Appendix C

| Notice of Completion | & Environmental | Document Transmittal |
|----------------------|-----------------|-----------------------------|
|----------------------|-----------------|-----------------------------|

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

| Project Title: Parkwood CMD 19A&B Water System Impro | ovements |
|--|---|
| Lead Agency: Madera County Public Works | Contact Person: Ahmad Alkhayyat |
| Mailing Address: 200 W. 4th Street, 3rd Floor | Phone: (559) 675-7811 |
| City: Madera | Zip: 93637 County: Madera |
| | |
| Project Location: County: Madera | _ City/Nearest Community: Madera/Parkwood |
| Cross Streets: Madera Ave and Raymond Thomas Street | Zip Code: 93637 |
| Longitude/Latitude (degrees, minutes and seconds): <u>36</u> ° <u>55</u> | <u>55.8 " N / 120 ° 3 ' 8.3 "</u> W Total Acres: 1.45 |
| Assessor's Parcel No.: 047-364-011 | Section: Twp.: Range: Base: |
| Within 2 Miles: State Hwy #: 145, 99 | Waterways: Cottonwood Creek |
| Airports: | Railways: UPrr Schools: Madera S HS |
| Document Type: | |
| CEQA: NOP Draft EIR Early Cons Supplement/Subsequent EIR Neg Dec (Prior SCH No.) Mit Neg Dec Other: | NEPA: NOI Other: Joint Document Image: Second Stress Office of Planning Office |
| Local Action Type: General Plan Update Specific Plan General Plan Amendment Master Plan General Plan Element Planned Unit Development Community Plan Site Plan | STATE CLEARINGHOUSE Rezone Annexation Prezone Redevelopment ut Use Permit Coastal Permit Land Division (Subdivision, etc.) Other: water system |
| Development Type: | |
| Office: Saft Acres Employees | Transportation: Type |
| Commercial:Sq.ft. Acres Employees | Mining: Mineral |
| Industrial: Sq.ft Acres Employees | Power: Type MW |
| Educational: | Waste Treatment: Type MGD |
| Water Facilities: Type well MGD 1.44 | Hazardous waste: Type |
| | |
| Project Issues Discussed in Document: | |
| Aesthetic/Visual Fiscal | Recreation/Parks Vegetation |
| Agricultural Land Flood Plain/Flooding | Schools/Universities Water Quality |
| Arrheological/Historical Geologic/Seigmin | Service Consolity Water Supply/Groundwater |
| Biological Resources Minerals | Soil Brosion/Compaction/Grading Growth Inducement |
| Coastal Zone | Solid Waste |
| Drainage/Absorption Population/Housing Balance | ce Toxic/Hazardous Cumulative Effects |
| Economic/Jobs Public Services/Facilities | Traffic/Circulation Other: |
| Present Land Use/Zoning/General Plan Designation: Public Open Space (POS)/Medium Density Residential (MI Project Description: (please use a separate page if nece | DR) assary) |

The Parkwood CMD (County Maintenance District) 19 A&B Parkwood Water System (Proposed Project) proposes to construct and operate one municipal production well to supplement existing supplies in the northern portion of its service area, within Madera County. The project site consists of one existing and one offline well and its associated features. This project would involve of above grade and below grade infrastructure Improvements designed to bring online a new production well to replace an existing, offline well on the same parcel. The final product will be a groundwater well capable of producing approximately 1,000 gallons per minute (gpm) to meet all drinking water quality requirements. The projected schedule is to construct the production well in 2019, with overall project completion in 2020.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with and "X". If you have already sent your document to the agency please denote that with an "S".

| Air Resources Board | Office of Historic Preservation |
|---|---|
| Boating & Waterways, Department of | Office of Public School Construction |
| California Emergency Management Agency | Parks & Recreation, Department of |
| California Highway Patrol | Pesticide Regulation, Department of |
| Caltrans District # | Public Utilities Commission |
| Caltrans Division of Aeronautics | Regional WQCB # |
| Caltrans Planning | Resources Agency |
| Central Valley Flood Protection Board | Resources Recycling and Recovery, Department of |
| Coachella Valley Mtns. Conservancy | S.F. Bay Conservation & Development Comm. |
| Coastal Commission | San Gabriel & Lower L.A. Rivers & Mtns. Conservancy |
| Colorado River Board | San Joaquin River Conservancy |
| Conservation, Department of | Santa Monica Mtns. Conservancy |
| Corrections, Department of | State Lands Commission |
| Delta Protection Commission | SWRCB: Clean Water Grants |
| Education, Department of | SWRCB: Water Quality |
| Energy Commission | SWRCB: Water Rights |
| Fish & Game Region # | Tahoe Regional Planning Agency |
| Food & Agriculture, Department of | Toxic Substances Control, Department of |
| Forestry and Fire Protection, Department of | Water Resources, Department of |
| General Services, Department of | |
| Health Services, Department of | Other: |
| Housing & Community Development | Other: |
| Native American Heritage Commission | |
| | |
| Local Public Review Period (to be filled in by lead agency) | |
| JULY 17, 2019 | August 15, 2019 |
| Starting Date June 10, 2019 | Ending Date July 10, 2019 |
| | |
| | |
| Lead Agency (Complete if applicable): | |
| Consulting Firm: Wood Rodgers, Inc. | Applicant: |
| Address: 3301 C St Suite 100b | Address: |
| City/State/Zip: Sacramento, CA 95816 | City/State/Zip: |
| Contact: Jeffrey Lodge, P.E. | Phone: |
| Phone: (916) 341-/421 | |
| | |
| Signature of Lead Agency Representative: | 9 AD Date: 6.5, 19 |
| | 44 |

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

Appendix G

PO Box 3044 Sacramento, CA 95812- 3044

June 3, 2019

State of California Office of Planning and Research 1400 Tenth Street, Room 222

Note: For regular mail use PO Box, for Federal Express delivery use the street address and 95814 as the zip code for the street address.

NOTICE OF INTENT TO ADOPT A NEGATIVE DECLARATION

Project Title: Parkwood MD 19 A&B Water System Improvements Project Location: South of Avenue 13 between South Madera Avenue and Raymond Thomas Street adjacent to the City of Madera, Madera County, California Lead Agency: Madera County Public Works County: Madera

In accordance with the California Environmental Quality Act (CEQA) (Public Resources Code §21000 et seq.), the CEQA Guidelines (Title 14 Code of Regulations Section 15000 et seq.), an Initial Study for the above-named project was prepared that identifies and evaluates the environmental impacts of the project.

Project Description

Based on the data gathered during the exploratory drilling program completed in 2018, Wood Rodgers designed Well 4A to target the aquifers between 460 and 540 feet. The estimated design capacity for a well constructed at this site is 1,000 gpm. The recommended well design for the Production Well 4A Site targets the intermediate Older Alluvium Aquifers. Data from each test well completion suggests that the water produced from the proposed Production Well 4A, as designed, should meet all DDW drinking water quality standards.

Environmental Review and Comment

A Negative Declaration has been deemed appropriate for this project and this letter is intended to serve as the Negative Declaration for this project. This proposed Negative Declaration is being circulated for public review and comment. The Initial Study, the proposed Negative Declaration is available for public review at this address below and are on file at the County of Madera, Public Works 200 W. 4th Street, 3rd Floor, Madera, CA 93637, and will be posted here https://www.maderacounty.com/government/public-works/quick-links/special-districts-bulletin. Tu/y 17, 2019 August 15, 2019

We expect the State & public review period will extend from approximately June 10, 2019 through July 10, 2019.

The proposed Negative Declaration along with any comments will be considered by the Madera County Public Works in conjunction with consideration of the project for approval. The Negative Declaration will become Final if adopted by the Madera County Public Works Board.

Signature Ahmed Alk Hayya f Print Name Public Works Directa Title

- cc: 1) State Clearinghouse/Office of Planning and Research: NOI and 15 copies of Draft Initial Study. These 15 copies are distributed by the State Clearinghouse to Responsible and Trustee Agencies, along with other reviewing State agencies.
 - 2) Local agencies: City/County

(Note: Madera County files with OPR directly, copies to Counties are for their information, not for the County Clerk to file with OPR)

3) Interested Public: NOI and Draft Initial Study to people who have requested such notice (attach distribution list). In addition to public notification via newspaper, posting or direct mail to owners and occupants of adjacent property.

