

Author:

Mokelumne Hill Veterans Memorial District

Mokelumne Hill Fuels Reduction Project Environmental Review Report for an Exempt Project

Note: This report form is intended for use by Mokelumne Hill Veterans Memorial District (MHVMD) to document a limited environmental impact analysis supporting the filing of a Notice of Exemption document for a proposed project. Although the project appears to fit within the descriptions for allowable categorical exemptions, this report presents MHVFA's review for possible exceptions that would preclude finding the project to be categorically exempt as discussed in CEQA Guidelines Section 15300.2. This report will be filed with the CEQA administrative record for this project to document the environmental impact analysis conducted by MHVFA.

Jan Bray on behalf of Mokelumne Hill Veterans Memorial District,

	Thomas 1	Ringlein, District President Thomas.Ringlein@yahoo.com					
Title:	RPF 2360	RPF 2360					
Addres	ss: 211 W Si	erra View Drive, Jackson CA 95642					
Phone:	209.256.	209.256.7667					
Email:	janberbra	y@gmail.com					
Project	t Name:	2024 Mokelumne Hill Fuels Reduction Project					
Agreer	nent Number:	MHVFA 2024-1					
Progra	m Type:	Pacific Gas & Electric Company's Vegetation Management Program					
Politic	al Units:	Mokelumne Hill Fire Protection District					
County	/ :	Calaveras					
Acres: A		Approximately 40					
Legal l	Location:	Sections 4, 5, 7 & 9, T5N R12E, MDBM					
		uad Map(s): Mokelumne Hill					
⊠Proj	ject Vicinity M	ap Attached ⊠Project Location Map Attached ⊠Photos Attached					
Soils R	Reports are link	ed documents:					
https://	websoilsurvey.	sc.egov.usda.gov/DSD/Download/AOI/5smrv3tapev0m4ttcew2tcq1/wss aoi 2024-	<u>-03-13 08-3</u>	7-01.zip			
BOST	ON YALE						
https://	websoilsurvey.	sc.egov.usda.gov/DSD/Download/AOI/5smrv3tapev0m4ttcew2tcq1/wss aoi 2024-	-03-13 08-4	7-50.zip			
MOKE	ELUMNE HILI						
Other	Public Agency	Review or Permit Required:					
Would	the project res	ılt in:	YES	NO			
Alte	erations to a wa	tercourse (DFW - Lake and Stream Alteration Agreement)		\bowtie			

Other Public Agency Review or Permit Required:		
Would the project result in:	YES	NO
Alterations to a watercourse (DFW - Lake and Stream Alteration Agreement)		\boxtimes
Conversion of timberland (CAL FIRE - Conversion Permit or Exemption)		\boxtimes
Demolition (Local Air District - Demolition Permit)		\boxtimes
Soil disturbance over 1 acre (RWQCB - SWPPP)		\boxtimes
Fill of possible wetlands (404 Permit - USACE)		
Other:		\boxtimes
Discuss any above-listed topic item checked Yes and consultation with agencies:		

Project Description and Environmental Setting (describe the project activities, project site and its surroundings, its location, and the environmental setting):

The 2024 Mokelumne Hill Fuels Reduction Project ("Project") is 0.25 miles and 1.5 miles east (respective units of Mokelumne Hill School and Boston Yale) of downtown Mokelumne Hill, Calaveras County, where it will provide the genesis for the Highway 26 Strategic Wildfire Defense System which runs from Mokelumne Hill on the west to Glencoe on the east. This project will treat approximately 40 acres of land (within and around which CEQA investigations have been conducted, with an approximate 300' buffer area) on the rim of the North Fork Mokelumne River Canyon. The project is in the proximity of the 2015 Butte Fire. The understory is choked with brush and logs with dense ladder fuels that extend into a closed canopy of live oak, the recipe for catastrophic wildfire. The project will protect hundreds of structures in the vicinity of the treatment.

The project's two units are located in the WUI on the north rim of the Mokelumne River Canyon, just east of the town of Mokelumne Hill (see Appendix; Maps). The Highway 26 Corridor is an integral evacuation route for northern Calaveras County. This part of the Sierra Nevada Mountains also supports large tracts of commercial timber and a cattle industry on lands managed by Sierra Pacific Industries, Inc. (SPI) and the USFS Stanislaus National. It provides pure mountain water for regional domestic, industrial, and agricultural use as well as recreational opportunities, power generation, and wildlife habitat. It also supplies water to the Pardee and Camanche Reservoirs serving the Sacramento and San Joaquin Valleys and East Bay residents.

Aesthetics

Portions of the Highway 26 Strategic Wildfire Defense System are included in this project and serve as an evacuation corridor and – historically and projected – as a strategic location for Fire Suppression resources and will tie in with the Butte Fire Restoration project currently under development.

The project area vegetation is mixed Sierra montane conifer with a hardwood component of live oak. In the understory are shrubs/brush heavy to ceanothus species and grasses in openings. Due to past droughts and beetle activity, mortality is high in the pines; snags and downed logs exist in the project area. Management goals include restoring forest species composition and structure following large scale, stand-replacing disturbance events such as quick-moving fires or slow-moving insect outbreaks, and prevention of catastrophic wildfire.

The silvicultural strategy is to retain healthy trees to create a shaded fuelbreak condition with tree crowns spaced for full utilization of available sunlight, water and nutrients. This treatment will significantly reduce the opportunity for a crown fire. The majority of dead and decadent stands of shrubs/brush and other ladder fuels will be treated. Treatment methods include:

<u>Mechanical Mastication</u>: A mechanical masticator would be utilized to grind, chip, and shred vegetation on site. Equipment selected to carry out this task is designed to minimize ground disturbance such as tracked rather than rubber-tired vehicles and articulating booms. Multiple cutting attachments will be used to adapt to the fuel type and terrain. Ladder fuels will be eliminated in the project area, minimizing the risk of crown fire. The average depth of masticated material will be 2-7 inches deep; this mulch layer will assist in erosion control, soil moisture retention and will also suppress vegetative resprouting.

