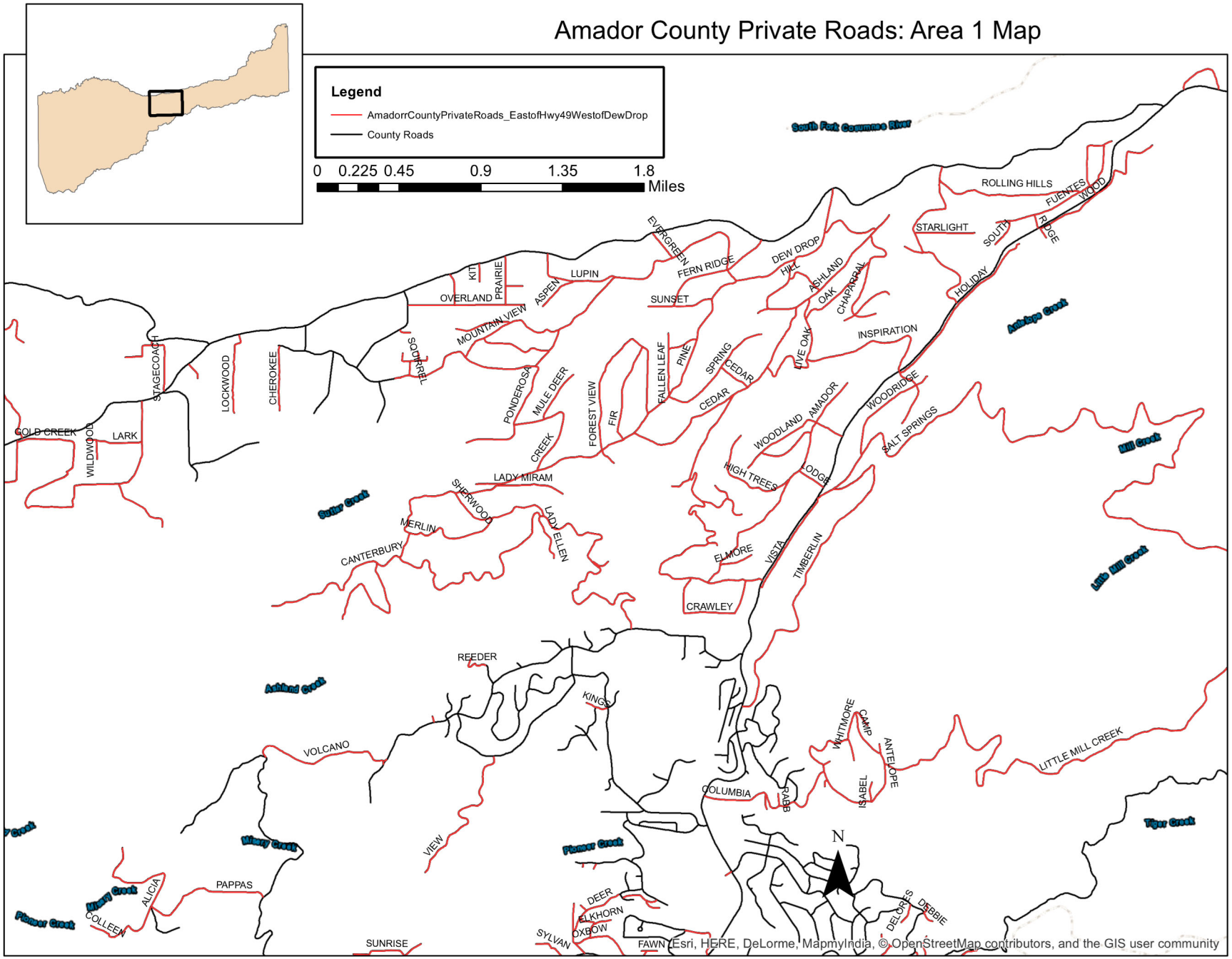
Amador County Private Roads: Area 1 Map



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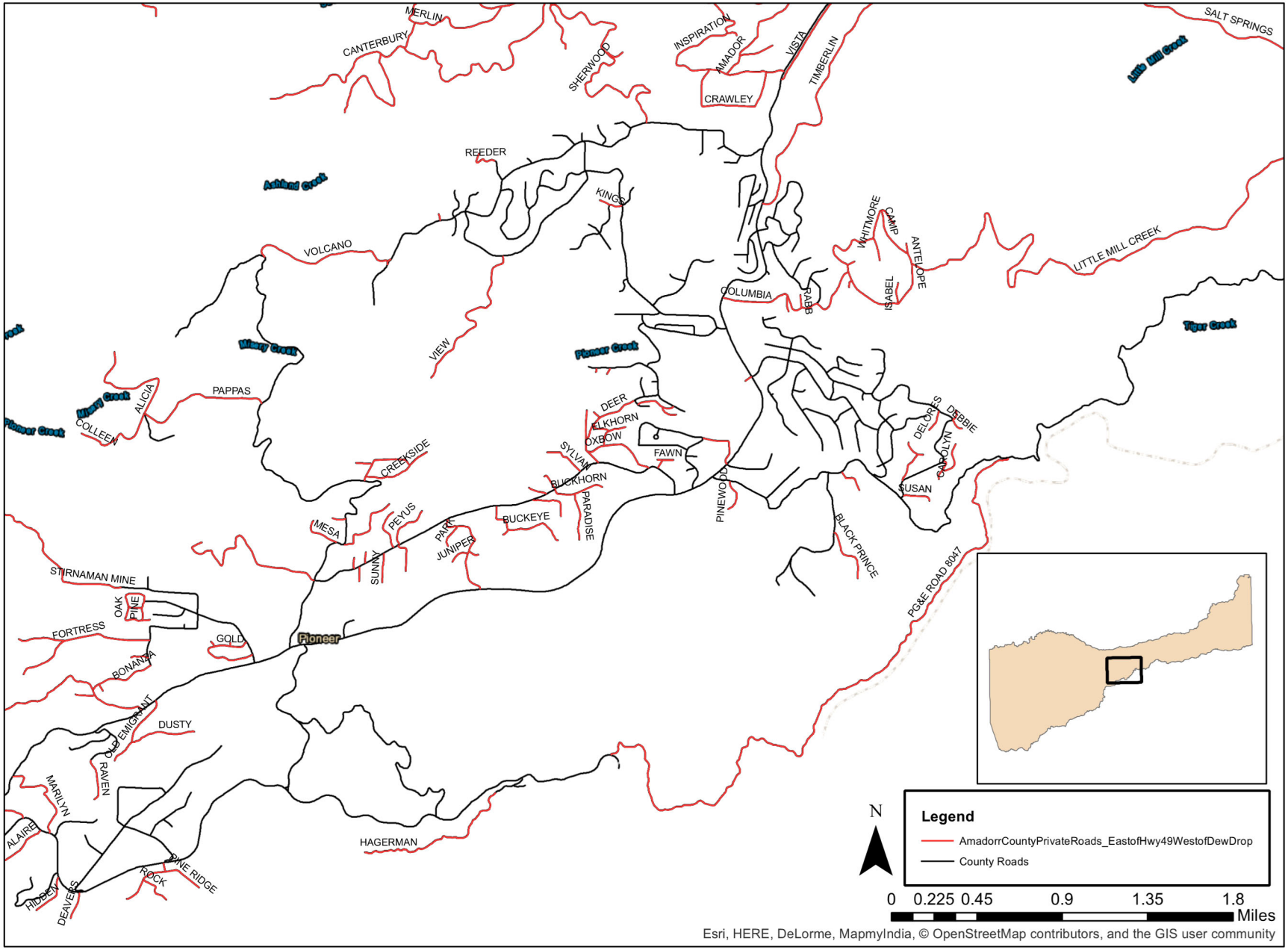
Amador County Private Roads: Area 2 Map



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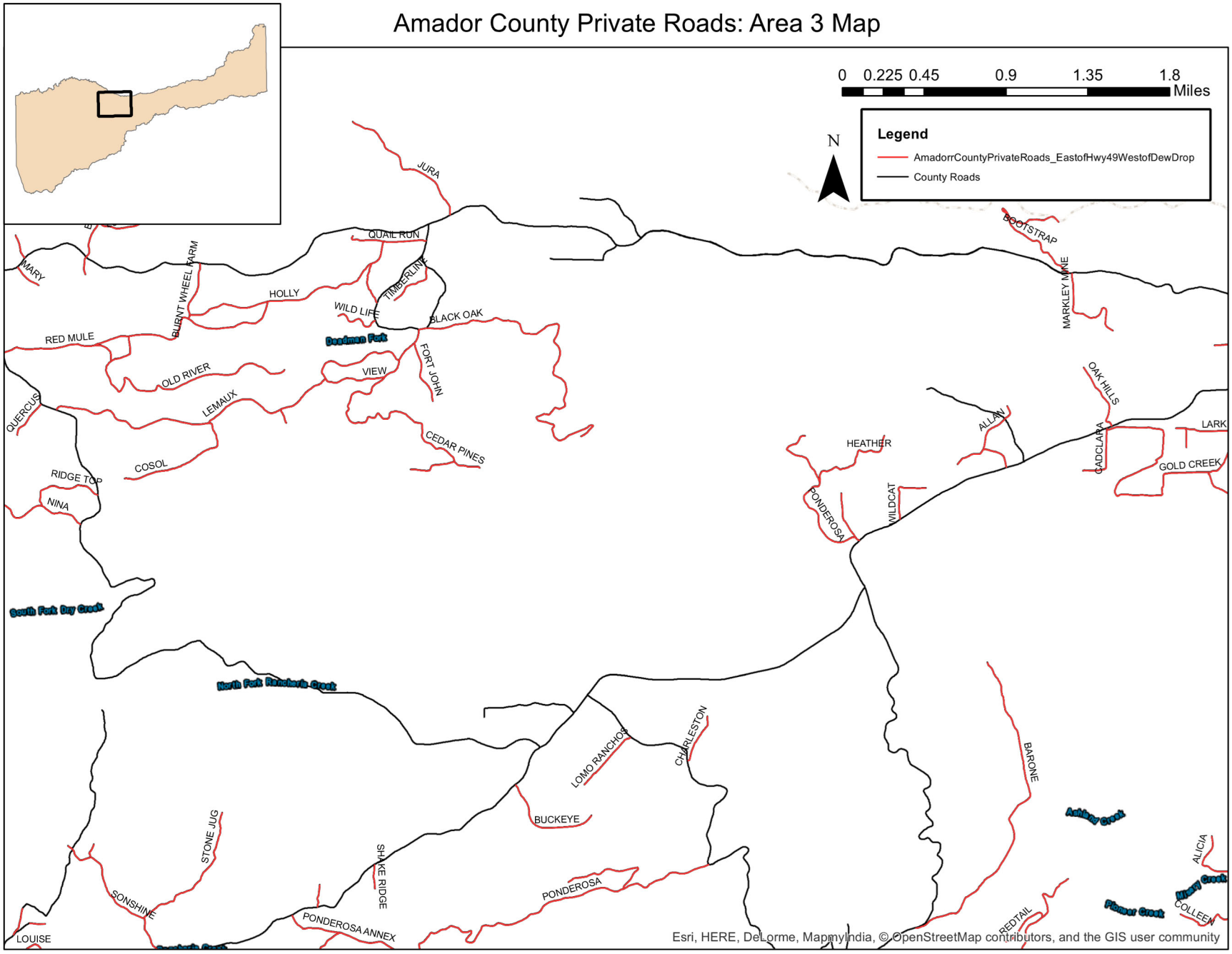
Amador County Private Roads: Area 3 Map



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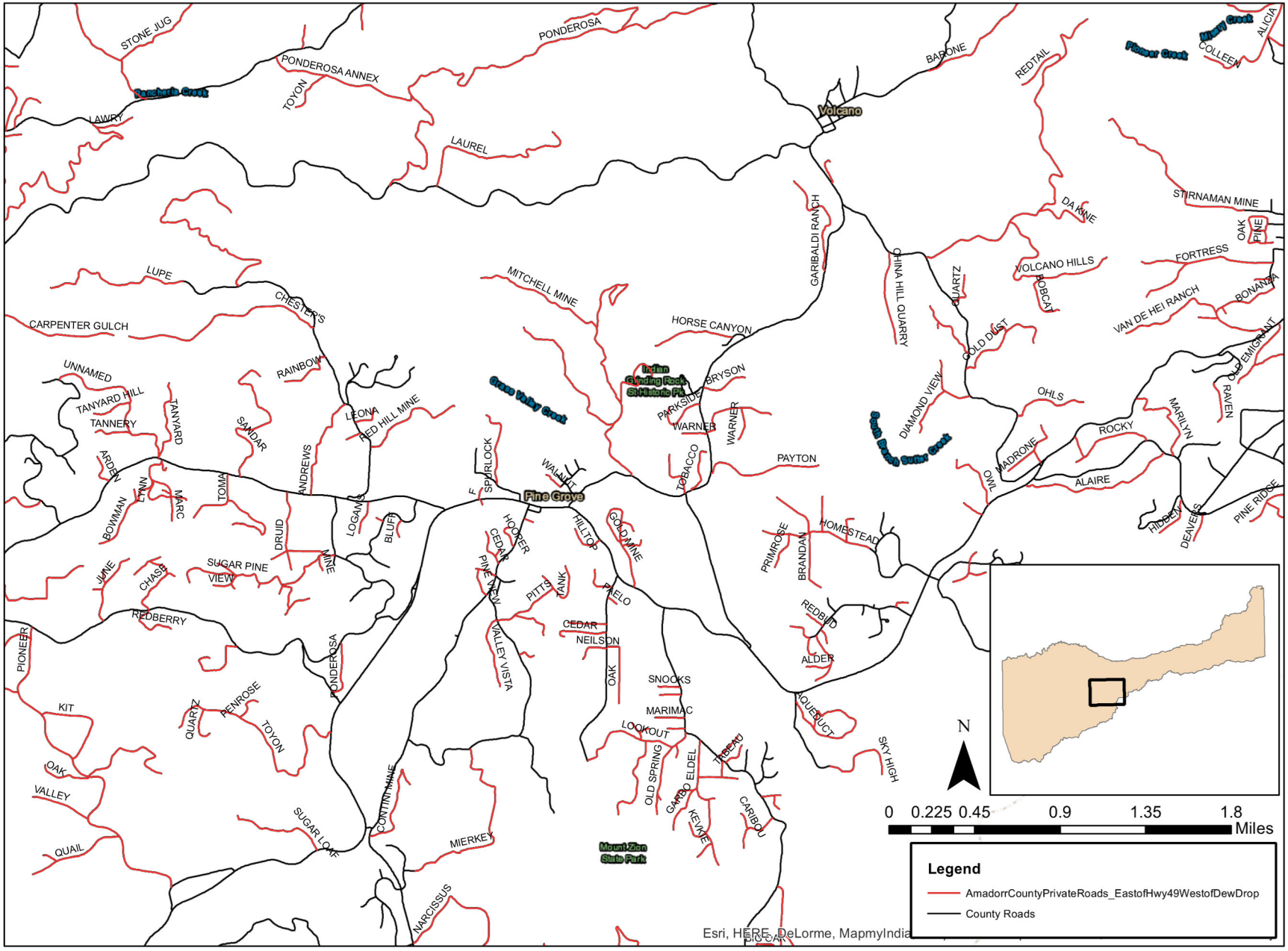
Amador County Private Roads: Area 4 Map



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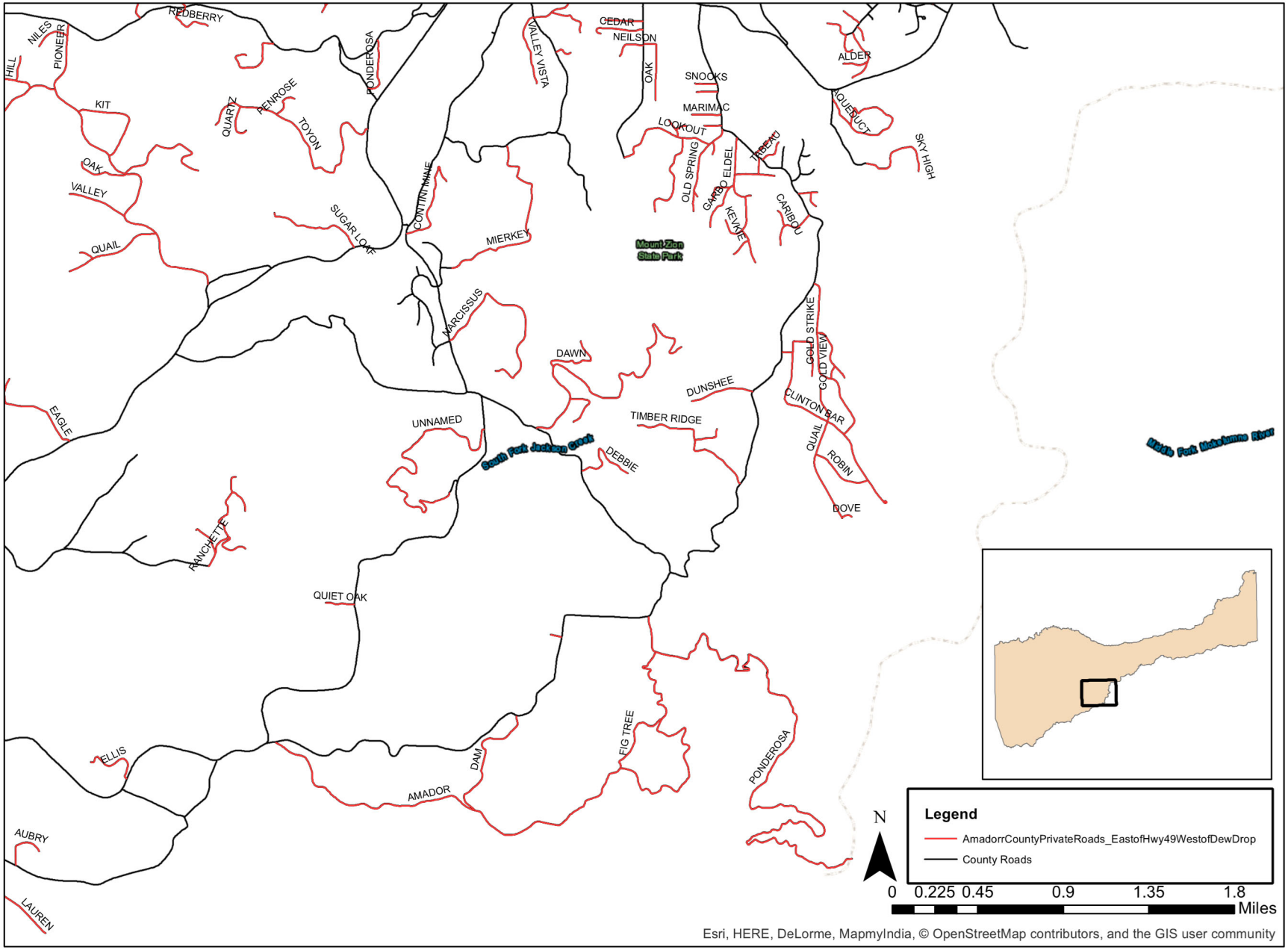
Amador County Private Roads: Area 5 Map



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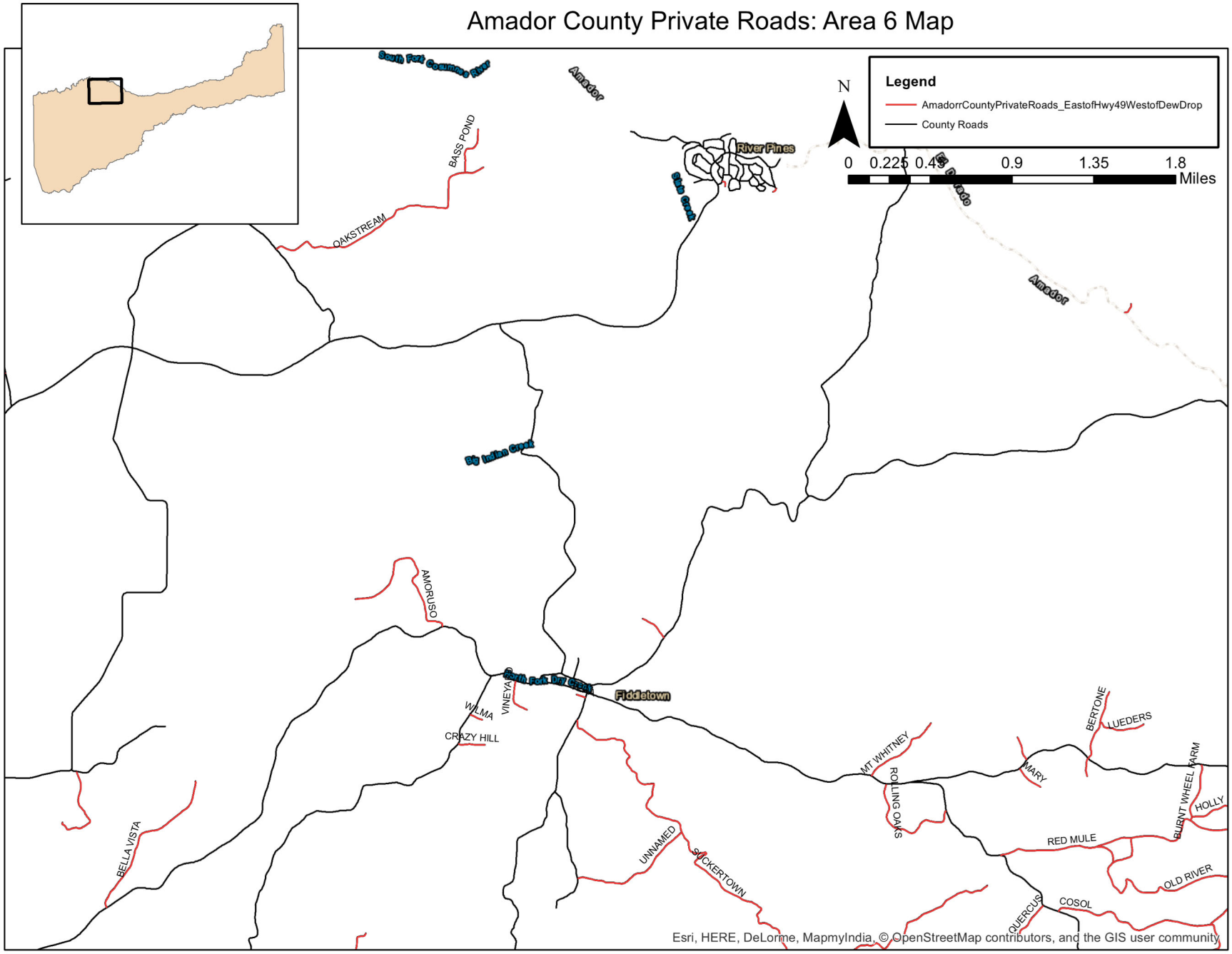
Amador County Private Roads: Area 6 Map



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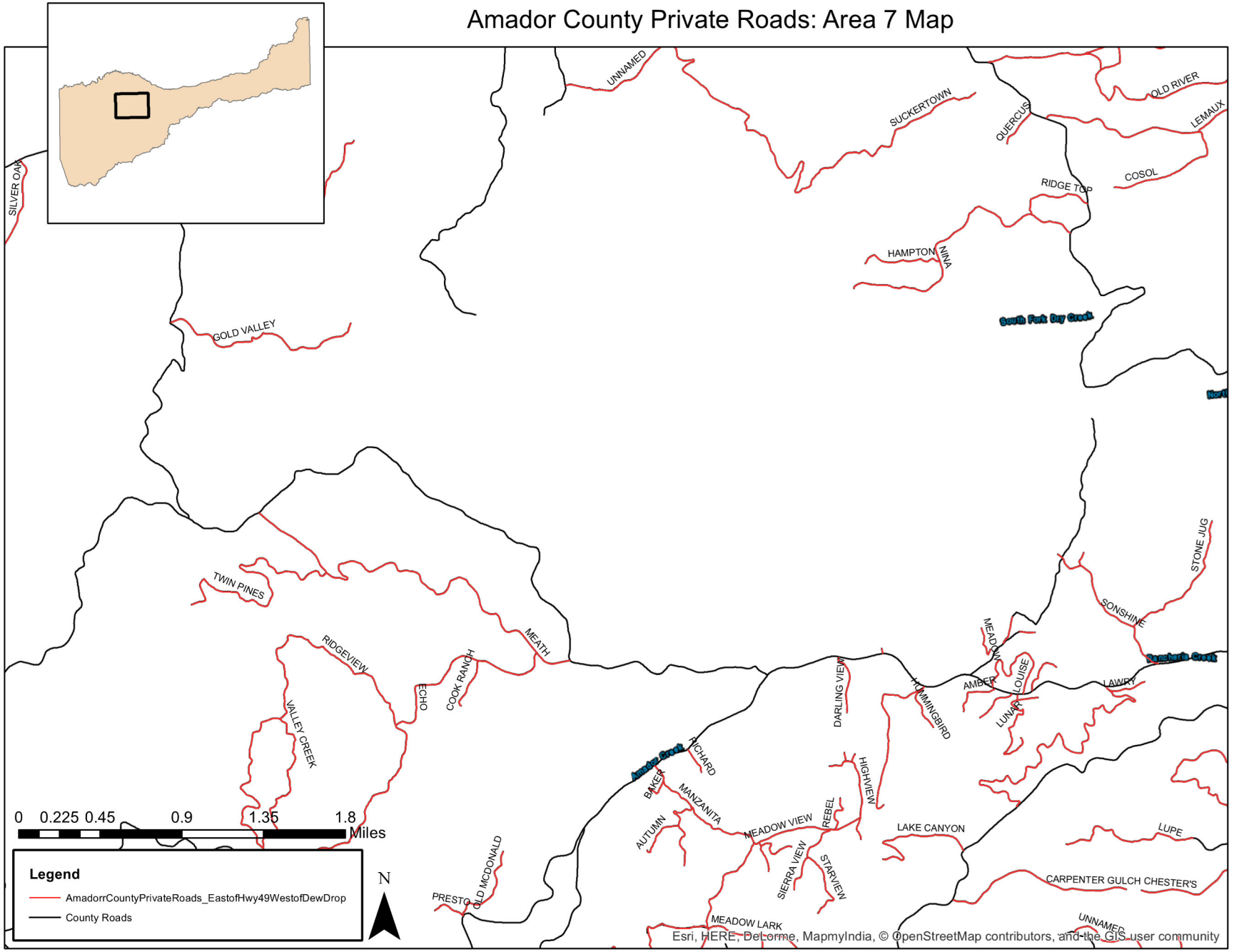
Amador County Private Roads: Area 7 Map