Appendix H

Environmental Information Form (To be completed by applicant)

Date Filed July 17, 2019

GENERAL INFORMATION 1. Name and address of developer or project sponsor: <u>County of Madera</u> <u>Public Work Department</u> 200 W. 4th Street, 3rd Floor, Madera, CA 93637

2. Address of project: Assessor's Block and Lot Number APN 047-364-011

3. Name, address, and telephone number of person(s) to be contacted concerning this project:

Ahmad Alkhayyat, Public Works Director 200 W. 4th Street, 3rd Floor Madera, CA 93637 (559) 675-7811

4. Indicate number of the permit application for the project to which this form pertains: DDW Permit No.: 03-11-17P-024

5. List and describe any other related permits and other public approvals required for this project, including those required by city, regional, state and federal agencies:

| Entity | Permit Required |
|-------------------|---|
| Madera County | Encroachment Permit |
| Madera County | Grading Permit |
| Madera County | Erosion Control Permit |
| Madera County | Stormwater Pollution Preventions Plan |
| EPA | National Pollutant Discharge Elimination System |
| | Compliance |
| San Joaquin Air | Emergency Diesel Generator - Authority to Construct |
| Pollution Control | Emergency Diesel Generator - Permit to Operate |
| District | |

6. Existing zoning district: Public Open Space (POS)

7. Proposed use of (<u>a portion of the</u>) site (Project for which this form is filed): <u>drinking</u> water well

Are the following items applicable to the project or its effects? Discuss below all items checked yes (attach additional sheets as necessary).

YES NO

<u>N</u> 21. Change in existing features of any bays, tidelands, beaches, lakes or hills, or substantial alteration of ground contours.

<u>N</u> 22. Change in scenic views or vistas from existing residential areas or public lands or roads.

<u>N</u> 23. Change in pattern, scale or character of general area of project.

<u>N</u> 24. Significant amounts of solid waste or litter.

<u>N</u> 25. Change in dust, ash, smoke, fumes or odors in vicinity.

<u>N</u> 26. Change in ocean, bay, lake, stream or ground water quality or quantity, or alteration of existing drainage patterns.

N 27. Substantial change in existing noise or vibration levels in the vicinity.

N 28. Site on filled land or on slope of 10 percent or more.

<u>N</u> 29. Use of disposal of potentially hazardous materials, such as toxic substances, flammables or explosives.

<u>N</u> 30. Substantial change in demand for municipal services (police, fire, water, sewage, etc.).

<u>N</u> 31. Substantially increase fossil fuel consumption (electricity, oil, natural gas, etc.).

N 32. Relationship to a larger project or series of projects.

ENVIRONMENTAL SETTING

33. Describe the project site as it exists before the project, including information on topography, soil stability, plants and animals, and any cultural, historical or scenic aspects. Describe any existing structures on the site, and the use of the structures. Attach photographs of the site. Snapshots or polaroid photos will be accepted.

South of East Pecan Avenue (Avenue 13) between South Madera Avenue (Road 27) and Raymond Thomas Street adjacent to the City of Madera, Madera County, CA

General Plan Description:Medium Density Residential (MDR)Zoning:Public Open Space (POS)

The existing well site and facilities are located within Parkwood Park, a fully developed neighborhood park. The existing Madera County Public Works facilities are contained within a fenced area to restrict public access and maintain a high level of public safety. Parkwood Park is surrounded by fully developed medium density residential lots.

Existing structures include: The existing facilities onsite include an abandoned well with the discharge pipe disconnected and pump/motor removed, hydropneumatics tank, piping, meter, valves, 250,000 gallon water storage tank and a three pump skid mounted booster pump station. All facilities with the exception of the tank are fenced with a 6 foot chain link fence with slats on north, east and west sides to obstruct visibility.

34. Describe the surrounding properties, including information on plants and animals and any cultural, historical or scenic aspects. Indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartment houses, shops, department stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.). Attach photographs of the vicinity. Snapshots or polaroid photos will be accepted.

The surrounding area is a fully developed single family residential subdivision, and the immediate vicinity is a County Park – Parkwood Park.

Based on the results of a Class I Archival Review for the Proposed Project, no previously recorded cultural or historical sites lie within the project area. And based on the existing level of development within the project area, and it is unlikely that intact cultural resources would be inadvertently discovered during development of the proposed project.

Please see attached CEQA Initial Study/Negative Declaration for more detailed information.

CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date 6.5.2019

Signature For

Note: Authority cited: Sections 21083 and 21087, Public Resources Code. Reference: Sections 21000-21176, Public Resources Code.

REVSIED INITIAL STUDY/NEGATIVE DECLARATION FOR PARKWOOD CMD 19A&B WATER SYSTEM IMPROVEMENTS

PREPARED FOR: MADERA COUNTY PUBLIC WORKS

PREPARED BY:



JULY 2019

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Figure 1. Existing Conditions and Proposed Well 4A Location

Appendices

- 1. Proposed Project Site Photographs
- 2. 60% Progress Design Plan Set
- 3. California Natural Diversity Database Query Results, USFWS Species List, California Water Board Biological Report
- 4. Class 1 Archival Review Report and AB 32 Consultation Letters

MADERA COUNTY PUBLIC WORKS REVSIED PROPOSED INITIAL STUDY/NEGATIVE DECLARATION

| Project Title: | Parkwood CMD 19A&B Water System Improvements | | | |
|-------------------------------------|--|--|--|--|
| Lead Agency Name and Address: | Madera County Public Works 200 W. 4th Street, 3rd Floor Madera, CA 93637 | | | |
| Lead Agency Contact: | Ahmad Alkhayyat Public Works Director (559) 675-7811 | | | |
| Project Location: | South of Avenue 13 ½ between Madera Ave. and Raymond Thomas Street adjacent to the City of Madera, Madera County, CA | | | |
| Project Sponsor's Name and Address: | Madera County Public Works 200 W. 4th Street, 3rd Floor Madera, CA 93637 | | | |
| Assessor's Parcel Number: | 047-364-011 | | | |
| General Plan Designation: | Medium Density Residential (MDR) | | | |
| Zoning: | Public Open Space (POS) | | | |

PROJECT DESCRIPTION

The Parkwood CMD (County Maintenance District) 19 A&B Parkwood Water System (Proposed Project) proposes to construct and operate one municipal production well to supplement existing supplies in the northern portion of its service area, within Madera County. The project site consists of one existing and one offline well and its associated features.

This project would involve of above grade and below grade infrastructure improvements designed to bring online a new production well to replace an existing, offline well on the same parcel. The final product will be a groundwater well capable of producing approximately 1,000 gallons per minute (gpm) to meet all drinking water quality requirements. The projected schedule is to construct the production well in 2019, with overall project completion in 2020.

Figure 1 provides a map of the existing conditions including test well locations and proposed new well location.

Existing Conditions

This eastern section of the parcel contains a portion of Parkwood Park, a public park maintained by Madera County with a basketball court, a playground, sidewalks and other park related amenities. The western section of the parcel is a fenced drainage area. Residential areas surround the park on each side. An existing, offline well is located on the eastern area of the parcel. This well is offline due to excessive sand production that is intended to be remedied with this project. Most parts of this existing well will be repurposed for the new production well with the exception of some associated piping, appurtenances and sand separator that will be demolished (See Drawing C-2 of 30% Design Plans). Associated items to be retained from this well include a hydropneumatic tank, an electrical panel, a booster pump station, monitoring wells and a water storage tank.

Groundwater data collection and analysis has been conducted recently in the Subbasin in preparation efforts for the Groundwater Sustainability Plan (GSP) for the Madera Subbasin (Technical Memorandum: Madera Subbasin, 2017). For this study, maps of contours of equal groundwater elevation were prepared from spring 1958 to spring 2016. Spring 2016 groundwater contours indicate that the groundwater elevations in the City of Madera ranged from 10 feet to 90 feet msl. DWR groundwater contours between spring 2011 and spring 2017 indicate the direction of groundwater flow is primarily from south to north beneath the City of Madera (DWR Groundwater Information Center Interactive Map Application).

The MD 19 well field extracts groundwater from the underlying Madera Subbasin (Subbasin) (DWR Basin No. 5-22.06). The Subbasin covers an area of 614 square miles and is located entirely within Madera County. It is bound on the south by the San Joaquin River, on the west by the eastern boundary of the Columbia Canal Service Area, the north by the south boundary of the Chowchilla subbasin, and on the east by the crystalline basement bedrock of the Sierra Nevada foothills. Major streams in the area include the San Joaquin and Fresno Rivers and help promote recharge in the subbasin.

A hydrogeological investigation report was prepared by Wood Rodgers in April 2018. This report was used to design the site-specific exploratory drilling program. Based upon information within the report, Wood Rodgers designed an exploratory drilling and test well construction program to assess quality of the aquifers underlying the site to a depth of 600 feet.