Manual Mastication: The project area contains some areas – particularly on slopes over 50% – that may be constructed by a hand crew (i.e., a California Department of Corrections and Rehabilitation (CDCR) inmate crew or a private contractor under the supervision of a Registered Professional Forester (RPF) in compliance with the CA Foresters Law). In addition to using chainsaws and other hand tools, crews would feed cut vegetation into a rubber-tracked brush chipper or similar chipper staged on existing roads and trails. The chipped vegetation would be broadcast over the project area which will aid in the suppression of undesirable brush sprouting. As an alternative where access for a chipper is not attainable, fuels may be reduced manually via "lop and scatter" of the material (vegetation is cut into short strips and dispersed evenly over the treatment area). This method would be limited to areas not accessible by machinery.

Environmental Impact Analysis

☐ This topic does not apply to this project and was not evaluated further. ☐ This topic could apply to this project, and results of the assessment are provided below:
The visual landscape will not be adversely impacted due to the retention of overstory trees and not having "bare ground" as mastication efforts will provide a mulch layer covering the soil.
This project will reduce wildfire risk and strategically advance the protection of the WUI on the project's western side (Mokelumne Hill School Unit) and northwestern side (Boston Yale Unit. Residents are keenly aware of the benefits that fuels reduction projects provide for their safety (direct protection, a place to make a stand, ideal aerial retardant locations and evacuation effectiveness), and the vast majority of residents welcome these efforts. Existing fuelbreaks/fuels reduction polygons are common in Calaveras County so this treatment will not be out of the norm.
No detrimental impacts to Aesthetics are anticipated to occur as a result of project implementation.
Agriculture and Forest Resources
Agriculture and Forest Resources This topic does not apply to this project and was not evaluated further.
Agriculture and Forest Resources This topic does not apply to this project and was not evaluated further. Yes No Would any trees be felled? If yes, discuss protection of nesting birds, if necessary.
 ☐ This topic does not apply to this project and was not evaluated further. ☐ Yes ☐ No Would any trees be felled? If yes, discuss protection of nesting birds, if necessary. ☐ Yes ☒ No Would the project convert any prime or unique farmland?
 ☐ This topic does not apply to this project and was not evaluated further. ☐ Yes ☐ No Would any trees be felled? If yes, discuss protection of nesting birds, if necessary. ☐ Yes ☐ No Would the project convert any prime or unique farmland? ☐ Yes ☐ No Would the project result in the conversion of forest land or timberland to non-forest use?
 ☐ This topic does not apply to this project and was not evaluated further. ☐ Yes ☐ No Would any trees be felled? If yes, discuss protection of nesting birds, if necessary. ☐ Yes ☒ No Would the project convert any prime or unique farmland?

No detrimental impacts to Agriculture and Forest Resources are anticipated to occur as a result of project implementation.

Air Quality						
	not apply to thi	s proje	ct and	1 wa	as not evaluated further.	
					ent District guidelines for dust abatement and other air quality con-	cerns were
reviewed for this pr	roject	anty iv.	Tanas	CITIC	one District guidennes for dust abatement and other an quarty con-	Jerns were
		:		1	to af the accessment one many deal heles.	
I his topic could	apply to this p	roject,	ana r	esui	ts of the assessment are provided below:	
and hand. No pile of catastrophic wild	or broadcast bu lfire which wou	rning v uld sign	will o nifica	ccur ntly	e impact is anticipated. Fuels will be reduced via mastication – r r under this project. The treatment will potentially avoid an origin and adversely affect Air Quality. A greenhouse gas calculation a	n or spread
is provided in the C	reennouse Ga	s section	on be	low.	•	
No detrimental imp	oacts to Air Qua	lity are	e antic	cipat	ted to occur as a result of project implementation.	
Biological Resource	ces					
☐ This topic does	not apply to thi	s proje	ct and	l wa	as not evaluated further.	
Yes No Wi	Il the project po	otential	lly eff	ect	biological resources?	
					l Diversity Database review completed? Results discussed below:	
					project area completed? Results discussed below:	
I mis topic could	i appiy to this p	roject,	ana r	esui	Its of the assessment are provided below:	
On March 13, 2024	, the Mokelumi	ne Hill	7.5	Qua	d Search was conducted in the California Natural Diversity Data I	3ase
(CNDDB).					·	
(CI(DDD).						
Species listed as Fe	deral State and	l/or CE)EW	'Th	reatened, Endangered, Rare, Fully Protected or Species of Special	Concern"
-						
_	•			_	as 2B.2 or higher were included, all of which were surveyed for it	n late
Winter and early S ₁	oring 2024. The	e list is	shov	vn b	elow:	
Element T Scientific Name-esriFieldT	Common Name esrifieldTun	El Endoral S	t State Sta	CDEW	CA Rare fQtQ DeTaxonomic Sort-esriFieldTypeString	
	Hell Hollow slender salamand				- # N Ur Animals - Amphibians - Plethodontidae - Batrachoseps diabolicus	
Animals - / Rana boylii pop. 5	foothill yellow-legged frog - s				# N M Animals - Amphibians - Ranidae - Rana boylii pop. 5	
Animals - I Bombus crotchii Animals - I Desmocerus californicus d			Candidate None		- # N M Animals - Insects - Apidae - Bombus crotchii - # N Ur Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus	
Animals - I Hydroporus leechi	Leechs skyline diving beetle		None	-	- # N M Animals - Insects - Dytiscidae - Hydroporus leechi	
Animals - F Erethizon dorsatum	North American porcupine		None	-	- # N M Animals - Mammals - Erethizontidae - Erethizon dorsatum	
Animals - F Emys marmorata Animals - F Phrynosoma blainvillii	western pond turtle coast horned lizard	Af Proposed Af None	None None	SSC	- # N Ut Animals - Reptiles - Emydidae - Emys marmorata - # N Ut Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii	
Communit Ione Chaparral	Ione Chaparral		None	-	- # M M Community - Terrestrial - Ione Chaparral	
Plants - Va Eriophyllum confertiflorum	tansy-flowered woolly sunflo	PE None	None		4.3 # N Ur Plants - Vascular - Asteraceae - Eriophyllum confertiflorum var. tanacetiflorum	
Plants - Va Crocanthemum suffrutesco			None	-	3.2 # MM Plants - Vascular - Cistaceae - Crocanthemum suffrutescens	
Plants - Va Arctostaphylos myrtifolia Plants - Va Claytonia parviflora ssp. gr		PE Threatene PE None	None		18.2 # N M Plants - Vascular - Ericaceae - Arctostaphylos myrtifolia 4.2 # N Ur Plants - Vascular - Montiaceae - Claytonia parviflora ssp. grandiflora	
Plants - Va Erythranthe inconspicua	small-flowered monkeyflower		None	-	4.3 # N Ur Plants - Vascular - Phrymaceae - Erythranthe inconspicua	
Plants - Va Erythranthe marmorata	Stanislaus monkeyflower	PE None	None		1B.1 # N M Plants - Vascular - Phrymaceae - Erythranthe marmorata	
Plants - Va Sphenopholis obtusata Plants - Va Jepsonia heterandra	prairie wedge grass foothill jepsonia	Pf None Pf None	None None	•	2B.2 # N M Plants - Vascular - Poaceae - Sphenopholis obtusata 4.3 # N UI Plants - Vascular - Saxifragaceae - Jepsonia heterandra	
Plants - va Jepsonia neteranura	TOOthiii jepsonia	PENONE	None	-	4.3 # WOTPlants - Vascular - Saxiragaceae - Jepsonia neteranura	
					9 13	47
	4		8		16	建设的
3		7				
		Y		4		

