

**County of Madera  
California Environmental Quality Act (CEQA)  
Initial Study**

- 1. Project title:** PM #4318/CUP #2024-003 – Firebaugh CSG 1 Solar Project
- 2. Lead agency name and address:** County of Madera  
Community and Economic Development Department  
200 West 4<sup>th</sup> Street, Suite 3100  
Madera, California 93637
- 3. Contact person and phone number:** Jacob Aragon, Planner II  
559-675-7821

[Jacob.Aragon@maderacounty.com](mailto:Jacob.Aragon@maderacounty.com)

- 4. Project Location & APN:** The subject property is located on the north side of Avenue 7, approximately 0.8 miles east from the intersection with Firebaugh Boulevard, (No Situs), Madera.

APN #: 041-222-005

- 5. Project sponsor's name and address:** Firebaugh CSG 1 LLC  
11100 Santa Monica Blvd, Suite 780  
Los Angeles, CA 90024

- 6. General Plan Designation:** AE (Agricultural Exclusive)

- 7. Zoning:** ARE-40 (Agricultural, Rural, Exclusive)

**8. Description of project:**

The proposed Firebaugh CSG 1 Solar Project (Project) is a small-scale utility solar generation plus battery energy storage project located on approximately 25 acres of an approximate 322-acre parcel situated 0.72 mile east of the intersection of Firebaugh Boulevard and Avenue 7 ½ (APN 041-222-005 & 042-082-006). The proposed Project is located on the north side of Avenue 7 on privately-owned parcels in Madera County, California. Firebaugh CSG 1 LLC has entered into a long-term lease agreement with the property owner and is requesting a Conditional Use Permit (CUP) approval from Madera County in order to proceed with construction of the small-scale solar and battery storage project.

The Project consists of a single-axis tracker, ground mounted photovoltaic (PV) community solar and battery energy storage facility with a capacity of approximately 6.68 megawatt (MW) direct current (DC)/5.00 MW alternate current (AC). The Project will interconnect to the Pacific Gas and Electric (PG&E) pre-existing electrical distribution system. Additionally, the Project will be equipped with battery energy storage technology that will allow on-site renewable energy generation to be stored and dispatched onto the grid when needed. Single-axis tracking technology will be utilized to allow the

modules to efficiently track the sun throughout the day and maximize the efficiency of solar collection. The modules will be mounted on a steel racking system, which will be anchored into the ground using driven steel piers. The overall height of the array will be no more than 15-feet tall when the panels are at maximum vertical tilt. Locally sited energy storage systems like the Project improve the resiliency of the regional energy grid and increase the utilization of renewable energy resources by storing energy generated by the solar facility during the day and discharging during peak demand hours. An additional area just north of Firebaugh Road will be used for the interconnect point (referenced as “interconnect area” in this document); however, the utility company would perform the work in this area to connect the Project to the point of interconnect, not the Project proponent. Therefore, the interconnect area is not part of the Project as defined in this Initial Study, and impacts (if any) within the interconnect area would have to be assessed by the utility company.

## **9. Surrounding Land Uses and Setting:**

The surrounding land uses are primarily agricultural with rural residences interspersed throughout, and the adjacent properties are within the ARE-40 and ARE-20 Exclusive Agricultural Zones.

## **10. Other Public Agencies Whose Approval is Required:**

None.

## **11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

In accordance with Public Resources Code Section 21080.3.1, notification letters were sent to tribal representatives of California Native American tribes that have requested to be notified of projects within the project area of Madera County. Tribal representatives were advised of the project and invited to request formal consultation with the County regarding the project within 30 days of receiving the notification letters. Seven notification letters were sent to representatives of the following tribes.

- Table Mountain Rancheria
- Picayune Rancheria of the Chukchansi Indians
- Dumna Wo Wah Tribal Government
- Chowchilla Yokuts Tribe

As of the preparation of this Initial Study, more than 30 days following the County’s transmittal of notification letters, no requests for consultation have been received; however, a letter from Table Mountain Rancheria Cultural Resources Department expressing interest was received. Section XVIII of this Initial Study provides additional discussion of tribal cultural resources and outreach.

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED**

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.

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Aesthetics                | <input type="checkbox"/> Agricultural/Forestry Resources | <input type="checkbox"/> Air Quality                        |
| <input type="checkbox"/> Biological Resources      | <input type="checkbox"/> Cultural Resources              | <input type="checkbox"/> Energy                             |
| <input type="checkbox"/> Geology/Soils             | <input type="checkbox"/> Greenhouse Gas Emissions        | <input type="checkbox"/> Hazards & Hazardous Materials      |
| <input type="checkbox"/> Hydrology/Water Quality   | <input type="checkbox"/> Land Use/Planning               | <input type="checkbox"/> Mineral Resources                  |
| <input type="checkbox"/> Noise                     | <input type="checkbox"/> Population/Housing              | <input type="checkbox"/> Public Services                    |
| <input type="checkbox"/> Recreation                | <input type="checkbox"/> Transportation                  | <input type="checkbox"/> Tribal Cultural Resources          |
| <input type="checkbox"/> Utilities/Service Systems | <input type="checkbox"/> Wildfire                        | <input type="checkbox"/> Mandatory Findings of Significance |

<b>DETERMINATION</b> (to be completed by Lead Agency)	
On the basis of this initial evaluation:	
<input type="checkbox"/>	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
<input checked="" type="checkbox"/>	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
<input type="checkbox"/>	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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 EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signed:           *Jacob Aragon*           Date:           6/26/2024

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--	--------------------------------------	---	------------------------------------	--------------

**I. AESTHETICS**

Except as provided in Public Resources Code Section 21099, would the project:

- |   |                          |                          |                                     |                                     |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Have a substantial adverse effect on a scenic vista?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) In non-urbanized areas, 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Responses:**

**(a) No Impact.** The Project area and components would not be visible from any areas designated as scenic vistas or that have substantial characteristics of a scenic vista.

**(b) No Impact.** The Project area does not contain scenic resources and is not visible from a state scenic highway. The proposed solar facility will be situated within existing agricultural land and will not degrade the visual character of the surrounding area.