Wood Rodgers contracted with Bradley and Sons Drilling (Bradley) of Del Rey, California, to conduct the exploratory drilling and construction of a multiple-completion test well at the site. Beginning on September 18, 2018, Bradley drilled an 8 ³/₄-inch borehole to a total depth of 600 feet, using the direct rotary drilling method. The test hole was geophysically logged on September 19, 2018 by Pacific Surveys, LLC of Claremont, California. The response of the geophysical surveys and the drill cutting samples suggested the best permeable aguifers were located between 460 to 540 feet below ground surface (bgs). Wood Rodgers provided Bradley with a nested triple completion test well design to assess the aguifer intervals, from 460 to 470 feet bgs (TW-475), 493 to 503 feet bgs (TW-508), and 530 to 540 feet bgs (TW-545). Each test well completion is identified by the total casing depth. Prior to the installation of the PVC casing, the borehole was reamed to 12 ¼-inch diameter to a depth of 520 feet bos and a wiper pass was made with the 8 ³/₄-inch diameter bit to clean the borehole to a depth of 575 feet bgs. Following construction of the nested test well, it was determined that the shallow completion (TW-475) had failed, requiring a replacement. Bradley re-mobilized 10-feet south of the original test well and drilled an 8 ³/₄-inch diameter borehole to a depth of 485 feet bos. On October 22. 2018, the replacement TW-475 was successfully constructed.

Above Grade Infrastructure Design

The design includes a 5-foot square concrete well pedestal, sole plate, base plate, discharge head, pump, motor, 360 feet of column pipe, and extension of the 3-inch gravel fill tube, and 2-inch sounding tubes. The discharge head will be connected to a restrained flanged coupling adapter which connects the discharge head to the discharge piping then a 3 ft. 9-inch spool piece which has a pressure switch (or transmitter) and pressure gage and air vacuum/air release valve connections. The spool piece is supported by a pipe support and connects to an 8-inch x 4-inch x 8-inch tee for pump to waste. The pump to waste 8-inch x 4-inch tee consists of the 8-inch flow thru dimension and a 4-inch connection for the pump to waste. The 4-inch pump to waste tee connects to an 8-inch swing check valve, and a 4-inch blind flange. The 8-inch flow-thru end connects to an 8-inch swing check valve, 8-inch dismantling joint and then to a 1 ft. 6-inch pipe spool supported by a pipe support.

The pipe spool connects to a manually operated 8-inch gate valve which is attached to an 8inch 90-degree elbow and then a 4 ft. – 9-inch pipe that goes below the 6-inch concrete base slab about 2 feet below the 90-degree elbow. The 4 ft. – 9-inch pipe spool connects to a 8-inch 90 degree mechanical joint elbow which starts the pipeline consisting of; 13 feet of pipe, a 90 degree elbow, 36 feet of pipe, a 90 degree elbow, 68 feet of pipe, a 45 degree elbow, 67 feet of pipe, a 45 degree elbow, 5 feet of pipe, a 90 degree elbow, 5 feet of pipe, a 90 degree elbow, a gate valve, 5 feet of pipe (pipe supported), an 8-inch dismantling joint, a flow meter, 3 feet of pipe (pipe supported) and connection to the existing Well 4A hydro pneumatic tank piping inlet butterfly valve.

In addition to the mechanical piping already identified, this project will have a 6-inch thick reinforced concrete slab on grade 20 feet long by 12 feet wide. The concrete slab on grade will have a footing and the area will be fenced with removable posts for well rehabilitation. Electrical conduits will be installed from the new pump/motor location back to the previous well pump and motor location where the original power conduits are located. The new pump and motor will have a Sound Attenuation Hood installed on it to dampen the noise to levels in compliance with the local noise ordinance. The pump will be a vertical turbine deep well pump equipped with a premium efficiency 1800 rpm vertical hollow shaft 150 hp motor. Some limited site grading will occur for the 20-foot long and 12-foot wide area for the concrete slab on grade. Additional site components include low pedestal LED lighting for the facility.

Additional improvements include two connections to the existing City of Madera water distribution system, upsizing of one section of pipe and looping of pipe in the southern end of the service area. One intertie connection will consist of trenching in the existing street at Pecan Avenue and Watt Street, cutting pipe, installing a 8"x8"x12" tee and an 8" valve. The other intertie includes trenching in the existing street at Georgia Avenue and Raymond Thomas Street, cutting of pipe, installing an 8"x8"x8" tee and an 8" valve. The replacement work includes trenching of the existing 6-inch pipeline at Georgia Avenue and Raymond Thomas Street to Raymond Thomas Place, removal of an existing 90 degree fitting, installation of a 6"x6"x8"x8" cross, removal of 300 feet of 6-inch pipe and replacement with 8-inch pipe in Raymond Thomas Street. Installation of a 8"x8"x6" tee to connect to the existing 150 feet of 6-inch pipe in Raymond Thomas Street and to the 250 feet of replacement 8" pipe in Raymond Thomas Place. Looping of pipe in the southern end includes adding 2,200 feet of 8" pipe connecting at Georgia Avenue and Watt Street routing pipe south to the end of lot and then west to Conrad Street, then north to the termination of 8" pipe in Conrad Street. This work will include trenching in Georgia Avenue and Watt Street, installation of a 6"x6"x8"x8" tee to begin the 8" pipeline.

The project will also involve installation of a total of 506 water meters in the Maintenance District 19AB Parkwood service area. The installation of the meters will include locating each service, valving off the service, cutting of the asphalt paving and excavation of the service line, establishing a location for the meter, excavation for the meter and meter box, cutting of the service pipe, disinfection of the piping and meter and installation of the meter and meter box with connection to the service pipe. With installation of the meter and meter box, the contractor will then backfill each excavation and repave in the roadways where necessary. The number and sizes of the meters are as follows:

- ¾-inch water meters to include meters, meter box and lid (495 total)
- 1-inch water meters to include meters, meter box and lid (2 total)
- 1-1/2 inch water meters to include meters, meter box and lid (2 total)
- 2-inch water meter to include meters, meter box and lid (7 total)

Below Grade Infrastructure Design

The design includes a 32-inch diameter mild steel conductor casing grouted in place to a depth of 50 feet below ground surface (bgs). The conductor casing will serve to stabilize the upper formations during borehole drilling, and also to provide the DDW required sanitary seal. Inside the conductor casing, a 28-inch diameter borehole extends to a depth of 570 feet bgs. The well structure includes a 16-inch outside diameter mild steel well casing to a depth of 300 feet and transitions into a stainless-steel well casing and louvered well screen assembly. The design consists of a 10-foot sump, 40 feet of well screen, and 510 feet (excluding the stick-up above ground surface) of blank well casing, extending to a depth of 550 feet bgs.

To accommodate for the potential of future inelastic land subsidence in the area, it was determined to add additional protection of the well structure. A fully extended compression section is included from 380 to 400 feet to accommodate for any potential subsidence. The screen section has been designed to be "Ful-Flo" louvered well screen, with a slot size of 0.055 inches to provide the acceptable inlet velocities, suitable open area, and retention of the selected gravel envelope material. A 3-inch diameter steel gravel fill pipe extends to a depth of 327 feet bgs and a 2-inch diameter stainless steel sounding pipe will extend to and enter the well casing at a depth of 378 feet bgs. The annular space will be filled with 8x16 graded gravel

from the bottom of the borehole to 312 feet bgs. A two-foot fine sand transition seal will be placed on top of the gravel envelope from 312 feet to 310 feet bgs, with a sand/cement grout annular seal from 310 feet bgs to ground surface.

FINDINGS

An Initial Study (IS) has been prepared to describe and assess the significance of potential environmental impacts of the Proposed Project, and to propose mitigation for any significant impacts. Based on the results of the IS, it has been determined that the Proposed Project would not have significant impacts on the environment. This conclusion is supported by the following findings:

- 1. The Proposed Project would have no impacts on: agriculture, biological resources, cultural resources, mineral resources, geology and soils, land use planning, mineral resources, population and housing, public services, recreation, transportation and traffic, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, and utilities and service systems.
- 2. The Proposed Project would have less-than-significant impacts on: aesthetic resources, air quality, and noise.
- 3. The Proposed Project would have no significant impacts.

The Applicant has included a number of measures in the Proposed Project to avoid or minimize potential impacts.

Questions or comments regarding this IS/MND may be addressed to:

Ahmad Alkhayyat, Public Works Director Madera County Public Works 200 W. 4th Street, 3rd Floor Madera, CA 93637 (559) 675-7811

INITIAL STUDY

1. PROJECT DESCRIPTION

1.1 INTRODUCTION AND REGULATORY GUIDANCE

This Initial Study/ Negative Declaration (IS/MND) has been prepared by Madera County Public Works (MCPW) to evaluate the potential environmental effects of the Parkwood CMD 19 A&B Parkwood Water System Improvements (Proposed Project), located in Madera County. This document has been prepared in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) and the State CEQA Guidelines (California Code of Regulations [CCR] Section 15000 et seq.).