METHODS: The CNDDB query and report for regulated species was completed on March 13, 2024. Pedestrian surveys to assess wetlands, plants, and wildlife resources within the project site were conducted in March and April 2024. This brief technical memorandum is intended to summarize survey findings of office and field investigations including biological surveys completed to date and include recommended protection measures to reduce project impacts.

<u>RESULTS:</u> To date, no regulated plant or wildlife species have been observed within the project site. Potential bird nesting habitat exists throughout the project site, primarily as cavities in standing snags.

a. <u>WATERCOURSES</u> – To protect riparian resources, protection zones will be provided during project operations. The project site contains two (2) Class III watercourse at the Boston Yale unit's southwest and north sides which outflows onto Dell'Orto private ranching lands; the watercourses will be protected with a 25' Equipment Exclusion Zone.

- b. <u>BOTANICAL RESOURCES</u> per the California Natural Diversity Database, plants listed as Federal/State/CDFW "Threatened, Endangered, Rare or Species of Special Concern" as noted above were not observed during multiple surveys of the project area. Field surveys searched for these plants on multiple occasions and none were located.
- c. WILDLIFE HABITAT and RESOURCES The dominant vegetation type is Sierra Montane Conifer at the lower elevational band. The mature overstory canopy consists of scattered Ponderosa pine (Pinus ponderosa), and Gray pine (Pinus sabiniana), along with California Live oak (Quercus agrifolia), Canyon live oak (Quercus chrysolepis), and California Buckeye (Aesculus glabra). Shrubs consist of dense patches of Whiteleaf manzanita (Arctostaphylos viscida), Greenleaf manzanita (Arctostaphylos patula), Whitethorn (Ceanothus cordulatus), Buckbrush (Ceanothus cuneatus), Toyon (Heteromeles arbutifolia), Rabbitbrush (and Deerbrush (Ceanothus integerrimus)). These areas contain severe summer wildfire fuel risk. Ceanothus can provide nesting habitat for some migratory passerine species. As a result, some patches of live brush species will be retained to provide habitat for nesting birds and will be located within the Class III EEZ, in the steep swales and on rocky outcrops. The project area has been severely damaged by the Western Pine bark beetle and the outbreak continues to this day. Consequently, the project area contains standing dead snags and dying trees that will become snags; these snags can provide cavity nest habitat for birds and peeling bark for roosting bats. Some standing dead trees were identified with the presence of peeling bark which is ideal for bat roosting. Retention of the trees/snags with active use will be retained within the project area but others will be removed as they are a hazard during firefighting operations.

While birds were heard and seen in activity, no bird nests were observed in the project area. While no raptor nests were observed within the project area, the treatment prescription retains trees over 12" dbh, so large live trees (potential raptor nest trees) will be protected. If an active nest is observed, buffer protection around the tree will be established to protect nesting activities; the size of the buffer will be determined by the RPF based on the nesting species' needs.

No woodrat nests were observed within the project area. Woodrats are important forage for California spotted owls and other raptors. Woodrat nests will be protected by avoidance during operations if located.

Preservation of larger conifers (trees over 12" dbh) and large Live oaks will provide nest habitat for many bird species. Because of the observed mortality and diseased Ponderosa pine and Gray pine, protection of larger conifer trees will provide recruitment of snags for wildlife habitat beyond the life of the project.

Per a November 8, 2023 input inquiry to RWQCB and CDFW by the RPF, CDFW Biologist Kelsey Vella responded on November 14, 2023 that she had no additional comments than those provided on a similar and nearby project with the applicable RPF responses:

CNDDB shows nearby occurrences of foothill yellow-legged frog (FYLF) - listed as endangered under the California Endangered Species Act (CESA). In reading the project description below, it is unclear what watercourse protections will be in place during operations and also what kind of operations will occur. CDFW has regulatory authority pursuant to CESA over projects that have the potential to result in the take of any species designated by the California Fish and Game Commission as an endangered, threatened, or candidate species. Take of species protected pursuant to CESA is prohibited (Fish and Game Code § 2080 et. seq.). The project area may contain suitable habitat for Foothill yellow legged frog (FYLF). CDFW recommends that appropriate avoidance, minimization and/or mitigation measures are implemented for this project to avoid take of FYLF.