**(c) Less Than Significant Impact.** The Project parcels are zoned ARE-40 and are currently undeveloped in a non-urbanized area. The Project area is primarily surrounded by agricultural uses and is not considered to represent a unique or otherwise important visual resource. The Project development may be visible to motorists on the segments of Firebaugh Boulevard and Avenue 7 however, the view would be minimal. Limited grading will be necessary to construct the Project. The proposed solar facility will be surrounded by agricultural land and will not degrade the visual character of the surrounding area. As a result, the Project would not substantially alter the existing character of the site and would not result in visually dominant or adverse qualities that would affect a substantial number of viewers. Therefore, the change in the visual character of the site due to the Project is considered less than significant.

**(d) No Impact.** The solar panels are not reflective and will be constructed of dark-colored materials. The facility will not be illuminated at night.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------------	--	------------------------------------	--------------

**II. AGRICULTURAL AND FORESTRY RESOURCES**

In determining whether agricultural impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:

- |  |                          |                          |                                     |                                     |
|--|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) 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?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) Result in the loss of forest land or conversion of forest land to non-forest use?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**Responses:**

**(a) Less Than Significant Impact.** The Project site is within the ARE-40 zone. The Farmland Mapping and Monitoring Program of the California Resources Agency classifies the current parcel as Unique Farmland. The applicant's proposed use is permitted in the

ARE-40 (Agricultural Rural Exclusive 40-Acre) District with a Conditional Use Permit. With the current groundwater issues occurring in the Madera Subbasin, the solar facility is determined as an appropriate use for agricultural lands.

**(b) Less Than Significant Impact.** According to the County’s Zoning Ordinance, a Solar Energy System is permitted on the Project area with a Conditional Use Permit. A portion of the Project area is subject to the Farmland Security Zone cancellation request under the Williamson Act Contract, which will allow the project site to be developed as a Solare Energy System. With the current groundwater issues occurring in the Madera Subbasin, the solar facility is determined as an appropriate use for agricultural lands.

**(c) No Impact.** The Project will not require rezoning, as Solar Energy Systems are a Conditionally Permitted Use within the Agriculture Zone. Furthermore, the parcel is not considered forest land, timberland, or timberland zoned Timberland Production.

**(d) No Impact.** The Project area is not considered forest land. The site is within a primarily rural residential area with agriculture practices and grazing.

**(e) Less Than Significant.** The Project will involve the conversion of portions of the Project parcels to non-agricultural use; however, the site will be able to be converted back to agricultural use once the facility is decommissioned. The adjacent parcels are within the ARE-40 and ARE-20 zones and will retain their use as agricultural. The Project proponent will adhere to any additional conditions regarding decommissioning of the facility and conversion back to agricultural use in the future.

**III. AIR QUALITY**

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------------	---	------------------------------------	--------------

- |   |                          |                          |                                     |                                     |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Conflict with, or obstruct implementation of, the applicable air quality plan?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| c) Expose sensitive receptors to substantial pollutant concentrations?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**Responses:**

**(a) Less Than Significant Impact.** The San Joaquin Valley Air Pollution Control District

(SJVAPCD) has published the Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI) that includes emission-based thresholds for projects. The Project will adhere to these thresholds and will not generate population or employment growth. Maintenance work will occur an estimated four times per year and will not result in a measurable increase in vehicle trips.

**(b) Less Than Significant Impact.** The SJVAPCD State Implementation Plan commitments are contained in the 2004 Extreme Ozone Attainment Demonstration Plan and the 2003 PM 10 Plan. These plans identified the need to reduce PM10 and NOx substantially in order to attain and maintain the ambient air-pollution standards on schedule. During construction, the proposed Project would affect local particulate concentrations primarily due to fugitive dust sources and contribute to ozone and PM 10/PM 2.5 levels due to exhaust emissions. Because of this, construction activities would temporarily affect local air quality, causing a temporary increase in particulate dust and other pollutants. Dust emission during periods of construction would increase particulate concentrations at neighboring properties; however, unmitigated construction emissions would not exceed the applicable SJVAPCD thresholds, including PM 10 (exhaust plus fugitive). Prior to construction of each project phase, the applicant will be required to submit a dust control plan that meets regulation requirements. These plans are reviewed by SJVAPCD, and construction cannot begin until District approval is obtained. Dust control plans and dust suppression activities include watering, control of fugitive dust, and record keeping of dust control measures which meet the regulation requirements. Furthermore, anyone who prepares or implements a Dust Control Plan must attend a training course conducted by the district.

Stationary combustion equipment that could emit air pollution during facility operation is not proposed for the Project. Photovoltaic energy projects, such as this one, do not usually include these sources. If stationary sources are included in the Project later, they may require permits from SJVAPCD. Such sources could include combustion emissions from standby emergency generators (rated 50 horsepower or greater). These sources would normally result in minor emissions, compared to those from traffic generation and off-road maintenance equipment reported above. Sources of stationary air pollutant emissions complying with all applicable SJVAPCD regulations generally will not be considered to have a significant air quality impact. Stationary sources that are exempt from SJVAPCD permit requirements due to low emission rates would not be considered to have a significant air quality impact.

**(c) No Impact.** There are no sensitive receptors near the site, as the closest residence is over 7,000 feet west of the proposed Project area. Sensitive receptors for air quality include facilities or land uses that serve or house members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of sensitive receptors include schools, hospitals, and residential areas. The Project area is surrounded by agricultural land use.

**(d) Less Than Significant Impact.** The occurrence and severity of odor impacts depends on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; distance from the odor source; and the sensitivity of the affected receptor. Offensive odors do not typically result in physical harm, but they can create a nuisance and may result in complaints from the affected public. Construction could potentially result in odorous exhaust emissions from use of gasoline- and diesel-fueled vehicles and equipment. However, these emissions would be intermittent and temporary and would dissipate with an increase in distance

from the construction location. Given the temporary and intermittent nature of odor-generating construction activities, and the dispersion of emissions compared to the limited proximity and low number of potential receptors, construction of the Project would not expose people to objectionable odors for an extended period or lead to odorous emissions that would adversely affect substantial numbers of people. Impacts associated with odors during construction would be minimal and temporary, and therefore less than significant. The proposed Project is a solar development and energy storage facility, which is not expected to result in objectionable odors during operation. Therefore, operation of the Project would not result in emissions leading to odors that would adversely affect substantial numbers of people, and the impact would be less than significant.