An initial study is prepared by a lead agency to determine if a project may have a significant effect on the environment (State CEQA Guidelines Section 15063[a]), and thus to determine the appropriate environmental document to be prepared. In accordance with State CEQA Guidelines Section 15070, a "public agency shall prepare a proposed negative declaration or mitigated negative declaration when: (a) The initial study shows that there is no substantial evidence...that the project may have a significant impact on the environment, or (b) The initial study identifies potentially significant effects but revisions to the project plans or proposal are agreed to by the applicant and such revisions would reduce potentially significant effects to a less-than-significant level." In those circumstances, the lead agency should prepare a written statement describing its reasons for concluding that the proposed project would not have a significant effect on the environment and, therefore, does not require the preparation of an Environmental Impact Report (EIR). This IS/ND has been prepared to fulfill these requirements as well as the content requirements of State CEQA Guidelines Section 15071.

1.2 PROJECT BACKGROUND

The County of Madera (County) Maintenance District No. 19A and 19B Parkwood (MD 19) relies solely on groundwater to meet its potable water supply demands. The MD 19 Water System has a total of 495 existing connections and is supplied by one well with a reported production of 400 gallons per minute (gpm). The MD 19 water system also includes one booster pump station, one emergency intertie with the City of Madera, and one 250,000-gallon storage tank.

The potable water supply demands at MD 19 are met through one active well (Well 3), with the remaining wells (Wells 1, 2 and 4) inactive and disconnected from the distribution system (Figure 1.). In 2014, declining water levels due to consecutive years of drought resulted in a failure of Well 3, requiring the emergency construction of an intertie to the City of Madera water system to provide potable water supply during well rehabilitation. Rehabilitation successfully returned Well 3 to its full pumping capacity; however, concentrations of manganese in the MD 19 Water System are currently near or exceed the State of California Water Resources Control Board– Division of Drinking Water (DDW) secondary (aesthetic) water quality standard of 50 micrograms per liter (μ g/L).

1.3 PROJECT PURPOSE

The project goals include the development of a new municipal supply well that meets State and Federal Drinking Water Regulations, protects the groundwater resource, provides 1,000 gallons per minute (gpm) capacity, and provides a well structure with a service life of approximately 75 years. In conjunction with our hydrogeologic investigation, Wood Rodgers reviewed construction

data from the City of Madera (City) Well 33 to better understand design principles previously utilized. Production Well 4A has been designed to take into account similar design criteria as the existing City wells, such as well casing diameter, screen type, sanitary seal depth, and selected aquifer zones.

1.4 PROJECT LOCATION AND SETTING

The Proposed Project is located within Madera County, near the city limits of Madera. The proposed production well site is located within Parkwood Park, south of East Pecan Avenue (Avenue 13) between South Madera Avenue (Road 27) and Raymond Thomas Street adjacent to the City of Madera, Madera County, CA. The well site is located on APN 047-364-011, owned by Madera County. Topography within the MD 19 is generally flat, with the ground surface sloping from northeast to southwest with approximate elevations of 270 feet above mean sea level (msl) to 260 feet msl.

The MD 19 Water System has a total of 495 existing connections and is supplied by one well with a reported production of 400 gallons per minute (gpm). The MD 19 water system also includes one booster pump station, one emergency intertie with the City of Madera, and one 250,000-gallon storage tank. The Proposed Project can be easily accessed during construction and operation, and is in close proximity to required infrastructure, such as existing storm drains, sanitary sewers, a water source to assist the drilling process, and power.

Please refer to Proposed Project Site Photographs contained in Appendix 1.

1.5 PROJECT DESCRIPTION

Based on the data gathered during the exploratory drilling program completed in 2018, Wood Rodgers designed Well 4A to target the aquifers between 460 and feet. The estimated design capacity for a well constructed at this site is 1,000 gpm. The recommended well design for the Production Well 4A Site targets the intermediate Older Alluvium Aquifers. Data from each test well completion suggests that the water produced from the proposed Production Well 4A, as designed, should meet all DDW drinking water quality standards.

Figure 1 provides a map of the existing conditions including test well locations and proposed new well location.

Exploratory Drilling and Test Wells

Wood Rodgers contracted with Bradley and Sons Drilling (Bradley) of Del Rey, California, to conduct the exploratory drilling and construction of a multiple-completion test well at the site. Beginning on September 18, 2018, Bradley drilled an 8 ³/₄-inch borehole to a total depth of 600 feet, using the direct rotary drilling method. The test hole was geophysically logged on September 19, 2018 by Pacific Surveys, LLC of Claremont, California. The response of the geophysical surveys and the drill cutting samples suggested the best permeable aquifers were located between 460 to 540 feet below ground surface (bgs).

Production Well Design

Please see Appendix 2 for the 60 percent Progress Design Plans.

Above Grade Infrastructure Design

The design includes a 5-foot square concrete well pedestal, sole plate, base plate, discharge

head, pump, motor, 360 feet of column pipe, and extension of the 3-inch gravel fill tube, and 2inch sounding tubes. The discharge head will be connected to a restrained flanged coupling adapter which connects the discharge head to the discharge piping then a 3 ft. 9-inch spool piece which has a pressure switch (or transmitter) and pressure gage and air vacuum/air release valve connections. The spool piece is supported by a pipe support and connects to an 8-inch x 4-inch x 8-inch tee for pump to waste. The pump to waste 8-inch x 4-inch tee consists of the 8-inch flow thru dimension and a 4-inch connection for the pump to waste. The 4-inch pump to waste tee connects to manually operated gate valve, and a 4-inch blind flange. The 8inch flow-thru end connects to an 8-inch swing check valve, 8-inch dismantling joint and then to a 1 ft. 6-inch pipe spool supported by a pipe support.

The pipe spool connects to a manually operated 8-inch gate valve which is attached to an 8inch 90-degree elbow and then a 4 ft. – 9-inch pipe that goes below the 6-inch concrete base slab about 2 feet below the 90-degree elbow. The 4 ft. – 9-inch pipe spool connects to a 8-inch 90 degree mechanical joint elbow which starts the pipeline consisting of; 13 feet of pipe, a 90 degree elbow, 36 feet of pipe, a 90 degree elbow, 68 feet of pipe, a 45 degree elbow, 67 feet of pipe, a 45 degree elbow, 5 feet of pipe, a 90 degree elbow, 5 feet of pipe, a 90 degree elbow, a gate valve, 5 feet of pipe (pipe supported), an 8-inch dismantling joint, a flow meter, 3 feet of pipe (pipe supported) and connection to the existing Well 4A hydro pneumatic tank piping inlet butterfly valve.

In addition to the mechanical piping already identified, this project will have a 6-inch thick reinforced concrete slab on grade 20 feet long by 12 feet wide. The concrete slab on grade will have a footing and the area will be fenced with removable posts for well rehabilitation. Electrical conduits will be installed from the new pump/motor location back to the previous well pump and motor location where the original power conduits are located. The new pump and motor will have a Sound Attenuation Hood installed on it to dampen the noise to levels in compliance with the local noise ordinance. The pump will be a vertical turbine deep well pump equipped with a premium efficiency 1800 rpm vertical hollow shaft 150 hp motor. Some limited site grading will occur for the 20-foot long and 12-foot wide area for the concrete slab on grade. Additional site components include low pedestal LED lighting for the facility.

Additional improvements include two connections to the existing City of Madera water distribution system, upsizing of one section of pipe and looping of pipe in the southern end of the service area. One intertie connection will consist of trenching in the existing street at Pecan Avenue and Watt Street, cutting pipe, installing a 8"x8"x12" tee and an 8" valve. The other intertie includes trenching in the existing street at Georgia Avenue and Raymond Thomas Street, cutting of pipe, installing an 8"x8"x8" tee and an 8" valve. The replacement work includes trenching of the existing 6-inch pipeline at Georgia Avenue and Raymond Thomas Street to Raymond Thomas Place, removal of an existing 90 degree fitting, installation of a 6"x6"x8"x8" cross, removal of 300 feet of 6-inch pipe and replacement with 8-inch pipe in Raymond Thomas Street. Installation of a 8"x8"x6" tee to connect to the existing 150 feet of 6-inch pipe in Raymond Thomas Street and to the 250 feet of replacement 8" pipe in Raymond Thomas Place. Looping of pipe in the southern end includes adding 2,200 feet of 8" pipe connecting at Georgia Avenue and Watt Street routing pipe south to the end of lot and then west to Conrad Street, then north to the termination of 8" pipe in Conrad Street. This work will include trenching in Georgia Avenue and Watt Street, installation of a 6"x6"x8" x8" tee to begin the 8" pipeline.