Response: The Class III watercourse will be protected by a 25' Equipment Exclusion Zone (EEZ). Per the USFWS "The frog is closely associated with streams and is rarely observed far from the water's edge. Breeding stream habitat is typically shallow, rocky watercourses and at least partially exposed to direct sunlight.".

Potential habitat for nesting birds may be present within the project area. If project activities occur during the nesting season (typically February 1 to August 31), a survey for nests should be performed prior to the beginning of project-related activities. If an active nest is observed within the project area, a buffer should be established between the construction activities and the active nest so that nesting activities are not interrupted (Fish and Game Code 3503 and 3503.5). The buffer(s) should be determined based upon the life history of the individual species, including their sensitivity to noise, vibration, ambient levels of human activity and general disturbance, the current site conditions (screening vegetation, terrain, etc.) and the various project-related activities necessary to implement the project.

Response: Both the RPF and RPF Designees constantly survey for active nests. Additionally, the Mastication Contractors will be on the lookout for active nests. If active nests are found, applicable protection buffers will be installed around the nest tree with buffer sized based on nesting species needs.

Notification of Lake or Streambed Alteration is required for any activity that will substantially divert or obstruct the natural flow or substantially change or use any material from the bed, channel or bank of any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake. If any of these activities will occur to implement the Project, the project applicant (or "entity") must provide written notification to CDFW pursuant to section 1602 of the Fish and Game Code, Based on this notification and other information, CDFW then determines whether a Lake or Streambed Alteration (LSA) Agreement is required. Informational Streambed Alteration notification process theLake or can beobtained https://www.wildlife.ca.gov/Conservation/LSA/Notify-CDFW.

Response: No project activity will alter a Lake or Streambed.

No detrimental impacts to Biological Resources are anticipated to occur as a result of project implementation as prescribed.

Cultural Resources/Tribal Cultural Resources This topic does not apply to this project and was not evaluated further.
Yes No Was a current archaeological records check completed? Results discussed below:
 Yes
Yes No Will the project effect any known historic, archaeological or tribal cultural resources?
This topic could apply to this project, and results of the assessment are provided below:
Professional Archeologist Dr. Julia Costello/Foothill Resources, LTD and RPF Jan Bray/Paraprofessional Archeologist, conducted preparatory and field investigations for cultural resources between March and April 2024 for a total investigation entailing 24 hours. Consultation with Native Americans has been ongoing and all Native American input was carefully considered. Notification was made utilizing the CAL FIRE list (List Date of February 28, 2024) and the Native American Hertiage Commission's Native American Contact List (List Date of March 25, 2024) for outreach purposes, notifying a total of 15 tribal representatives. A Confidential Archeological Survey Report is on file at the Mokelumne Hill Veterans Memorial District (MHVMD) headquarters at 8160 Church Street, Mokelumne Hill, CA.
A CHRIS Information Center Record Search was utilized for the assessment of cultural resources (#12863J and #12873J). While there are sites near the project area on other ownerships, one known site within the project area — which was not listed on the CHRIS Record Search Response - will be recorded and protected via avoidance. If any additional sites are located, such site(s) will be protected via avoidance.
No detrimental impacts to Cultural Resources are anticipated to occur as a result of project implementation.
Energy
☐ This topic does not apply to this project and was not evaluated further.
This topic could apply to this project, and results of the assessment are provided below:
No known energy development or extraction is occurring in or near the project area.
No significant adverse impact related to Energy is anticipated to occur as a result of project implementation.
Geology and Soils This topic does not apply to this project and was not evaluated further.
☐ This topic could apply to this project, and results of the assessment are provided below:
The vast majority of the soils found in the project area are in the Ultic Haploxeralfs-Mollic Haploxeralfs complex, Nedsgulch-

The vast majority of the soils found in the project area are in the Ultic Haploxeralfs-Mollic Haploxeralfs complex, Nedsgulch-Wallyhill-Arpatutu complex, Angelscreek-Pentz complex and Wardsferry-Millvilla complex. These are classified as well-drained, moderately deep to deep soils with rock outcrops, receiving 30-60 inches of annual precipitation with high runoff potential. While not prime farmland, these soils are in the landform of mountains and they are high-site forestlands. Forest management activities are acceptable on these soils. There are no known limitations based on soil types for the proposed project activities. A Custom Soils Report was constructed for this project and the link to the Report is: https://websoilsurvey.sc.egov.usda.gov/WssProduct/1qod4nsdczvksapckewauxb5/GN 00000/20230905 19545607366 1 Soil Report.pdf

A Web Soil Survey was conducted of the Mokelumne Hill Fuels Reduction Project Area. Soil surveys include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. The Web Soil Survey included the project area and adjacent surrounding area:



Map Unit Symbol	Map Unit Name		Percent of A
103	Dystric Lithic Xerochrepts-Rock outcrop-Josephine family moderately dee complex, 35 to 110 percent slopes	p _{32.7}	10.2%
126	Holland family, deep, 5 to 35 percent slopes	71.4	22.3%
137	Holland, deep dark surface-Moderately deep dark surface-McCarthy, moderately deep families complex, 5 to 35 p	87.4	27.3%
155	Josephine-Sites families association, deep, 5 to 35 per cent slopes	82.5	25.7%
159	Josephine family, moderately deep-Deep complex, 5 to 35 slopes	44.1	13.8%

Forest management activities are acceptable on these Holland and Josephine family soils. Ground-based equipment shall operate only when soils are not saturated with high soil strength and bearing capacity. Mechanical equipment is prohibited from operating during saturated soil conditions (soil and/or surface material pore spaces are filled with water to such an extent that runoff is likely to occur. Indicators of Saturated Soil Conditions may include, but are not limited to: (1) areas of ponded water, (2) pumping of fines from the soil or road surfacing material during implementation operations, (3) loss of bearing strength resulting in the deflection of soil or road surfaces under a load, such as the creation of wheel ruts, (4) spinning or churning of wheels or tracks that produces a wet slurry, or inadequate traction without blading wet soil or surfacing materials).