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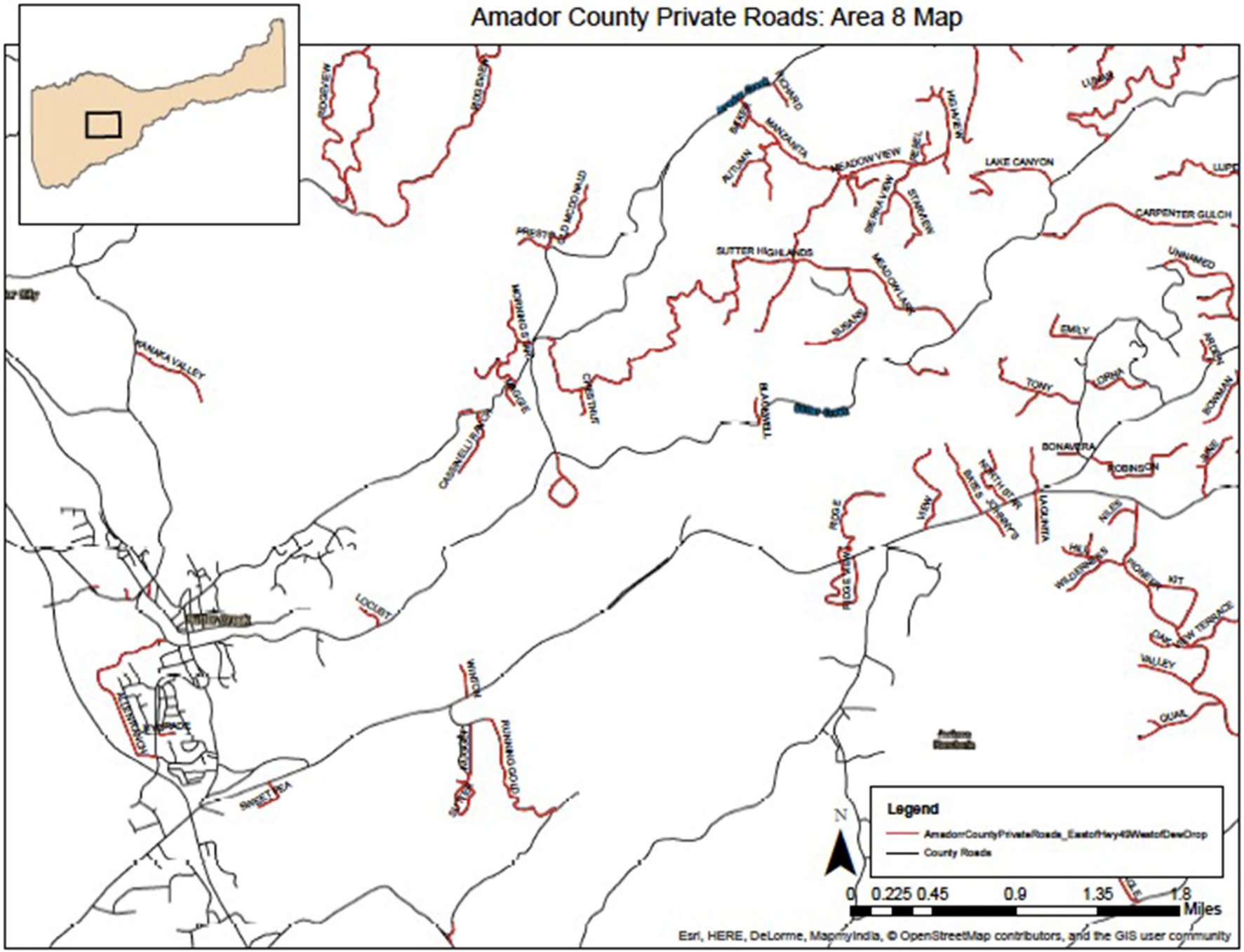

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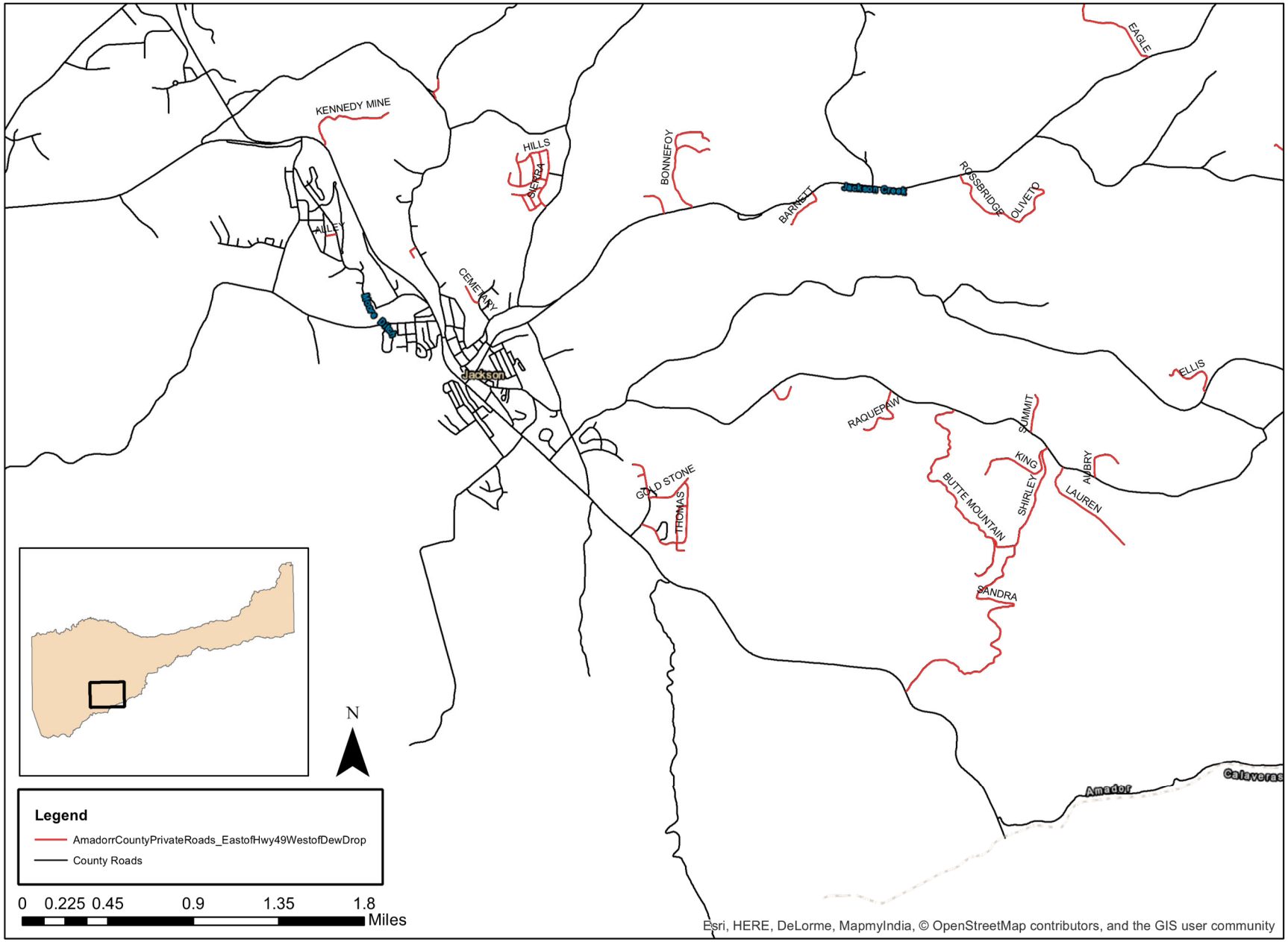
Amador County Private Roads: Area 9 Map



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Proposed Project Activities:

Before and after photos of similar Ingress/Egress Projects completed by the AFSC in 2020

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Red Hill Mine Road, Pine Grove:

Before



After



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Red Hill Mine Road, Pine Grove

Before



After



Tanyard Hill Road, Pine Grove

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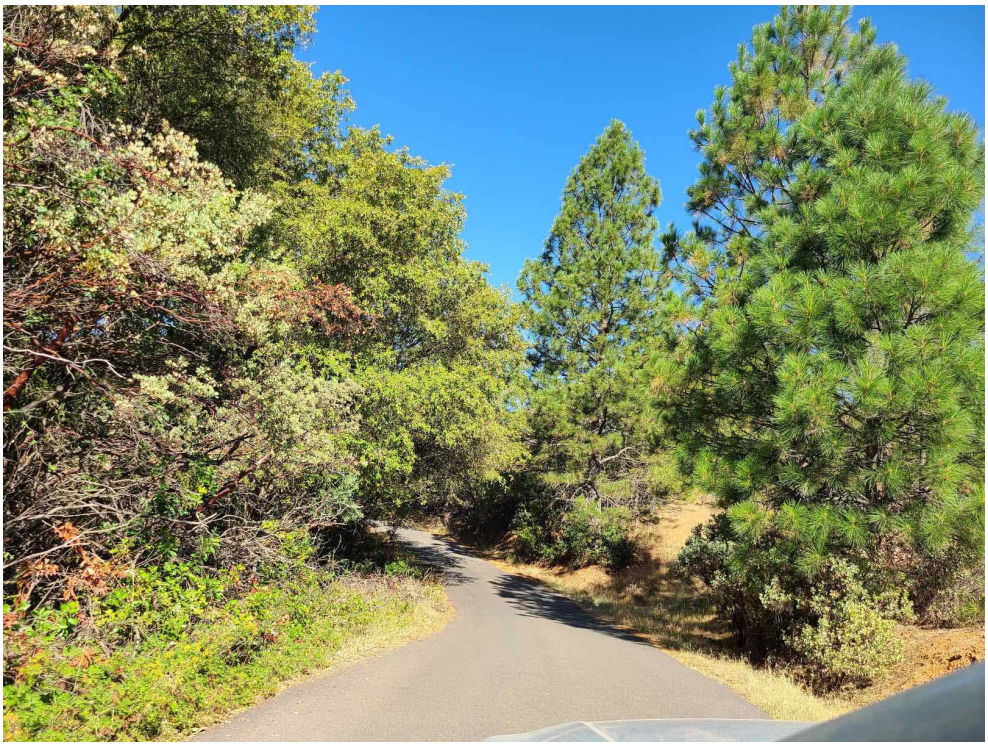
Before



After



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Conclusion of the Mitigated Negative Declaration

ENVIRONMENTAL PERMITS

No environmental permits are required for this project.

MITIGATION MEASURES

The following 7 (seven) mitigation measures will be implemented by CAL FIRE to avoid or minimize environmental impacts. Implementation of these mitigation measures will reduce the environmental impacts of the proposed project to a less than significant level.

Mitigation Measure #1: Biological

Foothill Yellow-Legged Frog (FYLF)

To prevent any impacts to the FYLF, all project areas that are within 50 feet of perennial streams will have a pre-operations survey conducted within one week of impacts to detect for the presence of frogs. If any frog—of any species—is encountered within the project area, project operations will stop and a qualified Wildlife Biologist will be consulted to provide verification of species and potential protection measures. The results of this consultation will be provided to the Department of Fish and Wildlife, as appropriate.

In addition, the FYLF will be afforded additional protection by the establishment of protective streamside buffers. All perennial watercourses will have a 50-foot protective buffer established on each side of the channel. This buffer will be identified on the ground with flagging, and its location will be made known to contractors working in the area prior to the start of operations in the area. In this protective buffer, no ground-based equipment will be allowed. Any accidental deposits of slash, chips, or other woody debris will be removed from the watercourse channel immediately.

Mitigation Measure #2: Biological

Western Pond Turtle

To prevent any possible impact to the Western pond turtle, all project areas that are within 100 feet of any occurrence in the Plymouth/Shenandoah area will have a pre-operations survey for this species. If any turtle of any species is encountered, project operations will stop, and a qualified Wildlife Biologist will be consulted. The Wildlife Biologist will propose any necessary pre-operations protection measures.

Mitigation Measure #3: Biological

Non-listed Animal Species (associated with caves and mine shafts)

9 occurrences were listed on CNDDB for non-listed species that are generally associated with caves and abandoned mine shafts. These occurrences were for: Rudolph's cave harvestman, Grubb's cave harvestman, Grady's cave amphipod, and Townsend's Big-Eared Bat. The occurrences listed were in abandoned mine shafts in the Volcano and Sutter Creek areas. No project-related activities will occur within at least 1 mile of any of these occurrences. If any additional mine shafts are discovered within 100 feet of any proposed project area, a pre-operations survey for these species within those caves will be made by a qualified

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Wildlife Biologist. If any of these species are encountered, the Wildlife Biologist will propose any necessary pre-operations protection measures.

Mitigation Measure #4: Biological

Raptors

The project area contains habitat suitable for raptor nesting. CDFW recommends that operations be timed to occur outside of the critical period for these species (March 1 – September 1). If that is not possible, the following Mitigation Measure will be implemented:

a) If operations will commence during the critical period a walk-through survey of the project area will occur no more than 2 weeks prior to commencing operations to look for signs of nest occupancy. This walk-through survey will include examination of any canopy trees for stick nests, and/or the presence of whitewash or prey remains or any sighting/vocalization of a territorial raptor.

b) If an active raptor or owl nest and/or a raptor exhibiting territorial actions (calling, swooping, following the surveyor, or returning to the approximate area of discovery) is discovered prior to commencing operations the following measures should apply.

   (1) If a listed species is discovered prior to, or during operations, the operator will cease operations within one-quarter mile (if possible) of the discovery and contact CDFW Timber Staff for consultation.

   (2) If an active nest of a non-listed raptor is discovered during operations, a buffer will be established at a distance that minimizes disturbance. The nest shall be protected from human disturbance and access should be restricted. These buffers will be flagged as Special Treatment Areas.

Mitigation Measure #5: Historic Era Historical Resources

If a significant historic era historical resource is discovered during operations, the RPF and CAL FIRE Project Manager will follow all procedures for post-approval discovery of cultural resources pursuant to the Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19). Evaluation of site significance shall follow the guidelines as described under that section heading on page 24 of the CRRP (2020).

Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting

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Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

Hand clearing of significant historic era historical resources shall be permitted under the proposed scope of work and in consultation with the CAL FIRE project manager. Chips may be scattered within historic era resource boundaries.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Mitigation Measure #6: Tribal Cultural Resources

For the purposes of this project, all Native American cultural resources shall be considered significant. According to the IC records search, 70% of the project area has not been surveyed for cultural resources. The RPF will perform pedestrian survey in these project areas to identify Native American cultural resources. The culturally affiliated tribe will be provided the opportunity to attend surveys of treatment areas where the tribe has previously expressed interest.

A minimum of two weeks prior to a survey, United Auburn Indian Community (UAIC or the tribe) will be invited to attend the survey with the archaeologically trained resource professional and/or qualified archaeologist, and the tribe will be given the opportunity to interpret the site for the archaeological resource records. Tribal representatives may identify significant native plants or gathering areas that shall not be cleared. Herbicide use shall be avoided within Native American resources.

Mitigation Measure #7: Tribal Cultural Resources

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

If Native American cultural resources are identified through pedestrian survey, the RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Native American cultural resources identified during pedestrian survey will be hand treated pursuant to the proposed scope of work. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators. When a resource is flagged for avoidance by masticators, all flagging must be removed from immediately following completion of work.

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Previously identified Native American cultural resources will be hand treated. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators.

Chipped material will not be scattered within Native American cultural resources boundaries in effort to reduce fuels.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

If any unanticipated Native American archaeological sites or features are discovered during the conduct of operations, all operations in the area will cease immediately, the area will be flagged for avoidance. The RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Mitigation Measure #8: Hydrology and Water Quality

To reduce any potential adverse impacts to water quality, no equipment will operate off of the road prism in proximity to any watercourse or water body. This will result in no significant ground disturbance throughout the project area. No significant vegetation will be removed in proximity to any watercourse or water body other than that vegetation which is located within 20 feet of the road. No vegetation, masticated vegetation, or chips from this project will be allowed to enter any watercourse channel in or adjacent to this project area. Any accidental deposits of vegetation from this project that is deposited into watercourse channels will be removed immediately.

SUMMARY OF FINDINGS

This IS-MND has been prepared to assess the project's potential effects on the environment and an appraisal of the significance of those effects. Based on this IS-MND, it has been determined that the proposed project will not have any significant effects on the environment after implementation of mitigation measures. This conclusion is supported by the following findings:

1. The proposed project will have no effect related to Agricultural Resources, Energy, Geology and Soils, Land Use Planning, Mineral Resources, Population and Housing, Public Services, Recreation, Utilities and Service Systems, Wildfire, and Mandatory Findings of Significance.

2. The proposed project will have a less than significant impact on Aesthetics, Air Quality, Greenhouse

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Gas Emissions, Hazards and Hazardous Materials, Noise, and Transportation.

3. Mitigation is required to reduce potentially significant impacts related to Biological Resources, Cultural Resources, Hydrology and Water Quality, and Tribal Cultural Resources.

The Initial Study-Environmental Checklist included in this document discusses the results of resource-specific environmental impact analyses that were conducted by the Department. This initial study revealed that potentially significant environmental effects could result from the proposed project. However, CAL FIRE revised its project plans and has developed mitigation measures that will eliminate impact or reduce environmental impacts to a less than significant level. CAL FIRE has found, in consideration of the entire record, that there is no substantial evidence that the proposed project as currently revised and mitigated would result in a significant effect upon the environment. The IS-MND is therefore the appropriate document for CEQA compliance.

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INITIAL STUDY-ENVIRONMENTAL CHECKLIST

The environmental factors checked below would be potentially affected by this project involving at least one impact that is a potentially significant impact as indicated by the checklist on the following pages.

Environmental Factors Potentially Affected

☒ Aesthetics	☒ Greenhouse Gas Emissions	☐ Public Services
☐ Agriculture Resources	☒ Hazards & Hazardous Materials	☐ Recreation
☒ Air Quality	☒ Hydrology and Water Quality	☒ Transportation
☒ Biological Resources	☐ Land Use and Planning	☐ Utilities and Service Systems
☒ Cultural Resources	☐ Mineral Resources	☐ Wildfire
☐ Energy	☒ Noise	☐ Mandatory Findings of Significance
☐ Geology and Soils	☐ Population and Housing	

Determination

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION would be prepared.

☒ I find that although the proposed project COULD have a significant effect on the environment, there WOULD NOT be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION would be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project COULD have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

DocuSigned by:
John Melvin
856AFE63A614422...

John Melvin
Assistant Deputy Director
California Department of Forestry and Fire Protection

9/9/2022
Date

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Environmental Checklist and Discussion

AESTHETICS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Except as provided in Public Resources Code § 21099, would the project have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐

The project is not expected to have a substantial adverse effect on a scenic vista. The fuels reduction project will result in a visual change to roadside vegetation, and this reduction will only be within 20 feet of the road edge. All larger, vigorous trees will be left in-place. The remainder of the vegetation outside of the 20-foot zone will be unaffected by this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Except as provided in Public Resources Code § 21099, would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒

The project is not expected to substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway. No portion of this project is on, adjacent to, or visible from a state scenic highway.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Except as provided in Public Resources Code § 21099, in non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐

The project is not expected to substantially degrade the existing visual character or quality of the site and its surroundings.

The fuels reduction project will result in a visual change to roadside vegetation, and this reduction will only be within 20 feet of the road edge. All larger, vigorous trees will be left in-place. The remainder of the vegetation outside of the 20-foot zone will be unaffected by this project. There will be no conflict with applicable zoning laws or ordinances, and this project is consistent with all current zoning and other regulations.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Except as provided in Public Resources Code § 21099, would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

The project is not expected to create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.

The removal of vegetation within 20 feet of the road edge will improve daytime and nighttime visibility for those travelling on the roads but will not create any new source of substantial light or glare from those roads that could be viewed in adjacent areas.

AGRICULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒

No impacts to agricultural resources are expected to occur. The project will not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use. The project area does not include any farmlands or agricultural lands.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	☒

No impacts to agricultural resources are expected to occur. The project does not conflict with existing zoning for agricultural use or a Williamson Act contract. The project area does not include any farmlands or agricultural lands.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code §12220(g)), timberland (as defined by Public Resources Code §4526), or timberland zoned Timberland Production (as defined by Government Code §51104(g))?	☐	☐	☐	☒

The project does not conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code §12220(g)), timberland (as defined by Public Resources Code §4526), or timberland zoned Timberland Production (as defined by Government Code §51104(g)). There would be no impact on any lands zoned Timberland Production.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒

No impacts to forest lands are expected to occur. The project would not result in the loss of forest land or conversion of forest land to non-forest use. This project involves only the minor removal of vegetation along roads.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Would the project involve other changes in the existing environment, which, due to their location or nature, could result in conversion of farmland to non-agricultural use?	☐	☐	☐	☒

No impacts to agricultural resources are expected to occur. The project does not involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use. This project involves only the minor removal of vegetation along roads.

AIR QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐

The project is not expected to conflict with or obstruct implementation of the applicable air quality plan. No long-term impact on air quality will result from this project. The Amador Air District Rulebook was reviewed for this project. Specifically, Rule #218 "Fugitive Dust Emissions" was reviewed for applicable provisions that could apply to this project. For this project as proposed, no appreciable fugitive dust would be generated that would require notification to the Amador Air District. No burning will be conducted under this project. Additionally, no special provisions listed in this section would apply to this project. For this project as proposed no significant adverse impact is anticipated to air quality.

The Amador Air District Rules can be found at: https://www.amadorgov.org/services/amador-air-district/air-district-rules

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐

No long-term impact on air quality will result from this project. The project is not expected to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors). All equipment used on this project would comply with California emission standards for equipment and vehicles, which will minimize the quantity of exhaust emissions from that

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equipment. Furthermore, any impacts to air quality from exhaust and fugitive dust will be short-lived in any location, and these impacts will last only as long as operations are conducted in those areas.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☐	☒

No long-term impact on air quality will result from this project. The project is not expected to expose sensitive receptors to substantial pollutant concentrations.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

The project is not expected to result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. No long-term impact on air quality will result from this project. All equipment used on this project would comply with California emission standards for equipment and vehicles, which will minimize the quantity of exhaust emissions from that equipment. Furthermore, any impacts to air quality from exhaust and fugitive dust will be short-lived in any location, and these impacts will last only as long as operations are conducted in those areas.

BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?	☐	☒	☐	☐

The project is not expected to have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service.

A California Department of Fish and Wildlife's Natural Diversity Database (CNDDB) query was run on 1/27/2021. The results of this query, the location of the occurrence, and any associated protection measures are as follows:

A total of 44 Occurrences were listed on the CNDDB. Of these Occurrences, nine were for federally- or state-listed species, as listed below:

<u>Federally Listed or State Listed Species</u>

<u>Valley Elderberry Longhorn Beetle.</u> 1 occurrence. (west of Highway 49, outside Jackson, on French Bar Road). Protection: none needed. This is both well outside the project area, and below the lowest elevation of

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the project. USFWS guidance suggests that most occurrences of the VELB are at 500 foot elevation and below, which again, is below the elevation of this project. No additional protections required.

Tricolored Blackbird. 2 occurrences. (Drytown, and at Pardee Reservoir). Both occurrences are outside the project area, with the Pardee Reservoir occurrence approximately 8 miles west of the project perimeter; the Drytown occurrence was approximately 1 mile west of the project area. No habitat or potential habitat for the Tricolored Blackbird exists on the project area.

Foothill Yellow-Legged Frog (FYLF): 6 occurrences. (2 occurrences in the Plymouth area, one occurrence in Sutter Creek, one on the Middle Bar Road, one in proximity to Pardee Reservoir, and one on Else Creek in Pine Grove.) The Sutter Creek and Else Creek occurrences were adjacent to—or within—the proposed project area. To prevent any impacts to the FYLF, all operations associated with this project that are within 50 feet of perennial water or watercourses will be surveyed prior to operations for the presence of frogs. If any frog—of any species—is encountered within the project area, a qualified Wildlife Biologist will be consulted to provide verification of species and potential protection measures. The results of this consultation will be provided to the Department of Fish and Wildlife, as appropriate.

In addition, the FYLF will be afforded additional protection by the establishment of protective streamside buffers. All perennial watercourses will have a 50-foot protective buffer established on each side of the channel. This buffer will be identified on the ground with flagging, and its location will be made known to contractors working in the area prior to the start of operations in the area. In this protective buffer, no ground-based equipment will be allowed. Any accidental deposits of slash, chips, or other woody debris will be removed from the watercourse channel immediately.

Habitat /or potential habitat for the FYLF exists in proximity to the project area. However, given the pre-operations survey (listed above), and the requirement that all equipment and vehicles must remain on the established road prism, the project is not expected to have a substantial adverse effect on FYLF.

Non-Listed Species

Non-listed Plant Species: Ten occurrences were listed on CNDDB for non-listed plant species. These included Red Hills soaproot, Tuolumne button-celery, and prairie wedge grass. In every case, the occurrences were outside the project area. No additional protections required.

Non-listed Animal Species (outside of cave/mine shaft habitats): 14 occurrences were listed for non-listed animal species that normally occur outside of caves and mines. These included one occurrence for the Tulare cuckoo wasp, 3 occurrences for the North American porcupine, and 10 occurrences for the western pond turtle. After reviewing the locations of these occurrences, it was determined that the Tulare cuckoo wasp and North American porcupine sightings were well outside the project area, and no additional protections are required. To prevent any possible impact to the Western pond turtle, all project areas that are within 100 feet of any occurrence in the Plymouth/Shenandoah area will have a pre-operations survey for this species. If any turtle of any species is encountered, a qualified Wildlife Biologist will be consulted. The Wildlife Biologist will propose any necessary pre-operations protection measures.

Non-listed Animal Species (associated with caves and mine shafts): 9 occurrences were listed on CNDDB for non-listed species that are generally associated with caves and abandoned mine shafts. These occurrences were for: Rudolph's cave harvestman, Grubb's cave harvestman, Grady's cave amphipod, and Townsend's Big-Eared Bat. The occurrences listed were in abandoned mine shafts in the Volcano and Sutter Creek areas. No project-related activities will occur within at least 1 mile of any of these occurrences. If any additional mine shafts are discovered within 100 feet of any proposed project area, a pre-operations survey for these species within those caves will be made by a qualified Wildlife Biologist. If any of these species are encountered, the Wildlife Biologist will propose any necessary pre-operations protection measures.

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Pursuant to PRC 4123, a consultation with California Department of Fish and Wildlife was initiated on January 29, 2022. An email was sent to CDFW Senior Environmental Scientist Specialist, Amy Kennedy requesting any concerns regarding the proposed project. A response from Ms. Kennedy was received February 9, 2022.

The following mitigations have been incorporated into this IS/MND to address CDFW comments and issues:

Mitigation Measure #1: Biological- Foothill Yellow-Legged Frog (FYLF)

To prevent any impacts to the FYLF, all project areas that are within 50 feet of perennial streams will have a pre-operations survey conducted within one week of impacts to detect for the presence of frogs. If any frog—of any species—is encountered within the project area, project operations will stop and a qualified Wildlife Biologist will be consulted to provide verification of species and potential protection measures. The results of this consultation will be provided to the Department of Fish and Wildlife, as appropriate.

In addition, the FYLF will be afforded additional protection by the establishment of protective streamside buffers. All perennial watercourses will have a 50-foot protective buffer established on each side of the channel. This buffer will be identified on the ground with flagging, and its location will be made known to contractors working in the area prior to the start of operations in the area. In this protective buffer, no ground-based equipment will be allowed. Any accidental deposits of slash, chips, or other woody debris will be removed from the watercourse channel immediately.

Mitigation Measure #2: Biological- Western Pond Turtle

To prevent any possible impact to the Western pond turtle, all project areas that are within 100 feet of any occurrence in the Plymouth/Shenandoah area will have a pre-operations survey for this species. If any turtle of any species is encountered, project operations will stop, and a qualified Wildlife Biologist will be consulted. The Wildlife Biologist will propose any necessary pre-operations protection measures.

Mitigation Measure #3: Biological- Non-listed Animal Species (associated with caves and mine shafts)

9 occurrences were listed on CNDDB for non-listed species that are generally associated with caves and abandoned mine shafts. These occurrences were for: Rudolph's cave harvestman, Grubb's cave harvestman, Grady's cave amphipod, and Townsend's Big-Eared Bat. The occurrences listed were in abandoned mine shafts in the Volcano and Sutter Creek areas. No project-related activities will occur within at least 1 mile of any of these occurrences. If any additional mine shafts are discovered within 100 feet of any proposed project area, a pre-operations survey for these species within those caves will be made by a qualified Wildlife Biologist. If any of these species are encountered, the Wildlife Biologist will propose any necessary pre-operations protection measures.

Mitigation Measure #4: Biological- Raptors

The project area contains habitat suitable for raptor nesting. CDFW recommends that operations be timed to occur outside of the critical period for these species (March 1 – September 1). If that is not possible, the following Mitigation Measure will be implemented:

a) If operations will commence during the critical period a walk-through survey of the project area will occur no more than 2 weeks prior to commencing operations to look for signs of nest occupancy. This walk-through survey will include examination of any canopy trees for stick nests, and/or the presence of whitewash or prey remains or any sighting/vocalization of a territorial raptor.

b) If an active raptor or owl nest and/or a raptor exhibiting territorial actions (calling, swooping, following the surveyor, or returning to the approximate area of discovery) is discovered prior to commencing operations the following measures should apply.

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(1) If a listed species is discovered prior to, or during operations, the operator will cease operations within one-quarter mile (if possible) of the discovery and contact CDFW Timber Staff for consultation.

(2) If an active nest of a non-listed raptor is discovered during operations, a buffer will be established at a distance that minimizes disturbance. The nest shall be protected from human disturbance and access should be restricted. These buffers will be flagged as Special Treatment Areas.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?	☐	☒	☐	☐

The project is not expected to have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service.