The project will also involve installation of a total of 506 water meters in the Maintenance District 19AB Parkwood service area. The installation of the meters will include locating each service, valving off the service, cutting of the asphalt paving and excavation of the service line, establishing

a location for the meter, excavation for the meter and meter box, cutting of the service pipe, disinfection of the piping and meter and installation of the meter and meter box with connection to the service pipe. With installation of the meter and meter box, the contractor will then backfill each excavation and repave in the roadways where necessary. The number and sizes of the meters are as follows:

- ¾-inch water meters to include meters, meter box and lid (495 total)
- 1-inch water meters to include meters, meter box and lid (2 total)
- 1-1/2 inch water meters to include meters, meter box and lid (2 total)
- 2-inch water meter to include meters, meter box and lid (7 total)

Below Grade Infrastructure Design

The design includes a 32-inch diameter mild steel conductor casing grouted in place to a depth of 50 feet below ground surface (bgs). The conductor casing will serve to stabilize the upper formations during borehole drilling, and also to provide the DDW required sanitary seal. Inside the conductor casing, a 28-inch diameter borehole extends to a depth of 570 feet bgs. The well structure includes a 16-inch outside diameter mild steel well casing to a depth of 300 feet and transitions into a stainless-steel well casing and louvered well screen assembly. The design consists of a 10-foot sump, 40 feet of well screen, and 510 feet (excluding the stick-up above ground surface) of blank well casing, extending to a depth of 550 feet bgs.

To accommodate for the potential of future inelastic land subsidence in the area, it was determined to add additional protection of the well structure. A fully extended compression section is included from 380 to 400 feet to accommodate for any potential subsidence. The screen section has been designed to be "Ful-Flo" louvered well screen, with a slot size of 0.055 inches to provide the acceptable inlet velocities, suitable open area, and retention of the selected gravel envelope material. A 3-inch diameter steel gravel fill pipe extends to a depth of 327 feet bgs and a 2-inch diameter stainless steel sounding pipe will extend to and enter the well casing at a depth of 378 feet bgs. The annular space will be filled with 8x16 graded gravel from the bottom of the borehole to 312 feet bgs. A two-foot fine sand transition seal will be placed on top of the gravel envelope from 312 feet to 310 feet bgs, with a sand/cement grout annular seal from 310 feet bgs to ground surface.



Figure 1. Existing Conditions and Proposed Well Location

1.6 MEASURES INCLUDED IN THE PROPOSED PROJECT TO MINIMIZE IMPACTS

The Parkwood CMD (County Maintenance District) 19&B Water System Improvements site is located in an area that has existing facilities and will be constructed near the existing onsite pumping station within a county park.

Aesthetics

• There is potential that two trees would be removed to facilitate construction of the proposed project (Appendix 2, Sheet C-3). These trees will be replaced in the vicinity of the trees that will be removed with tree specimens of the same species and a minimum of one-half the existing tree's caliper. Madera County Parks Department will determine where the replacement trees would be planted. Due to the location of this well within a park, measures will be taken to mitigate disturbance to park activities. The existing adjacent basketball court will be protected during construction of the well. Most of the construction activities will only occur during daylight hours to minimize the potential of contributing to light pollution. A small portion of the well construction will require 24-hour activities. During this portion of the construction, mitigative measure will be taken to limit both light pollution and noise from construction related activities.

Biological Resources

 Based on current 60 percent Progress Design Plans, two trees would be removed to facilitate construction of the proposed project (Appendix 2, Sheet C-3). If tree removal will coincide with the Migratory Bird Nesting Season, the required survey protocol will be implemented in compliance with the Migratory Bird Treaty Act to avoid all impact to nesting migratory birds.

Air Quality

Because the construction of the Proposed Project has the potential to create fugitive dust, Madera County Public Works will require the construction contractor to implement the following measures:

- Water all exposed surface two times daily, or as required to eliminate fugitive dust.
- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.
- Keep the street clean and free of loose soil. Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads as least once per day. Use of dry power sweeping is prohibited.
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrance to the site.

Cultural Resources

 If previously unidentified cultural resources are encountered during earth-moving activities, construction activities in their vicinity will be halted immediately and the appropriate authorities notified. Authorities should include the County Coroner if suspected human remains are discovered and a qualified archaeologist if prehistoric or historic-period artifacts are found.

<u>Energy</u>

• Although the well itself will have limited energy consumption, an emergency generator for the facility will be provided. This generator will be diesel powered and located at the northeast extent of the project area immediately adjacent to existing facilities (Figure 2).

Hydrology and Water Quality

- To minimize the introduction of sediment to the storm water system during construction, Madera County Public Works will implement standard erosion management measures, including the following Madera County's storm water best management practices (BMPs):
- The use of straw waddles and/or silt fences onsite to prevent the flow of sediment off the site.
- The use of sediment traps or gravel bags at drainage inlets to prevent any sediment from entering the storm water system.
- Use of the existing stormwater detention pond for construction wastewater. The Madera County Public Works will comply with the conditions of the State Water Resources Control Board, National Pollutant Discharge Elimination System, and General Construction Permit.

Geology and Soils

- Permanent erosion control measures and BMPs will be implemented during and after construction.
- The Madera County Public Works will comply with the conditions of the State Water Resources Control Board, National Pollutant Discharge Elimination System, and General Construction Permit. Given the extent of proposed disturbance is less than 1 acre, the project will not require preparation of a Storm Water Pollution Prevention Plan (SWPPP) for the project site.
- Geotechnical information will be collected prior to the construction of the proposed pump pedestal and pad. The recommendations from the geotechnical investigation will be incorporated into the design to rectify any soil characteristics adverse to the stability of the facilities.

<u>Noise</u>

Because of the proximity of the well site several sensitive noise receptors (park, single family residential), and because the well drilling portion of construction could operate twenty-four hours a day for multiple days over a 4–week construction period, Madera County Public Works will implement the following measures to minimize noise effects:

- During the well drilling and construction portion of the project, equipment will be required to be rated for residential area use. Night time activities will be limited to only time sensitive and critical tasks that require 24-hour per day operations.
- A key design component to eliminate operational noise at the site includes use of the existing submersible pump and motor for the well surrounded by a concrete pedestal and pad.
- During the construction of the well, Madera County Public Works will work with the Madera County General Services Division to ensure that the construction schedule takes into consideration previously scheduled park events.
- The emergency generator will be equipped with standard noise attention equipment.

Recreation:

• Although the site is located within a public park, the well site is fully fenced not allowing public access. Construction activities will be fully contained in the fenced area of the parcel and will not impact activities at the park; however, strict safety measures will be adhered to during construction at this site and Madera County Public Works will work closely with the events calendar for Parkwood Park to minimize impacts to the public's park experience.

Transportation:

Madera County Public Works will prepare a transportation management plan to maintain the safe operation of all vehicle modes along San Bruno Avenue, Watt Street and Georgia Avenue during the period of construction of the well. This plan will contain the following provisions:

- Avoid blocking traffic on all roads and intersections
- Allow for continuous pedestrian traffic along Watt Street, San Bruno and Georgia Avenue.

2. LEAD, RESPONSIBLE AND TRUSTEE AGENCIES

Madera County Public Works is the lead agency under the California Environmental Quality Act (CEQA) with primary authority for project approval.

3. CONTACT PERSON

Ahmad Alkhayyat, Public Works Director (559) 675-7811

4. **PROJECT LOCATION**

South of Avenue 13 1/2 between Madera Avenue and Raymond Thomas Street adjacent to the City of Madera, Madera County, CA

General Plan Description:Medium Density Residential (MDR)Zoning:Public Open Space (POS)

5. SURROUNDING LAND USES AND SETTING

The existing well site and facilities are located within Parkwood Park, a fully developed neighborhood park. The existing Madera County Public Works facilities are contained within a fenced area to restrict public access and maintain a high level of public safety. Parkwood Park is surrounded by fully developed medium density residential lots.

6. **PROJECT SCHEDULE**

The project is scheduled to be constructed in 2019, with overall project completion in 2020.

7. OTHER PUBLIC AGENCY APPROVALS REQUIRED

The following responsible and trustee agencies may have jurisdiction over some or all of the elements of the proposed project:

| Entity | Permit Required |
|---------------------------|--|
| Madera County | Encroachment Permit |
| Madera County | Grading Permit |
| Madera County | Erosion Control Permit |
| Madera County | Stormwater Pollution Preventions Plan |
| EPA | National Pollutant Discharge Elimination System Compliance |
| San Joaquin Air Pollution | Emergency Diesel Generator - Authority to Construct |
| Control District | Emergency Diesel Generator - Permit to Operate |

8. PUBLIC INVOLVEMENT

This Initial Study is available for a public review period beginning on May 23, 2019 and ending on June 23, 2019. The CEQ document is available for review at the address below, and at https://www.maderacounty.com/government/public-works/quick-links/special-districts-bulletin.