**IV. BIOLOGICAL RESOURCES**

Would the project:

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) 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 Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) 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 a native wildlife nursery site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## Responses:

**(a) Less Than Significant Impact With Mitigation.** The Biological Resources Assessment (BRA) prepared for the Project noted that one special-status wildlife species, Swainson's hawk (*Buteo swainsoni*), was determined to have a moderate potential to occur in or adjacent to the Study Area (which included the Project area, access road, interconnect route and interconnect area) and surrounding vicinity. No special-status plant species have a moderate or greater potential to occur in the Project area due to the high level of disturbance and lack of suitable habitat in the Project area.

The Study Area is not within critical habitat limits for any federally-listed species. Several common wildlife species adapted to life in proximity to human activity like coyote (*Canis latrans*) and raccoon (*Procyon lotor*) are likely to move through the Study Area on a regular basis to find food and cover; however, construction of the Project would not permanently affect these species' ability to forage or reproduce. Several common native and non-native bird species could use the Study Area for nesting and/or foraging, as there is suitable habitat available for several ground and shrub nesting species.

Impacts to Swainson's hawk and other nesting bird species due to noise, dust, and increased human presence within the Project area during construction, as well as the potential for increased presence of predators associated with trash attractants during construction activities that may prey upon special-status bird species could be considered a significant impact. The mitigation measures below and outlined in the BRA are recommended to address potential impacts to sensitive biological resources.

**(b-c) No Impact.** The project area does not include 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. No wetlands or other waters that could be considered jurisdictional by the U.S. Army Corps of Engineers, Regional Water Quality Control Board, or California Department of Fish and Wildlife were observed within or adjacent to the Study Area during the survey and no agricultural ditches are present.

**(d, e, and f) Less Than Significant Impact with Mitigation.** The BRA indicates that the Project area is recognized by CDFW as an irreplaceable and essential corridor under the Statewide Terrestrial Connectivity map showing Areas of Conservation Emphasis. This area contains attributes identified across multiple studies that have indicated the relative importance of providing opportunities for the movement and dispersal of organisms critical to maintaining healthy populations and species survival.

The Project has been designed so that wildlife can move around all sides of the fence, as well as under the fence and through the arrays. The Project will not create pinch points or barriers for wildlife to access similar habitat in the general vicinity of the Study Area. Temporary effects due to noise and increased human activity during Project construction would not interfere with local movement patterns over time or affect the ability of these species to forage or reproduce. All native birds in California are protected by the federal Migratory Bird Treaty Act (MBTA), and Section 3503.5 of the California Fish and Game Code (CFG) specifically protects raptors. Ground disturbance, noise, or removal of vegetation that would result in destruction of active bird nests or disruption of breeding/nesting activity could be a violation of the MBTA and the CFGC,

as well as a significant impact. Recommended measures to address potential biological resource impacts are included below.

The following mitigation measures are recommended to address potential impacts to sensitive biological resources:

**BIO MM-1:** Preconstruction Nesting Bird Survey. A nesting bird survey shall be performed by a qualified biologist no earlier than one week prior to construction or vegetation removal during the nesting season (March 1 – August 31) to determine if any native birds are nesting on or near the site (including a 350-foot buffer for raptors, where accessible). If any active nests are observed during surveys, a suitable avoidance buffer from the nests should be determined by the qualified biologist based on species, location, and extent and type of planned construction activity. These nests would be avoided until the chicks have fledged and the nests are no longer active, as determined by the qualified biologist. The removal of any suitable nesting habitat (i.e., trees and vegetation) outside of the bird breeding season to avoid impacts to nesting birds is also recommended.

**BIO MM-2:** Swainson's Hawk. Prior to initiation of project activities, a qualified biologist shall conduct protocol surveys for Swainson's hawk following the Swainson's Hawk Technical Advisory Committee's Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (TAC 2000). If project activities begin prior to the breeding season (March 1 – August 31) and are ongoing throughout the breeding season, Swainson's hawks are unlikely to initiate nesting within the Study Area due to elevated levels of noise and visual disturbance, and therefore protocol surveys would not be warranted. Alternatively, if construction is expected to begin during the breeding season, protocol-level surveys should be performed at a minimum in Period 2 (March 20 to April 5), and Period 3 (April 5 to April 20) to determine if nesting Swainson's hawks are present within 0.5-mile of the Study Area. Performing surveys during Period 1 (January 1 to March 20) would increase the chance of nest detections, as most nests are easily observed from relatively long distances when leaves are absent from trees, giving the surveyor the opportunity to identify potential nest sites, as well as becoming familiar with the Study Area. If active Swainson's hawk nests are detected during surveys in Period 2 and Period 3, monitoring of nests should occur in Period 4 (April 21-June 10) to maintain records on the status of the nests. During this time, Project activities should not be initiated until consultation with CDFW is sought to determine a proper strategy to avoid impacts to nesting Swainson's hawks, which would likely include avoidance in the form of no-work buffers or monitoring of active nests.

**BIO MM-3:** Trash Receptacles. To deter predators from being attracted to the Project Area during construction, all trash and waste items generated by construction or crew activities should be properly contained in a covered and locked trash receptacle and/or removed from the Project Area daily. This includes biodegradable items, such as apple cores and banana peels, that attract predators such as raccoons and American crows that could prey upon sensitive wildlife species. In addition, no firearms or pets should be allowed on the site during construction or Operations and Maintenance activities.

**BIO MM-4:** Common and Special-Status Wildlife Awareness. All Project personnel will visually check for animals in any pipes, culverts, or other open-ended materials and equipment stored on site for one or more overnight periods prior to moving, burying, or capping to ensure that no animals are present within the materials and equipment. To prevent accidental entrapment of wildlife during construction, all excavated holes, ditches, or trenches greater than six (6) inches deep will be covered at the end of each workday by suitable materials that cannot be displaced

or escape ramps will be placed in excavations. After opening and before filling, such holes, ditches, and trenches will be thoroughly inspected for trapped animals.