Perennial watercourses will have a 50-foot protective buffer established on each side of the channel. This buffer will be identified on the ground with flagging, and its location will be made known to contractors working in the area prior to the start of operations in the area. In this protective buffer, no ground-based equipment will be allowed. Any accidental deposits of slash, chips, or other woody debris will be removed from the watercourse channel immediately.

The following mitigation has been incorporated into this IS/MND and will address potential Hydrology and Water Quality impacts:

Mitigation Measure #8: Hydrology and Water Quality

To reduce any potential adverse impacts to water quality, no equipment will operate off of the road prism in proximity to any watercourse or water body. This will result in no significant ground disturbance throughout the project area. No significant vegetation will be removed in proximity to any watercourse or water body other than that vegetation which is located within 20 feet of the road. No vegetation, masticated vegetation, or chips from this project will be allowed to enter any watercourse channel in or adjacent to this project area. Any accidental deposits of vegetation from this project that is deposited into watercourse channels will be removed immediately.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒

The project is not expected to have any impact on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means. There are no federally protected wetlands on any portion of this project area.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒

The project is not expected to interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.

Native resident or migratory fish will be protected by a 50-foot streamside buffer on all perennial streams which will protect stream channels and riparian habitat. Within this 50-foot buffer, no equipment operations are allowed. No impacts are anticipated to any terrestrial species, as this project will involve only the minor removal of roadside vegetation up to 20 feet on each side of the road. The minor scale of this project will not affect any wildlife species or any migratory wildlife corridor.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒

The project is not expected to conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. No local tree preservation policies exist in Amador County.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

The project is not expected to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. No Habitat Conservation Plans exist on any portion of this project area.

CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	☐	☒	☐	☐

This project will not cause substantial adverse change in the significance of a historical resource pursuant to § 15064.5 assuming all work performed will adhere to the scope of work as proposed, and with mitigation incorporated.

Steps taken to reduce potential impacts to cultural resources include:

- **Consultation with CAL FIRE Associate State Archeologist Brian Denham on scope of work**

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- **Consultation with UAIC**
- **Information Center records check**
- **Mitigation Measures 5, 6, and 7**

Consultation with CAL FIRE archeologist:
Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Consultation with UAIC:
Notification letters were sent to tribes listed on the AB52 Native American Heritage Commission's Tribal Contact List for Amador County. There is a total of 18 tribes on the NAHC Tribal Contact List. The notification letters were mailed to these 18 tribes on February 18, 2022. One response from United Auburn Indian Community (UAIC or the tribe) was received on March 9, 2022. On April 19, 2022, the UAIC initiated an AB 52 consultation with the project proponent, the Amador Fire Safe Council and CAL FIRE. This consultation process continued into June and July 2022 and concluded on August 11, 2022. All suggested mitigations made by UAIC have been incorporated into the Mitigation Measures incorporated in this IS/MND.

Information Records Check
A records search was completed by the North Central Information Center (IC) on 2/16/2018. The results from the search are below:
"Previous Archaeological Investigations: It appears approximately 30% of the AmCo Non-County Transportation System/Evacuation Routes search area has been previously surveyed for cultural resources.

Native American-Period Cultural Resources: The AmCo Non-County Transportation System/Evacuation Routes search area contains forty-six (46) recorded Native American-period cultural resources listed within the California Historical Resources Information System (CHRIS). Given the extent of known cultural resources and the environmental setting, there is high potential for Native American-period cultural resources in the AmCo Non-County Transportation System/Evacuation Routes project area.

Historic-Period Cultural Resources: The AmCo Non-County Transportation System/Evacuation Routes search area contains two hundred thirty-eight (238) recorded historic-period cultural resources listed within the California Historical Resources Information System (CHRIS). Given the extent of known cultural resources and the patterns of local land use, there is high potential for historic-period cultural resources in the AmCo Non-County Transportation System/Evacuation Routes project area."

The IC center adds a 1/16th mile buffer to CAL FIRE records searches. Given that the project area is limited to 20' on each side of roads, most of these resources fall within the IC buffer, but not within the project area. CAL FIRE archaeologist Brian Denham narrowed the search results using GIS to select the resources that are mapped within the project area; the results are a total of 51 cultural resources. Seven contain Native American cultural materials. General totals are 4 Native American resources (NA), 3 Multi-Component resources (MC), and 44 historic resources (H).

The following mitigations have been incorporated into this IS/MND and will address potential Historical Resource impacts:

Mitigation Measure #5: Historic Era Historical Resources

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If a significant historic era historical resource is discovered during operations, the RPF and CAL FIRE Project Manager will follow all procedures for post-approval discovery of cultural resources pursuant to the Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19). Evaluation of site significance shall follow the guidelines as described under that section heading on page 24 of the CRRP (2020).

Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

Hand clearing of significant historic era historical resources shall be permitted under the proposed scope of work and in consultation with the CAL FIRE project manager. Chips may be scattered within historic era resource boundaries.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Mitigation Measure #6: Tribal Cultural Resources

For the purposes of this project, all Native American cultural resources shall be considered significant. According to the IC records search, 70% of the project area has not been surveyed for cultural resources. The RPF will perform pedestrian survey in these project areas to identify Native American cultural resources. The culturally affiliated tribe will be provided the opportunity to attend surveys of treatment areas where the tribe has previously expressed interest.

A minimum of two weeks prior to a survey, United Auburn Indian Community (UAIC or the tribe) will be invited to attend the survey with the archaeologically trained resource professional and/or qualified archaeologist, and the tribe will be given the opportunity to interpret the site for the archaeological resource records. Tribal representatives may identify significant native plants or gathering areas that shall not be cleared. Herbicide use shall be avoided within Native American resources.

Mitigation Measure #7: Tribal Cultural Resources

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

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If Native American cultural resources are identified through pedestrian survey, the RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Native American cultural resources identified during pedestrian survey will be hand treated pursuant to the proposed scope of work. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators. When a resource is flagged for avoidance by masticators, all flagging must be removed from immediately following completion of work.

Previously identified Native American cultural resources will be hand treated. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators.

Chipped material will not be scattered within Native American cultural resources boundaries in effort to reduce fuels.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

If any unanticipated Native American archaeological sites or features are discovered during the conduct of operations, all operations in the area will cease immediately, the area will be flagged for avoidance. The RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	☐	☒	☐	☐

This project will not cause substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5 assuming all work performed will adhere to the scope of work as proposed, and with mitigation incorporated.

The following mitigations have been incorporated into this IS/MND and will address potential Archaeological Resource impacts:

Mitigation Measure #5: Historic Era Historical Resources

If a significant historic era historical resource is discovered during operations, the RPF and CAL FIRE Project Manager will follow all procedures for post-approval discovery of cultural resources pursuant to the Cultural

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Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19). Evaluation of site significance shall follow the guidelines as described under that section heading on page 24 of the CRRP (2020).

Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

Hand clearing of significant historic era historical resources shall be permitted under the proposed scope of work and in consultation with the CAL FIRE project manager. Chips may be scattered within historic era resource boundaries.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Mitigation Measure #6: Tribal Cultural Resources

For the purposes of this project, all Native American cultural resources shall be considered significant. According to the IC records search, 70% of the project area has not been surveyed for cultural resources. The RPF will perform pedestrian survey in these project areas to identify Native American cultural resources. The culturally affiliated tribe will be provided the opportunity to attend surveys of treatment areas where the tribe has previously expressed interest.

A minimum of two weeks prior to a survey, United Auburn Indian Community (UAIC or the tribe) will be invited to attend the survey with the archaeologically trained resource professional and/or qualified archaeologist, and the tribe will be given the opportunity to interpret the site for the archaeological resource records. Tribal representatives may identify significant native plants or gathering areas that shall not be cleared. Herbicide use shall be avoided within Native American resources.

Mitigation Measure #7: Tribal Cultural Resources

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

If Native American cultural resources are identified through pedestrian survey, the RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the

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appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Native American cultural resources identified during pedestrian survey will be hand treated pursuant to the proposed scope of work. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators. When a resource is flagged for avoidance by masticators, all flagging must be removed from immediately following completion of work.

Previously identified Native American cultural resources will be hand treated. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators.

Chipped material will not be scattered within Native American cultural resources boundaries in effort to reduce fuels.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

If any unanticipated Native American archaeological sites or features are discovered during the conduct of operations, all operations in the area will cease immediately, the area will be flagged for avoidance. The RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

This project will not disturb any human remains, including those interred outside of formal cemeteries, assuming all work performed will adhere to the scope of work as proposed, and with mitigation incorporated.

The following mitigations have been incorporated into this IS/MND and will address potential impacts to human remains. Mitigation Measure #5 relates to Historic Era Historical Resources and Mitigation Measure #7 relates to Tribal Cultural Resources:

Mitigation Measure #5: Historic Era Historical Resources

If a significant historic era historical resource is discovered during operations, the RPF and CAL FIRE Project Manager will follow all procedures for post-approval discovery of cultural resources pursuant to the Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19). Evaluation of site significance shall follow the guidelines as described under that section heading on page 24 of the CRRP (2020).

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Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

Hand clearing of significant historic era historical resources shall be permitted under the proposed scope of work and in consultation with the CAL FIRE project manager. Chips may be scattered within historic era resource boundaries.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Mitigation Measure #7: Tribal Cultural Resources

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

If Native American cultural resources are identified through pedestrian survey, the RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Native American cultural resources identified during pedestrian survey will be hand treated pursuant to the proposed scope of work. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators. When a resource is flagged for avoidance by masticators, all flagging must be removed from immediately following completion of work.

Previously identified Native American cultural resources will be hand treated. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators.

Chipped material will not be scattered within Native American cultural resources boundaries in effort to reduce fuels.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.

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No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

If any unanticipated Native American archaeological sites or features are discovered during the conduct of operations, all operations in the area will cease immediately, the area will be flagged for avoidance. The RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

ENERGY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒

The project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

The project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to California Geological Survey Special Publication 42.)	☐	☐	☐	☒

The project is not expected to directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent

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Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault (refer to California Geological Survey Special Publication 42.) This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?	☐	☐	☐	☒

The project is not expected to directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?	☐	☐	☐	☒

The project is not expected to directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?	☐	☐	☐	☒

The project is not expected to directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Would the project result in substantial soil erosion or the loss of topsoil?	☐	☐	☐	☒

The project will not result in substantial soil erosion or the loss of topsoil. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project. All cut vegetation will be chipped on-site, with the chips blown back or scattered over the project area. This layer of chips will further prevent soil erosion or loss of topsoil.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☐	☒

The project is not located on a geologic unit or soil that is known to be unstable, or is thought would become unstable because of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
g) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?	☐	☐	☐	☒

The project is not known to be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
h) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒

The project is not known to impact soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water. This project involves the minor removal of roadside vegetation. No excavation or ground-disturbing activities will be conducted as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
i) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☐	☒

The project is not expected to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

GREENHOUSE GAS EMISSIONS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐

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The project is not expected to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment. On average, the combined aboveground carbon storage of California forests is about 40 tons/acre (Christensen et al. 2007). In California the largest forest carbon stock pools is in soil (45 percent), followed by biomass (30 percent), and forest floor and coarse woody debris (20 percent) (Birdsey and Lewis 2002). At some point the carbon stored in the above ground portion of the plants will be released through respiration, decay or combustion. Although some of the carbon will be added to the soil most will be released to the atmosphere.

Over time the carbon that is stored in vegetation will be released as part of the normal carbon cycle. Carbon will also be sequestered overtime as new vegetation grows if the land remains productive.

The project will reduce fuels along various private roads in Amador County, but there will be no significant impacts to larger vegetation or the general overstory forest canopy. No alterations of general forest stand-types are anticipated. No significant changes in Greenhouse Gas Emissions are anticipated as a result of the minor vegetation-related activities proposed in this project.

The project will utilize hand-crews with chainsaws and chippers to reduce road-side vegetation. The amount of direct emissions from this type of operation will be minimal. Additional minor emissions will occur as a result of crew transportation vehicles and other support vehicles, such as mechanic's vehicles and service vehicles. The overall impacts from equipment and vehicles on Greenhouse Gases will be minimal.

Utilizing a sequestration rate of 2 Tons/Ac/Year (which is at the low-end of the 2-6 Tons/Ac/Yr range for stocked "Sierra mixed conifer"), the results show that the "Years Required for Complete Sequestration" is 0.7. This indicates that the relatively low carbon emissions due to this project will be rapidly offset by increased growth of a future Sierra mixed conifer stand.

The Greenhouse Gas Analysis is included below:

GREENHOUSE GAS ANALYSIS

General Information

Project Name	AFSC Private Road Ingress/Egress Project	Blue = Variable Inputs
Project Acres	1336.5	Black = Equation Produced Data
Total Project Days	334	Red = Constants

Exhaust CO_2 Emissions

Total Round Trip Miles	40
# of Chainsaws	5
# of Chippers	2
Diesel Kilograms/Gal	10.15
Gas Kilograms/Gal	8.91
Pounds of CO_2/Kilogram	2.20462
One Chipper Gas Gal/day	10
Crew Bus MPG	8
Chainsaw Gas Gal/Day/Saw	1.5

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Conversion Factor Pounds to Tons	2000
Conversion Factor Tons of Biomass to Tons CO_2	1.65

Crew Bus Total Miles	13,360	Chainsaws Total Gal Gas Needed	2505
Total Gal of Diesel Needed	1,670	Chipper Total Gal Gas Needed	6680
Total Kilograms of Diesel Produced	16,951	Total Kilograms of Gas Produced	29,000
Diesel Total Pounds of CO_2 Produced	37,369	Gas Total Pounds of CO_2 Produced	63,933
Diesel Total Tons CO_2	19	Gas Total Tons of CO_2 Produced	32

Smoke or Decay CO_2 Emissions

Est. Biomass Tons Per Acre Removed (Fuel Model)	3
Biomass Total Tons Removed	4009.5
Total Tons of CO_2	6616

Final Outputs

Total Tons of CO_2 for Project	6666
Sequestration Rate 2 - 6 Tons/Ac/Yr (stocked Sierra mixed conifer)	2
Total Sequestration Rate/Yr	9809.91
Years Required for Complete Sequestration	0.7

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒

The project is not expected to conflict with an applicable plan, policy or regulation adopted for reducing the emissions of greenhouse gases.

HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐

The project is not expected to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

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Herbicides may be used for the maintenance of treated areas. All activities involving the transportation or use of herbicides will abide by the regulatory process established by the State of California, Department of Pesticide Regulations and the Amador County Agriculture Department.

A California Licensed Pest Control Advisor (PCA) will prepare a recommendation for the project. All herbicides prescribed for use by the PCA will be registered for use in California. All herbicide applications for this project will be conducted using hand-backpack equipment.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment?	☐	☐	☐	☒

The project is not expected to create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment. No hazardous materials will be used or transported as part of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒

The project is not expected to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. There are no existing or proposed schools within one-quarter mile of any portion of the project area.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒

The project is not located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 which thus, would create a significant hazard to the public or the environment. The project is not located on any listed hazardous materials sites.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒

The project is not located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport and thus the project would not result in a safety hazard for people residing or working in the project area.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒

The project is not expected to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The reduction of roadside vegetation along private roads will result in more efficient ingress of emergency vehicles and egress of evacuated residents in the event of a fire.
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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	☐	☐	☐	☒

The project is not expected to expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires. The reduction of roadside vegetation along private roads will result in more efficient ingress of emergency vehicles and egress of evacuated residents in the event of a fire. This project will also increase defensible space along private roads to effectively fight fires from the roads and will reduce roadside fuels to slow the spread of a fire started in or adjacent to the roadway.

HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☒	☐	☐

The project is not expected to violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality.

Any accidental deposits of vegetation from this project that is deposited into watercourse channels will be removed immediately.

The California Regional Water Quality Control Board was sent notification about the project by email dated January 29, 2022. On February 14, 2022, California Regional Water Quality Control Board responded by email and indicated that due to the nature of this project, the project will fall under Category 1 of the Regional Water Quality Control Board General Order, which covers projects that are a low threat to water quality.

The following mitigation has been incorporated into this IS/MND and will address potential impacts to Hydrology and Water Quality:

Mitigation Measure #8: Hydrology and Water Quality

To reduce any potential adverse impacts to water quality, no equipment will operate off of the road prism in proximity to any watercourse or water body. This will result in no significant ground disturbance throughout the project area. No significant vegetation will be removed in proximity to any watercourse or water body other than that vegetation which is located within 20 feet of the road. No vegetation, masticated vegetation, or chips

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from this project will be allowed to enter any watercourse channel in or adjacent to this project area. Any accidental deposits of vegetation from this project that is deposited into watercourse channels will be removed immediately.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☐	☒

The project is not expected to substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin. This project involves only the minor removal of vegetation along roads and will have no effect on groundwater supplies.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial on- or off-site erosion or siltation?	☐	☐	☐	☒

The project is not expected to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial on- or off-site erosion or siltation. This project involves only the minor removal of vegetation along roads and will have no effect on erosion or siltation.

The project is not expected to adversely impacts the waters of the state. Perennial watercourses will have a 50-foot protective buffer established on each side of the channel. This buffer will be identified on the ground with flagging, and its location will be made known to contractors working in the area prior to the start of operations in the area. In this protective buffer, no ground-based equipment will be allowed. Any accidental deposits of slash, chips, or other woody debris will be removed from the watercourse channel immediately. This project will result in no impacts to riparian vegetation.

A 1600 Lake and Streambed Alteration Agreement (LSAA) will not be required for any portion of this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would result in on- or off-site flooding?	☐	☐	☐	☒

The project is not expected to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would result in on- or off-site

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flooding. This project involves only the minor removal of vegetation along roads and will have no effect on streams, rivers, or surface runoff.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☐	☒

The project will not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. This project involves only the minor removal of vegetation along roads and will have no effect on streams, rivers, or surface runoff.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would impede or redirect flows?	☐	☐	☐	☒

The project is not expected to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would impede or redirect flows. This project involves only the minor removal of vegetation along roads and will have no effect on the drainage pattern of the site

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
g) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?	☐	☐	☐	☒

The project is not located in a flood hazard, tsunami, or seiche zone.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
h) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

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The project is not expected to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

The California Regional Water Quality Control Board was sent notification about the project by email dated January 29, 2022. On February 14, 2022, California Regional Water Quality Control Board responded by email and indicated that due to the nature of this project, the project will fall under Category 1 of the Regional Water Quality Control Board General Order, which covers projects that are a low threat to water quality.

LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project physically divide an established community?	☐	☐	☐	☒

The project will not physically divide an established community.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

The project is not expected to cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

MINERAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒

The project is not expected to result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. This project involves only the minor removal of vegetation along roads and will have no effect on mineral resources.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

The project is not expected to result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan. There are no locally important

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mineral resource recovery sites on the project area.

NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?	☐	☐	☒	☐

The project is not expected to result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards.

Proposed project activities will result in some noise; specifically, from the operation of chainsaws, the tow-behind chipper, and potentially, mechanical mastication equipment. The equipment shall only be operated during normal daylight hours, and no equipment use will be allowed on Sundays or holidays. The equipment use in any given area will be short-lived, as the nature of this project will result in rapid treatment of road-side fuels in any given area within the project area. The equipment will also be located on the actual road prism, which is generally away from homes and other residences. In addition, the noise of the equipment may be only slightly above the ambient noise level from normal traffic on the road.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐

The project is not expected to result in generation of excessive ground borne vibration or ground borne noise levels. This project will involve only short-term use of vehicles and equipment working on the road prism.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

The project is not located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport.

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POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒

The project will not induce substantial unplanned population growth in an area, either directly or indirectly.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

The project will not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere.

PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for fire protection?	☐	☐	☐	☒

The project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for fire protection.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for police protection?	☐	☐	☐	☒

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The project will not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for police protection.

c) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for schools?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	☐	☐	☐	☒

The project will not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for schools.

d) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for parks?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	☐	☐	☐	☒

The project will not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for parks.

e) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for other public facilities?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	☐	☐	☐	☒

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The project will not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for other public facilities.

RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒

The project will not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. There are no existing neighborhood or regional parks or recreational facilities on—or adjacent to—the project area.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	☐	☐	☐	☒

The project does not include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment. There are no existing neighborhood or regional parks or recreational facilities on—or adjacent to—the project area

TRANSPORTATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐

The project does not conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities. This project involves only the minor removal of vegetation along roads.

This project will require a partial lane closure for the tow-behind chipper or for mastication equipment. All fuels reduction projects of this type will comply with traffic control standards established by Amador County and the State of California. This includes the use of warning signs on each side of the active project area where lane closures are necessary, flaggers on each side of the active project area, and safety cones--as needed--to warn of downed vegetation, parked vehicles and equipment, or other potential obstacles.

Full road closures will be allowed when necessary, and the duration of full road closures will be limited to 20 minutes.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project conflict or be inconsistent with CEQA Guidelines § 15064.3(b)?	☐	☐	☐	☒

The project does not conflict nor is it inconsistent with CEQA Guidelines § 15064.3(b). There will be no short-term or long-term transportation impacts associated with this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒

The project would not substantially increase hazards due to a geometric design feature. This project involves only the minor removal of vegetation along roads.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project result in inadequate emergency access?	☐	☐	☐	☒

The project would not result in inadequate emergency access

The project is being implemented for both fuels reduction adjacent to the roadway and for ingress and egress safety purposes. Increased clearance for vehicles and increased visual lines of sight for traffic flow will be a benefit to community members and responding initial attack resources if necessary.

During operations associated with this project, partial or full road closures may occur. During these closures, all emergency response vehicles will be allowed to proceed immediately through the work zone.

TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code § 5020.1(k)?	☐	☒	☐	☐

This project will not cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically

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defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code § 5020.1(k) assuming all work performed will adhere to the scope of work as proposed, and with mitigation incorporated.

Steps taken to reduce potential impacts to cultural resources include:

- **Consultation with CAL FIRE Associate State Archeologist Brian Denham on scope of work**
- **Consultation with UAIC**
- **Information Center records check**
- **Mitigation Measures 5, 6 and 7**

Consultation with UAIC:
Notification letters were sent to tribes listed on the AB52 Native American Heritage Commission's Tribal Contact List for Amador County. There is a total of 18 tribes on the NAHC Tribal Contact List. The notification letters were mailed to these 18 tribes on February 18, 2022. One response from United Auburn Indian Community (UAIC or the tribe) was received on March 9, 2022. On April 19, 2022, the UAIC initiated an AB 52 consultation with the project proponent, the Amador Fire Safe Council and CAL FIRE. This consultation process continued into June and July 2022 and concluded on August 11, 2022. All suggested mitigations made by UAIC have been incorporated into the Mitigation Measures incorporated in this IS/MND.

Information Records Check
A records search was completed by the North Central Information Center (IC) on 2/16/2018. The results from the search are below:
"Previous Archaeological Investigations: It appears approximately 30% of the AmCo Non-County Transportation System/Evacuation Routes search area has been previously surveyed for cultural resources. Survey coverage is shown on the maps in the confidential archaeology report.

Native American-Period Cultural Resources: The AmCo Non-County Transportation System/Evacuation Routes search area contains forty-six (46) recorded Native American-period cultural resources listed within the California Historical Resources Information System (CHRIS). Given the extent of known cultural resources and the environmental setting, there is high potential for Native American-period cultural resources in the AmCo Non-County Transportation System/Evacuation Routes project area.

Historic-Period Cultural Resources: The AmCo Non-County Transportation System/Evacuation Routes search area contains two hundred thirty-eight (238) recorded historic-period cultural resources listed within the California Historical Resources Information System (CHRIS). Given the extent of known cultural resources and the patterns of local land use, there is high potential for historic-period cultural resources in the AmCo Non-County Transportation System/Evacuation Routes project area."

The IC center adds a 1/16th mile buffer to CAL FIRE records searches. Given that the project area is limited to 20' on each side of roads, most of these resources fall within the IC buffer, but not within the project area. CAL FIRE archaeologist Brian Denham narrowed the search results using GIS to select the resources that are mapped within the project area; the results are a total of 51 cultural resources. Seven contain Native American cultural materials. General totals are 4 Native American resources (NA), 3 Multi-Component resources (MC), and 44 historic resources (H).

The following mitigations have been incorporated into this IS/MND and will address potential Tribal Cultural Resource impacts:

Mitigation Measure #5: Historic Era Historical Resources

If a significant historic era historical resource is discovered during operations, the RPF and CAL FIRE Project Manager will follow all procedures for post-approval discovery of cultural resources pursuant to the Cultural

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Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19). Evaluation of site significance shall follow the guidelines as described under that section heading on page 24 of the CRRP (2020).

Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

Hand clearing of significant historic era historical resources shall be permitted under the proposed scope of work and in consultation with the CAL FIRE project manager. Chips may be scattered within historic era resource boundaries.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Mitigation Measure #6: Tribal Cultural Resources

For the purposes of this project, all Native American cultural resources shall be considered significant. According to the IC records search, 70% of the project area has not been surveyed for cultural resources. The RPF will perform pedestrian survey in these project areas to identify Native American cultural resources. The culturally affiliated tribe will be provided the opportunity to attend surveys of treatment areas where the tribe has previously expressed interest.

A minimum of two weeks prior to a survey, United Auburn Indian Community (UAIC or the tribe) will be invited to attend the survey with the archaeologically trained resource professional and/or qualified archaeologist, and the tribe will be given the opportunity to interpret the site for the archaeological resource records. Tribal representatives may identify significant native plants or gathering areas that shall not be cleared. Herbicide use shall be avoided within Native American resources.

Mitigation Measure #7: Tribal Cultural Resources

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

If Native American cultural resources are identified through pedestrian survey, the RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the

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appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Native American cultural resources identified during pedestrian survey will be hand treated pursuant to the proposed scope of work. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators. When a resource is flagged for avoidance by masticators, all flagging must be removed from immediately following completion of work.

Previously identified Native American cultural resources will be hand treated. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators.

Chipped material will not be scattered within Native American cultural resources boundaries in effort to reduce fuels.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

If any unanticipated Native American archaeological sites or features are discovered during the conduct of operations, all operations in the area will cease immediately, the area will be flagged for avoidance. The RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

b) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	☐	☒	☐	☐

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This project will not cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. This project will not cause any substantial change in the significance of a tribal cultural resource, assuming all work performed will adhere to the scope of work as proposed, and with mitigation incorporated.

UAIC conducted a records search for the identification of Tribal Cultural Resources for this project which included a review of pertinent literature and historic maps, and a records search using UAIC's Tribal Historic Information System (THRIS). UAIC's THRIS database is composed of UAIC's areas of oral history, ethnographic history, and places of cultural and religious significance, including UAIC Sacred Lands that are submitted to the Native American Heritage Commission (NAHC). The THRIS resources shown in this region also include previously recorded indigenous resources identified through the California Historic Resources Information System Center (CHRIS) as well as historic resources and survey data.

UTILITIES AND SERVICE SYSTEMS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☐	☒

The project is not expected to require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. This project involves only the minor removal of vegetation along roads.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☐	☒

The project is expected to have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years. This project involves only the minor removal of vegetation along roads. No water use will be used in conjunction with this project.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Would the project result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand, in addition to the provider's existing commitments?	☐	☐	☐	☒

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The project will not require the use of a wastewater treatment provider and thus, no determination by such a provider is expected.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☐	☒

The project is not expected to generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. This project involves only the minor removal of vegetation along roads. Some of this vegetation may be chipped on-site. There will be no impact from this material.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

The project will comply with federal, state, and local management and reduction statutes and regulations related to solid waste. The project will comply with the California Forest Practice Act provisions relating to refuse and garbage, and all refuse and garbage generated from this project will be removed from the project site daily.

WILDFIRE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒

The project would not substantially impair an adopted emergency response plan or emergency evacuation plan.

The project aims to create a road system that would facilitate emergency response and/or emergency evacuations. The project is being implemented for both fuels reduction adjacent to the roadway and for ingress and egress safety purposes. Increased clearance for vehicles and increased visual lines of sight for traffic flow will be a benefit to community members and responding initial attack resources if necessary.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒

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The project would not due to slope, prevailing winds, and other factors, exacerbate wildfire risks, expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.