Written comments may be submitted by 3:00 p.m. on June 20, 2019 to:

Madera County, Public Works Department Municipal Services Division 200 West 4th Street, 3rd Floor Madera, California 93637

Comments may also be provided at a public hearing at which the project will be considered for approval. This hearing is scheduled for 10:00 a.m. on July 9, 2019 at the MCPW headquarters at 200 West 4th Street, 3rd Floor, Madera, California 93637.

9. NATIVE AMERICAN CONSULTATION

Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? *Yes, please see Appendix 4.*

If yes, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.? *Yes, please see Appendix 4.*

10. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project. Please see the checklist beginning on page 17 for additional information.

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

11. DETERMINATION:

| \boxtimes | I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared. |
|-------------|--|
| | 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 by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared. |
| | I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required. |
| | I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed. |
| | I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier 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. |

Lestie M. Burside

July 15, 2019

Leslie Burnside, Associate Wood Rodgers, Inc.

Ahmad Alkhayyat

Public Works Director

Date

Date

12. CEQA Environmental Checklist

This checklist identifies physical, biological, social and economic factors that might be affected by the proposed project. In many cases, background studies performed in connection with the projects indicate no impacts. A NO IMPACT answer in the last column reflects this determination. Where there is a need for clarifying discussion, the discussion is included either following the applicable section of the checklist or is within the body of the environmental document itself. The words "significant" and "significance" used throughout the following checklist are related to CEQA, not NEPA, impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

A. AESTHETICS

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

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| a) Have a substantial adverse effect on a scenic vista? | | | | \boxtimes |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | | | \boxtimes | |
| 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 a 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? | | | | |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | | | | \boxtimes |

Environmental Setting

The Madera MD 19 Å/B Parkwood Well site is located within a public park, adjacent to a residential area. The project area is zoned Public Open Space (POS). There is an existing steel fence that separates the well site from the adjacent property on all sides. This fence would remain and would be extended to enclose the emergency diesel generator. A second smaller (588 SF) fenced area would be erected on the west side of the basketball court to house the proposed well and appurtenances.

Impact Assessment

a). No Impact The Proposed Project site is not located in an area with special scenic values. The proposed well would be constructed to be visually consistent with the existing well site located on the site.

b). Less Than Significant Project construction and operation at the Proposed Project site would not damage scenic resources, as there are none on or near the site. The proposed project will require the removal two trees. These trees will be replaced with trees of the same species, a

minimum of $\frac{1}{2}$ the caliper of the existing trees, and in the vicinity of the tree to be removed.

c). No Impact The Proposed Project would not substantially degrade the visual quality of the site. An existing, offline well is located at the site within an existing fenced area and this project is serving as a replacement well. Although the replacement well will not be located in the same location as the previous well, the proposed well facilities will be housed similar to the existing well site and in close proximity.

d.) No Impact The proposed project includes low pedestal LED lighting for the facility that is the same as the existing lighting.

B. AGRICULTURE AND FOREST RESOURCES

In determining whether 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 the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| 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? | | | | \boxtimes |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? | | | | \boxtimes |
| 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))? | | | | \boxtimes |
| d) Result in the loss of forest land or conversion of forest land to non-forest use? | | | | \boxtimes |
| 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? | | | | \boxtimes |

Environmental Setting

The site is located within an already-developed residential area and does not contain lands currently in agricultural production.

Impact Assessment

a). No Impact The site would not convert agricultural land to non-agricultural uses.

b). No Impact The site is not zoned for agricultural use or under a Williamson Act contract.

c). No Impact There is no forest land on the proposed well site.

d). No Impact There is no forest land on the proposed well site.

e). No Impact No conversion of agricultural land to non-agricultural uses would occur at the site nor would project activities have any effects on other agricultural lands.

C. 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 | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| a) Conflict with or obstruct implementation of the applicable air quality plan? | | | | \boxtimes |
| 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? | | | | \boxtimes |
| c) Expose sensitive receptors to substantial pollutant concentrations? | | | | \boxtimes |
| d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | | | | \boxtimes |

Environmental Setting

Air Quality Elements are one of the major elements which may be included within a General Plan Document for a city or county. Within the San Joaquin Valley Air Basin (Valley), Assembly Bill 170 mandates that all cities (57) and counties (8) either adopt an air quality element or amend other elements (land use, circulation, housing, conservation and open space) of its general plan in order to improve overall air quality for its jurisdiction.

The EPA recently announced that it had finalized approval of the SJVAPCD's request for redesignation to attainment of the federal PM10 standard. No official exceedances of the PM10 standard had been recorded anywhere in the San Joaquin Valley Air Basin (SJVAB) since 2003.

The SJVAB counties exceed the federal annual PM2.5 standard. The SJVAB does not exceed the federal 24 hour PM2.5 standard. The SJVAPCD PM2.5 Attainment Plan predicted attainment of this standard by 2015.

As part of its CEQA consultation procedures, Madera County lead agencies refer projects to

the SJVAPCD for review and comment on air quality impacts. Staff will continue to provide CEQA documents and supporting technical reports to the SJVAPCD for review. The County will continue to utilize the SJVAPCD's Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI) as a basis for air quality analysis requirements and for determining the significance of air quality impacts of development projects subject to CEQA.

the District recommends that the Lead Agencies apply the adopted significance thresholds when evaluating project specific impacts on air quality within the San Joaquin Valley. If the Lead Agency determines the proposed project would exceed any of the significance thresholds, then an environmental document should be prepared. However, it is recognized that the final determination of whether a project would have a significant effect on air quality is ultimately within the purview of the Lead Agency pursuant to CEQA Guidelines (CCR §15064(c)).

The District identifies thresholds that separate a project's short-term emissions from its longterm emissions. The short-term emissions are mainly related to the construction phase of a project and are recognized to be short in duration. The long-term emissions are mainly related to the activities that will occur indefinitely as a result of project operations. In addition, CEQA states that another condition that could establish a project as having a significant effect on the environment is effects that are considered "cumulatively considerable."

According to this guide, air quality impacts are considered less-than-significant if they are less than maximum tons per year of criteria and toxic pollutant emissions in the below table:

| Pollutant/Precursor | | Operational Emissions | | | |
|---------------------|---------------------------|--|--|--|--|
| | Construction Emissions | Permitted Equipment and Activities | Non-Permitted Equipment and Activities | | |
| | Emissions (tpy) | Emissions (tpy) | Emissions (tpy) | | |
| СО | 100 | 100 | 100 | | |
| NOx | 10 | 10 | 10 | | |
| ROG | 10 | 10 | 10 | | |
| SOx | 27 | 27 | 27 | | |
| PM10 | 15 | 15 | 15 | | |
| PM2.5 | 15 | 15 | 15 | | |

Air Quality Thresholds of Significance – Criteria Pollutants

The District has determined that use of District Rule 2201 (New Source Review - NSR) Offset thresholds as the District thresholds of significance for criteria pollutants under CCR §15064.7 is an appropriate and effective means of promoting consistency in significance determinations within the environmental review process and is applicable to both stationary and non-stationary emissions sources.

The District's attainment plans demonstrate that project specific emissions below the District's

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offset thresholds will have a less than significant impact on air quality. Thus, the District concludes that use of District NSR Offset thresholds as the District thresholds of significance for criteria pollutants under CCR §15064.7 is an appropriate and effective means of promoting consistency in significance determinations within the environmental review process and are applicable to both stationary and non-stationary emissions sources.

The District's permitting process typically ensures that emissions of criteria pollutants from permitted equipment and activities at stationary sources are reduced or mitigated to below the District's thresholds of significance. District implementation of New Source Review (NSR) generally ensures that there is no net increase in emissions above specified thresholds from new and modified Stationary Sources for all nonattainment pollutants and their precursors. Permitted sources emitting more than the NSR Offset Thresholds for any criteria pollutant must, in general, offset all emission increases in excess of the thresholds. However, under certain circumstances, the District may be precluded by state law or other District rule requirements from requiring a stationary source to offset emissions increases.

As stated previously in Section 7 Other Public Agency Approvals Required, the proposed emergency diesel generator will require Authority to Construct and a Permit to Operate from the San Joaquin Air Pollution Control District. Therefore, the District's permitting process will ensures that emissions of criteria pollutants from this permitted equipment and activity at a stationary source would be reduced or mitigated to below the District's thresholds of significance.