**General Info**

Common Name	Federal Listing	State Listing	CDFW Listing	CNPS Listing
Swainsons hawk	None	Threatened	-	-
mountain plover	None	None	SSC	-
western yellow-billed cuckoo	Threatened	Endangered	-	-
bank swallow	None	Threatened	-	-
tricolored blackbird	None	Threatened	SSC	-
loggerhead shrike	None	None	SSC	-
burrowing owl	None	None	SSC	-
white sturgeon	None	None	SSC	-
American bumble bee	None	None	-	-
San Joaquin kit fox	Endangered	Threatened	-	-
short-nosed kangaroo rat	None	None	SSC	-
Fresno kangaroo rat	Endangered	Endangered	-	-
San Joaquin pocket mouse	None	None	-	-
western mastiff bat	None	None	SSC	-
American badger	None	None	SSC	-
Nelsons (=San Joaquin) antelope squirrel	None	Threatened	-	-
California floater	None	None	-	-
Northern California legless lizard	None	None	SSC	-
blunt-nosed leopard lizard	Endangered	Endangered	FP	-
northwestern pond turtle	Proposed Threatened	None	SSC	-
giant gartersnake	Threatened	Threatened	-	-
coast horned lizard	None	None	SSC	-
Valley Sacaton Grassland	None	None	-	-
Sanfords arrowhead	None	None	-	1B.2
heartscale	None	None	-	1B.2
Lost Hills crownscale	None	None	-	1B.2
lesser saltscale	None	None	-	1B.1
subtle orache	None	None	-	1B.2
golden goodmania	None	None	-	4.2
recurved larkspur	None	None	-	1B.2

**Mendota Dam Quadrangle**

List 1A: Plants presumed extinct

List 1B: Plants Rare, Threatened, or Endangered in California and elsewhere.

List 2: Plants Rare, Threatened, or Endangered in California, but more numerous elsewhere

List 3 Plants which more information is needed – a review list

List 4: Plants of Limited Distributed - a watch list

**Ranking**

0.1 – Seriously threatened in California (high degree/immediacy of threat)

0.2 – Fairly threatened in California (moderate degree/immediacy of threat)

0.3 – Not very threatened in California (low degree/immediacy of threats or no current threats known)

SSC Species of Special Concern

WL Watch List

EP Fully Protected

Effective January 1, 2007, Senate Bill 1535 took effect that has changed de minimis findings procedures. The Senate Bill takes the de minimis findings capabilities out of the Lead Agency hands and puts the process into the hands of the California Department of Fish and Wildlife (formally the California Department of Fish and Game). A Notice of Determination filing fee is due each time a NOD is filed at the jurisdictions Clerk’s Office. The authority comes under Senate Bill 1535 (SB 1535) and Department of Fish and Wildlife Code 711.4. Each year the fee is evaluated and has the potential of increasing. For the most up-to-date fees, please refer to: [http://www.dfg.ca.gov/habcon/ceqa/ceqa\\_changes.html](http://www.dfg.ca.gov/habcon/ceqa/ceqa_changes.html).

**V. CULTURAL RESOURCES**

Would the project:

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Responses:**

**(a) No Impact.** A Cultural Resources Inventory and Evaluation was conducted. The Project area does not contain any buildings or structures that have the potential to be a historical resource. The cultural resource inventory of the Area of Potential Effects (APE) included a review of the natural and cultural environment including the prehistory, ethnography, and history; a review of historic maps; record search results from the Northeast Information Center (NEIC); and a pedestrian survey. As a result of these efforts, no cultural resources were identified in the APE. In addition, the high amount of disturbance due to past and current use of the APE for agricultural purposes have reduced the potential for subsurface cultural materials within the APE. The APE is considered to have a low sensitivity for buried

prehistoric and historic-era cultural resources and recommends a finding of no historic properties affected for the undertaking of this Project.

**(b) Less Than Significant with Mitigation.** No features exist on the property, including objects, sites, or landscapes, which could be considered as having cultural value as an archaeological resource. However, the mitigation measures provided below are recommended in the event any materials or remains are discovered.

**(c) Less Than Significant with Mitigation.** No new construction and ground-disturbing activities are proposed that could result in potential impacts to unknown human remains. However, the mitigation measures provided below are recommended in the event any materials or remains are discovered.

The following mitigation measures are recommended to address potential impacts to sensitive cultural resources that may be discovered during construction:

**CUL MM-1:** In the event archaeological resources are encountered during any ground-disturbing activities associated with the Project, all ground-disturbing work at the location, plus a reasonable buffer zone, must be immediately suspended. The approving County department shall be contacted, and a qualified professional archaeologist retained to analyze the significance of the find and formulate further mitigation (e.g., Project relocation, excavation plan, and protective cover) in consultation with culturally affiliated tribes or other descendant groups, where applicable.

**CUL MM-2:** Pursuant to California Health and Safety Code §7050.5, if known or suspected Native American or other human remains are encountered, all ground-disturbing work must cease in the vicinity of the discovery, and the County Coroner must be contacted. The respectful treatment and disposition of remains and associated grave offerings shall be in accordance with PRC §5097.98. The applicant and successors in interest are ultimately responsible for ensuring compliance with this condition.

**CUL MM-3:** In the event the Project design changes, and ground disturbance is anticipated beyond the APE as it is currently defined, further surveys shall be conducted in those new areas to assess the presence of cultural resources. Any newly discovered or previously recorded cultural resources within the additional survey areas shall be recorded (or updated) on appropriate DPR 523-series forms. If eligible historic properties/historical resources are identified and avoidance of these resources is not feasible, then an evaluation and/or data recovery program shall be drafted and implemented.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--	--------------------------------------	--	------------------------------------	--------------

**VI. ENERGY**

Would the project:

- |   |                          |                          |                                     |                          |
|---|--------------------------|--------------------------|-------------------------------------|--------------------------|
| a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Responses:**

**(a - b) Less Than Significant Impact.** The Project is a small-scale utility solar generating and energy storage project. The Project will generate a total of 5.0 megawatts (MW) of clean, reliable solar energy when complete. Once construction is complete, the facility will not be staffed, and is not population or employment generating.