The project aims to create a road system that would facilitate emergency response and/or emergency evacuations. The project is being implemented for both fuels reduction adjacent to the roadway and for ingress and egress safety purposes. Increased clearance for vehicles and increased visual lines of sight for traffic flow will be a benefit to community members and responding initial attack resources if necessary.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒

The project will not require the installation or maintenance roads, emergency water sources, power lines or other utilities that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment. This project involves only the minor removal of vegetation along roads.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

The project will not expose people or structures to significant risks, including downslope or downstream flooding or landslides, because of runoff, post-fire slope instability, or drainage changes. This project involves only the minor removal of vegetation along roads.

MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would 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?	☐	☐	☐	☒

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b) Would 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.)	Potentially Significant Impact ☐	Less Than Significant with Mitigation Incorporated ☐	Less Than Significant Impact ☐	No Impact ☒

c) Would the project have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly?	Potentially Significant Impact ☐	Less Than Significant with Mitigation Incorporated ☐	Less Than Significant Impact ☐	No Impact ☒

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APPENDIX A

Mitigation Monitoring and Reporting Plan

In accordance with CEQA Guidelines § 15074(d), when adopting a mitigated negative declaration, the lead agency will adopt a mitigation monitoring and reporting plan (MMRP) that ensures compliance with mitigation measures required for project approval. CAL FIRE is the lead agency for the above-listed project and has developed this MMRP as a part of the final IS-MND supporting the project. This MMRP lists the mitigation measures developed in the IS-MND that were designed to reduce environmental impacts to a less-than-significant level. This MMRP also identifies the party responsible for implementing the measure, defines when the mitigation measure must be implemented, and which party or public agency is responsible for ensuring compliance with the measure.

POTENTIALLY SIGNIFICANT EFFECTS AND MITIGATION MEASURES

The following is a list of the resources that will be potentially affected by the project and the mitigation measures made part of the Initial Study-Mitigated Negative Declaration.

Mitigation Measure #1: Biological- Foothill Yellow-Legged Frog (FYLF)

To prevent any impacts to the FYLF, all project areas that are within 50 feet of perennial streams will have a pre-operations survey conducted within one week of impacts to detect for the presence of frogs. If any frog—of any species—is encountered within the project area, project operations will stop and a qualified Wildlife Biologist will be consulted to provide verification of species and potential protection measures. The results of this consultation will be provided to the Department of Fish and Wildlife, as appropriate.

In addition, the FYLF will be afforded additional protection by the establishment of protective streamside buffers. All perennial watercourses will have a 50-foot protective buffer established on each side of the channel. This buffer will be identified on the ground with flagging, and its location will be made known to contractors working in the area prior to the start of operations in the area. In this protective buffer, no ground-based equipment will be allowed. Any accidental deposits of slash, chips, or other woody debris will be removed from the watercourse channel immediately.

Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

Mitigation Measure #2: Biological- Western Pond Turtle

To prevent any possible impact to the Western pond turtle, all project areas that are within 100 feet of any occurrence in the Plymouth/Shenandoah area will have a pre-operations survey for this species. If any turtle of any species is encountered, project operations will stop, and a qualified Wildlife Biologist will be consulted. The Wildlife Biologist will propose any necessary pre-operations protection measures.

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Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

Mitigation Measure #3: Biological- Non-listed Animal Species (associated with caves and mine shafts)

9 occurrences were listed on CNDDB for non-listed species that are generally associated with caves and abandoned mine shafts. These occurrences were for: Rudolph's cave harvestman, Grubb's cave harvestman, Grady's cave amphipod, and Townsend's Big-Eared Bat. The occurrences listed were in abandoned mine shafts in the Volcano and Sutter Creek areas. No project-related activities will occur within at least 1 mile of any of these occurrences. If any additional mine shafts are discovered within 100 feet of any proposed project area, a pre-operations survey for these species within those caves will be made by a qualified Wildlife Biologist. If any of these species are encountered, the Wildlife Biologist will propose any necessary pre-operations protection measures.

Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

Mitigation Measure #4: Biological- Raptors

The project area contains habitat suitable for raptor nesting. CDFW recommends that operations be timed to occur outside of the critical period for these species (March 1 – September 1). If that is not possible, the following Mitigation Measure will be implemented:

a) If operations commence during the critical period a walk-through survey of the project area will occur no more than 2 weeks prior to commencing operations to look for signs of nest occupancy. This walk-through survey will include examination of any canopy trees for stick nests, and/or the presence of whitewash or prey remains or any sighting/vocalization of a territorial raptor.

b) If an active raptor or owl nest and/or a raptor exhibiting territorial actions (calling, swooping, following the surveyor, or returning to the approximate area of discovery) is discovered prior to commencing operations the following measures should apply.

   (1) If a listed species is discovered prior to, or during operations, the operator will cease operations within one-quarter mile (if possible) of the discovery and contact CDFW Timber Staff for consultation.

   (2) If an active nest of a non-listed raptor is discovered during operations, a buffer will be established at a distance that minimizes disturbance. The nest shall be protected from human disturbance and access should be restricted. These buffers will be flagged as Special Treatment Areas.

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Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

Mitigation Measure #5: Historic Era Historical Resources

If a significant historic era historical resource is discovered during operations, the RPF and CAL FIRE Project Manager will follow all procedures for post-approval discovery of cultural resources pursuant to the Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19). Evaluation of site significance shall follow the guidelines as described under that section heading on page 24 of the CRRP (2020).

Given that the proposed scope of work has been designed to reduce impacts to cultural resources overall, the threshold for the significance of historic era historical resources will be relatively high. These can include but are not limited to features of the built environment including foundations, rock walls/fences, water conveyance features and standing or partially collapsed structures. If a significant resource is identified during operations, the RPF shall be required to formally record the resource and provide copies to CAL FIRE for distribution to the Information Center. No formal survey reporting is required.

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

Hand clearing of significant historic era historical resources shall be permitted under the proposed scope of work and in consultation with the CAL FIRE project manager. Chips may be scattered within historic era resource boundaries.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.
No burning of treated vegetation shall occur in the project area.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

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Mitigation Measure #6: Tribal Cultural Resources

For the purposes of this project, all Native American cultural resources shall be considered significant. According to the IC records search, 70% of the project area has not been surveyed for cultural resources. The RPF will perform pedestrian survey in these project areas to identify Native American cultural resources. The culturally affiliated tribe will be provided the opportunity to attend surveys of treatment areas where the tribe has previously expressed interest.

A minimum of two weeks prior to a survey, United Auburn Indian Community (UAIC or the tribe) will be invited to attend the survey with the archaeologically trained resource professional and/or qualified archaeologist, and the tribe will be given the opportunity to interpret the site for the archaeological resource records. Tribal representatives may identify significant native plants or gathering areas that shall not be cleared. Herbicide use shall be avoided within Native American resources.

Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

Mitigation Measure #7: Tribal Cultural Resources

Prior to any activities and operations, the entire project shall be subject to a desktop review to review the results of the NCIC records search, project area sensitivity, and an intuitive archaeological survey by a professional archaeologist or an RPF with a current CAL FIRE Archaeological Certification. Consulting Tribes will be notified of any newly recorded resources prior to ground disturbance. Any previously recorded or newly identified sites will be subject to site-specific treatment measures listed below.

If Native American cultural resources are identified through pedestrian survey, the RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Native American cultural resources identified during pedestrian survey will be hand treated pursuant to the proposed scope of work. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators. When a resource is flagged for avoidance by masticators, all flagging must be removed from immediately following completion of work.

Previously identified Native American cultural resources will be hand treated. When necessary for protection of the resource, the RPF and CAL FIRE project manager shall flag a resource for avoidance by masticators.

Chipped material will not be scattered within Native American cultural resources boundaries in effort to reduce fuels.

Any tracked/rubber-tired piece of equipment will stay on the paved/dirt road prism.
No ground disturbance will be allowed from the equipment for the roadside fuel's reduction.

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No burning of treated vegetation shall occur in the project area.

If any unanticipated Native American archaeological sites or features are discovered during the conduct of operations, all operations in the area will cease immediately, the area will be flagged for avoidance. The RPF shall follow Cultural Resource Review Procedures for CAL FIRE Projects (CRRP), (2020, Pp 19), including notification to the appropriate Native American entities. Native American cultural resources shall be formally recorded (on DPR 523 forms), resource records shall be sent to the IC and appropriate Native American entities within six months. This will occur in biannual updates to UAIC. No formal reporting of survey efforts through an archaeological survey report will be prepared due to the low impact of the scope of work.

Consultation in the event of inadvertent discovery of human remains: If human remains are inadvertently encountered during surveys, vegetation removal, staging, or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes but is not limited to immediately contacting the County Coroner's office upon any discovery of human remains.

Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

Mitigation Measure #8: Hydrology and Water Quality

To reduce any potential adverse impacts to water quality, no equipment will operate off of the road prism in proximity to any watercourse or water body. This will result in no significant ground disturbance throughout the project area. No significant vegetation will be removed in proximity to any watercourse or water body other than that vegetation which is located within 20 feet of the road. No vegetation, masticated vegetation, or chips from this project will be allowed to enter any watercourse channel in or adjacent to this project area. Any accidental deposits of vegetation from this project that is deposited into watercourse channels will be removed immediately.

Schedule: Prior to operations
Responsible Party: Amador Fire Safe Council
Verification of Compliance:
Monitoring Party: CAL FIRE
Initials: _____
Date: _____

A copy of the completed MMRP will be forwarded to: CAL FIRE Environmental Protection Program, P.O. Box 944246, Sacramento, CA 94244.

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PREPARERS OF THIS DOCUMENT

- **Ed Struffenegger, Consulting Forester, Amador Fire Safe Council (for CAL FIRE, Lead Agency)**

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EXPERTS CONSULTED

- Amy Kennedy, California Department of Fish and Wildlife.
- Jonathan Meuer, Central Valley Regional Water Quality Control Board
- Paul Rendes, Coordinator, North Central Information Center
- Brian Denham, Associate State Archaeologist, CALFIRE

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Christensen, G.A., S. Campbell, J. Fried (Tech. Coords.). 2007 California's Forest Resources: Forest Inventory and Analysis, 2001-2005. USDA Forest Service, Pacific Northwest Research Station, Forest Inventory and Analysis Unit (PNW-FIA), Portland, OR. March 22, 2007 version.

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Amador Fire Safe Council: Ingress/Egress Project

Amador County Private Roads East of Hwy 49 & West of Dew Drop Station

Road Name	Nearest Situs Community	Nearest Situs Zip Code	Approximate Length of Road Feet	Miles
Alaire Ln	Pioneer	95666	4,340.08	0.82
Alder Ln	Pine Grove	95665	705.55	0.13
Alicia Dr	Pioneer	95666	3,571.08	0.68
Allan Ct	Volcano	95689	955.83	0.18
Allan Rd W	Volcano	95689	2,086.13	0.40
Allen Ranch Rd	Sutter Creek	95685	5,620.89	1.06
Alley	Jackson	95642	309.99	0.06
Amador Ave	Pioneer	95666	7,407.06	1.40
Amador Ln	Jackson	95642	11,858.68	2.25
Amber Way	Sutter Creek	95685	1,408.61	0.27
Amoruso Way	Fiddletown	95629	4,850.56	0.92
Andrews Rd	Pine Grove	95665	2,945.33	0.56
Antelope Ct S	Pioneer	95666	238.82	0.05
Antelope Dr E	Pioneer	95666	4,559.18	0.86
Aqueduct Cir	Pine Grove	95665	4,202.79	0.80
Arden Ct	Pine Grove	95665	916.86	0.17
Arrowhead Rd	Pine Grove	95665	1,423.56	0.27
Ash	Pioneer	95666	438.63	0.08
Ashland Dr	Pioneer	95666	3,843.79	0.73
Ashley Pl	Fiddletown	95629	363.45	0.07
Aspen Ct	Volcano	95689	1,173.43	0.22
Aubry Ln	Jackson	95642	1,307.62	0.25
Autumn Ct	Sutter Creek	95685	1,381.32	0.26
Autumn Dr	Sutter Creek	95685	2,501.31	0.47
Baker Ln	Sutter Creek	95685	697.82	0.13
Barnett Rd	Jackson	95642	1,258.19	0.24
Barone Rd	Volcano	95689	9,744.86	1.85
Barton Dr	Pioneer	95666	227.61	0.04
Bass Pond Rd	Plymouth	95669	1,481.19	0.28
Bates Rd	Pine Grove	95665	2,305.32	0.44
Baumann Rd	Pine Grove	95665	600.72	0.11
Bear Ct	Volcano	95689	247.39	0.05
Bear Hill Rd	Volcano	95689	596.61	0.11
Bella Vista Ln	Fiddletown	95629	4,820.47	0.91
Ben's Aly	Plymouth	95669	227.40	0.04
Bennett Ranch Ct	Jackson	95642	320.77	0.06
Bertone Dr	Volcano	95689	2,070.92	0.39
Big Oak Ct	Pine Grove	95665	1,726.10	0.33
Black Oak Dr	Volcano	95689	10,845.08	2.05
Black Prince Rd E	Pioneer	95666	1,626.11	0.31
Blackberry Ln	Pine Grove	95665	1,598.50	0.30
Blackwell Rd	Sutter Creek	95685	797.69	0.15
Blaze Ct	Volcano	95689	502.37	0.10
Bluff Ct	Pine Grove	95665	522.66	0.10
Bobcat Byway	Pioneer	95666	1,522.41	0.29
Bonanza Rd	Pioneer	95666	1,851.04	0.35
Bonavera Way	Pine Grove	95665	630.11	0.12
Bonnefoy Dr	Jackson	95642	4,331.00	0.82
Bonnie Way	Pioneer	95666	309.81	0.06
Booger Hollow Rd	Sutter Creek	95685	1,182.67	0.22
Bootstrap Way	Volcano	95689	4,833.32	0.92
Bourbon St	Jackson	95642	2,107.63	0.40
Bowman Rd	Pine Grove	95665	3,325.55	0.63
Brandan Rd	Pine Grove	95665	3,108.18	0.59
Brewba Ct	Sutter Creek	95685	264.48	0.05
Brookwood L N	Pine Grove	95665	477.07	0.09
Bryson Ln	Pine Grove	95665	1,293.24	0.24

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Road Name	Nearest Situs Community	Nearest Situs Zip Code	Approximate Length of Road Feet	Miles
Buckeye Ct	Sutter Creek	95685	220.13	0.04
Buckeye Dr	Volcano	95689	3,105.11	0.59
Buckeye Rd	Pioneer	95666	2,525.60	0.48
Buckhorn Ct	Pioneer	95666	318.64	0.06
Buckhorn Ln	Pioneer	95666	1,471.22	0.28
Bunkhouse Rd	Sutter Creek	95685	155.89	0.03
Burke Dr	Plymouth	95669	11,346.23	2.15
Burnt Wheel Farm Rd	Fiddletown	95629	1,715.15	0.32
Butte Mountain Ln W	Jackson	95642	7,001.58	1.33
Butte View Ct	Jackson	95642	1,116.85	0.21
Cadclara Rd	Volcano	95689	1,840.67	0.35
California Mine Rd	Plymouth	95669	8,281.68	1.57
Calypso Ct	Pioneer	95666	532.66	0.10
Camp Dr	Pioneer	95666	1,470.86	0.28
Canal Way	Jackson	95642	421.13	0.08
Canterbury Rd	Pioneer	95666	8,286.10	1.57
Canyon View Dr	Jackson	95642	5,480.68	1.04
Caribou Dr	Pine Grove	95665	492.94	0.09
Carolyn Ct	Pioneer	95666	996.92	0.19
Carolyn Way	Pioneer	95666	610.63	0.12
Carpenter Gulch Dr	Pine Grove	95665	5,596.87	1.06
Carriage Way	Jackson	95642	883.87	0.17
Carson St	Pioneer	95666	1,734.61	0.33
Carter Ln	Jackson	95642	908.09	0.17
Cassinelli Ranch Rd	Sutter Creek	95685	2,040.25	0.39
Castlewood Ct	Pioneer	95666	125.58	0.02
Cedar	Pioneer	95666	376.64	0.07
Cedar Ave	Pioneer	95666	3,509.96	0.66
Cedar Dr	Pine Grove	95665	1,035.68	0.20
Cedar Heights Dr N	Pioneer	95666	2,814.19	0.53
Cedar Pine Ln	Pine Grove	95665	933.79	0.18
Cedar Pines Dr	Volcano	95689	8,888.20	1.68
Cedar Way	Pioneer	95666	972.05	0.18
Cemetary Ln	Jackson	95642	622.10	0.12
Cemetary Rd	Sutter Creek	95685	386.04	0.07
Century Ln	Sutter Creek	95685	775.84	0.15
Chaparral Dr	Pioneer	95666	3,679.47	0.70
Chaparral Dr W	Pioneer	95666	1,830.80	0.35
Charleston Ct	Volcano	95689	1,470.08	0.28
Chase Rd	Pine Grove	95665	1,602.29	0.30
Chele Dr	Jackson	95642	870.59	0.16
Cherokee Ln	Volcano	95689	1,878.03	0.36
Chester's Pl	Pine Grove	95665	5,761.43	1.09
Chestnut Ln	Sutter Creek	95685	809.50	0.15
China Hill Quarry Rd	Pine Grove	95665	2,581.36	0.49
China St	Ione	95640	364.15	0.07
Christina Pines Ct	Jackson	95642	1,307.53	0.25
Clinton Bar Rd	Pine Grove	95665	5,961.23	1.13
Colleen Ct	Pioneer	95666	2,477.30	0.47
Colt Dr	Sutter Creek	95685	412.10	0.08
Columbia Dr	Pioneer	95666	4,583.61	0.87
Contini Mine Rd	Pine Grove	95665	2,911.70	0.55
Cook Ranch Rd	Sutter Creek	95685	3,697.25	0.70
Copper Ct	Pioneer	95666	747.46	0.14
Cosol Dr	Volcano	95689	8,515.31	1.61
Cosumnes Dr	Plymouth	95669	2,207.16	0.42
Cottonwood Ln	Pine Grove	95665	730.91	0.14
Country Ct	Pine Grove	95665	368.44	0.07
County Rd 81	Plymouth	95669	7,467.48	1.41
Crawley Ln	Pioneer	95666	3,556.56	0.67

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Road Name	Nearest Situs Community	Nearest Situs Zip Code	Approximate Length of Road Feet	Miles
Crazy Hill Rd	Sutter Creek	95685	788.57	0.15
Creek Dr	Pioneer	95666	3,371.06	0.64
Creekside Ln	Pioneer	95666	2,086.75	0.40
Da Kine Rd	Pioneer	95666	2,260.84	0.43
Dam Rd	Jackson	95642	3,719.69	0.70
Darling View Ct	Sutter Creek	95685	1,754.07	0.33
Dawn Ridge	Pine Grove	95665	1,957.29	0.37
Deadwood Ct	Pioneer	95666	401.20	0.08
Deavers Rd	Pine Grove	95665	765.92	0.15
Debbie Ct	Pioneer	95666	390.96	0.07
Debbie Ct N	Pioneer	95666	654.56	0.12
Debbie Ln	Jackson	95642	2,213.73	0.42
Deer Trl	Pioneer	95666	2,761.35	0.52
Delores Ct	Pioneer	95666	622.33	0.12
Dew Drop Cutoff	Pioneer	95666	1,737.69	0.33
Dew Drop Rd	Pioneer	95666	4,435.24	0.84
Diamond Ct	Pioneer	95666	107.16	0.02
Diamond View Dr	Pine Grove	95665	1,644.45	0.31
Dickson Rd	Plymouth	95669	3,017.90	0.57
Dickson Way	Plymouth	95669	1,256.15	0.24
Dirt Rd	Ione	95640	1,167.20	0.22
Dogwood Ct	Pine Grove	95665	374.12	0.07
Doolittle Ln	Pioneer	95666	1,112.44	0.21
Dove Ct	Pine Grove	95665	312.70	0.06
Druid Ln	Pine Grove	95665	2,209.46	0.42
Dunshee Rd	Pine Grove	95665	1,782.26	0.34
Dusty Way	Pioneer	95666	1,829.79	0.35
Eagle Way	Jackson	95642	2,970.55	0.56
Echo Dr	Sutter Creek	95685	3,863.20	0.73
Eldel Rd	Pine Grove	95665	3,766.16	0.71
Elkhorn Ct	Pioneer	95666	516.70	0.10
Ellis Ln	Jackson	95642	1,816.03	0.34
Elmore Ct	Pioneer	95666	976.22	0.18
Emerald Ln	Jackson	95642	1,222.27	0.23
Evelyn Ct	Pioneer	95666	177.65	0.03
Evelyn Way	Pioneer	95666	1,304.78	0.25
Evergreen Pl	Jackson	95642	941.91	0.18
Evergreen Way	Volcano	95689	931.03	0.18
F St	Pine Grove	95665	345.21	0.07
Fallen Leaf Ct	Pioneer	95666	475.98	0.09
Fallen Leaf Dr	Pioneer	95666	2,194.42	0.42
Farnham Ranch Rd	Plymouth	95669	2,595.88	0.49
Fawn Ct	Pioneer	95666	728.46	0.14
Fern Ridge Rd	Pioneer	95666	3,406.43	0.65
Fig Tree Ln	Jackson	95642	4,936.13	0.93
Fir Dr	Pioneer	95666	2,890.17	0.55
Fogarty Rd	Sutter Creek	95685	343.68	0.07
Foothill Pines Ct	Pine Grove	95665	437.73	0.08
Forest View Cir	Pioneer	95666	5,983.64	1.13
Fort John Pass	Volcano	95689	1,836.15	0.35
Fortress Ct	Pioneer	95666	1,311.91	0.25
Fortress Way	Pioneer	95666	3,976.59	0.75
Four Wheel Drive Ct	Pioneer	95666	568.86	0.11
Four Wheel Drive Rd	Pioneer	95666	1,690.81	0.32
French Gulch Rd	Pine Grove	95665	818.50	0.16
Fuentes Dr	Pioneer	95666	3,241.05	0.61
Fuentes Dr S	Pioneer	95666	408.38	0.08
Garbo Ln	Pine Grove	95665	1,417.57	0.27
Garibaldi Ranch Rd	Pine Grove	95665	3,330.44	0.63
Gen Ct	Pine Grove	95665	264.80	0.05

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Ginalynn Ct	Jackson	95642	874.13	0.17
Gold Cir	Pioneer	95666	2,549.79	0.48
Gold Creek Trl	Volcano	95689	10,354.91	1.96
Gold Dust Rd	Pioneer	95666	3,073.12	0.58
Gold Hill Camp Rd	Pioneer	95666	607.88	0.12
Gold Mine Rd	Pine Grove	95665	3,579.89	0.68
Gold Nugget Ct	Pine Grove	95665	434.92	0.08
Gold Stone Ave	Jackson	95642	1,322.10	0.25
Gold Strike Rd	Pine Grove	95665	4,786.20	0.91
Gold Valley Rd	Sutter Creek	95685	6,414.83	1.21
Gold View Way	Pine Grove	95665	1,563.66	0.30
Golf Links Ct	Pioneer	95666	181.43	0.03
Golf Links Dr	Pioneer	95666	217.42	0.04
Golf View Ln	Pioneer	95666	1,101.65	0.21
Grainite Ln	Jackson	95642	749.51	0.14
Granite Pl	Pioneer	95666	271.62	0.05
Greilich Aly	Ione	95640	170.03	0.03
Gy Tam Ln	Pine Grove	95665	461.16	0.09
Hadaka Way	Sutter Creek	95685	257.41	0.05
Hagerman Rd	Pine Grove	95665	4,759.15	0.90
Hampton Ln	Sutter Creek	95685	2,448.59	0.46
Harris Ct	Pioneer	95666	212.09	0.04
Heather Ln	Volcano	95689	2,909.20	0.55
Heights Ct	Pioneer	95666	305.09	0.06
Heritage Oaks Dr	Sutter Creek	95685	460.79	0.09
Hidden Ln	Pine Grove	95665	1,205.78	0.23
High Trees Dr	Pioneer	95666	3,215.83	0.61
Highview Way	Sutter Creek	95685	3,096.03	0.59
Hill Rd	Pioneer	95666	1,188.24	0.23
Hills Dr	Jackson	95642	932.90	0.18
Hilltop Ct	Pine Grove	95665	444.48	0.08
Hilltop Rd	Pine Grove	95665	538.74	0.10
Hilltop St	Pine Grove	95665	1,011.92	0.19
Hillview Ln	Pioneer	95666	493.76	0.09
Holiday Ln	Pioneer	95666	5,200.41	0.98
Holly	Pioneer	95666	528.62	0.10
Holly Pl	Pine Grove	95665	266.01	0.05
Holly Rd	Volcano	95689	5,869.57	1.11
Homestead Rd	Pine Grove	95665	3,137.01	0.59
Hooper Ct	Pine Grove	95665	729.17	0.14
Hooper Dr	Pine Grove	95665	257.48	0.05
Horse Canyon Rd	Pine Grove	95665	2,271.00	0.43
Hummingbird Ln	Sutter Creek	95685	2,538.33	0.48
Hygrade Rd	Sutter Creek	95685	470.70	0.09
Inspiration Dr	Pioneer	95666	3,242.24	0.61
Inspiration Dr E	Pioneer	95666	6,367.83	1.21
Inspiration Dr S	Pioneer	95666	1,920.30	0.36
Inspiration Dr W	Pioneer	95666	11,335.21	2.15
Iris Ln	Fiddletown	95629	211.84	0.04
Isabel Ct	Pioneer	95666	581.56	0.11
Jackson St	Ione	95640	1,687.03	0.32
Jeffrey Ln	Pioneer	95666	314.07	0.06
Johnny's Way	Jackson	95642	858.76	0.16
June Way	Pine Grove	95665	2,116.44	0.40
Juniper Ct	Pioneer	95666	547.79	0.10
Jura Ln	Volcano	95689	4,269.00	0.81
Kanaka Valley Rd	Sutter Creek	95685	2,540.06	0.48
Kelly Ranch Ct	Pioneer	95666	191.34	0.04
Kennedy Mine Rd	Jackson	95642	2,764.36	0.52
Kestrel Ln	Sutter Creek	95685	426.22	0.08

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Kevkie Ct	Pine Grove	95665	731.14	0.14
Kimber Ct	Pine Grove	95665	569.63	0.11
King Rd	Jackson	95642	2,544.30	0.48
Kings Ct	Pioneer	95666	1,438.18	0.27
Kit Ct	Volcano	95689	525.81	0.10
Kit Ln	Jackson	95642	2,693.21	0.51
Kly Ct	Pioneer	95666	207.06	0.04
La Colina Rd	Sutter Creek	95685	663.60	0.13
Lady Bug Ln	Pine Grove	95665	193.88	0.04
Lady Ellen Ln	Pioneer	95666	1,406.37	0.27
Lady Miram Rd	Pioneer	95666	1,938.35	0.37
Lagunita Way	Jackson	95642	1,414.91	0.27
Lake Canyon Rd	Sutter Creek	95685	4,083.21	0.77
Lake Marie Rd	Sutter Creek	95685	478.97	0.09
Lancelot Ln	Pioneer	95666	535.67	0.10
Lark Ln	Volcano	95689	1,644.44	0.31
Last Chance Aly	Sutter Creek	95685	1,830.85	0.35
Laurel Rd	Sutter Creek	95685	5,106.24	0.97
Lauren Ln	Jackson	95642	3,122.60	0.59
Lawry Ln	Sutter Creek	95685	1,080.41	0.20
Leichester Ct	Fiddletown	95629	537.47	0.10
Lemaux Ct	Volcano	95689	420.45	0.08
Lemaux Rd	Volcano	95689	4,120.13	0.78
Leona Ln	Pine Grove	95665	806.62	0.15
Lightning Ln	Pioneer	95666	493.15	0.09
Little John Ln	Pioneer	95666	7,147.99	1.35
Little Mill Creek Rd	Pioneer	95666	19,108.53	3.62
Live Oak Ct	Plymouth	95669	1,338.20	0.25
Live Oak Ln	Pine Grove	95665	778.73	0.15
Live Oak Rd	Pioneer	95666	1,834.91	0.35
Lockwood Ct	Volcano	95689	516.38	0.10
Lockwood Ln	Volcano	95689	2,412.12	0.46
Locust Ln	Sutter Creek	95685	830.43	0.16
Lodge Rd	Pioneer	95666	854.70	0.16
Logan's Aly	Pine Grove	95665	923.99	0.17
Lomo Ranchos Rd	Volcano	95689	1,949.08	0.37
Lonesome Ln	Pine Grove	95665	868.13	0.16
Lookout Ct	Pioneer	95666	525.99	0.10
Lookout Rd	Pine Grove	95665	2,933.18	0.56
Lookout Ridge Ln	Pine Grove	95665	2,639.03	0.50
Louise Ln	Sutter Creek	95685	3,795.32	0.72
Lowenthal Rd	Pine Grove	95665	499.79	0.09
Lubenko Ridge Rd	Fiddletown	95629	855.13	0.16
Lucky Mine Ln	Pioneer	95666	887.94	0.17
Lueders Ct	Volcano	95689	1,386.93	0.26
Lunar Trl	Sutter Creek	95685	3,124.11	0.59
Lupe Rd	Pine Grove	95665	4,361.38	0.83
Lupin Rd	Volcano	95689	2,643.93	0.50
Lynn Way	Pine Grove	95665	1,128.02	0.21
Madrona	Pioneer	95666	224.57	0.04
Madrone Ct	Volcano	95689	1,623.93	0.31
Madrone Dr	Pioneer	95666	2,225.91	0.42
Maggie Ln	Sutter Creek	95685	841.97	0.16
Mahala Flats Rd	Pioneer	95666	61.42	0.01
Mamre Rd	Pine Grove	95665	591.84	0.11
Manzanita Ct	Pioneer	95666	1,823.11	0.35
Manzanita Pl	Pine Grove	95665	211.52	0.04
Manzanita Rd	Sutter Creek	95685	9,540.08	1.81
Maranatha Way	Sutter Creek	95685	3,541.59	0.67
Marble Quarry Rd	Pine Grove	95665	7,330.40	1.39