Impact Assessment

a). No Impact. NO_X emissions during construction of the Proposed Project would generate less than the threshold of 85 pounds/day established by the SMAQMD, so the Proposed Project would not conflict or obstruct implementation of any air quality management plan. Further, as described under *Project Description*, the Proposed Project includes measures to minimize dust pollution during construction.

b). No Impact See the response to a) above.

c). No Impact Residents in the community to the west and east of the well site and at the public park site may be considered sensitive receptors, though exposure would be limited to the time they may spend outside in the vicinity of the well site during construction. Emissions will be temporary and limited to the roughly 4 weeks during which the well construction would occur, though most emissions would occur during roughly 2 weeks of well drilling.

The well drilling and construction would be approximately 16 months in duration. Because the emissions from the Proposed Project would only occur during the construction period, which is limited in time, this impact is considered less than significant.

d). No Impact The Proposed Project would not create any objectionable odors, either during the construction or operational phases of the project.

D. BIOLOGICAL RESOURCES

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | 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 Wildlife, U.S. Fish and Wildlife Service, or NOAA Fisheries? | | | | \boxtimes |
| 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 Wildlife or U.S. Fish and Wildlife Service? | | | | \boxtimes |
| 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? | | | | \boxtimes |
| 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 native wildlife nursery sites? | | | | \boxtimes |
| e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | | | | \boxtimes |
| 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? | | | | \boxtimes |

Environmental Setting

On behalf of the applicant, in March of 2019, Wood Rodgers, Inc. submitted a request to the California Natural Diversity Database (CNDD) to determine the potential for sensitive species to occur at and in the vicinity of the site (Appendix 3).

Given the existing developed condition of the Parkwood Park and the well site, Wood Rodgers has determined that it is marginal wildlife and native vegetation habitat. A large portion of the project site is hard surface surround by landscaped species. The overstory (trees and shrubs) may provide potential nesting bird habitat. Species expected to be found in this area include American crows (Corvus brachyrhynchos), acorn woodpecker (Melanerpes formicivorus), house sparrows (Passer domesticus), and California scrub-jay (Aphelocoma californica). Expected mammals include the introduced eastern fox squirrel (Sciurus niger).

The results of CNDD query indicated that 1 reptile (California tiger salamander), 1 mammal (hoary bat), 1 plant (Madera leptosiphon) and 1 insect (molestan blister beetle) have potential to occur in the vicinity of the proposed project.

No special status plants or wildlife species, or sensitive plant communities have been observed within the project area of the proposed Parkwood 19A&B Well site.

No special-status wildlife species or raptors were found at the project site. If project construction is scheduled to occur during the nesting bird season (generally January through August), nesting bird surveys will be required in accordance with the Migratory Bird Treaty Act.

Impact Assessment

a). No Impact No special-status species were identified on or near the project site, and none are likely to occur there in the near future. Therefore, the Proposed Project would not create a significant impact on any special-status species.

b). No Impact No riparian or other sensitive natural communities were identified on either project site.

c). No Impact..The proposed Well 19 A/B site is within a developed area, and does not contain any wetlands or waters of the United States.

d). No Impact No migration corridors for native or resident migratory fish or wildlife species were identified on the project site, as it is located in urbanized area.

e). No Impact No protected biological resources were identified on the project site.

f). No Impact The project site is not located within an adopted Habitat Conservation Plan or Natural Community Conservation Plan.

E. CULTURAL RESOURCES

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| a) Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5? | | | | \boxtimes |
| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | | | | |
| c) Disturb any human remains, including those interred outside of dedicated cemeteries? | | | | \boxtimes |

Environmental Setting

No cultural resources have been identified in the project site. April 26, 2019 an archival review was completed for the project area by Great Basin Consulting Group (GBCG) (Appendix 4). The Southern San Joaquin Valley Information Center (SSJVIC), California State University, Bakersfield under Permit #281 provided a record search for previous archaeological reports within the project area. The record search covered a ¹/₂ mile radius surrounding the project area parcel.

Eighteen previous inventories were conducted within the record search extent. The project parcel

and direct APE have not been inventoried. No resources are located within the project area. Of the eighteen inventories within the project vicinity, only four identified cultural resources. Two cultural resources have been recorded within the one-half mile record search boundary. Madera Canal Irrigation District (MID) Lateral 6.2 (P-20-002308/CA-MAD-002649H) bisects section 31 and extends throughout the project vicinity. The nearest lateral lie between 0.2 miles south and 0.5 miles west of the Direct APE. The Borden Chinese Cemetery is located 1.2 miles southeast of the existing well head. No constructed features are shown within Section 31, Township 11 South, Range 18 East on the 1852 General Land Office Survey Plat (GLO Plat). No properties are listed on the National Register of Historic Places, Office of Historic Preservation Historic Property Directory, or the OHP Archaeological Determinations of Eligibility, or OHP Historic Properties Directory occur in the project area.

The project area consists of an active and abandoned well field. It lies within a developed area and has been subjected to extensive surface and subsurface disturbance. No previously recorded sites lie within the well head area and it is unlikely that additional intact cultural resources. The proposed project will have no effect on known cultural resources.

If additional prehistoric or historic resources are subsequently discovered during construction, the California Department of Water Resources and California SHPO should be notified and activities in the area should cease until those resources can be evaluated. Cultural resources could consist of but are not limited to stone, bone, wood, or shell artifacts, or features including hearths, structural remains, or historic dumpsites. If historic properties are inadvertently discovered, reasonable efforts to avoid, minimize, or mitigate adverse effects to the property will be taken and the State Historic Preservation Officer (SHPO) and Indian tribes with concerns about the property, and the Advisory Council on Historic Preservation (Council) will be notified within 48 hours in compliance with 36 CFR 800.13 (b) (3).

Impact Assessment

a). *No Impact* No historic resources were identified on the project site.

b). *No Impact* The site has been disturbed by past development activities and the records search identified no archaeological resources. This project is considered to have no significant impact because the probability of finding buried archaeological artifacts is low and because MCPW has incorporated a measure in the Proposed Project that will ensure the protection of any unidentified buried archaeological remains, if any are found during construction.

c). *No Impact* No paleontological resources were identified at the Proposed Project site during test well construction and activity at the site is not likely to be extensive enough to expose paleontological resources.

d). *No Impact* The site has been disturbed by past development activities. This impact is considered less than significant because the probability of finding buried human remains is low and because MCPW has incorporated a measure in the Proposed Project that will safeguard the protection of any unidentified human remains, if any are found during construction.

F. ENERGY

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | | | | \boxtimes |
| b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | | | | |

Environmental Setting

The Sustainable Energy Roadmap (SER) is an 18-month effort that launched in January 2015, sponsored by California's Strategic Growth Council. SER brings together municipal governments, regional planning agencies, community stakeholders, and technical experts to support San Joaquin Valley communities as they pursue goals related to smart growth, transportation, land use, climate, and energy.

Through participating in SER, San Joaquin Valley cities and counties can benchmark their energy and sustainable development policies and programs, identify best practices, and pursue goals that make economic sense for their communities. The SER approach is a compelling shared services model that provides vetted, easy-to-access information, actionable resources, and tailored assistance to benefit municipalities, their residents, and local businesses.

Impact Assessment

a). No Impact The proposed project will not require a new or increased source of energy.

b). No Impact The proposed project has been designed and will be constructed in compliance with the goals of the SER.

G. GEOLOGY AND SOILS

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| 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 Zoning 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. | | | | |

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| ii) Strong seismic ground shaking? | | | | \square |
| iii) Seismic-related ground failure, including liquefaction? | | | | \square |
| iv) Landslides? | | | | \square |
| b) Result in substantial soil erosion or the loss of topsoil? | | | | \square |
| c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | | | | \boxtimes |
| 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? | | | | \boxtimes |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | | | | \boxtimes |
| f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | | | | \boxtimes |

Environmental Setting

The San Joaquin Valley (Valley) consists of geologic layers of marine sediments overlain by continental-sourced sediments (alluvium) deposited during erosion of the surrounding mountain ranges and flooding events. The alluvial deposits shed from the surrounding mountain ranges thicken towards the axis of the Valley and can reach up to 32,000 feet in thickness (DWR, 2004). The Valley extends to the Sacramento-San Joaquin Delta to the north, the Sierra Nevada Mountains to the east, the Coast Range Mountains to the west, and the Tehachapi and San Emigdio Mountains to the south.