California has implemented numerous energy efficiency and conservation programs that have resulted in substantial energy savings. The State has adopted comprehensive energy efficiency standards as part of its Building Standards Code, California Codes of Regulations, Title 24. In 2009, the California Building Standards Commission adopted a voluntary Green Building Standards Code, also known as CALGreen, which became mandatory in 2011. CALGreen sets forth mandatory measures applicable to new residential and non-residential structures and additions and alterations on water efficiency and conservation, building material conservation, interior environmental quality, and energy efficiency.

Additionally, California has adopted a Renewables Portfolio Standard, which requires electricity retailers in the state to generate 33 percent of the electricity they sell from renewable energy sources (e.g., solar, wind, geothermal, hydroelectric from small generators, etc.) by the end of 2020. In 2018, SB 100 was signed into law, which increases the electricity generation requirement from renewable sources to 60% by 2030 and requires all the state's electricity to come from carbon-free resources by 2045. The main sources of energy consumption would be construction activities and ongoing Project operations. Project construction would involve fuel consumption and use of other nonrenewable resources. Construction equipment used for such improvements typically runs on diesel fuel or gasoline. The same fuels are typically used for vehicles transporting equipment and workers to and from a construction site. However, construction-related fuel consumption would be finite, short-term and consistent with construction activities of a similar

character. This energy use would not be considered wasteful, inefficient or unnecessary. Equipment overtime would be more energy-efficient in order to assist with meeting State emissions reduction goals. Additionally, under California's Renewable Portfolio Standard, a greater share of electricity would be provided from renewable energy sources over time, so less fossil fuel consumption to generate electricity would occur. The Project would be required to comply with the building energy efficiency standards of California Code of Regulations Title 24, Part 6, also known as the California Energy Code. Compliance with these standards would reduce energy consumption associated with Project operations, although reductions from compliance cannot be readily quantified at this time. Overall, Project construction and operations would not consume energy resources in a manner considered wasteful, inefficient, or unnecessary. The Project would not conflict or obstruct any state or local plans for renewable energy efficiency, thus Project impacts related to energy consumption are considered less than significant.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------	---	------------------------------	-----------

**VII. GEOLOGY AND SOILS**

Would the project:

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zone Map issued by the State Geologist for the area, or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geological 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Responses:**

**(a i - iv) Less than Significant Impact.** The Project will be constructed in accordance with California Building Code requirements, the facility will not be staffed, and is expected to require only four maintenance visits a year. Like much of the region, the site is expected to experience strong seismic ground shaking during an earthquake, and as such the Project will be designed and constructed in accordance with California Building Code requirements. The Project area generally does not have slopes greater than 15 percent and has not been identified as one that has experienced previous landslides.



According to the California Earthquake Hazards Zone Application (EQ Zapp) located on the Department of Conservation, the Project is not within an Earthquake Fault Zone (Department of Conservation, 2022). The Earthquake Shaking Potential for California Map located on the Department of Conservation's website displays the Level of hazards regarding ground shaking for each county. According to the map, the Project site is located in a region where only weaker masonry buildings would be damaged. However, very infrequent earthquakes could still cause strong shaking. The Project does not include the construction of masonry buildings and therefore, there would be a less than significant impact (Department of Conservation, 2016).

**(b) Less Than Significant Impact With Mitigation.** The parcel is subject to potential erosion due to rain events; however, with the implementation of HYDRO MM-1, construction Project proponents will be required to submit a Notice of Intent and Storm Water Pollution Prevention Plan (SWPPP) to the Regional Water Quality Board to obtain a National Pollutant Discharge Elimination System (NPDES) General Construction Permit. The SWPPP will include Best Management Practices (BMPs) to control erosion and siltation on the site in order to prevent water quality degradation. Such measures may include, but are not limited to, covering the graded area with straw or straw matting, and using water for dust control. Implementation of HYDRO MM-2 will require all stabilized construction on, and at off-site access locations be constructed per the latest edition of the California Stormwater Quality Association (CASQA) details to effectively prevent tracking of sediment onto paved areas. If applicable, all BMPs will be inspected weekly and before and after each rain event and repaired or replaced as necessary. The contractor shall abide all the laws, ordinances, and regulations associated with the NPDES and the Clean Water Act. Due to the flat nature of the Project area, and given that the site has been previously developed, development within the Project area would result in a less than significant soil erosion impact.

**(c) Less Than Significant Impact.** The Project area is not located in an earthquake fault zone and is in an area with a low probability of seismic activity. Lateral spreading, subsidence, and collapse are uncommon in Madera County. Since the Project area is not located on a geologic unit or soil that is unstable or would become unstable due to Project activities, there is little to no potential for result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. Impacts from these criteria are considered less than significant.

**(d) Less Than Significant Impact.** According to Table 18-1B of the Uniform Code (1994) soils meeting all four of the following provisions shall be considered expansive, except that tests to show compliance with Items 1, 2 and 3 shall not be required if the test prescribed in Item 4 is conducted (California Building Code, 2022):

1. Plasticity index (PI) of 15 or greater, determined in accordance with ASTM D4318.
2. More than 10 percent of the soil particles pass a No. 200 sieve (75  $\mu$ m), determined in accordance with ASTM D422.
3. More than 10 percent of the soil particles are less than 5 micrometers in size, determined in accordance with ASTM D422.
4. Expansion index greater than 20, determined in accordance with ASTM D4829.

According to the Natural Resources Conservation Services (NRCS) Web Soil Survey, five soil types have been mapped within the Project area: Cajon loamy sand (CaA), El Peco-Dinuba fine sandy loam (EdA), Fresno and El Peco fine sandy loams (FebA), Fresno and El Peco fine sandy loams (FecA), and Cajon loamy sand (CaaA), with 0 to 1 percent slopes. The detailed Project design will account for site specific conditions and be informed by a geotechnical evaluation of substrate conditions. Further, the Project will be designed per local and state building requirements.