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Marc Dr	Pine Grove	95665	1,459.61	0.28
Marilyn Ln	Pioneer	95666	2,856.49	0.54
Marimac Ln	Pine Grove	95665	834.31	0.16
Marina Pl	Jackson	95642	448.77	0.08
Markley Mine Rd	Volcano	95689	3,009.73	0.57
Mary Ln	Fiddletown	95629	832.95	0.16
Masonic Cave Rd	Pioneer	95666	745.49	0.14
Matson Dr	Pine Grove	95665	162.50	0.03
Maude Ct	Pine Grove	95665	556.93	0.11
Maudern Ln	Pine Grove	95665	602.95	0.11
Mc Lane Ranch Rd	Pine Grove	95665	603.92	0.11
Meadow Lark Ln	Sutter Creek	95685	5,658.00	1.07
Meadow Rd	Sutter Creek	95685	1,001.73	0.19
Meadow View Dr	Sutter Creek	95685	3,300.66	0.63
Meadow Vista Ln	Pioneer	95666	1,401.31	0.27
Meadowood Ct	Jackson	95642	1,318.06	0.25
Meadowood Dr	Pine Grove	95665	9,304.63	1.76
Meath Dr	Sutter Creek	95685	12,812.66	2.43
Merlin Dr	Pioneer	95666	3,115.38	0.59
Mesa Dr	Pioneer	95666	1,080.40	0.20
Mierkey Rd	Pine Grove	95665	5,646.16	1.07
Mine Ct	Pine Grove	95665	419.24	0.08
Mitchell Mine Rd	Pine Grove	95665	8,017.14	1.52
Monitor Ln	Sutter Creek	95685	365.73	0.07
Moonlight Ridge Rd	Pine Grove	95665	4,173.97	0.79
Morning Star Ct	Sutter Creek	95685	1,311.08	0.25
Morning Star Ln	Sutter Creek	95685	1,444.58	0.27
Mountain View Dr	Pine Grove	95665	1,552.82	0.29
Mountain View Rd	Volcano	95689	3,304.39	0.63
Mt Misery Ln	Pioneer	95666	1,167.55	0.22
Mt Whitney Dr	Volcano	95689	2,394.03	0.45
Mule Deer Ct	Pioneer	95666	1,583.28	0.30
N Cedar Ln	Pine Grove	95665	1,073.63	0.20
N Chaparral Ct	Pioneer	95666	1,282.54	0.24
N Hill Dr	Jackson	95642	695.91	0.13
N Vineyard Rd	Plymouth	95669	3,165.30	0.60
Narcissus Rd	Pine Grove	95665	5,496.23	1.04
Neilson Rd	Pine Grove	95665	874.42	0.17
Nevill Ct	Jackson	95642	194.27	0.04
Nicolas Ct	Jackson	95642	399.76	0.08
Niles Rd	Jackson	95642	988.09	0.19
Nills Way	Pine Grove	95665	1,551.68	0.29
Nina Rd	Sutter Creek	95685	8,751.04	1.66
North Star Ct	Pine Grove	95665	2,241.07	0.42
Nugget Ln	Sutter Creek	95685	1,535.70	0.29
Oak	Pioneer	95666	748.26	0.14
Oak Ct	Sutter Creek	95685	179.76	0.03
Oak Dr	Pioneer	95666	2,584.30	0.49
Oak Hills Ln	Volcano	95689	2,053.83	0.39
Oak Ln	Pine Grove	95665	1,904.36	0.36
Oak Rd	Jackson	95642	1,454.10	0.28
Oakstream Rd	Plymouth	95669	7,540.44	1.43
Ohls Rd	Pioneer	95666	2,157.05	0.41
Old Emigrant Rd	Pioneer	95666	2,116.79	0.40
Old Giannini Ranch Rd	Pioneer	95666	11,037.78	2.09
Old McDonald Rd	Sutter Creek	95685	2,635.69	0.50
Old River Rd	Fiddletown	95629	7,869.41	1.49
Old Spring Rd	Pine Grove	95665	1,584.79	0.30
Oliveto Rd	Jackson	95642	1,468.80	0.28
Overland Dr	Volcano	95689	3,402.71	0.64

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Overlook Ct E	Plymouth	95669	458.73	0.09
Overlook Ter	Pioneer	95666	1,192.73	0.23
Owl Rd	Pine Grove	95665	1,885.22	0.36
Oxbow Rd	Pioneer	95666	2,031.37	0.38
Pacific Ct	Plymouth	95669	329.24	0.06
Paelo Ln	Pine Grove	95665	314.31	0.06
Paintbrush Ln	Pine Grove	95665	650.42	0.12
Palamino Rd	Pine Grove	95665	1,117.86	0.21
Pappas Blvd	Pioneer	95666	3,782.61	0.72
Paradise Rd	Pioneer	95666	1,300.48	0.25
Park Ct	Pioneer	95666	655.42	0.12
Park Dr	Jackson	95642	1,408.91	0.27
Parkside Ln	Pine Grove	95665	1,554.07	0.29
Patel Pl	Pine Grove	95665	496.98	0.09
Payton Ln	Pine Grove	95665	3,355.34	0.64
Pearl Ct	Pioneer	95666	171.89	0.03
Peck Ct	Pine Grove	95665	188.51	0.04
Penrose Dr	Jackson	95642	845.71	0.16
Peyus Rd	Pioneer	95666	1,318.01	0.25
Pg&E Road 8047	Pioneer	95666	20,204.93	3.83
Piccardo Way	Jackson	95642	404.95	0.08
Pine	Pioneer	95666	697.78	0.13
Pine Cone Ln	Pine Grove	95665	1,387.97	0.26
Pine Dr E	Pioneer	95666	13,770.37	2.61
Pine Dr W	Volcano	95689	5,555.68	1.05
Pine Glen Trl	Pine Grove	95665	311.87	0.06
Pine Gulch Ct	Sutter Creek	95685	3,185.16	0.60
Pine Ridge Rd	Pine Grove	95665	2,797.11	0.53
Pine View Dr	Pine Grove	95665	799.13	0.15
Pinebrook Ct	Sutter Creek	95685	1,269.23	0.24
Pinewood Dr	Pioneer	95666	954.44	0.18
Pinto Rd	Pine Grove	95665	457.09	0.09
Pioneer Dr	Jackson	95642	10,246.90	1.94
Pioneer Trl	Pioneer	95666	389.10	0.07
Pitts Ct	Pine Grove	95665	1,172.97	0.22
Pitts Dr	Pine Grove	95665	1,875.87	0.36
Ponderosa Annex Rd	Volcano	95689	4,271.19	0.81
Ponderosa Dr	Volcano	95689	8,261.03	1.56
Ponderosa Hills Rd	Volcano	95689	1,548.37	0.29
Ponderosa Trl	Volcano	95689	2,922.23	0.55
Ponderosa Way	Jackson	95642	41,395.19	7.84
Prairie Dr	Volcano	95689	1,410.46	0.27
Presto Ln	Sutter Creek	95685	990.52	0.19
Primrose Ln	Pine Grove	95665	1,048.92	0.20
Prospect Pl	Pioneer	95666	487.86	0.09
Prospect St	Pine Grove	95665	283.77	0.05
Quail Ct	Pine Grove	95665	995.99	0.19
Quail Dr	Pine Grove	95665	2,926.12	0.55
Quail Ln	Pine Grove	95665	972.22	0.18
Quail Rd	Plymouth	95669	2,070.40	0.39
Quail Run Ln	Volcano	95689	2,288.38	0.43
Quail Trl	Jackson	95642	2,705.69	0.51
Quartz Rd	Pioneer	95666	1,003.06	0.19
Quartz Way	Jackson	95642	1,023.83	0.19
Quercus Ct	Volcano	95689	1,173.55	0.22
Quiet Oak Pl	Jackson	95642	823.77	0.16
Rabb Dr	Pioneer	95666	356.77	0.07
Raggio Ranch Rd	Jackson	95642	636.43	0.12
Rainbow Ln	Pine Grove	95665	1,601.30	0.30
Ranch Ln	Jackson	95642	761.13	0.14

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Rancheria Trl	Sutter Creek	95685	830.07	0.16
Ranchette Ct	Jackson	95642	705.56	0.13
Ranchette Dr	Jackson	95642	3,107.19	0.59
Rancho Canyon Rd	Sutter Creek	95685	10,741.25	2.03
Randolph Ct	Plymouth	95669	257.97	0.05
Randolph Dr	Plymouth	95669	2,095.81	0.40
Rapini Ct	Pine Grove	95665	216.82	0.04
Raquepaw Ln	Jackson	95642	1,855.21	0.35
Raven Rd	Pioneer	95666	1,187.20	0.22
Rebel Rd	Sutter Creek	95685	1,196.95	0.23
Red Hill Mine Rd	Pine Grove	95665	3,064.18	0.58
Red Mule Ranch Rd	Fiddletown	95629	774.97	0.15
Red Mule Rd	Volcano	95689	8,906.66	1.69
Redberry Ln	Jackson	95642	1,470.17	0.28
Redbud Ln	Pine Grove	95665	562.04	0.11
Redtail Rd	Pioneer	95666	1,517.38	0.29
Reeder Ln	Pioneer	95666	828.89	0.16
Richard Rd	Sutter Creek	95685	799.54	0.15
Ridge Crest Dr	Pioneer	95666	2,031.34	0.38
Ridge Ct	Sutter Creek	95685	3,693.90	0.70
Ridge Ln	Pioneer	95666	358.31	0.07
Ridge Top Rd	Sutter Creek	95685	2,270.71	0.43
Ridge View Dr	Sutter Creek	95685	3,845.32	0.73
Ridgeview Cir	Sutter Creek	95685	21,636.82	4.10
Robin Hood Dr	Pioneer	95666	3,964.14	0.75
Robin Ln	Pine Grove	95665	1,767.39	0.33
Robinson Rd	Pine Grove	95665	3,844.81	0.73
Rock Dr	Pine Grove	95665	951.69	0.18
Rocky Ln	Pioneer	95666	2,702.13	0.51
Rolling Hills Rd	Pioneer	95666	4,294.53	0.81
Rolling Oaks Ct	Fiddletown	95629	3,363.12	0.64
Rolling Wood Ct	Volcano	95689	352.42	0.07
Rossbridge Rd	Jackson	95642	2,441.29	0.46
S Cedar Ln	Pine Grove	95665	1,510.40	0.29
S Chaparral Ct	Pioneer	95666	350.80	0.07
S View Dr	Pioneer	95666	4,799.51	0.91
Salt Springs Rd	Pioneer	95666	27,021.79	5.12
Sandar Rd	Pine Grove	95665	5,081.77	0.96
Sandra Rd	Jackson	95642	8,850.93	1.68
Schaefer Ranch Rd	Pioneer	95666	5,245.27	0.99
School St	Plymouth	95669	796.98	0.15
Scottsville Blvd	Jackson	95642	1,148.60	0.22
Scout Way	Pioneer	95666	510.15	0.10
Scratch Ranch Rd	Volcano	95689	2,023.63	0.38
Sequoia Ln	Pine Grove	95665	440.81	0.08
Shadow Glenn Ct	Pine Grove	95665	808.81	0.15
Shady Glen Rd	Volcano	95689	1,379.16	0.26
Shake Ridge Ct	Volcano	95689	706.69	0.13
Sharon Ct	Pine Grove	95665	254.37	0.05
Sherwood Dr	Pioneer	95666	11,655.50	2.21
Shirley Rd	Jackson	95642	3,815.09	0.72
Shott Dr	Volcano	95689	719.87	0.14
Sierra Circle Dr	Pioneer	95666	2,981.67	0.56
Sierra Ct	Pioneer	95666	1,236.39	0.23
Sierra Pl	Jackson	95642	1,733.79	0.33
Sierra View Ln	Sutter Creek	95685	1,098.40	0.21
Silver Ct	Pine Grove	95665	185.30	0.04
Silver Oak Ln	Plymouth	95669	4,088.36	0.77
Silver Ridge Rd	Pine Grove	95665	1,837.35	0.35
Sky High Blvd	Pine Grove	95665	2,430.60	0.46

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Road Name	Nearest Situs Community	Nearest Situs Zip Code	Approximate Length of Road Feet	Miles
Sleepy Holw	Pine Grove	95665	116.82	0.02
Snooks Ln	Pine Grove	95665	624.34	0.12
Soke Springs Ranch Rd	Sutter Creek	95685	4,933.50	0.93
Sonshine Ln	Sutter Creek	95685	3,421.57	0.65
South Ct	Pioneer	95666	836.09	0.16
Spring Canyon Ln	Pine Grove	95665	830.02	0.16
Spring Ct	Pioneer	95666	1,596.70	0.30
Spring Rd	Pioneer	95666	1,998.65	0.38
Spurlock Ln	Pine Grove	95665	2,255.47	0.43
Squirrel Ct	Volcano	95689	460.41	0.09
Squirrel St	Volcano	95689	412.07	0.08
St Elizabeth Ln	Plymouth	95669	1,069.69	0.20
Stagecoach Rd	Volcano	95689	2,875.75	0.54
Starlight Dr	Pioneer	95666	1,748.23	0.33
Starview Ln	Sutter Creek	95685	3,335.15	0.63
Stell Ct	Pine Grove	95665	419.78	0.08
Steven Ln	Pine Grove	95665	381.30	0.07
Stirnaman Mine Rd	Pioneer	95666	5,181.69	0.98
Stone Jug Rd	Sutter Creek	95685	5,614.41	1.06
Suckertown Rd	Volcano	95689	20,346.20	3.85
Sugar Loaf Rd	Jackson	95642	2,708.04	0.51
Sugar Pine Dr S	Pine Grove	95665	5,246.91	0.99
Summit Pl	Jackson	95642	1,102.46	0.21
Suncatcher Ln	Pioneer	95666	802.51	0.15
Sunny Dr	Pioneer	95666	808.69	0.15
Sunrise Ct	Pine Grove	95665	378.21	0.07
Sunrise Pl	Pioneer	95666	458.94	0.09
Sunrise Ter	Pioneer	95666	1,569.00	0.30
Sunset Ct N	Pioneer	95666	1,907.12	0.36
Susan Ct	Pioneer	95666	223.76	0.04
Susan Ln	Pioneer	95666	802.88	0.15
Susans Rd	Sutter Creek	95685	3,639.38	0.69
Sutter Cir	Sutter Creek	95685	2,223.59	0.42
Sutter Creek Dump Rd	Sutter Creek	95685	2,230.94	0.42
Sutter Highlands Dr	Sutter Creek	95685	13,442.14	2.55
Sweet Pea Way	Sutter Creek	95685	1,180.64	0.22
Sylvan Rd	Pioneer	95666	1,168.27	0.22
Sylvia Dr	Pine Grove	95665	445.90	0.08
Tabeau Ct	Pine Grove	95665	742.94	0.14
Tank Ct	Pine Grove	95665	456.85	0.09
Tank Dr	Pine Grove	95665	1,373.97	0.26
Tannery Ln	Pine Grove	95665	1,044.96	0.20
Tanyard Hill Rd	Pine Grove	95665	3,367.37	0.64
Tanyard Hill Rd W	Pine Grove	95665	1,094.63	0.21
Tanyard Ln	Pine Grove	95665	2,369.47	0.45
Tera Ln	Sutter Creek	95685	285.99	0.05
Thomas Dr	Jackson	95642	3,166.26	0.60
Timber Ridge Rd	Jackson	95642	3,903.46	0.74
Timberlin Dr	Pioneer	95666	10,350.45	1.96
Timberline Dr	Volcano	95689	1,517.38	0.29
Tobacco Rd	Pine Grove	95665	1,380.64	0.26
Toma Ln	Pine Grove	95665	3,221.52	0.61
Toyon Ct	Sutter Creek	95685	1,332.05	0.25
Toyon Rd	Jackson	95642	6,975.68	1.32
Trembath Mtn Rd	Sutter Creek	95685	6,576.33	1.25
Tuggie Dr	Sutter Creek	95685	1,314.19	0.25
Twin Pines Rd	Sutter Creek	95685	8,238.98	1.56
Tyleranne Ln	Volcano	95689	464.15	0.09
Unnamed Rd	Volcano	95689	12,817.61	2.43
Upper Barton Rd	Pioneer	95666	443.24	0.08

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Road Name	Nearest Situs Community	Nearest Situs Zip Code	Approximate Length of Road Feet	Miles
Valley Blvd	Jackson	95642	1,672.84	0.32
Valley Bottom Rd	Pine Grove	95665	1,500.27	0.28
Valley Creek Dr	Sutter Creek	95685	5,021.05	0.95
Valley Dr	Plymouth	95669	6,927.17	1.31
Valley View Ct	Pine Grove	95665	506.62	0.10
Valley View Dr	Pioneer	95666	546.96	0.10
Valley Vista Ct	Pine Grove	95665	2,025.61	0.38
Van De Hei Ranch Rd	Pioneer	95666	4,639.70	0.88
View Cir	Volcano	95689	4,728.19	0.90
View Terrace St	Jackson	95642	3,330.46	0.63
Vineyard Ln	Sutter Creek	95685	1,059.95	0.20
Vista Ln	Pioneer	95666	3,117.75	0.59
Volcano Hills Rd	Pioneer	95666	5,187.42	0.98
Volcano Trl	Pioneer	95666	4,350.66	0.82
W Diamond View Dr	Pine Grove	95665	1,443.73	0.27
W Hill Dr	Jackson	95642	1,303.77	0.25
W Mitchell Mine Rd	Pine Grove	95665	3,733.02	0.71
W View	Pine Grove	95665	792.08	0.15
W View Dr	Sutter Creek	95685	3,064.04	0.58
Wagonwheel Dr N	Volcano	95689	930.38	0.18
Walnut St	Pine Grove	95665	537.70	0.10
Wandering Hills Ct	Pioneer	95666	595.73	0.11
Wandering Hills Rd	Pioneer	95666	5,648.11	1.07
Warner Rd E	Pine Grove	95665	2,407.56	0.46
Warner Rd W	Pine Grove	95665	703.16	0.13
Wella Hill Dr	Jackson	95642	888.95	0.17
West Ct	Pine Grove	95665	171.65	0.03
Whinney Way	Pioneer	95666	325.83	0.06
White Oak Rd	Plymouth	95669	3,191.58	0.60
Whitmore Dr	Pioneer	95666	2,666.97	0.51
Wild Iris Ln	Pine Grove	95665	2,234.86	0.42
Wild Life Trl	Fiddletown	95629	1,418.05	0.27
Wild Pine Dr	Pine Grove	95665	649.65	0.12
Wildberry Ln	Volcano	95689	1,962.86	0.37
Wildcat Way	Volcano	95689	1,724.92	0.33
Wilderness Way	Jackson	95642	1,997.55	0.38
Wildflower Dr	Pioneer	95666	2,071.83	0.39
Wildflower Ln	Pine Grove	95665	814.07	0.15
Wildwood Way	Volcano	95689	556.18	0.11
Wilma Ct	Sutter Creek	95685	399.10	0.08
Windmill Ct	Pine Grove	95665	1,193.67	0.23
Winton Rd	Sutter Creek	95685	972.86	0.18
Wood Rd	Pioneer	95666	4,622.95	0.88
Woodland Rd	Pioneer	95666	3,391.27	0.64
Woodridge Dr	Pioneer	95666	3,227.39	0.61
Woodroof Rd	Pine Grove	95665	552.80	0.10
Woodside Ln	Pine Grove	95665	1,428.03	0.27
Yew Trl	Fiddletown	95629	150.71	0.03
		TOTAL	**1,455,499.10**	**273.45**

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CNDDB/BIOS Export: Amador County Occurrer
Query Parameters: 1,000 min elevation, 4,500
Ran by Patrick McDaniel, CALFIRE, Jan 27, 2021

Scientific_Name
Banksula rudolphi
Banksula grubbsi
Stygobromus gradyi
Chrysis tularensis
Stygobromus gradyi
Stygobromus grahami
Sphenopholis obtusata
Stygobromus gradyi
Stygobromus grahami
Stygobromus grahami
Sphenopholis obtusata
Sphenopholis obtusata
Eryngium pinnatisectum
Sphenopholis obtusata
Eryngium pinnatisectum
Chlorogalum grandiflorum
Chlorogalum grandiflorum
Balsamorhiza macrolepis
Chlorogalum grandiflorum
Chlorogalum grandiflorum
Chlorogalum grandiflorum
Desmocerus californicus dimorphus
Agelaius tricolor
Erethizon dorsatum
Erethizon dorsatum
Erethizon dorsatum
Emys marmorata
Rana boylii
Emys marmorata
Emys marmorata
Emys marmorata
Emys marmorata
Emys marmorata
Emys marmorata
Emys marmorata

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Emys marmorata
Emys marmorata
Corynorhinus townsendii
Agelaius tricolor
Rana boylii
Rana boylii
Rana boylii
Rana boylii
Rana boylii

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ıces.
max elevation

Common_Name	Element_Code	Occ_Number	**Latitude**
Rudolph's cave harvestman	ILARA14080	1	38.28549 / -1
Grubbs' cave harvestman	ILARA14060	1	38.43227 / -1
Grady's Cave amphipod	ICMAL05460	2	38.43924 / -1
Tulare cuckoo wasp	IIHYM72010	3	38.47888 / -1
Grady's Cave amphipod	ICMAL05460	3	38.58909 / -1
Graham's Cave amphipod	ICMAL05920	4	38.44248 / -1
prairie wedge grass	PMPOA5T030	5	38.35004 / -1
Grady's Cave amphipod	ICMAL05460	5	38.45498 / -1
Graham's Cave amphipod	ICMAL05920	5	38.45498 / -1
Graham's Cave amphipod	ICMAL05920	6	38.44565 / -1
prairie wedge grass	PMPOA5T030	9	38.42537 / -1
prairie wedge grass	PMPOA5T030	10	38.37755 / -1
Tuolumne button-celery	PDAPI0Z0P0	15	38.41382 / -1
prairie wedge grass	PMPOA5T030	17	38.38875 / -1
Tuolumne button-celery	PDAPI0Z0P0	31	38.47546 / -1
Red Hills soaproot	PMLIL0G020	36	38.43181 / -1
Red Hills soaproot	PMLIL0G020	37	38.41938 / -1
big-scale balsamroot	PDAST11061	43	38.37402 / -1
Red Hills soaproot	PMLIL0G020	46	38.45029 / -1
Red Hills soaproot	PMLIL0G020	59	38.49551 / -1
Red Hills soaproot	PMLIL0G020	60	38.42772 / -1
valley elderberry longhorn beetle	IICOL48011	231	38.33769 / -1
tricolored blackbird	ABPBXB0020	259	38.44064 / -1
North American porcupine	AMAFJ01010	352	38.35349 / -1
North American porcupine	AMAFJ01010	353	38.41852 / -1
North American porcupine	AMAFJ01010	354	38.4109 / -12
western pond turtle	ARAAD02030	443	38.40040 / -1
foothill yellow-legged frog	AAABH01050	450	38.42500 / -1
western pond turtle	ARAAD02030	498	38.33718 / -1
western pond turtle	ARAAD02030	499	38.35290 / -1
western pond turtle	ARAAD02030	555	38.49600 / -1
western pond turtle	ARAAD02030	556	38.49295 / -1
western pond turtle	ARAAD02030	557	38.49050 / -1
western pond turtle	ARAAD02030	558	38.49623 / -1
western pond turtle	ARAAD02030	559	38.52199 / -1

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western pond turtle	ARAAD02030	564	38.33868 / -1
western pond turtle	ARAAD02030	565	38.34394 / -1
Townsend's big-eared bat	AMACC08010	621	38.42199 / -1
tricolored blackbird	ABPBXB0020	964	38.29261 / -1
foothill yellow-legged frog	AAABH01050	1928	38.47888 / -1
foothill yellow-legged frog	AAABH01050	1929	38.47324 / -1
foothill yellow-legged frog	AAABH01050	1930	38.39324 / -1
foothill yellow-legged frog	AAABH01050	1931	38.38586 / -1
foothill yellow-legged frog	AAABH01050	1932	38.32068 / -1

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Longitude
20.83000
20.62370
20.62972
20.84774
20.84447
20.62178
20.77198
20.63287
20.63287
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20.83158
20.56406
20.63066
20.64412
20.77539
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20.64566
20.76978
20.76363
20.83397
20.84608
20.84105
20.83768
20.84716

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20.76527
20.76867
20.67359
20.81785
20.84774
20.6983
20.79144
20.68655
20.75257

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Detailed Location

CHROME CAVE, NEAR JACKSON AND PARDEE RESERVOIR.
BLACK CHASM CAVERN, ABOUT 0.75 MILE SOUTHEAST OF VOLCANO.
MASONIC CAVE, JUST ACROSS SUTTER CREEK FROM VOLCANO.
PLYMOUTH.
COSUMNES RIVER, NORTH OF PLYMOUTH
SOLDIER CREEK CAVE, AMADOR COUNTY.
JACKSON.
LULEBELL CAVE (LULU BELL CAVE), 1.5 KM NORTH OF VOLCANO
LULEBELL CAVE (LULU BELL CAVE), 1.5 KM NORTH OF VOLCANO
FERN FROND CAVE, ALONG PONDEROSA WAY ABOUT 0.9 MILES E OF THE SHAKE RIDGE RD JUNCTION
INDIAN GRINDING ROCK STATE HISTORIC PARK, 2 KM NE OF PINE GROVE.
0.3 MI S OF TANNER RESERVOIR, 0.4 MI E OF COUNTY AIRPORT. ON NORTH SIDE OF ONEIDA CREEK.
PINE GROVE; AMADOR COUNTY.
IRISHTOWN, AMADOR COUNTY.
ABOUT 0.5 MILE SOUTH OF PLYMOUTH.
RIDGE ABOUT 1.25 MILE NORTH OF PINE GROVE.
0.5 MILE NORTHEAST OF PINE GROVE.
STONY CREEK.
SOUTH VIEW DRIVE, RIDGE BETWEEN MISERY AND PIONEER CREEKS, 1.3 AIR MILES NNE OF PIONEER.
0.5 MILE NORTH OF FORT ANN MINE.
NORTHERN EDGE OF INDIAN GRINDING ROCK STATE HISTORIC PARK
PRIVATE ROAD OFF OF FRENCH BAR RD, ABOUT 0.5 MILE SW OF INTERSECTION WITH HWY 49
NEAR DRYTOWN.
ALONG HOFFMAN ST, NEAR ARGONAUT LN INTERSECTION, 0.9 MI W OF HWY 49 INTERSECTION, JACKS
ABOUT 0.2 MI W OF PINE GROVE VOLCANO RD AT WARNER RD, 0.6 MI NE OF HWY 88 AT PINE GROVE
ABOUT 0.9 MI WSW OF HWY 88 AT HWY 104, 1.7 MI E OF HWY 88 AT PINE GROVE VOLCANO RD, PINE
GRASS VALLEY CREEK, 2.1 MILES EAST OF PINE GROVE ON HIGHWAY 88.
ELSE CREEK, INDIAN GRINDING ROCK STATE HISTORIC PARK, 1.1 MILES NE OF PINE GROVE
SOUTHERN END OF MOORE DITCH, SOUTH OF JACKSON.
JACKSON CREEK, 0.5 MILE EAST OF JACKSON.
BIG INDIAN CREEK, 0.25 MILE WEST OF SHENANDOAH ROAD, 1.1 MILE NNE OF PLYMOUTH
BIG INDIAN CREEK, JUST EAST OF HIGHWAY 49, 0.75 MILE NORTH OF PLYMOUTH.
BIG INDIAN CREEK, 0.4 MILE EAST OF HIGHWAY 49, 0.6 MILE NORTH OF PLYMOUTH.
0.6 MILE EAST OF HIGHWAY 49, 1.1 MILES NORTH OF PLYMOUTH
BIG INDIAN CREEK, JUST EAST OF HIGHWAY 49, 2.75 MILES NORTH OF PLYMOUTH.