Roads shall be left in the same or better condition following treatment activities. Operations conducted within the Winter Operating Period (November 15 – April 1) shall be intensely monitored to prevent soil compaction as well as loss of road surface during the Winter Operating Period for administrative access on these native-surfaced (dirt) roads.

No significant ground disturbance or soil disturbance is anticipated as part of this project. Masticators typically have low contact pressure between the track/tire and the soil, thereby reducing on surface and subsurface soil compaction. No significant adverse impact related to geology and soils is anticipated with project implementation which will only occur on non-saturated soils. With the prescribed treatment of hand crew work and mechanical mastication, the soil O (Organic) horizon layer and underlying A layer will be protected and retained.

No detrimental impacts to Geology and Soils are anticipated to occur as a result of project implementation.

Greenho	use Gas	Emissions
This t	opic does	s not apply to this project and was not evaluated further.
Yes	⊠ No	Would the project generate significant greenhouse gas (GHG) emissions?
		Would these GHG emissions result in a significant impact on the environment? Discuss below:
Yes	🛛 No	Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing
the emiss	ions of g	reenhouse gases? Discuss below:

Greenhouse Gases (GHGs) which are present in the atmosphere naturally are released by natural and anthropogenic (human-caused) sources, and are formed from secondary reactions taking place in the atmosphere. The following are GHGs that are somewhat accepted as the principal contributors to human-induced global climate change:

Carbon dioxide (CO2)Nitrous oxide (N20)

Methane (CH4)Hydrofluorocarbons

Nitrous oxide (N20Perfluorocarbons

► Sulfur hexafluoride

arbons Suntil nexamioride

Assembly Bill 32 (AB 32) established legislation in September 2006 for the State of California to combat human-induced GHGs and promote the development and use of energy-efficient technologies. In addition, AB 32 established a comprehensive program of regulatory and market mechanisms to achieve quantifiable, cost-effective reductions of greenhouse gas emissions. The law requires a reduction of carbon emissions in California to 1990 levels by 2020. CARB – the California Air Resources Board - is the primary state agency designated to implement the requirements outlined in AB 32. Direct effects of forest restoration and fuels reduction treatments include the machinery involved in project implementation.

Woody material would not be removed from the site under project implementation, but would be rearranged into a surface fuel; decomposition will occur slowly over a 20-year period. Carbon from this rearranged material would be stored on site until the material decomposes or is burned, ultimately releasing the carbon back to the atmosphere. Additional activity-generated fuels may be left in the woods and would slowly emit carbon back to the atmosphere. Other emissions include smoke, dust, and greenhouse gases from pile burning, and vehicle and equipment use during implementation.

It is anticipated that the mastication and harvesting operations would reduce the current live vegetation crown closure by 45% (the majority reduction component in the project will be in ladder fuels as brush with a less significant amount as tree canopy). It is anticipated the project would take approximately 1 year to complete and the time required for complete sequestration is 2.8 years. Thinning trees and reducing ladder fuels would increase growing space, providing more sunlight, nutrients and water for residual trees which will sequester more carbon in the long term. Some conifers (generally less than 10" dbh) will be retained to ensure species diversity and a full range of age and size classes. The proposed project is not expected to result in a significant effect regarding greenhouse gas emissions. In fact, the project would result in the avoidance of a significant release of greenhouse gases by reducing the likelihood of an uncontrolled wildfire during periods of precarious air quality (late Summer through Fall). The estimated GHG emissions from this project do not meet the significance threshold that CAL FIRE – in conjunction with the California Air Resources Board - utilizes (California Air Pollution Control Officers Association) to assess significant impacts with regard to GHG emissions which is 900MT/year.

	2024 Moke H	ill FR				iable Inputs	
Project Acres		40			Black = Eq	uation Produc	ed Data
Total Project Days		15			Red = Con	stants	
		Exhaust	CO2 Emissio	ns			
Total Round Trip Mi	les	20	Total Chippe	er days	0		
of Chainsaws		1	Total Chains	aw days	10		
of Chippers		0	Total Mastic	ator days	18		
Diesel Kilograms/G	al	10.15	Masticator D	iesel Gal/day	24		
Gas Kilograms/Gal		8.91					
Pounds of CO2/Kilo	gram	2.20462					
One Chipper Gas Ga	I/day	10					
Crew Bus MPG		8					
Chainsaw Gas Gal/D	ay/Saw	1.5					
Conversion Factor P	ounds to Ton	2000					
Conversion Factor T	ons of						
Biomass to Tons CO	2	1.65		Masticator T	otal Gal Die	esel Needec	432
Crew Bus Total Mile	!S			Chainsaws T			15
Total Gal of Diesel N	Needed			Chipper Tota			-
Total Kilograms of D	iesel Produced	d	4,765	Total Kilogra	ms of Gas	Produced	566
Diesel Total Pounds	of CO2 Produc	ed	10,506	Gas Total Po	unds of CO	2 Produced	1,247
Diesel Total Tons Co	02		5	Gas Total To	ns CO2		1
		Smoke or De	cay CO2 Em	issions			
st. Biomass Tons P		ed (Fuel Model)	5				
Biomass Total Tons	Removed		200				
Total Tons of CO2			330				
			Final C	utputs			
	r Project		336				
Total Tons of CO2 fo		·	3				
Total Tons of CO2 fo Sequestration Rate	2 - 6 Tons/Ac/Y						
		r	120				

Hazards and Hazardous Materials This topic does not apply to this project and was not evaluated further.
This topic could apply to this project, and results of the assessment are provided below:
No known hazardous waste disposal or Superfund cleanup sites are in or near the project area. No herbicides, pesticides or hazardous material use is proposed under this project.
No significant adverse impact related to Hazards or Hazardous Materials is anticipated to occur as a result of project implementation.
Hydrology and Water Quality
This topic does not apply to this project and was not evaluated further.
Yes No Will the project potentially affect any watercourse or body of water?
This topic could apply to this project, and results of the assessment are provided below:

Two Class III watercourses are present within and adjacent to the project area. To protect riparian resources, a 25' Equipment Exclusion Zone (EEZ) will be provided during project operations. Operations will not when soils are saturated.