**(e) No Impact.** The Project will not require a septic system.

**(f) Less Than Significant Impact.** Should any unique paleontological resource or site or a unique geological feature be found, the Project will adhere to any required Conditions of Approval and Best Management Practices to ensure their protection.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
<b>VIII. GREENHOUSE GAS EMISSIONS</b>				
Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Responses:**

**(a) Less than Significant Impact.** The Project is assumed to generate approximately 5.5 megawatts (MW) AC or 6.5 MW DC,. The California Emissions Estimator Model (CalEEMod) was used to predict the amount of GHG emissions reduced, assuming a similar amount of power generated in California. In CalEEMod, the “Statewide Average” electric utility was the selected utility and the amount of electricity generated was entered in the mitigation module of CalEEMod for operational emissions (energy). Construction of the Project will generate a temporary increase in greenhouse gas (GHG) emissions from worker vehicle trips, truck use, and equipment exhaust. However, the Project will lower reliance on carbon-based energy sources and will not increase vehicle trips as the facility will not be staffed and will only require minimal maintenance-related visits a year. Unscheduled maintenance visits will generally only occur if there is an emergency. During operation, the Project would generate less than one metric ton CO<sub>2</sub>e associated with maintenance. Electricity generated would offset about 1,803 metric tons.

**(b) Less than Significant Impact.** No Impact. The Project is consistent with the State GHG policy to encourage solar power development as a means to reduce fossil fuels and GHG emissions and improve air quality.

**IX. HAZARDS AND HAZARDOUS MATERIALS**

Would the project:

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Responses:**

**(a – d) No Impact.** During the construction phase of the Project, materials and equipment which may have the potential to be hazardous may be used. However, all construction activities, materials and equipment usage will comply with applicable local and State regulations regarding transport, usage, and disposal. Design and Construction will adhere to all California Building and Fire Codes including Chapter 7A of the California Building Code and Chapter 47 of the California Fire Code, including Public Resources Code 4290 and 4291, current adopted Board of Forestry Fire Safe Regulations, and Madera County Standards. The Project will not emit hazardous emissions and the project is not located on a site included on a list compiled pursuant to Government Code Section 65962.5.

**(e) Less Than Significant Impact.** The closest airport is the Firebaugh airport approximately 12 miles west of the Project area. Therefore, the Project would not expose people to a safety risk or excessive noise and would have a less than significant impact.

**(f) No Impact.** The project would not interfere with and adopted emergency response plan or emergency evacuation plan.

**(g) No Impact.** According to the Madera County General Plan, a Wildland is a non-urban, natural area that contains uncultivated land, timber, range, watershed, brush, or grasslands. Although there are areas of grassland in the vicinity of the Project area, the Project area is located in a heavily agricultural area where the ground has been disturbed and cultivated and is generally absent of natural vegetation. The Project will not expose people or structures, directly or indirectly, to a significant risk of loss, injury, or death involving wildfires (County of Madera, 1995).

**X. HYDROLOGY AND WATER QUALITY**

Would the project:

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) 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:				
(i) Result in substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii) 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; or	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iv) Impede or redirect flood flows?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Responses:**

**(a) Less Than Significant Impact With Mitigation.** The Project area is relatively flat and during the construction phase of the project, activities will adhere to local and state regulations regarding stormwater and discharge requirements. However, preparation of the Project area would require disturbance of the parcel, which could result in erosion and siltation with the potential to violate water quality standards. Additionally, accidental spills

or disposal of potentially harmful materials used during construction or operation of the project could possibly wash into and pollute surface water runoff. A Storm Water Pollution Prevention Plan for construction-related activities would include, but not be limited to, the following types of Best Management Practices (BMPs) to minimize the potential for pollution related to material spills:

- Vehicles and equipment will be cleaned;
- Vehicle and equipment fueling and maintenance requirements will be established;
- A spill containment and clean-up plan will be in place prior to and during construction activities.

In order to reduce potential impacts to water quality during construction activities, mitigation measure HYDRO MM-1 and HYDRO MM-2 below will be required. Once construction is complete, the Project will not generate wastewater.

**(b) No Impact.** The project is a Solar Energy System and will not draw groundwater, and the Project area is not mapped as a groundwater basin or subbasin.

**(c i - iv) Less Than Significant Impact With Mitigation.** Drainage and grading in the Project area will adhere to all local and state regulations. However, all disturbed areas will be vulnerable to erosion during the winter rainy season. With the implementation of HYDRO MM-1 and HYDRO MM-2, the Project will have a less than significant impact.

**(d) No Impact.** The Project area is not within any flood hazard, tsunami, or seiche zones.

**(e) No Impact.** The Project will not conflict with any water quality or groundwater plan.

**HYDRO MM-1:** Prior to construction, the Applicant shall submit a copy of: (1) the approved Storm Water Pollution Prevention Plan (SWPPP) and (2) the Notice of Intent (NOI) to comply with the General National Pollutant Discharge Elimination System (NPDES) from the Central Valley Regional Water Quality Control Board. The requirements of the SWPPP and NPDES shall be incorporated into design specifications and construction contracts. The Applicant or person responsible shall meet County of Madera construction site requirements regarding the control of surface water, and runoff. Runoff created at the project site shall meet the following minimum requirements:

- Sediments generated on the project site shall be retained using adequate treatment control or structural Best Management Practices (BMPs)
- Construction-related materials, wastes, spill or residues shall be retained at the project site to avoid discharge to streets, drainage facilities, receiving waters or adjacent properties by wind or run-off.

**HYDRO MM-2:** All stabilized construction at on and off-site access locations shall be constructed per the latest edition of the California Stormwater Quality Association (CASQA) details to effectively prevent tracking of sediment onto paved areas. If applicable, all BMPs are to be inspected weekly and before and after each rain event and repaired or replaced as necessary. The contractor shall abide all the laws, ordinances, and regulations associated with the NPDES and the Clean Water Act.

**XI. LAND USE AND PLANNING**

Would the project:

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------	---	------------------------------	-----------

- |   |                          |                          |                          |                                     |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Physically divide an established community?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Responses:**

**(a) No Impact.** The Project is located within an agricultural area, it will not physically divide an established community.