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0.3 MILE SSE OF THE INTERSECTION OF FRENCH BAR ROAD AND HIGHWAY 49, SE OF JACKSON.
SOUTH FORK OF JACKSON CREEK, ON THE NORTH SIDE OF HIGHWAY 49, 0.3 MILE SE OF THE HIGHWAY
MINE SAFTS ALONG PONDEROSA WAY ABOUT 1 MILE NW OF PINE GROVE & 1 MILE SOUTH OF SUTTER
ON N SIDE OF NE ARM OF PARDEE RESERVOIR, ABOUT 1 MI ENE OF CHROME MOUNTAIN PEAK, 4.5 MI
VICINITY OF PLYMOUTH, NEAR HIGHWAY 49.
SOUTH FORK DRY CREEK AT HALE ROAD, ABOUT 8 MILES EAST OF PLYMOUTH.
SUTTER CREEK VOLCANO ROAD, ABOUT 0.5 MILE EAST OF OLD HIGHWAY 49, JUST EAST OF THE CITY O
HIGHWAY 88 NEAR CLINTON PEAK, 5.5 ROAD MILES NE OF JACKSON.
MIDDLE BAR ROAD, 0.9 MILE SOUTH OF HIGHWAY 49, HUNT GULCH, SOUTH OF JACKSON.

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MAPNDX	EONDX	Key_Quad_Cc	Key_Quad_Name	Key_County_(	Accuracy
58602	58638	3812037	Jackson	AMA	3/5 mile
58626	58662	3812045	West Point	AMA	1/10 mile
59223	59259	3812046	Pine Grove	AMA	1/10 mile
67450	67617	3812047	Amador City	AMA	3/5 mile
59576	59612	3812046	Pine Grove	AMA	80 meters
B5311	118270	3812045	West Point	AMA	1/5 mile
21497	15130	3812037	Jackson	AMA	3/5 mile
87849	88840	3812046	Pine Grove	AMA	1/10 mile
59223	118273	3812046	Pine Grove	AMA	1/10 mile
59576	118275	3812046	Pine Grove	AMA	80 meters
21874	14252	3812046	Pine Grove	AMA	80 meters
40421	35428	3812047	Amador City	AMA	1/10 mile
57563	57579	3812046	Pine Grove	AMA	3/5 mile
80358	81346	3812046	Pine Grove	AMA	1 mile
B5368	118332	3812047	Amador City	AMA	2/5 mile
30918	3921	3812046	Pine Grove	AMA	specific area
30919	3920	3812046	Pine Grove	AMA	specific area
90022	91036	3812037	Jackson	AMA	non-specific a
50972	50972	3812045	West Point	AMA	specific area
69717	70504	3812046	Pine Grove	AMA	2/5 mile
69718	70505	3812046	Pine Grove	AMA	specific area
94738	95856	3812037	Jackson	AMA	80 meters
24011	8649	3812047	Amador City	AMA	1 mile
A5769	107513	3812037	Jackson	AMA	non-specific a
A5770	107514	3812046	Pine Grove	AMA	1/10 mile
A5779	107548	3812045	West Point	AMA	3/5 mile
32821	1425	3812046	Pine Grove	AMA	1/5 mile
68745	69226	3812046	Pine Grove	AMA	80 meters
38429	33436	3812037	Jackson	AMA	80 meters
38430	33437	3812037	Jackson	AMA	80 meters
49240	49240	3812047	Amador City	AMA	80 meters
49241	49241	3812047	Amador City	AMA	80 meters
49242	49242	3812047	Amador City	AMA	80 meters
49243	49243	3812047	Amador City	AMA	80 meters
49244	49244	3812057	Fiddletown	AMA	80 meters

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	49438	49438	3812037	Jackson	AMA	80 meters
	49439	49439	3812037	Jackson	AMA	80 meters
	94382	95500	3812046	Pine Grove	AMA	2/5 mile
A1924		103521	3812037	Jackson	AMA	80 meters
	67450	111278	3812047	Amador City	AMA	3/5 mile
A9430		111279	3812046	Pine Grove	AMA	1/5 mile
A9434		111283	3812047	Amador City	AMA	1/5 mile
A9437		111286	3812046	Pine Grove	AMA	2/5 mile
A9440		111289	3812037	Jackson	AMA	1/5 mile

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Presence	Occ_Type	Occ_Rank	Sensitive	Site_Date
Presumed Extant	Natural/Native occurrence	Unknown	N	19810124
Presumed Extant	Natural/Native occurrence	Unknown	N	19780219
Presumed Extant	Natural/Native occurrence	Unknown	Y	19871017
Presumed Extant	Natural/Native occurrence	Unknown	N	XXXXXXXX
Presumed Extant	Natural/Native occurrence	Unknown	Y	19790415
Presumed Extant	Natural/Native occurrence	Unknown	N	19610903
Presumed Extant	Natural/Native occurrence	Unknown	N	1892XXXX
Presumed Extant	Natural/Native occurrence	Unknown	Y	20101223
Presumed Extant	Natural/Native occurrence	Unknown	Y	19881017
Presumed Extant	Natural/Native occurrence	Unknown	Y	19790415
Presumed Extant	Natural/Native occurrence	Unknown	N	19830623
Presumed Extant	Natural/Native occurrence	Good	N	19980615
Presumed Extant	Natural/Native occurrence	Unknown	N	189206XX
Presumed Extant	Natural/Native occurrence	Unknown	N	18950520
Presumed Extant	Natural/Native occurrence	Unknown	N	19470428
Presumed Extant	Natural/Native occurrence	Good	N	20110624
Presumed Extant	Natural/Native occurrence	Good	N	20050615
Presumed Extant	Natural/Native occurrence	Unknown	N	189504XX
Presumed Extant	Natural/Native occurrence	Fair	N	20010612
Presumed Extant	Natural/Native occurrence	Unknown	N	19970527
Presumed Extant	Natural/Native occurrence	Good	N	20050615
Presumed Extant	Natural/Native occurrence	Good	N	20110519
Presumed Extant	Natural/Native occurrence	Unknown	N	20150424
Presumed Extant	Natural/Native occurrence	Unknown	N	20130312
Presumed Extant	Natural/Native occurrence	Unknown	N	20141120
Presumed Extant	Natural/Native occurrence	Unknown	N	20130215
Presumed Extant	Natural/Native occurrence	Unknown	N	19880816
Presumed Extant	Natural/Native occurrence	Fair	N	20040701
Extirpated	Natural/Native occurrence	None	N	19970610
Presumed Extant	Introduced Back into Native Hab	Good	N	19970610
Presumed Extant	Natural/Native occurrence	Good	N	20020711
Presumed Extant	Natural/Native occurrence	Good	N	20020711
Presumed Extant	Natural/Native occurrence	Good	N	20020711
Presumed Extant	Natural/Native occurrence	Good	N	20020711
Presumed Extant	Natural/Native occurrence	Good	N	20020711

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Presumed Extant	Natural/Native occurrence	Good	N	20021015
Presumed Extant	Natural/Native occurrence	Fair	N	20021015
Presumed Extant	Natural/Native occurrence	Unknown	N	19570807
Presumed Extant	Natural/Native occurrence	Unknown	N	20110415
Extirpated	Natural/Native occurrence	None	N	19420412
Extirpated	Natural/Native occurrence	None	N	19750709
Extirpated	Natural/Native occurrence	None	N	1946XXXX
Extirpated	Natural/Native occurrence	None	N	19650222
Extirpated	Natural/Native occurrence	None	N	20170624

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Elm_Date	Owner_Management	Federal_Status	State_Status	Global_Rank	State_Rank
19810124	UNKNOWN	None	None	G1	S1
19780219	PVT	None	None	G1	S1
19871017	UNKNOWN	None	None	G1	S1
XXXXXXXX	UNKNOWN	None	None	G1G2	S1S2
19790415	UNKNOWN	None	None	G1	S1
19610903	UNKNOWN	None	None	G2	S2
1892XXXX	UNKNOWN	None	None	G5	S2
20101223	UNKNOWN	None	None	G1	S1
19881017	PVT	None	None	G2	S2
19790415	UNKNOWN	None	None	G2	S2
19830623	DPR-INDIAN GRINDING ROCI	None	None	G5	S2
19980615	PVT	None	None	G5	S2
189206XX	UNKNOWN	None	None	G2	S2
18950520	UNKNOWN	None	None	G5	S2
19470428	UNKNOWN	None	None	G2	S2
20110624	PVT	None	None	G3	S3
20050615	BLM; DPR; PVT	None	None	G3	S3
189504XX	UNKNOWN	None	None	G2	S2
20010612	BLM; PVT	None	None	G3	S3
19970527	UNKNOWN	None	None	G3	S3
20050615	DPR-INDIAN GRINDING ROCI	None	None	G3	S3
20110519	PVT	Threatened	None	G3T2	S3
19860421	UNKNOWN	None	Threatened	G2G3	S1S2
20130312	UNKNOWN	None	None	G5	S3
20141120	DPR-INDIAN GRINDING ROCI	None	None	G5	S3
20130215	UNKNOWN	None	None	G5	S3
19880816	UNKNOWN	None	None	G3G4	S3
20040701	DPR-INDIAN GRINDING ROCI	None	Endangered	G3	S3
19970610	UNKNOWN	None	None	G3G4	S3
19970610	UNKNOWN	None	None	G3G4	S3
20020711	PVT	None	None	G3G4	S3
20020710	PVT	None	None	G3G4	S3
20020711	PVT	None	None	G3G4	S3
20020708	PVT	None	None	G3G4	S3
20020711	PVT	None	None	G3G4	S3

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20021015	PVT	None	None	G3G4	S3
20021015	CITY OF JACKSON	None	None	G3G4	S3
19570807	UNKNOWN	None	None	G3G4	S2
20110415	EBMUD; PVT	None	Threatened	G2G3	S1S2
19420412	UNKNOWN	None	Endangered	G3	S3
19750709	PVT	None	Endangered	G3	S3
1946XXXX	UNKNOWN	None	Endangered	G3	S3
19650222	PVT	None	Endangered	G3	S3
19650222	UNKNOWN	None	Endangered	G3	S3

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		IUCN_VU	804	Crustaceans		115206.7656
			804	Insects		5132143.113
		IUCN_VU	801	Crustaceans		32617.74219
			204	Crustaceans		460870.9375
2B.2			104	Monocots		5089218.531
		IUCN_VU	204	Crustaceans		115256.625
			804	Crustaceans		115206.7656
			801	Crustaceans		32617.74219
2B.2			101	Monocots		32634.98438
2B.2			104	Monocots		115007.5391
1B.2			104	Dicots		5123269.461
2B.2			104	Monocots		13106120.38
1B.2			104	Dicots		1847462.156
1B.2		BLM_S	102	Monocots		255094.7813
1B.2		BLM_S	102	Monocots		92708.05078
1B.2		BLM_S; USFS_	103	Dicots		294283.8789
1B.2		BLM_S	102	Monocots		135781.1211
1B.2		BLM_S	104	Monocots		1848307.098
1B.2		BLM_S	102	Monocots		209587.0781
			201	Insects		32596.63281
	SSC	BLM_S; IUCN_	204	Birds		13124366.99
		IUCN_LC	203	Mammals		82498.96484
		IUCN_LC	204	Mammals		114853.4219
		IUCN_LC	204	Mammals		5123401.75
	SSC	BLM_S; IUCN_	204	Reptiles		458610.0664
	SSC	BLM_S; IUCN_	201	Amphibians		32674.78125
	SSC	BLM_S; IUCN_	201	Reptiles		32519.90625
	SSC	BLM_S; IUCN_	201	Reptiles		32533.92578
	SSC	BLM_S; IUCN_	201	Reptiles		32738.5
	SSC	BLM_S; IUCN_	201	Reptiles		32735.71094
	SSC	BLM_S; IUCN_	201	Reptiles		32733.51172
	SSC	BLM_S; IUCN_	201	Reptiles		32738.6875
	SSC	BLM_S; IUCN_	201	Reptiles		32762.39844

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SSC	BLM_S; IUCN_	201	Reptiles	32597.16797
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SSC	BLM_S; IUCN_	204	Mammals	1844697.711
SSC	BLM_S; IUCN_	201	Birds	32481.17969
SSC	BLM_S; IUCN_	804	Amphibians	5132143.113
SSC	BLM_S; IUCN_	204	Amphibians	461260.7773
SSC	BLM_S; IUCN_	204	Amphibians	460248.3594
SSC	BLM_S; IUCN_	204	Amphibians	1842082.426
SSC	BLM_S; IUCN_	204	Amphibians	459334.3203

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Amador Fire Safe Council:
Private Road Ingress/Egress Project

NRCS Soils Information

February 18, 2022

U.S. Department of Agriculture, Natural Resources Conservation Service
20210903
Soil Survey Geographic (SSURGO) database for Amador Area, California

https://websoilsurvey.sc.egov.usda.gov/

This data set is a digital soil survey and generally is the most detailed level of soil geographic data developed by the National Cooperative Soil Survey. The information was prepared by digitizing maps, by compiling information onto a planimetric correct base and digitizing, or by revising digitized maps using remotely sensed and other information. This data set consists of georeferenced digital map data and computerized attribute data. The map data are in a soil survey area extent format and include a detailed, field verified inventory of soils and miscellaneous areas that normally occur in a repeatable pattern on the landscape and that can be cartographically shown at the scale mapped. A special soil features layer (point and line features) is optional. This layer displays the location of features too small to delineate at the mapping scale, but they are large enough and contrasting enough to significantly influence use and management. The soil map units are linked to attributes in the National Soil Information System relational database, which gives the proportionate extent of the component soils and their properties.
SSURGO depicts information about the kinds and distribution of soils on the landscape. The soil map and data used in the SSURGO product were prepared by soil scientists as part of the National Cooperative Soil Survey.
Digital versions of hydrography, cultural features, and other associated layers that are not part of the SSURGO data set may be available from the primary organization listed in the Point of Contact.

Specific Soil Data Query:
Amador Fire Safe Council, Private Road Ingress/Egress Project

Description of Soil Assessment Area

This project will treat fuels and vegetation up to 20 feet on each side of Amador County private roads. The resulting shape files for this area are areas "…too small to delineate…" with the NRCS on-line Web Soil Series (WSS) tool. In addition, the actual soil types for the actual road-side regions of this project have been extensively altered by actual road construction and maintenance. This results in cuts and fills which have significantly altered the soil structure in—and around—the road prisms in these areas. The soil series information for these linear road features are therefore not representative of the roadside cuts, fills, ditches, road shoulders, and the actual road prisms. This project will likely incorporate many of these cuts, fills, ditches, and road shoulders as part of the treated areas. The actual road prisms have been additionally altered by compaction of native surfaces, or by surface treatments such as rock or asphalt. To characterize the soil types and soil properties of the project area, data has been collected in this report for the entire region of the project and all of the surrounding areas. This area has been further broken down into two geographical regions: a lower-elevation Western Region and a higher-elevation Eastern Region. For soil assessment purposes, the Western Region includes the area from Pine Grove west to the western edge of the project at Highway 49, and includes an area of 60,451 acres. The Eastern Region includes the area from Pine Grove east to the eastern edge of the project, which is just west of the CalFire Dew Drop Fire Station. This area is 36,766 acres.

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Soil Displacement Hazard

This NRCS query tool was run to determine potential soil displacement or erosion from project operations. The results of this query indicate that between 75% and 85% of soils in and surrounding the project area have only a “slight” soil displacement hazard and an additional 12% to 16% of soils have a “moderate” soil displacement hazard. (See the Summary Rating Table on the next page). Note that this hazard rating grossly over-estimates the potential for displacement of soils for this project. This project will result in no ground disturbance and will result in chips or masticated material covering a very large percent of the actual project area. This layer of chips will act as a mulch to reduce surface soil displacement, whereas the actual NRCS Soil Displacement Hazard interpretation assumes “…scraping or machine gouging…” of soils from operations. This scraping or machine gouging would act to exacerbate soil displacement.

A description of the NRCS Soil Displacement Hazard Interpretation is presented below:

This interpretation is designed to predict the hazard for soil displacement from operation of ground-based equipment for forest harvesting and site preparation activities whether the soils are dry or moist. Displacement is the horizontal movement of soil caused by scraping or machine gouging. Displacement can remove the organic forest litter and upper portions of the mineral surface layer, reducing the availability of plant nutrients and the soil’s water-holding capacity. This results in a loss of site productivity for forest vegetation.

Displacement most commonly occurs during slash disposal and site preparation activities when a blade attachment is used with equipment rather than a brush rake attachment. Tractors maneuvering on dry, loose soil can also cause displacement.

Interpretation ratings are based on soil properties in the upper 12 inches of the profile. Factors considered are soil texture, rock fragment content, and thickness of surface layers with at least 1 percent organic matter. Initial ratings are based on the following soil texture groups:

Low displacement hazard: silty clay, clay, sandy clay, silty clay loam

Medium displacement hazard: silt, silt loam, loam, sandy clay loam, very fine sandy loam

High displacement hazard: sandy loam, loamy sand, sand, ashy loam, ashy silt loam, medial loam, medial silt loam

Ratings are reduced by one class, such as from "high" to "medium," if the surface layers with 1 percent or more percent organic matter are more than 6 inches thick. Ratings are reduced by one class for rock fragment content of 35 to 60 percent by volume and are reduced by two classes for rock fragment content of greater than 60 percent.

The ratings are both verbal and numerical. Rating class terms indicate the soil displacement hazard.

A "High" rating indicates that the soils can be readily displaced by equipment operations. They have little resistance to movement. Unless protective measures are implemented, detrimental displacement is probable.

A "Medium" rating indicates that the soils can be displaced by equipment operations but are intermediate in their resistance to movement.

A "Low" rating indicates that soils are resistant to displacement. Detrimental displacement is not likely to occur during equipment operations.

Numerical ratings indicate the soil displacement hazard. The ratings are shown in decimal fractions ranging from 1.00 to 0.00. They indicate gradations between the point where displacement hazard is

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highest (1.00) and the point at which displacement hazard is lowest (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

SOIL DISPLACEMENT HAZARD RATING:

Summary by Rating Value: WEST REGION

Collapse Summary by Rating Value

Summary by Rating Value

Rating	Acres in AOI	Percent of AOI
Slight	45,041.10	74.50%
Moderate	10,224.90	16.90%
Severe	4,444.00	7.40%
Null or Not Rated	733	1.20%
Totals for Area of Interest	**60,451.40**	**100.00%**

Summary by Rating Value: EAST REGION

Collapse Summary by Rating Value

Summary by Rating Value

Rating	Acres in AOI	Percent of AOI
Slight	31,611.80	86.00%
Moderate	4,609.90	12.50%
Severe	375.8	1.00%
Null or Not Rated	160.1	0.40%
Totals for Area of Interest	**36,766.20**	**100.00%**

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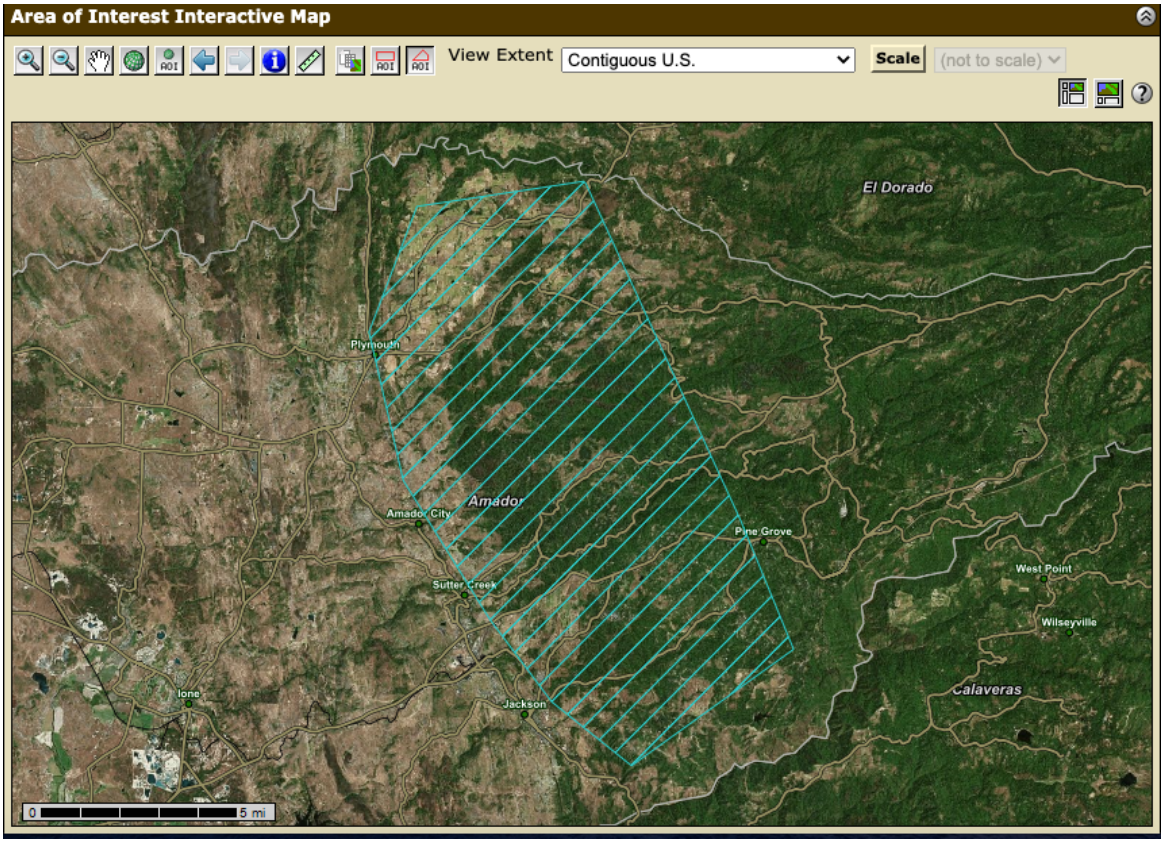
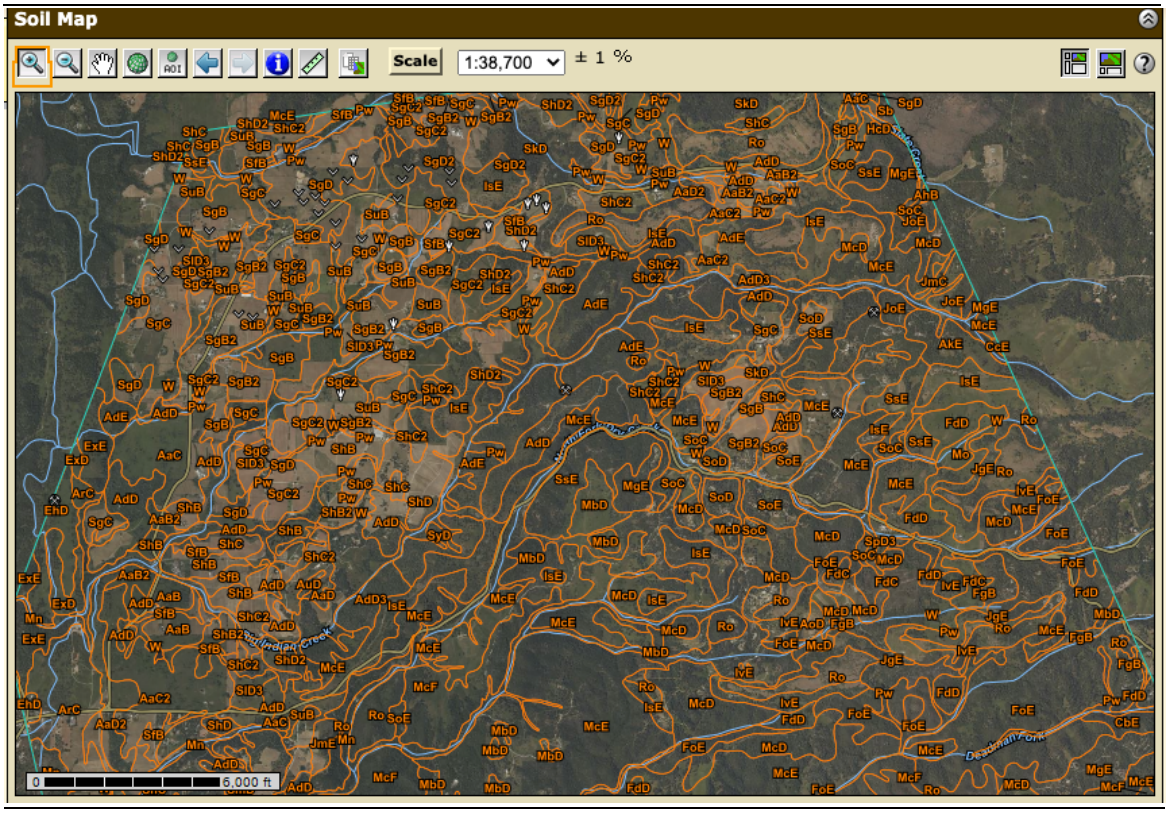
WESTERN REGION SOIL TYPE MAPS





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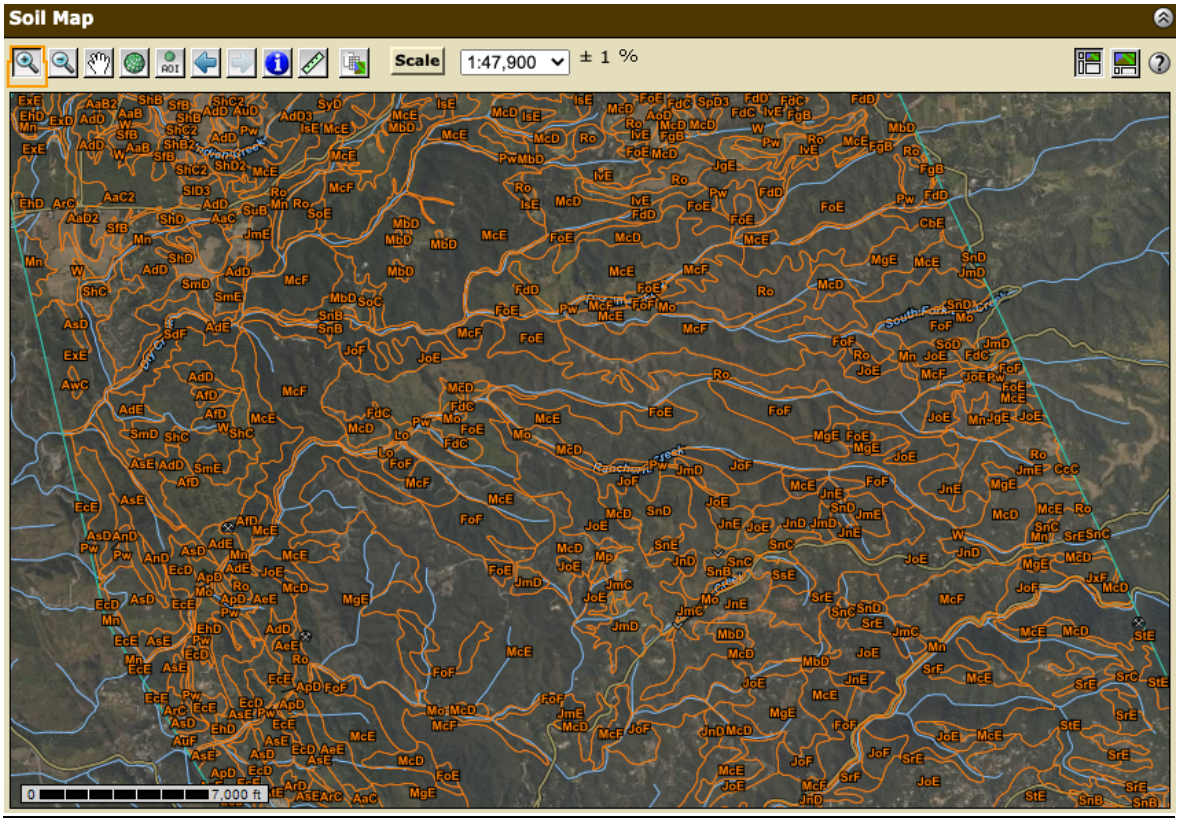