No significant adverse impact to watercourses or bodies of water are anticipated due to project implementation.

Mokelumne Hill Fuels Reduction Project - Environmental Review Report Form Supporting an Exempt Project
Land Use and Planning ☐ This topic does not apply to this project and was not evaluated further.
This topic could apply to this project, and results of the assessment are provided below:
No significant impacts to Land Use and Planning are anticipated to occur as a result of project implementation.
Mineral Resources ☐ This topic does not apply to this project and was not evaluated further. ☐ This topic could apply to this project, and results of the assessment are provided below:
A Custom Soils Report was generated for the project (see the link in the Geology and Soils section above).
No significant adverse impacts on Mineral Resources are anticipated to occur as a result of project implementation.
Noise
This topic does not apply to this project and was not evaluated further. ☐ This topic could apply to this project, and results of the assessment are provided below:
Proposed project activities will result in some noise from mechanical mastication equipment and chainsaws. The equipment shall only be operated during normal daylight hours. The equipment use in any given area will be generally short-lived (1-3 days near any given residence) as the nature of this project will result in a moderate to rapid progression of fuels treatment through the project area. Many of these residents are participating landowners in the project, along with the Mokelumne Hill Elementary School (Calaveras Unified School District). When working in areas away from residences, the noise of the equipment in the distance will not be significant as they will be only slightly/moderately above the ambient noise levels and the area is rural with scattered residences within/adjacent to the project area.
No significant impacts from Noise are anticipated to occur as a result of project implementation.
Population and Housing
This topic does not apply to this project and was not evaluated further. This topic could apply to this project, and results of the assessment are provided below:
No significant impacts to Population and Housing are anticipated to occur as a result of project implementation.
D.LP. Comiton
Public Services ☐ This topic does not apply to this project and was not evaluated further. ☐ This topic could apply to this project, and results of the assessment are provided below:
No significant impacts to Public Services are anticipated to occur as a result of project implementation.
Recreation ☐ This topic does not apply to this project and was not evaluated further. ☐ This topic could apply to this project, and results of the assessment are provided below:
The project area is on private lands and on public lands (Mokelumne Hill Veterans Memorial District and Calaveras Unified School District lands) not available for public recreation.
No significant impacts to Recreation are expected as a result of project implementation.
Transports that and Trace?
Transportation and Traffic ☐ This topic does not apply to this project and was not evaluated further. ☐ This topic could apply to this project, and results of the assessment are provided below:

Mokelumne Hill Fuels Reduction Project - Environmental Review Report Form Supporting an Exempt Project
There are multiple access routes to the project area. For the Mokelumne School Unit: Highway 26, Prindle Road, and Italian
Vista Court. For the Boston Yale Unit: Highway 26, Montgomery Drive and an unnamed road just east of Montgomery Drive.
Roads shall be left in the same or better condition following treatment activities.
Roads shall be left in the same of better condition following treatment activities.
Warning signs shall be the responsibility of the Contractor to alert motorists/residents of current operations.
The project is not expected to have any significant adverse impact on Transportation or Traffic.
Utilities and Service Systems
_
This topic does not apply to this project and was not evaluated further.
This topic could apply to this project, and results of the assessment are provided below:
The project will protect critical infrastructure in Mokelumne Hill and the Boston Yale subdivision.
No significant impacts to Utilities and existing Service Systems are anticipated to occur as a result of project implementation.
Two significant impacts to curries and existing pervice bysicing are uniterpared to occur as a result of project implementation.
Wilden
Wildfire
This topic does not apply to this project and was not evaluated further.
This topic could apply to this project, and results of the assessment are provided below:
Mitigation for a catastrophic wildfire is at the heart of this project. Implementation of this project will reduce wildfire threat.
This project is in a wildlend when interfece residential area and is being implemented in direct response to prevention of a

This project is in a wildland urban interface residential area, and is being implemented in direct response to prevention of a catastrophic wildfire event. Implementation of the project will reduce the spread of fire and increase the ability to suppress the fire while still small.

No significant adverse impacts to the Wildfire situation are expected.

Changes Made to Avoid Environmental Impacts:		
Changes are inherent in the protection measures noted above and in Attachments.		
Mandatory Findings of Significance:	YES	NO
• • •		\boxtimes
(a) Does the project have the potential to 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, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?		
(b) Does the project have impacts that are individually limited, but cumulatively considerable? "Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probably future projects.		
(c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		

Justification for Use of a Categorical Exemption (discuss why the project is exempt, cite exemption number(s), and describe how the project fits the class):

The project will create a large-scale shaded fuelbreak condition, amplifying safety for landowners, residents, travelers along Highway 4 and its feeder roads. Vegetation to be removed is flammable and presents a hazard that will be reduced via project implementation. This project fits under portions of the above-listed Class 4 Categorical Exemption listed in CEQA Guidelines §15304 pertaining to Minor Alterations to Land.

Previous consultation with a representative from the Regional Water Quality Control Board was received and an applicable mitigation measure was incorporated. MHVMD staff have concluded that no significant environmental impacts would occur to aesthetics, agriculture and forestland/timberland, air quality, biological resources, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use planning, mineral resources, noise, population and housing, public services, recreation, transportation/traffic, wildfire, or utilities and service systems. Documentation of the environmental review is available at the MHVMD, 8160 Church Street, Mokelumne Hill, CA.