**(b) No Impact.** The Project is subject to the approval of a Conditional Use Permit (CUP) and the applicable findings. It does not require a General Plan amendment and will not conflict with the Zoning ordinance. The parcel is not within any plan area which conflicts with use of the property as a Solar Energy System.

**XII. MINERAL RESOURCES**

Would the project:

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------	---	------------------------------	-----------

- |   |                          |                          |                          |                                     |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) 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?                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Responses:**

**(a) No Impact.** The project site is not within an area identified as having a known mineral resource of value to the state or region.

**(b) No Impact.** The Project will not 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.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------	---	------------------------------	-----------

**XIII. NOISE**

Would the project result in:

- |   |                          |                                     |                                     |                                     |
|---|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| a) 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 ordinances, or applicable standards of other agencies?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| b) Generation of excessive groundborne vibration or groundborne noise levels?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 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? | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Responses:**

**(a) Less Than Significant Impact With Mitigation.** Operation of the proposed project would generate levels of noise typical of a RV Resort; however, the project site is located in an agricultural area with winery operations to the east and an agricultural facility to the north of the project site. During project construction, heavy equipment would be used for grading, excavation, paving, and building construction, which would increase ambient noise levels when in use and could potentially have an impact however with the implementation of of NOISE MM-1 the project would have a less than significant impact.

**NOISE MM-1** The following measures shall be incorporated into the project on-site construction operations:

- Pursuant to Section 9.58.020(G) of the Madera County Municipal Code, construction activities are limited to the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday, and from 9:00 a.m. to 5:00 p.m. on Saturdays. Construction activities are prohibited on Sundays.
- All equipment and vehicles should be powered off when not in use. Unnecessary idling of internal combustion engines should be prohibited.
- All mobile or fixed noise-producing equipment used on the project site that are regulated for noise output by a federal, state, or local agency shall comply with such regulations while in the course of project activity.
- Select quiet equipment, particularly air compressors, whenever possible. All noise producing project equipment and vehicles using internal combustion engines should be equipped with manufacturer-recommended mufflers and be maintained in good working condition. Electrically powered equipment should be used instead of pneumatic or internal combustion powered equipment, where feasible.



- Project area and site access road speed limits shall be established and enforced during the construction period.

**b) Less Than Significant Impact.** During project construction, heavy equipment would be used for grading, excavation, paving, and building construction, which would generate localized vibration in the immediate vicinity of the construction.

**c) No Impact.** This project is not located near either of the municipal airports (Chowchilla and Madera) and is outside of the two-mile analysis requirement and, therefore would not have an impact.

**XIV. POPULATION AND HOUSING**

Would the project:

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and business) or indirectly (for example, through extension of roads or other infrastructure)?

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------	---	------------------------------	-----------

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

**Responses:**

**(a) No Impact.** The project is to assist in providing reliability to the California electric grid, this type of project would not induce unplanned population growth either directly or indirectly.

**(b) No Impact.** The project is located on a vacant site and would not displace housing or people.

\_\_\_\_\_

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------------	--	------------------------------------	--------------

**XV. PUBLIC SERVICES**

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, 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 any of the public services:

i) Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii) Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
v) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Responses:**

**(a – i-ii) Less Than Significant Impact.** As previously stated, the project will be providing reliability to the California electric grid. The project could increase the risk of emergency services being provided to the project site; however, the increase would be minimal and would not require new or physically altered governmental facilities. Therefore, the project would have a less than significant impact.

**(a – iii through v) No Impact.** The project would not result in new or physically altered governmental facilities to maintain acceptable service ratios, response times, or other performance objectives for any public services. And therefore, the project will have no impact.

\_\_\_\_\_

**XVI. RECREATION**

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	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?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	--------------------------	-------------------------------------

**Responses:**

**(a – b) No Impact.** The project would not result in the need for new or physically altered governmental or recreational facilities. The project is for commercial use and would not result in an increase in population or the need for parks or recreational facilities and, as a result, would have no impact.

\_\_\_\_\_

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--	--------------------------------	---	------------------------------	-----------

**XVII. TRANSPORTATION**

Would the project:

- |   |                          |                          |                                     |                                     |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?        | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| c) Substantially increase hazards due to a geometric design feature (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) Result in inadequate emergency access?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Responses:**

**(a-b) Less Than Significant Impact.** The project is located on the south side of Avenue 12 and the east side of Road 30 ½. The project is subject to the 1995 Madera County General Plan. Section two of the 1995 Madera County General Plan provides policies relevant to Transportation and Circulation.

The project is a battery 200 MW battery energy storage system. The traffic generated as a result of the project will be two maintenance vehicles that will visit the site four times a year to include a service vehicle that will visit the site four times a year resulting in approximately twenty-four vehicle trips a year. as a result of the project will have a less than significant impact.

**(c) No Impact.** The project will not result in a geometric design feature that will result in sharp curves or dangerous intersections. As previously stated, the trip generation as a result of the project will approximately twenty-four vehicle tris a year and as a result the project will not have an impact.

**(d) No Impact.** The project will not result in inadequate emergency response and therefore have no impact.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------------	--	------------------------------------	--------------

**XVIII. TRIBAL CULTURAL RESOURCES**

Would the project:

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 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:

- |     |   |                          |                          |                          |                                     |
|-----|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| i.  | 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 Section 5020.1(k), or   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ii. | 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 Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Responses:**

**(a – i, ii) No Impact.** In accordance with Public Resources Code Section 21080.3.1, notification letters were sent to tribal representatives of California Native American tribes that have requested to be notified of projects within the project area of Madera County. Tribal representatives were advised of the Project and invited to request formal consultation with the County regarding the Project within 30 days of receiving the notification letters. Eight notification letters were sent to representatives of the following tribes:

- Table Mountain Rancheria
- Picayune Rancheria of the Chukchansi Indians
- Dumna Wo Wah Tribal Government
- Chowchilla Yokuts Tribe

As of the preparation of this Initial Study, more than 30 days following the County’s transmittal of notification letters, no tribal representatives requested consultation. No tribal cultural resources have been identified associated with the site.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------------	--	------------------------------------	--------------

**XIX. UTILITIES AND SERVICE SYSTEMS**

Would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it had adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) 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?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Responses:**

**(a–e) Less Than Significant Impact.** The project is a Solar Energy System and will not generate wastewater, will not require water to serve it, and will not generate solid waste. It is Low Impact Development (LID) that minimizes impervious area and minimizes runoff.