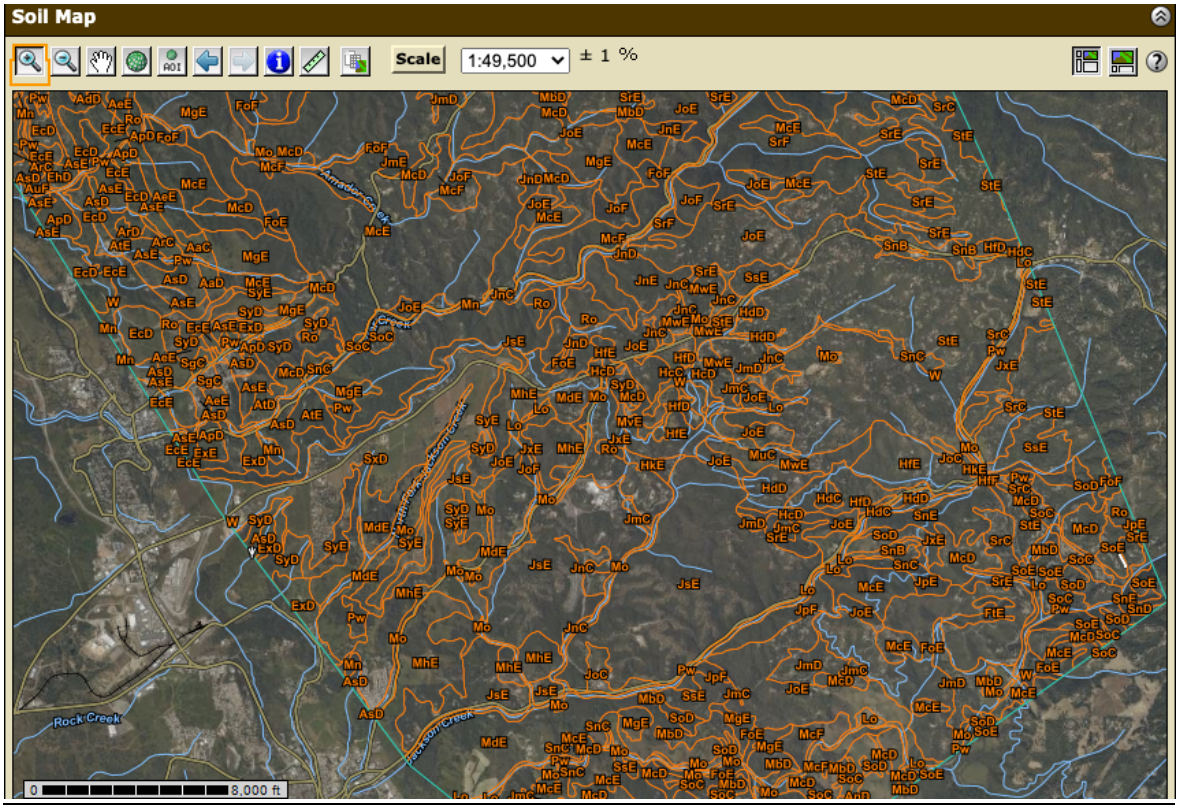

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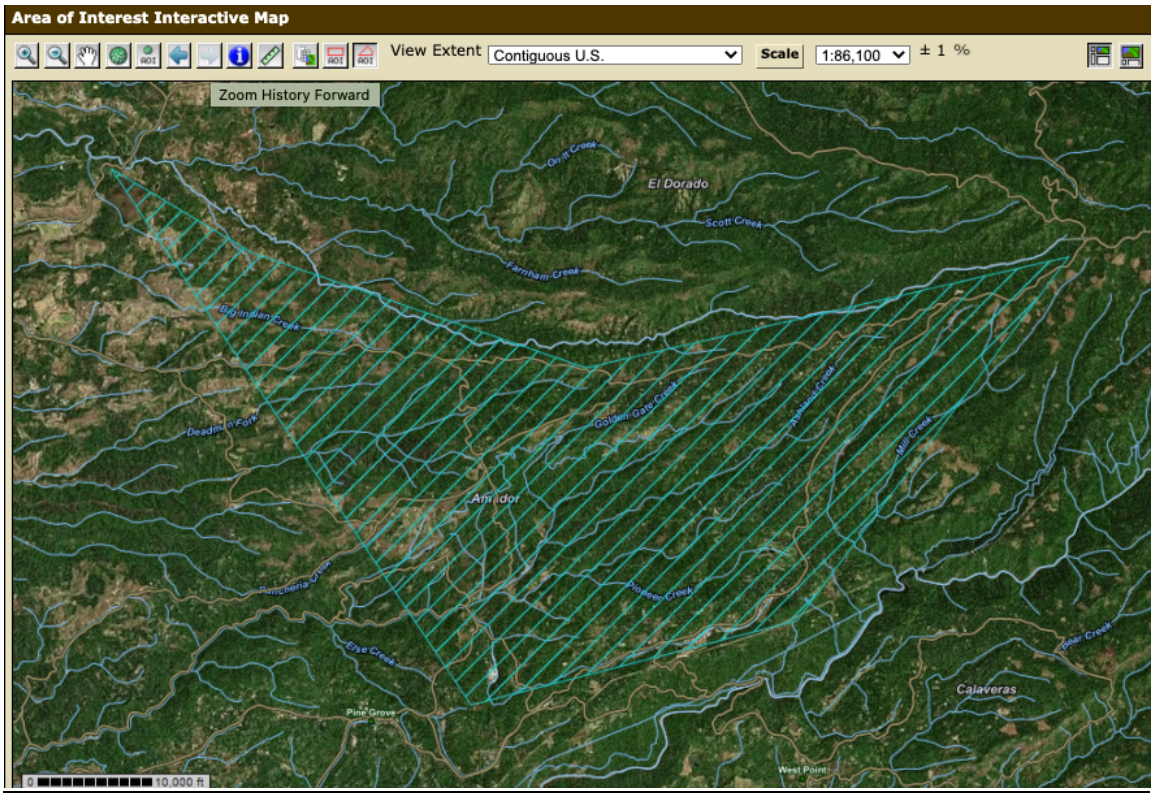
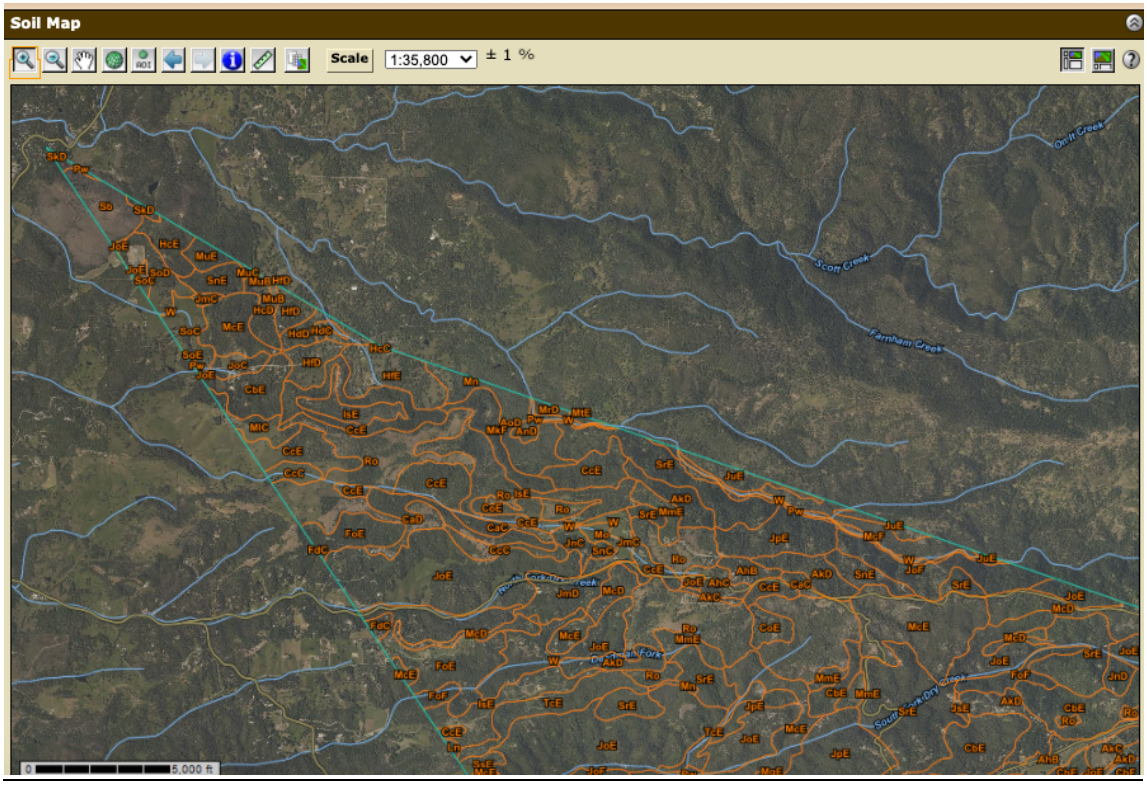
EASTERN REGION SOIL TYPE MAPS





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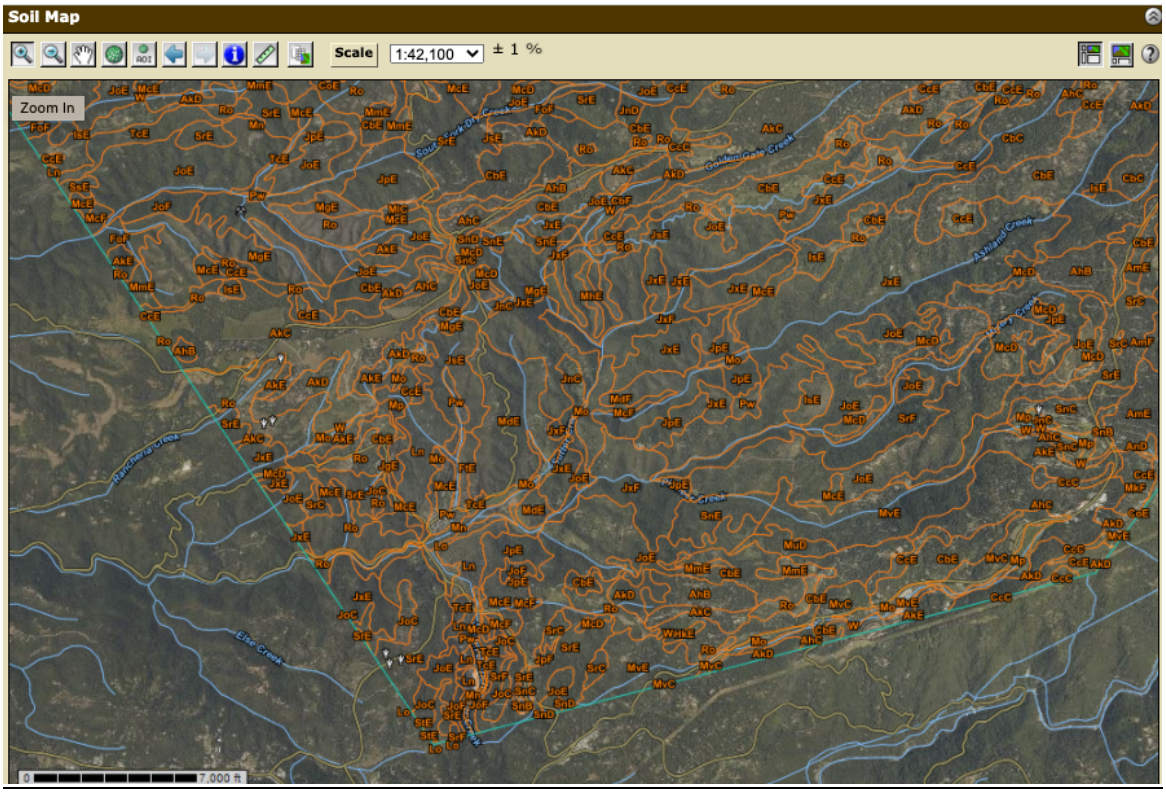

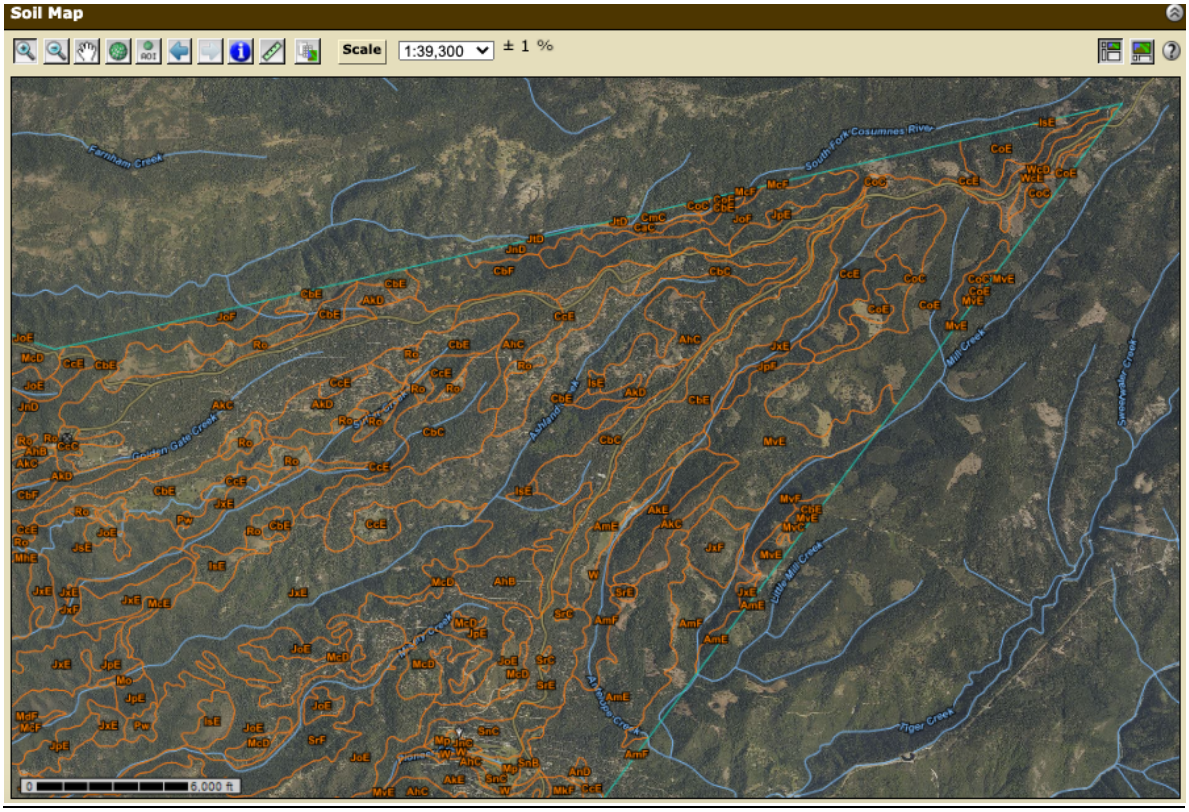

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SOIL SERIES/SOIL TYPE LISTING:

West Region: Pine Grove west to western project boundary

Amador Area, California
(CA628)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AaB	Ahwahnee loam, 3 to 9 percent slopes	83.9	0.10%
AaB2	Ahwahnee loam, 3 to 9 percent slopes, eroded	84	0.10%
AaC	Ahwahnee loam, 9 to 16 percent slopes	288.7	0.50%
AaC2	Ahwahnee loam, 9 to 16 percent slopes, eroded	369.4	0.60%
AaD	Ahwahnee loam, 16 to 31 percent slopes	75.8	0.10%
AaD2	Ahwahnee loam, 16 to 31 percent slopes, eroded	112.7	0.20%
AdD	Ahwahnee very rocky loam, 9 to 31 percent slopes	951.4	1.60%
AdD3	Ahwahnee very rocky loam, 16 to 31 percent slopes, severely eroded	89.5	0.10%
AdE	Ahwahnee very rocky loam, 31 to 51 percent slopes	847.2	1.40%
AeE	Ahwahnee very rocky loam, shallow, 16 to 51 percent slopes	238.7	0.40%
AfD	Ahwahnee-Rock outcrop complex, 9 to 51 percent slopes	100.7	0.20%
AhB	Aiken loam, 2 to 9 percent slopes, C Lower Montane	2.6	0.00%
AkD	Aiken cobbly loam, 16 to 31 percent slopes	12.5	0.00%
AkE	Aiken cobbly loam, 31 to 51 percent slopes	89.1	0.10%
AnD	Argonaut gravelly loam, 3 to 31 percent slopes	85.1	0.10%
AoD	Argonaut very rocky loam, 3 to 31 percent slopes	15.9	0.00%
ApD	Auburn silt loam, 0 to 31 percent slopes	179.4	0.30%
ArC	Auburn silt loam, moderately deep, 3 to 16 percent slopes	321.7	0.50%
ArD	Auburn silt loam, moderately deep, 16 to 31 percent slopes	19.1	0.00%
AsD	Auburn very rocky silt loam, 3 to 31 percent slopes	565.7	0.90%
AsE	Auburn very rocky silt loam, 31 to 51 percent slopes	823.8	1.40%
AtD	Auburn very rocky silt loam, moderately deep, 3 to 31 percent slopes	38.3	0.10%
AtE	Auburn very rocky silt loam, moderately deep, 31 to 51 percent slopes	101.4	0.20%
AuD	Auburn extremely rocky silt loam, 3 to 31 percent slopes	6.1	0.00%
AuF	Auburn extremely rocky silt loam, 31 to 71 percent slopes	2.9	0.00%
AvE	Auburn extremely rocky silt loam, moderately deep, 31 to 71 percent slopes	109.9	0.20%
AwC	Auburn-Argonaut silt loams, 0 to 16 percent slopes	8.3	0.00%
CbE	Cohasset very cobbly loam, 16 to 51 percent slopes	58.8	0.10%
CcC	Cohasset very cobbly loam, moderately deep, 3 to 16 percent slopes	11.3	0.00%
CcE	Cohasset very cobbly loam, moderately deep, 16 to 51 percent slopes	2.3	0.00%
EcD	Exchequer very rocky silt loam, 3 to 31 percent slopes	456.7	0.80%
EcE	Exchequer very rocky silt loam, 31 to 51 percent slopes	415.6	0.70%
EhD	Exchequer and Auburn loams, 3 to 31 percent slopes	135	0.20%

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ExD	Exchequer and Auburn very rocky loams, 3 to 31 percent slopes	214.2	0.40%
ExE	Exchequer and Auburn very rocky loams, 31 to 51 percent slopes	446	0.70%
FdC	Fiddletown gravelly loam, 9 to 16 percent slopes	396.9	0.70%
FdD	Fiddletown gravelly loam, 16 to 31 percent slopes	361.9	0.60%
FgB	Fiddletown gravelly loam, deep, 3 to 10 percent slopes	69.4	0.10%
FoE	Fiddletown very rocky loam, 16 to 51 percent slopes	2,189.20	3.60%
FoF	Fiddletown very rocky loam, 51 to 71 percent slopes	901.1	1.50%
FtE	Fiddletown very rocky loam, deep, 16 to 51 percent slopes	37.3	0.10%
HcC	Holland coarse sandy loam, 5 to 9 percent slopes	57.3	0.10%
HcD	Holland coarse sandy loam, 9 to 16 percent slopes	78.2	0.10%
HdC	Holland coarse sandy loam, deep, 5 to 9 percent slopes	31	0.10%
HdD	Holland coarse sandy loam, deep, 9 to 16 percent slopes	134.5	0.20%
HfD	Holland very rocky coarse sandy loam, 9 to 16 percent slopes	227.3	0.40%
HfE	Holland very rocky coarse sandy loam, 16 to 51 percent slopes	362.5	0.60%
HfF	Holland very rocky coarse sandy loam, 51 to 71 percent slopes	5.6	0.00%
HkE	Holland very rocky coarse sandy loam, deep, 16 to 51 percent slopes	41.3	0.10%
IsE	Iron Mountain very stony loam, 9 to 51 percent slopes	609.2	1.00%
IvE	Iron Mountain very stony loam, rhyolite substratum, 9 to 51 percent slopes	260.5	0.40%
JgE	Jiggs very rocky loam, 16 to 51 percent slopes	215.2	0.40%
JmC	Josephine loam, 3 to 16 percent slopes	160.3	0.30%
JmD	Josephine loam, 16 to 31 percent slopes	523.4	0.90%
JmE	Josephine loam, 31 to 51 percent slopes	194.6	0.30%
JnC	Josephine loam, deep, 9 to 16 percent slopes	116.8	0.20%
JnD	Josephine loam, deep, 16 to 31 percent slopes	223	0.40%
JnE	Josephine loam, deep, 31 to 51 percent slopes	460.4	0.80%
JoC	Josephine very rocky loam, 3 to 16 percent slopes	66.6	0.10%
JoE	Josephine very rocky loam, 16 to 51 percent slopes	3,047.50	5.00%
JoF	Josephine very rocky loam, 51 to 71 percent slopes	559.5	0.90%
JpE	Josephine very rocky loam, deep, 16 to 51 percent slopes	39.3	0.10%
JpF	Josephine very rocky loam, deep, 51 to 71 percent slopes	159.3	0.30%
JsE	Josephine-Maymen complex, 16 to 51 percent slopes	2,703.70	4.50%
JxE	Josephine-Mariposa complex, 16 to 51 percent slopes	531.9	0.90%
JxF	Mariposa-Josephine complex, 51 to 71 percent slopes	73.1	0.10%
Lo	Loamy alluvial land	96.4	0.20%
MbD	Mariposa gravelly loam, 3 to 31 percent slopes	737.5	1.20%
McD	Mariposa very rocky loam, 9 to 31 percent slopes	2,527.40	4.20%
McE	Mariposa very rocky loam, 31 to 51 percent slopes	8,404.90	13.90%
McF	Mariposa very rocky loam, 51 to 85 percent slopes	2,415.50	4.00%

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MdE	Mariposa-Maymen complex, 16 to 51 percent slopes	1,336.20	2.20%
MgE	Maymen very rocky loam, 9 to 51 percent slopes	1,494.70	2.50%
MhE	Maymen-Mariposa complex, 16 to 51 percent slopes	948.7	1.60%
Mn	Mine tailings and Riverwash	648.9	1.10%
Mo	Mixed alluvial land	436.6	0.70%
Mp	Mixed wet alluvial land	18.2	0.00%
MuC	Musick sandy loam, 9 to 16 percent slopes	25.4	0.00%
MvE	Musick very rocky sandy loam, 16 to 51 percent slopes	19.8	0.00%
MwE	Musick very rocky sandy loam, moderately deep, 16 to 51 percent slopes	266.5	0.40%
Pw	Placer diggings and Riverwash	2,722.50	4.50%
Ro	Rock land	1,728.80	2.90%
Sb	Serpentine rock land	12.2	0.00%
SdF	Shaver very rocky coarse sandy loam, moderately deep, 51 to 71 percent slopes	98.2	0.20%
SfB	Shenandoah loam, 3 to 9 percent slopes	196.7	0.30%
SgB	Sierra sandy loam, 2 to 9 percent slopes, LRU 18XI	403.1	0.70%
SgB2	Sierra coarse sandy loam, 3 to 9 percent slopes, eroded	704.1	1.20%
SgC	Sierra sandy loam, 9 to 15 percent slopes, LRU 18XI	684.1	1.10%
SgC2	Sierra coarse sandy loam, 9 to 16 percent slopes, eroded	482.5	0.80%
SgD	Sierra sandy loam, 15 to 30 percent slopes, LRU 18XI	349.4	0.60%
SgD2	Sierra coarse sandy loam, 16 to 31 percent slopes, eroded	143.1	0.20%
ShB	Sierra coarse sandy loam, moderately deep, 3 to 9 percent slopes	215.4	0.40%
ShB2	Sierra coarse sandy loam, moderately deep, 3 to 9 percent slopes , eroded	51.9	0.10%
ShC	Sierra coarse sandy loam, moderately deep, 9 to 16 percent slopes	196	0.30%
ShC2	Sierra coarse sandy loam, moderately deep, 9 to 16 percent slopes, eroded	241.9	0.40%
ShD	Sierra coarse sandy loam, moderately deep, 16 to 31 percent slopes	200.1	0.30%
ShD2	Sierra coarse sandy loam, moderately deep, 16 to 31 percent slopes, eroded	252.4	0.40%
SkD	Sierra very rocky coarse sandy loam, 16 to 31 percent slopes	685.4	1.10%
SlD3	Sierra sandy clay loam, 9 to 31 percent slopes, severely eroded	133.4	0.20%
SmD	Sierra very rocky coarse sandy loam, moderately deep, 9 to 31 percent slopes	508	0.80%
SmE	Sierra very rocky coarse sandy loam, moderately deep, 31 to 51 percent slopes	75.3	0.10%
SnB	Sites loam, 2 to 9 percent slopes, C low montane	85.7	0.10%
SnC	Sites loam, 9 to 15 percent slopes, C low montane	161.1	0.30%
SnD	Sites loam, 15 to 30 percent slopes, C low montane	180.6	0.30%
SnE	Sites loam, 30 to 50 percent slopes, C low montane	256.9	0.40%
SoC	Sites loam, moderately deep, 3 to 16 percent slopes	293.5	0.50%
SoD	Sites loam, moderately deep, 16 to 31 percent slopes	478.4	0.80%
SoE	Sites loam, moderately deep, 31 to 51 percent slopes	378.5	0.60%

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SpD3	Sites clay loam, moderately deep, 3 to 31 percent slopes, severely eroded	21.5	0.00%
SrC	Sites very rocky loam, 3 to 16 percent slopes	506.6	0.80%
SrE	Sites very rocky loam, 16 to 51 percent slopes	550	0.90%
SrF	Sites very rocky loam, 51 to 85 percent slopes	657.6	1.10%
SsE	Sites very rocky loam, moderately deep, 16 to 51 percent slopes	759.8	1.30%
StE	Mariposa-Sites complex, 16 to 51 percent slopes	2,712.50	4.50%
SuB	Snelling loam, moderately well drained, 0 to 9 percent slopes	161.2	0.30%
SxD	Supan cobbly loam, 3 to 31 percent slopes	810.1	1.30%
SyD	Supan very cobbly loam, moderately deep, 3 to 31 percent slopes	258.8	0.40%
SyE	Supan very cobbly loam, moderately deep, 31 to 51 percent slopes	423.6	0.70%
W	Water	84.1	0.10%
Totals for Area of Interest	**60,451.40**	**100.00 %**	