Conclusion:

Conclusion.	
After assessing potential environmental impacts and evaluating the description for the various classes of categorical exenced CEQA, MHVMD has determined that the project fits within one or more of the exemption classes and no exceptions exist at the site which would preclude the use of this exemption. MHVMD considered the possibility of (a) sensitive location, (b) cumulative (c) significant impact due to unusual circumstances, (d) impacts to scenic highways, (e) activities within a hazardous waste significant impacts and the sense of the exemption of the exempt	he project we impact, te, and (f)
significant adverse change to the significance of a historical resource. A notice of exemption will be filed at the County of Ca	iaveras.
After assessing potential environmental impacts and evaluating the description for the various classes of categorical exen	iptions to
CEQA, MHVMD has determined that the project does not fit within the description for the various exemption classes or has f exceptions exist at the project site that precludes the use of a categorical exemption for this project. Additional environment	

will be conducted and the appropriate CEQA document used may be a negative declaration or a mitigated negative declaration.

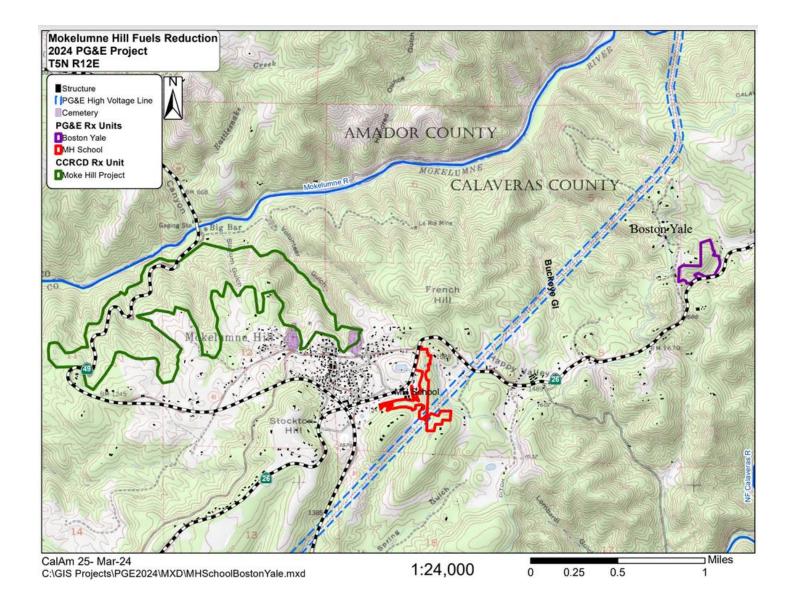
APPENDICES:

A. ANTICIPATED PARTICIPATING LANDOWNERS

Mokelumne Hill Fuels Reduction [2-Apr-2024]									
APN	Name	Contacted?	Phone	Email	Address 1	Address 2	Situs 1		
Mokelum	ne Hill School Unit Paracels (Owners i	n yellow re	quire CEQA)						
Project Pa	arcels- Need Right of Entry Permits								
18-009-030	Mokelumne Hill Veterans Memorial District	Resolution Ma	r-25	Thomas.Ringlein@y	P.O. BOX 286	Mokelumne Hill CA 95245			
18-010-012	Mokelumne Hill Veterans Memorial District	Resolution Ma	r-25	Thomas.Ringlein@y	P.O. BOX 286	Mokelumne Hill CA 95245			
18-010-019	Mokelumne Hill Veterans Memorial District	Resolution Ma	r-25	Thomas.Ringlein@y	P.O. BOX 286	Mokelumne Hill CA 95245			
18-010-022	Mokelumne Hill Veterans Memorial District	Resolution Ma	r-25	Thomas.Ringlein@y	P.O. BOX 286	Mokelumne Hill CA 95245			
18-010-023	Mokelumne Hill Veterans Memorial District	Resolution Ma	r-25	Thomas.Ringlein@y	P.O. BOX 286	Mokelumne Hill CA 95245			
18-012-006	Calaveras Unified School District	Resolution Ap	r 11	Mark campbell	P.O. Box 788	San Andreas CA 95249	8350 Hwy 26		
L8-010-020	Kevin T Brady et al	Mike	(209)770-4710		8392 Prindle Rd	Mokelumne Hill CA 95245	8392 Prindle Rd		
18-010-021	Kevin T Brady & Marta Johnson	Mike			8392 Prindle Rd	Mokelumne Hill CA 95245			
18-011-001	Eleanor L Peterson	Mike			8320 Prindle Rd	Mokelumne Hill CA 95245	8320 Prindle Rd		
16-018-061	David Madariaga Trustee	USPS Apr 1			3519 Tilden Ave	Los Angeles CA 90034			
16-018-124	Joseph Jerome Agular & Cheri Garamendi et al	Mike		cgaramendi@yahoo	P.O. Box 200	Mokelumne Hill CA 95245	9490 North Sport Hill Rd		
18-010-032	Brittany Bendix (Hilltop)				268 Santa Clara Ave	Redwood City CA 94061	7000 Italia Vista Dr		
18-010-033	Brittany Bendix (Slope)	Mike			268 Santa Clara Ave	Redwood City CA 94061	6979 Italia Vista Dr		
18-010-034	Brittany Bendix (Slope)	Mike			268 Santa Clara Ave	Redwood City CA 94061	6961 Italia Vista Dr		
18-010-006	Theodore R and Alice R Shannon	Print agreeme	nt		2015 Finley Rd Unit 12	Lombard IL 60148	8470 Hwy 26		
Boston Ya	le Unit Parcels								
Project Pa	arcels- Need Right of Entry Permits								
16-019-011	Myikelina Quick Vinciguerra	Mike			10525 Hwy 26	Mokelumne Hill CA 95245	10525 Hwy 26		
16-019-038	Aissatou Diene	USPS Apr 1			2920 Northgate Blvd S	Sacramento CA 95833	·		
16-019-039	Sandra C White	USPS Apr 1			4297 Dulcey Dr	San Jose CA 95136	10411 Hwy 26		