\_\_\_\_\_

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
--------------------------------------	--	------------------------------------	--------------

**XX. WILDFIRE**

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Substantially impair an adopted emergency response plan or emergency evacuation plan?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) 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?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) 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?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Responses:**

**(a - d) No Impact.** The Project area is located in a Local Responsibility Area (LRA) and is not in a fire hazard severity zone. It will be accessed via existing roads, which are not major arterials and are not expected to create a potential bottleneck should emergency response or evacuation be required, as the area is primarily agricultural and the types of activities occurring in the Project area typically do not contribute to or exacerbate wildfire risks. Following the construction phase of the Project, the site will be primarily unoccupied and is not characterized by steep slopes or prevailing winds which would expose any maintenance worker visiting the site to elevated risk.

Madera County developed an Operational Area Emergency Operations Plan which, was updated in January of 2010 and a Multi-Hazard Functional Plan which is responsible for establishing emergency management organization required to mitigate any emergency or disaster affecting Madera County. Both documents identify policies, responsibilities and procedures required to protect the health and safety of Madera County communities, public and private property, and the environmental effects of natural and technological emergencies and disasters. They also establish the operational concepts and procedures associated with Initial Response Operations (field response) to emergencies and the Extended Response Operations County Emergency Operations Center (EOC) activities and the recovery process. Madera County also developed a Local Hazard Mitigation Plan (LHMP) which is responsible for evacuation procedures. The LHMP states the Sheriff's Department uses a system known as "MCALERT". There is nothing in either document that indicate the Project would impact a response plan or emergency evacuation plan. The Project does not propose any actions or structures that expose people or structures to significant risks.

The facility will interconnect to the pre-existing PG&E electrical distribution system located on site and will be equipped with battery energy storage technology. This infrastructure is designed and engineered with fire safety features, such as hydrogen detection, active ventilation, fire, heat and smoke detection, fireproof insulation, heat activated sprinkler system and other fire suppression features. The Project does not expose people or structures to risks such as downslope or downstream flood or landslides, as the Project area is flat.

\_\_\_\_\_

**XIX. MANDATORY FINDINGS OF SIGNIFICANCE**

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

**Responses:**

**(a) Less Than Significant Impact.** The Project will not degrade the quality of the environment, and with the incorporation of mitigation measures, would have a less than significant impact on the environment. The Project will not 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, or substantially reduce the number or restrict the range of a rare or endangered plant or animal.

Although no special-status species were observed in the Project area, potential impacts to species that may occur on the site will be reduced to less than significant with the implementation of the recommended mitigation measures for Biological Resources.



The project will not eliminate important examples of the major periods of California history or prehistory, including cultural and tribal cultural resources. A Cultural Resources Inventory and Evaluation was conducted and concluded the Project area does not contain any buildings or structures that have the potential to be a historical resource and no features exist on the property. However, the Cultural Resources mitigation measures are recommended in the event any materials or remains are discovered during construction.

Therefore, the project would not have the potential to substantially degrade the quality of the environment and, therefore will have a less than significant impact.

**(b) Less Than Significant Impact.** The Project does not have cumulatively considerable impacts. The individually limited impacts are discussed in their relevant sections above. The findings can be made for approval of the CUP for the Project, and with the application of standard conditions of approval and Project specific requirements, the Project does not have any impacts that are individually limited but cumulatively considerable.

**(c) Less Than Significant Impact.** The Project will not have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.

\_\_\_\_\_

## Works Cited

- California Building Code . (2022, November 2). *Chapter 18 Soils and Foundations* . Retrieved from Upcosed: <https://up.codes/viewer/california/ca-building-code-2016/chapter/18/soils-and-foundations#18>
- California Department of Conservation . (2022, October 18). *Madera County Farmland Data Availability*. Retrieved from California Department of Conservation : [https://www.conservation.ca.gov/dlrp/fmmp/Documents/fmmp/pubs/2016-2018/alternate\\_conversion/Alternate\\_Madera\\_County\\_2016-2018\\_Land\\_Use\\_and\\_Rural\\_Conversion.pdf](https://www.conservation.ca.gov/dlrp/fmmp/Documents/fmmp/pubs/2016-2018/alternate_conversion/Alternate_Madera_County_2016-2018_Land_Use_and_Rural_Conversion.pdf)
- California Department of Fish and Wildlife . (2022, August 10). *BIOS*. Retrieved from <https://apps.wildlife.ca.gov/bios/?bookmark=326>
- County of Madera . (1995, October 24). General Plan. Madera , County , United States of America .
- Department of Conservation . (2016). *Earthquake Shaking Potential for California* . Retrieved from Department of Conservation: [https://www.conservation.ca.gov/cgs/Documents/Publications/Map-Sheets/MS\\_048.pdf](https://www.conservation.ca.gov/cgs/Documents/Publications/Map-Sheets/MS_048.pdf)
- Department of Conservation. (2016). *Department of Conservation*. Retrieved from DOC Maps: Agriculture: <https://maps.conservation.ca.gov/agriculture/>
- Department of Conservation. (2022, October 31). *Earthquake Zones of Required Investigation*. Retrieved from maps.conservation: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>
- Office of the State Fire Marshal . (n.d.). *FHSZ Viewer* . Retrieved from Fire Hazard Severity Zones Maps : <https://egis.fire.ca.gov/FHSZ/>
- San Joaquin Valley Air Pollution Control District . (2022, February 16). *San Joaquin Valley Air Pollution Control District Reference No. 20220128*. California , United States .
- U.S. Fish & Wildlife Service . (2022, August 10). *National Wetlands Inventory* . Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>
- United States Department of Agriculture . (2019, July 31). *Web Soil Survey* . Retrieved from Natural Resources Conservation Service : <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>