EAST AREA: PINE GROVE TO EASTERN BOUNDARY
Collapse Amador Area, California (CA628)
Amador Area, California
(CA628)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AhB	Aiken loam, 2 to 9 percent slopes, C Lower Montane	417.1	1.10%
AhC	Aiken loam, 9 to 16 percent slopes	933.4	2.50%
AkC	Aiken cobbly loam, 3 to 16 percent slopes	1,901.70	5.20%
AkD	Aiken cobbly loam, 16 to 31 percent slopes	1,083.20	2.90%
AkE	Aiken cobbly loam, 31 to 51 percent slopes	478	1.30%
AmE	Aiken very rocky loam, 16 to 51 percent slopes	732.9	2.00%
AmF	Aiken very rocky loam, 51 to 71 percent slopes	364.5	1.00%
AnD	Argonaut gravelly loam, 3 to 31 percent slopes	25.1	0.10%
AoD	Argonaut very rocky loam, 3 to 31 percent slopes	138.1	0.40%
CaC	Cohasset loam, shoulders, 3 to 20 percent slopes, dry	80.6	0.20%
CaD	Cohasset loam, backslopes, 10 to 30 percent slopes, dry	79.3	0.20%
CbC	Cohasset very cobbly loam, 3 to 16 percent slopes	704	1.90%
CbE	Cohasset very cobbly loam, 16 to 51 percent slopes	3,647.20	9.90%
CbF	Cohasset very cobbly loam, 51 to 71 percent slopes	410.9	1.10%
CcC	Cohasset very cobbly loam, moderately deep, 3 to 16 percent slopes	182.7	0.50%
CcE	Cohasset very cobbly loam, moderately deep, 16 to 51 percent slopes	1,931.00	5.30%
CoC	Cohasset very cobbly sandy loam, 3 to 16 percent slopes	215.7	0.60%
CoE	Cohasset very cobbly sandy loam, 16 to 51 percent slopes	1,063.80	2.90%
FdC	Fiddletown gravelly loam, 9 to 16 percent slopes	14.3	0.00%
FoE	Fiddletown very rocky loam, 16 to 51 percent slopes	360.2	1.00%
FoF	Fiddletown very rocky loam, 51 to 71 percent slopes	137.5	0.40%

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FtE	Fiddletown very rocky loam, deep, 16 to 51 percent slopes	39.6	0.10%
HcC	Holland coarse sandy loam, 5 to 9 percent slopes	2.4	0.00%
HcD	Holland coarse sandy loam, 9 to 16 percent slopes	46.5	0.10%
HcE	Holland coarse sandy loam, 16 to 36 percent slopes	60.5	0.20%
HdC	Holland coarse sandy loam, deep, 5 to 9 percent slopes	11.5	0.00%
HdD	Holland coarse sandy loam, deep, 9 to 16 percent slopes	47.1	0.10%
HfD	Holland very rocky coarse sandy loam, 9 to 16 percent slopes	94.7	0.30%
HfE	Holland very rocky coarse sandy loam, 16 to 51 percent slopes	130.7	0.40%
HkE	Holland very rocky coarse sandy loam, deep, 16 to 51 percent slopes	13.5	0.00%
IsE	Iron Mountain very stony loam, 9 to 51 percent slopes	507	1.40%
JgE	Jiggs very rocky loam, 16 to 51 percent slopes	28.7	0.10%
JmC	Josephine loam, 3 to 16 percent slopes	53.9	0.10%
JmD	Josephine loam, 16 to 31 percent slopes	103.4	0.30%
JnC	Josephine loam, deep, 9 to 16 percent slopes	93.6	0.30%
JnD	Josephine loam, deep, 16 to 31 percent slopes	78.6	0.20%
JoC	Josephine very rocky loam, 3 to 16 percent slopes	199.9	0.50%
JoE	Josephine very rocky loam, 16 to 51 percent slopes	3,347.00	9.10%
JoF	Josephine very rocky loam, 51 to 71 percent slopes	530	1.40%
JpE	Josephine very rocky loam, deep, 16 to 51 percent slopes	886.1	2.40%
JpF	Josephine very rocky loam, deep, 51 to 71 percent slopes	56.3	0.20%
JsE	Josephine-Maymen complex, 16 to 51 percent slopes	673.7	1.80%
JxE	Josephine-Mariposa complex, 16 to 51 percent slopes	2,324.00	6.30%
JxF	Mariposa-Josephine complex, 51 to 71 percent slopes	640.2	1.70%
Ln	Limestone rock land	331.2	0.90%
Lo	Loamy alluvial land	67.9	0.20%
McD	Mariposa very rocky loam, 9 to 31 percent slopes	657.9	1.80%
McE	Mariposa very rocky loam, 31 to 51 percent slopes	1,055.50	2.90%
McF	Mariposa very rocky loam, 51 to 85 percent slopes	163.5	0.40%
MdE	Mariposa-Maymen complex, 16 to 51 percent slopes	438.5	1.20%
MdF	Mariposa-Maymen complex, 51 to 85 percent slopes	184.8	0.50%
MgE	Maymen very rocky loam, 9 to 51 percent slopes	422.8	1.10%
MhE	Maymen-Mariposa complex, 16 to 51 percent slopes	90.9	0.20%
MkF	McCarthy very rocky loam, 51 to 71 percent slopes	157.4	0.40%
MlC	McCarthy very cobbly loam, 3 to 16 percent slopes	65.6	0.20%
MmE	McCarthy and Jiggs very cobbly loams, 16 to 51 percent slopes	215.8	0.60%
Mn	Mine tailings and Riverwash	109.3	0.30%
Mo	Mixed alluvial land	176.1	0.50%
Mp	Mixed wet alluvial land	130.8	0.40%
MuB	Musick sandy loam, 3 to 9 percent slopes	7.7	0.00%

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MuC	Musick sandy loam, 9 to 16 percent slopes	3.4	0.00%
MuD	Musick sandy loam, 16 to 31 percent slopes	68.6	0.20%
MuE	Musick sandy loam, 31 to 51 percent slopes	31.2	0.10%
MvC	Musick very rocky sandy loam, 9 to 16 percent slopes	215	0.60%
MvE	Musick very rocky sandy loam, 16 to 51 percent slopes	1,056.20	2.90%
MvF	Musick very rocky sandy loam, 51 to 71 percent slopes	186	0.50%
Pw	Placer diggings and Riverwash	199.7	0.50%
Ro	Rock land	2,192.30	6.00%
Sb	Serpentine rock land	87.2	0.20%
SkD	Sierra very rocky coarse sandy loam, 16 to 31 percent slopes	18.2	0.00%
SnB	Sites loam, 2 to 9 percent slopes, C low montane	36	0.10%
SnC	Sites loam, 9 to 15 percent slopes, C low montane	176.5	0.50%
SnD	Sites loam, 15 to 30 percent slopes, C low montane	23.2	0.10%
SnE	Sites loam, 30 to 50 percent slopes, C low montane	282.2	0.80%
SoC	Sites loam, moderately deep, 3 to 16 percent slopes	75.3	0.20%
SoD	Sites loam, moderately deep, 16 to 31 percent slopes	79.2	0.20%
SoE	Sites loam, moderately deep, 31 to 51 percent slopes	2.5	0.00%
SrC	Sites very rocky loam, 3 to 16 percent slopes	80.3	0.20%
SrE	Sites very rocky loam, 16 to 51 percent slopes	1,734.40	4.70%
SrF	Sites very rocky loam, 51 to 85 percent slopes	404.3	1.10%
SsE	Sites very rocky loam, moderately deep, 16 to 51 percent slopes	22.9	0.10%
StE	Mariposa-Sites complex, 16 to 51 percent slopes	1	0.00%
TcE	Tiger Creek very rocky loam, 16 to 51 percent slopes	232.7	0.60%
W	Water	14.5	0.00%
WcD	Windy cobbly sandy loam, 9 to 16 percent slopes	78.3	0.20%
WcE	Windy cobbly sandy loam, 16 to 51 percent slopes	28.9	0.10%
Subtotals for Soil Survey Area		**36,475.70**	**99.20%**

Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
CmC	Cohasset loam, shoulders, 3 to 20 percent slopes, dry	30.5	0.10%
CoC	Cohasset cobbly loam, 3 to 15 percent slopes	7.1	0.00%
CoE	Cohasset cobbly loam, 15 to 50 percent slopes	13.1	0.00%
JtD	Josephine silt loam, 15 to 30 percent slopes	3.7	0.00%
JuE	Josephine very rocky silt loam, 9 to 50 percent slopes	75.9	0.20%
McF	Mariposa-Josephine very rocky loams, 50 to 70 percent slopes	97.5	0.30%
MrD	Musick sandy loam, 15 to 30 percent slopes	11.7	0.00%
MtE	Musick very rocky sandy loam, 15 to 50 percent slopes	6.2	0.00%
W	Water	36.3	0.10%
Subtotals for Soil Survey Area		**282**	**0.80%**
Totals for Area of Interest		**36,766.20**	**100.00%**

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From: Ed Struffenegger
To: Kennedy, Amy@Wildlife
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project

---

Hi Amy,

Thanks for getting back to me on this. I reviewed your comments in the MND and your recommendations below. I will incorporate all those into the MND.
FYI

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

On Feb 9, 2022, at 3:00 PM, Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov> wrote:

Hello Ed

Thanks for reaching out again for recommendations. I'm attaching the IS/MND with a few comments on there. In addition to that, I offer the following recommendations:

Recommendation 1

The addition of an Environmental Setting, and Biological Resources/Habitat section within the framework of the Initial Study, outlining habitat that exists onsite. Include the species with potential within the project limits, and which species would not be expected to occur and why. I see you have some info in the Checklist, but it would be better served in the bulk of the document, otherwise the mitigation section seems somewhat out of place.

Recommendation 2

This site contains habitat suitable for raptor nesting. CDFW recommends that operations be timed to occur outside of the critical period for these species (March 1 – September 1). If that is not possible, the following is recommended:

a) If operations will commence during the critical period conduct a walk-through survey of the project area no more than 2 weeks prior to commencing operations to look for signs of nest occupancy. This walk-through survey will include examination of any canopy trees for stick nests, and/or the presence of whitewash or prey remains or any

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sighting / vocalization of a territorial raptor.

b) If an active raptor or owl nest and/or a raptor exhibiting territorial actions (calling, swooping, following the surveyor, or returning to the approximate area of discovery) is discovered prior to commencing operations the following measures should apply.

(1) If a listed species is discovered prior to or during operations, the operator will cease operations within one-quarter mile (if possible) of the discovery and contact CDFW Timber Staff for consultation.

(2) If an active nest of a non-listed raptor is discovered during operations, a buffer will be established at a distance that minimizes disturbance, protected from human disturbance and access should be restricted. Flag these Special Treatment Areas.

Recommendation 3

Add a paragraph to the initial study regarding the potential (or lack of potential) to impacts waters of the state, and make it clear whether you'll be notifying of a Lake or Stream Alteration Agreement (FGC 1600). If you won't be working in the WLPZ or there will be a buffer away from the WLPZ where no work will occur, I would mention that in the project description.

Please let me know if you have any questions or if I can be of help further.

Thank you

Amy Kennedy, Senior Environmental Scientist, Specialist
Timberland Conservation Program | ☎ Cell: 916-358-2842
California Department of Fish & Wildlife | North Central Region
1701 Nimbus Road, Rancho Cordova | amy.kennedy@wildlife.ca.gov

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From: Ed Struffenegger <edstruff@volcano.net>
Sent: Thursday, February 3, 2022 3:55 PM
To: Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov>
Cc: Jacks, Sandra@Wildlife <Sandra.Jacks@wildlife.ca.gov>; Wildlife R2 Timber <R2Timber@wildlife.ca.gov>
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project

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Hi Amy,

Thanks for reaching out to me.
If you could look at this and get me any comments in another week or so, that would be helpful.
Let me know if you have any questions.

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

> On Feb 3, 2022, at 10:09 AM, Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov> wrote:
>
> Got it and I will get back to you Ed. When do you need comments by? I'll be in touch if I have any questions about your previous discussions with Kelsey.
>
> Thanks
> Amy Kennedy
> Calif. Department of Fish and Wildlife
> 916-358-2842
>
> ---
>
> **From:** Jacks, Sandra@Wildlife <Sandra.Jacks@wildlife.ca.gov>
> **Sent:** Thursday, February 3, 2022 9:29 AM
> **To:** Ed Struffenegger <edstruff@volcano.net>; Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov>
> **Cc:** Wildlife R2 Timber <R2Timber@wildlife.ca.gov>
> **Subject:** RE: Amador Fire Safe Council, Ingress/Egress Project
>
> Hello Ed!
>
> Happy New Year to you, too! All is going well in this world (especially when there are no fires! Eek!).
>
> Since Kelsey is on Maternity Leave, I'm going to pass this project onto Amy Kennedy who covers these types of projects in the northern part of our region.

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Amy, would you mind following up with the information provided below and attached? If you need to punt this back to me, no problem, but I won't be able to review it until after Feb 14th.

Thank you!
Sandi

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Sandra Jacks - Senior Environmental Scientist (Supervisor)
CDFW – Region 2 – Timberland Conservation Program
(916) 358-2916 office/mobile
Sandra.Jacks@wildlife.ca.gov

From: Ed Struffenegger <edstruff@volcano.net>
Sent: Sunday, January 30, 2022 9:29 AM
To: Jacks, Sandra@Wildlife <Sandra.Jacks@wildlife.ca.gov>
Cc: Wildlife R2 Timber <R2Timber@wildlife.ca.gov>
Subject: Fwd: Amador Fire Safe Council, Ingress/Egress Project

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Hello Sandi,

Ed Struffenegger here. I haven't talked to you for a while (I believe since Lance's memorial service), and I hope you are doing really well. Happy New Year to you also!

I am reaching out to you with this email to request your input on a fuels reduction project we are proposing in Amador County. I have been working with Kelsey Vella on this previously, but I just received an auto-reply email indicating that she is out on Maternity Leave until July, and that I should address any issues to you. I am working with the Amador Fire Safe Council on a fuels reduction project along Amador County's private road network. This is to both reduce fuels and facilitate ingress and egress in the event of a wild fire. CalFire has funded this project, and some work is moving forward on other aspects of the project. But the AFSC has requested that I obtain CEQA clearance for this project to begin work on the private road portion of the project. CalFire will also be the lead agency on this project.

As you can see in the email string below, I have been already working with Kelsey Vella to get her input on this project, as required by PRC 4123. Originally, this project was to be permitted with a Notice of Exemption, and I have been working with local CalFire staff to move that NOE
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forward. However, CalFire Sacramento has now directed me to prepare an Initial Study/Mitigated Negative Declaration instead of a NOE, which I am preparing now. The original footprint of the project, and the original scope of the project, have not changed. However, now I have proposed some specific mitigations in the IS/MND, and I need CDFW to review the proposal and to provide input (again, as part of the required PRC 4123 process).

Can you read through the email string below. I have highlighted the more important portions in RED FONT, so you don't need to read through the entire email string if you don't have time for that. I have also included the IS/MND to this email for your review.

If you get a chance to review this, and provide any comments, thoughts, or questions, I would appreciate it.
Thanks!

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

Begin forwarded message:

From: Ed Struffenegger <edstruff@volcano.net>
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project
Date: January 29, 2022 at 5:33:34 PM PST
To: "Kelsey@Wildlife Vella" <Kelsey.Vella@wildlife.ca.gov>

Hello Kelsey,

As you may recall, I have previously reached out to you as required as part of the PRC 4123 Consultation associated with a CALFIRE project. (See the email string below)

To recap: I am a consulting forester, working for the Amador Fire Safe Council, who has been awarded a grant to perform road vegetation projects throughout Amador County. I am currently working on the CEQA clearance for the private-road portion of this project. The project is

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funded by CAL FIRE, who will also be the lead agency for this project.

Local CAL FIRE staff initially suggested that I use a "Notice of Exemption" to provide this project with the necessary CEQA clearance. I prepared this NOE. I then reached out to you last November to request your formal input as part of the PRC 4123 consultation process for this project. You had provided the information (below) with suggestions that I include a discussion of TCB and FYLF habitat on the project area. I included a brief statement indicating that no TCB habitat is on the project area, and I included a detailed discussion of the FYLF avoidance measures.

Thank you for your response to my initial inquiry on this project and for your suggested edits.

Now for the change: CAL FIRE headquarters in Sacramento has now directed me to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) for this project instead of a Notice of Exemption. They indicated that because of the large size of this project that they believe that a "Notice of Exemption" would not be appropriate for this project. I have prepared an IS/MND, and a copy is attached to this email for your review.

Please note that the size and the scope of this project have not changed. This project is still the treatment of vegetation along Amador County's private roads. Vegetation within 20 feet of the road will be cut and will be chipped back onto the road cuts and fills. In isolated locations, a mechanical masticator will "reach-in" from the road surface to treat this vegetation. There will be no equipment working off of any road surface. There will be no excavation or soil disturbance of any kind associated with this project. Watercouse buffers will be established, where equipment cannot operate.

You will also notice that there are three specific mitigations outlined in this IS/MND that relate to the protection of biological resources. One pertains specifically to the FYLF, one pertains to the protection of the Western Pond Turtle, and the other pertains to the protection of species associated with caves.

Please review the attached IS/MND for this project, and

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please respond to me with any comments, questions, or suggestions as they relate to the biological protection measures proposed for this project.
Thank you for your continued assistance.

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

> On Nov 2, 2021, at 9:02 AM, Vella, Kelsey@Wildlife <Kelsey.Vella@wildlife.ca.gov> wrote:
>
> Good morning Ed,
>
> Thank you for reaching out about your project and for taking the time to chat with me this morning. As we discussed, I'm following up with a comment regarding the Biological Resources section of the ERRF:
>
> I see that the Biological Resources Section points out foothill yellow-legged frog (FYLF) and tricolored blackbird (TCB) occurrences in proximity to the project area. Just a reminder, the CNDDB tracks reported occurrences of species but does not encompass all areas where a species may be found. Please clarify in the Biological Resources section whether FYLF or TCB habitat exists within the project boundary or not. If habitat for these species *does* exist, please explain how potentially significant impacts to these species will be avoided. The Hydrology and Water Quality section of the ERRF points out that no equipment will operate in proximity to a watercourse or water body – perhaps this should be explained in the Biological Resources section if it helps explain how FYLF and TCB will be avoided (IF their habitats exist in the project

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area).

Please feel free to give me a call with any questions.

Thanks again!

Kelsey Vella
Senior Environmental Scientist (Specialist)
Timberland Conservation and Wildfire Resiliency Program
California Department of Fish and Wildlife
Cell: 916-932-3015

From: Ed Struffenegger <edstruff@volcano.net>
Sent: Wednesday, October 27, 2021 11:52 PM
To: Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov>
Cc: Vella, Kelsey@Wildlife Kelsey.Vella@wildlife.ca.gov; McDaniel, Patrick@CALFIRE Patrick.McDaniel@fire.ca.gov
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project

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Hi Amy, Thank you for forwarding this on to Ms. Vella. We'll look forward to hearing from her.
Ed

> On Oct 27, 2021, at 6:49 AM, Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov> wrote:
>
> Hi Ed
>
> Thanks for reaching out. Kelsey Vella is handling Amador County so I'm forwarding the info to her.

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She'll get back to you shortly.

Amy Kennedy, Senior Environmental Scientist, Specialist
Timberland Conservation Program **|**
☎ Cell: 916-358-2842
California Department of Fish & Wildlife | North Central Region
1701 Nimbus Road, Rancho Cordova | amy.kennedy@wildlife.ca.gov

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From: Ed Struffenegger <edstruff@volcano.net>
Sent: Wednesday, October 27, 2021 9:41 AM
To: Kennedy, Amy@Wildlife <Amy.Kennedy@wildlife.ca.gov>
Cc: McDaniel, Patrick@CALFIRE <Patrick.McDaniel@fire.ca.gov>; Ed Struffenegger <edstruff@volcano.net>
Subject: Amador Fire Safe Council, Ingress/Egress Project

WARNING: This message is from an external source. Verify the sender and exercise caution when clicking links or opening attachments.

October 27, 2021

Ms. Amy Kennedy,
California Department of Fish and Wildlife

Hello Ms. Kennedy

My name is Ed Struffenegger, and I am a Consulting Forester under contract with the Amador Fire Safe Council (AFSC). The AFSC has requested that I prepare a Notice of Exemption (NOE) and a corresponding CAL FIRE Environmental Review Report (ERRF) as part of a long-term

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project to improve the ingress and egress on Amador County's private road system. The goal of this project is to reduce fuels along this private road system, and to facilitate ingress and egress along these roads in the event of a catastrophic fire.

The actual work will be accomplished by the removal of brush, small trees, and other road-side vegetation for up to a distance of 20 feet from the edge of the roads, employing primarily hand-crews with chainsaws and chippers. The work may be accomplished by a combination of of CAL FIRE Pine Grove Camp crews and private contractors. In isolated areas, mechanical masticators sitting on the road may "reach-in" to masticate this road-side vegetation. The intent of this program is to maintain these roadside areas in perpetuity.

These documents cover the entirety of Amador County's private road system from Highway 49 on the west to the town of Pioneer on the east. The roads in this area encompasses a length of 275.66 miles. Specific projects along various private roads and road segments will be proposed by the AFSC in future years. As grant funding is applied for and received by the AFSC, work will take place along these segments. The attached NOE and ERRF will serve as the underlying regulatory documents for this anticipated series of upcoming projects.

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I have been in communication with CAL FIRE Unit staff during the preparation of these programmatic documents. They have requested that I forward this NOE and ERRF to you for your review and comment. Please review these documents, and if you have any questions or concerns, please contact me at your earliest convenience.

Thank you.

Ed Struffenegger
Registered Professional Forester
#2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

<AFSC Ingress Egress ERR FINAL 20211019.doc>
<AFSC Ingress Egress NOE FINAL 20210903.doc>

<AmadorCty_IngressEgress&EDU_IS MND PM ES Edits1_CDFW_AK.docx>

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From: Ed Struffenegger
To: Meurer, Jonathan R.@Waterboards
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project, IS/MND

Hi Jonathan,

Many thanks for your response. If you have any further concerns, please don't hesitate to reach out to me.
FYI

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

On Feb 14, 2022, at 12:23 PM, Meurer, Jonathan R.@Waterboards <Jonathan.Meurer@Waterboards.ca.gov> wrote:

Good Afternoon Ed,

Sorry for the delayed response. If the operational details of your project are unchanged, then you will still fall into Category 1 of our General Order and all of the information I previously provided will still hold.

Thanks,

Jonathan Meurer

From: Ed Struffenegger <edstruff@volcano.net>
Sent: Monday, February 14, 2022 1:32 PM
To: Meurer, Jonathan R.@Waterboards <Jonathan.Meurer@Waterboards.ca.gov>
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project, IS/MND

EXTERNAL:

Hello Jonathan,

I wasn't sure if you had a chance to review my email, below. If you have any questions on any of this, please don't hesitate to contact me.
If your original comments that you sent me on 11/9/2021 are still applicable, please send me a short email indicating that.
Thanks so much.

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net

On Jan 29, 2022, at 3:17 PM, Ed Struffenegger <edstruff@volcano.net> wrote:

Hello Jonathan,

As you may recall, I have previously reached out to you as required as part of the PRC 4123 Consultation associated with a CALFIRE project. (See the email string below)

To get you up to speed: I am a consulting forester, working for the Amador Fire Safe Council, who has been awarded a grant to perform road vegetation projects throughout Amador County. I am currently working on the CEQA clearance for the private-road portion of this project. The project is funded by CAL FIRE, who will also be the lead agency for this project.

Local CAL FIRE staff initially suggested that I use a "Notice of Exemption" to provide this project with the necessary CEQA clearance. I prepared this NOE. I then reached out to you last November to request your formal input as part of the PRC 4123 consultation process for this project. You had provided the information (below) to indicate that the project will fall under Category 1 of the General Order.

Thank you for your response to my initial inquiry on this project.

Now for the change: CAL FIRE headquarters in Sacramento has now directed me to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) for this project instead of a Notice of Exemption. They indicated that because of the large size of this project that they believe that a "Notice of Exemption" would not be appropriate for this project. I have prepared an IS/MND, and a copy is attached to this email for your review.

Please note that the size and the scope of this project have not changed. This project is still the treatment of vegetation along Amador County's private roads. Vegetation within 20 feet of the road will be cut and will be chipped back onto the road cuts and fills. In isolated locations, a mechanical masticator will "reach-in" from the road surface to treat this vegetation. There will be no equipment working off of any road surface. There will be no excavation or soil disturbance of any kind associated with this project.

Please review the attached IS/MND for this project, and please respond to me with any comments, questions, or suggestions. If you believe that this project continues to fall under Category 1 of the General Order, please indicate that also.
Thank you for your continued assistance.

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net
<DCraig Review V1 AFSC Private IE IS MND PM ES Edits1 CLEAN 20220121docx.docx>

On Nov 9, 2021, at 9:12 AM, Meurer, Jonathan R.@Waterboards <Jonathan.Meurer@Waterboards.ca.gov> wrote:

Good Morning Ed,

Based on your description your project will fall under Category 1 of our General Order, which covers exemptions that are a low threat to water quality. The only conditions of this enrollment that you need to be aware of are the following:

"The Discharger shall comply with all conditions specified in Attachment B, Monitoring and Reporting Program, Order No. R5-2017-0061, including notifying the Central Valley Water Board whenever: (1) Agency Monitoring detects a violation of the California Forest Practice Rules that relate to water quality protection measures; or (2) management measures fail and result in a discharge, or the potential to discharge, waste to waters of the state."

Category 1 projects are automatically enrolled, so there is nothing further for you to do at this point. Let me know if you have any questions.

-Jonathan

From: Ed Struffenegger <edstruff@volcano.net>
Sent: Monday, November 8, 2021 4:50 PM
To: Meurer, Jonathan R.@Waterboards <Jonathan.Meurer@Waterboards.ca.gov>
Subject: Re: Amador Fire Safe Council, Ingress/Egress Project

EXTERNAL:

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Hello Jonathan, No, all the material will be chipped on site, with the chips broadcast back onto the work area.
Let me know if you have any more questions.
Thanks
Ed

On Nov 8, 2021, at 1:04 PM, Meurer, Jonathan R.@Waterboards <Jonathan.Meurer@Waterboards.ca.gov> wrote:

Good Morning Mr. Struffenegger,

Can you tell me if any of the material generated by this project will be sold or in any other way commercialized?

Thanks,

Jonathan Meurer
CVRWQCB

From: Ed Struffenegger <edstruff@volcano.net>
Sent: Wednesday, October 27, 2021 9:29 AM
To: Meurer, Jonathan R.@Waterboards <Jonathan.Meurer@Waterboards.ca.gov>
Cc: McDaniel, Patrick@CALFIRE <Patrick.McDaniel@fire.ca.gov>; Ed Struffenegger <edstruff@volcano.net>
Subject: Amador Fire Safe Council, Ingress/Egress Project

EXTERNAL:

October 27, 2021

Mr. Jonathan Meuer,
Central Valley Regional Water Quality Control Board

Hello Mr. Meuer,

My name is Ed Struffenegger, and I am a Consulting Forester under contract with the Amador Fire Safe Council (AFSC). The AFSC has requested that I prepare a Notice of Exemption (NOE) and a corresponding CAL FIRE Environmental Review Report (ERRF) as part of a long-term project to improve the ingress and egress on Amador County's private road system. The goal of this project is to reduce fuels along this private road system, and to facilitate ingress and egress along these roads in the event of a catastrophic fire.

The actual work will be accomplished by the removal of brush, small trees, and other road-side vegetation for up to a distance of 20 feet from the edge of the roads, employing primarily hand-crews with chainsaws and chippers. The work may be accomplished by a combination of of CAL FIRE Pine Grove Camp crews and private contractors. In isolated areas, mechanical masticators sitting on the road may "reach-in" to masticate this road-side vegetation. The intent of this program is to maintain these roadside areas in perpetuity.

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I have been in communication with CAL FIRE Unit staff during the preparation of these programmatic documents. They have requested that I forward this NOE and ERRF to you for your review and comment. Please review these documents, and if you have any questions or concerns, please contact me at your earliest convenience.

Thank you.

Ed Struffenegger
Registered Professional Forester #2200
140 Creek View Court
Sutter Creek, CA 95685

cell: (209) 304-2045
email: edstruff@volcano.net