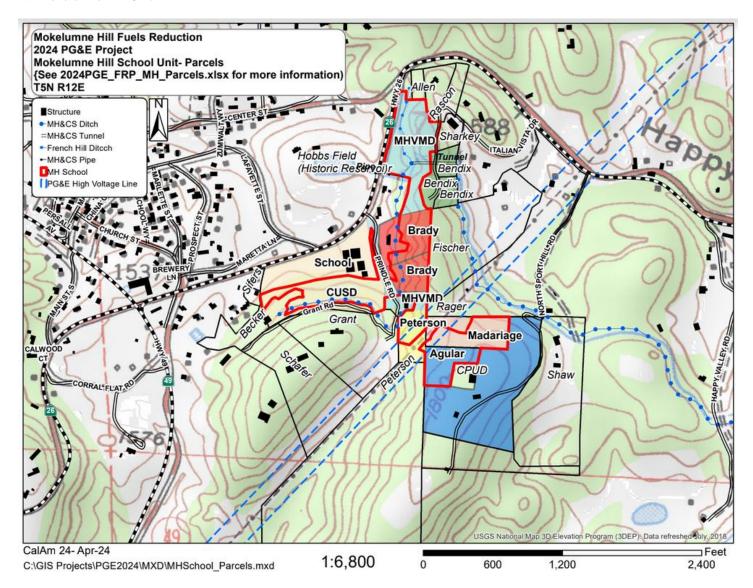
B. MAPS

Project Vicinity Map

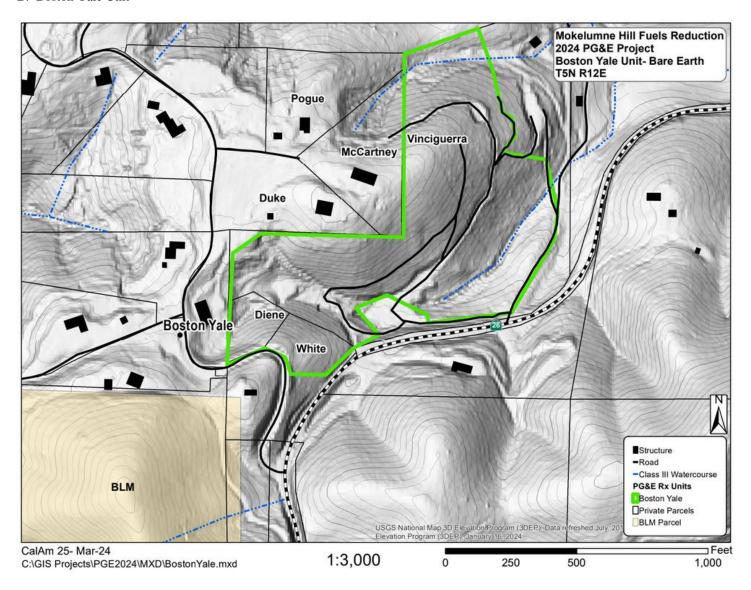


Project Topographic Maps:

A. Mokelumne Hill Unit

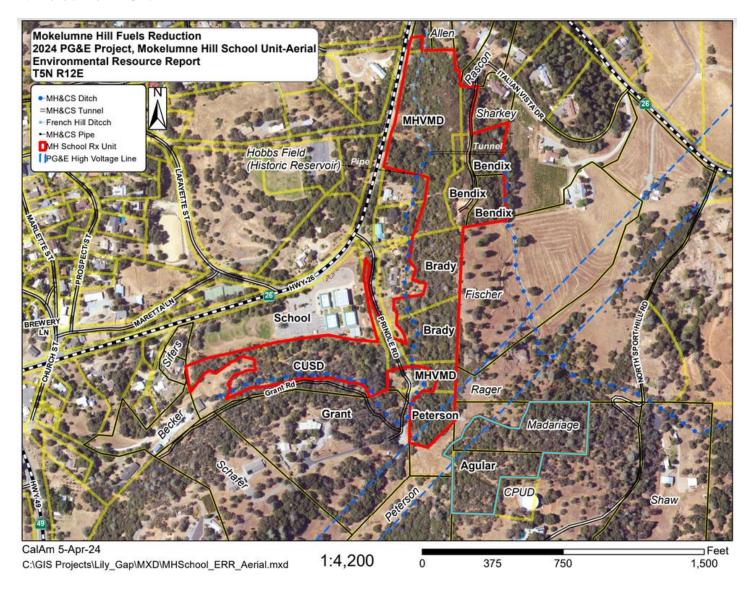


B. Boston Yale Unit

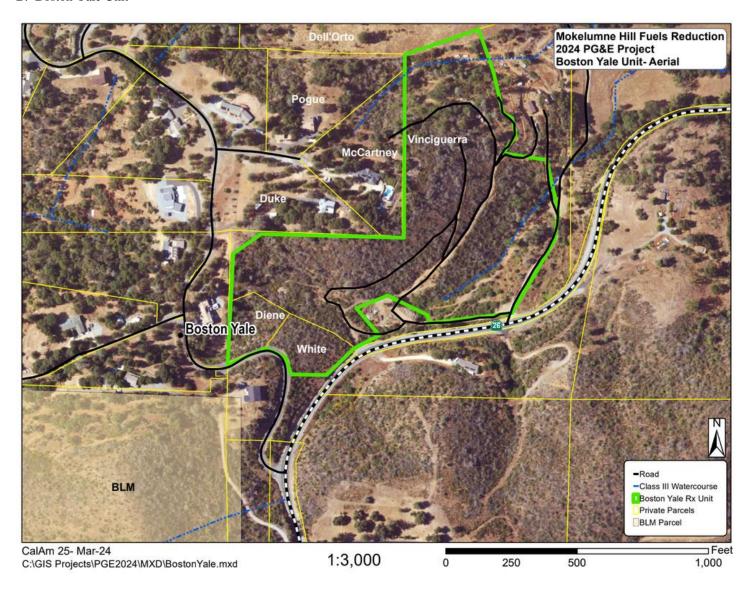


Project Aerial Maps:

A. Mokelumne Hill Unit



B. Boston Yale Unit



C. PHOTOS

1. Eastern edge of Mokelumne Hill School Unit; fuels on ridge and decrepit power pole.



2. Boston Yale Unit; Highway 26 and fuel loading with interspersed Structures.