Impact Assessment

a). *No Impact* According to the State Division of Mines and Geology (DMG), there are no active or potentially active faults of major historic significance within Madera County; as a result, the county does not lie within any Alquist-Priolo Special Studies Zone for surface faulting or fault creep. The well building will not be occupied on a regular basis. Further, the pump stations, related equipment, and buildings will be constructed in accordance with the standards contained in the Uniform Building Code. Therefore, the risk associated with seismic activity is very low. The surrounding topography would not lend the site susceptibility to landslides.

b). No Impact The production well will be housed outside and surrounded by a concrete pedestal and pad. The well construction plans will include BMPs for construction to minimize off-site migration of soil and other potential contaminants. See *Section 1.6 Measures Included in The Proposed Project To Minimize Impacts* for more information. Site topography is relatively level,
covered with grasses, and confined such that substantial soil erosion or loss of topsoil would not occur. Disturbed areas and construction materials will be covered during construction to minimize potential for offsite pollution.

The Contractors will be required to adhere to the BMP provisions, and because the site is essentially flat, the potential for erosion is considered less than significant.

c). No Impact The slope of the construction area is flat and at minimal risk of a landslide. The mountainous area of Madera County is underlain by rock and therefore not subject to liquefaction. The site soils are sufficiently stable and will not become unstable to the extent that the project would be adversely affected by on or off-site landslide, lateral spreading, subsidence, liquefaction, or hydro-collapse.

d). No Impact Geotechnical information will collected prior to the construction of the proposed pump station building. The recommendations from the geotechnical investigation will be incorporated into the design to rectify any soil characteristics adverse to the stability of the building.

e). No Impact The Proposed Project would not generate the need for septic systems or alternative wastewater disposal systems, as any wastewater from the site will be disposed of in the sanitary sewer system, access to which is available at the site.

f). No Impact There are no known unique paleontological resources, sites or unique geologic features with in the proposed project area.

H. GREENHOUSE GAS EMISSIONS

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| Caltrans, a State agency that consistently operates/implement projects within the State has used the best available information based to the extent possible on scientific and factual information, to describe, calculate, or estimate the amount of greenhouse gas emissions that may occur related to similar projects. To quote Caltrans, "It is Caltrans' determination that in the absence of statewide-adopted thresholds or GHG emissions limits, it is too speculative to make a significance determination regarding an individual project's direct and indirect impacts with respect to global climate change". All State and local agencies remain committed to implementing measures to reduce the potential effects of individual projects. Please see Section 1.6. | | | | |
| a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | | \boxtimes | | |

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | | \boxtimes | | |

Environmental Setting

Water-related project greenhouse gas emissions (GHG) are mainly caused by energy use required to pump, transport, heat, cool and treat water and wastewater (City 2011a). The greenhouse gas effect is a natural process by which some of the radiant heat from the sun is captured in the lower atmosphere of the earth, thus maintaining the temperature and making the earth habitable. The gases that help capture the heat are called greenhouse gases (GHGs). GHGs can occur naturally in the atmosphere or result from human activity. Some naturally occurring GHGs include water vapor, carbon dioxide, methane, nitrous oxide and ozone.

To assist Lead Agencies, project proponents, permit applicants, and interested parties in assessing and reducing the impacts of project specific greenhouse gas emissions (GHG) on global climate change, the San Joaquin Valley Air Pollution Control District (District) has adopted the guidance: Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA and the policy: District Policy - Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency. The guidance and policy rely on the use of performance-based standards, otherwise known as Best Performance Standards (BPS) to assess significance of project specific greenhouse gas emissions on global climate change during the environmental review process, as required by CEQA. Use of BPS is a method of streamlining the CEQA process of determining significance and is not a required emission reduction measure. Projects implementing BPS would be determined to have a less than cumulatively significant impact. Otherwise, demonstration of a 29 percent reduction in GHG emissions, from business-as-usual, is required to determine that a project would have a less than cumulatively significant impact. The guidance does not limit a lead agency's authority in establishing its own process and guidance for determining significance of project related impacts on global climate change.

Construction of the Proposed Project would generate a small amount of GHGs primarily in the form of CO. Potential GHG emissions would be associated with the drilling rig, earth moving equipment, other construction equipment, and the travel of workers to and from the site. No thresholds associated with construction of a project are currently available.

Impact Assessment

a). *Less Than Significant* Because of the short duration and small scale of the construction associated with the Proposed Project the GHG emissions would be very small and are considered less than significant. The GHG emissions associated with ongoing operation of the Proposed Project are estimated to be well under the threshold used in this analysis, so these emissions are also considered less than significant.

b). *Less Than Significant* The proposed project has been designed for construction and operation to follow the GHG reduction measures and actions identified in the Citrus Heights GHGRP. In addition, the project is of such a small scale, that its emissions would not likely

conflict with any such plan.

I. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | 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? | | | | |
| 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? | | | \boxtimes | |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | | | | |
| 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? | | | | \boxtimes |
| 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? | | | | \boxtimes |
| f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | | | | \boxtimes |
| g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? | | | | \boxtimes |

Environmental Setting

The project site is located in Madera County. According to Wood Rodgers, 2018a, there were no active or historical groundwater contamination sites identified with the MD 19 A&B service boundary.

There are no public or private airports located near the site. The site is in an urbanized area, and is not within or adjacent to areas subject to wildfires.

Impact Assessment

a). Less Than Significant The Proposed Project would not initially involve the routine transport, storage, and use of hazardous chemicals. There may be a future need for chemicals to be transported to the site contingent on future regulations regarding drinking water quality. However, chemicals are used routinely at nine existing well sites. Madera County manages the

use of chemicals in accordance with the California Environmental Reporting System (CERS) Consolidated Emergency Response/Contingency plans where applicable.

b). Less Than Significant See the response to *a*) above.

c). Less Than Significant As described above under a) above, hazardous chemicals will not be used routinely at the Well 19 A/B site. However, these chemicals are used routinely by MCPW at each of its active well sites, and MCPW has developed safe handling procedures (described above) that will safeguard the safety of children at the Parkwood Elementary school. Therefore, this impact is considered less than significant.

d). No Impact The site is not located near a hazardous materials site.

e). No Impact The site is not located within an airport land use plan area, nor within 2 miles of a public airport or public use airport. Madera Municipal Airport is located approximately 8 miles north and west of the Project Site.

f). No Impact The Proposed Project does not include any features that would impair implementation of or physically interfere with an emergency response plan or emergency evacuation plan, as MCPW will prepare a transportation management plan that safeguard continuous emergency access through the residential area.

g). No Impact The site is not located near wildlands nor is in an area subject to wildland fires.

J. HYDROLOGY AND WATER QUALITY

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | | | | \boxtimes |
| b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin? | | | | \boxtimes |
| 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; | | | | \boxtimes |
| (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; | | | | \boxtimes |

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| (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 | | | | \boxtimes |
| (iv) impede or redirect flood flows? | | | | \square |
| d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | | | | \boxtimes |
| e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | | | | \boxtimes |

Environmental Setting

CMD 19 is in the San Joaquin Valley, which is the southern portion of the Central Valley of California. The San Joaquin Valley is a large asymmetrical trough measuring 200 miles long and up to 70 miles wide, bordered on the east by the Sierra Nevada. The San Joaquin Valley consists of two hydrologic areas: the south referred to as the Tulare Lake Hydrologic Region and the north as the San Joaquin Valley Hydrologic Region, where MD 19 is located. The San Joaquin Hydrologic Region covers an area of approximately 15,200 square miles and includes counties of Calaveras, Tuolumne, Mariposa, Madera, San Joaquin, and Stanislaus.

Surface Water Hydrology.

Major rivers located near MD 19 include the San Joaquin River approximately eight miles south, and the Tuolumne River approximately three miles to the north. There are no major streams or rivers located within MD 19.

Groundwater Hydrology and Quality.

Groundwater data collection and analysis has been conducted recently in the Subbasin in preparation efforts for the Groundwater Sustainability Plan (GSP) for the Madera Subbasin (Technical Memorandum: Madera Subbasin, 2017). For this study, maps of contours of equal groundwater elevation were prepared from spring 1958 to spring 2016. Spring 2016 groundwater contours indicate that the groundwater elevations in the City of Madera ranged from 10 feet to 90 feet msl. DWR groundwater contours between spring 2011 and spring 2017 indicate the direction of groundwater flow is primarily from south to north beneath the City of Madera (DWR Groundwater Information Center Interactive Map Application).

The MD 19 well field extracts groundwater from the underlying Madera Subbasin (Subbasin) (DWR Basin No. 5-22.06). The Subbasin covers an area of 614 square miles and is located entirely within Madera County. It is bound on the south by the San Joaquin River, on the west by the eastern boundary of the Columbia Canal Service Area, the north by the south boundary of the Chowchilla subbasin, and on the east by the crystalline basement bedrock of the Sierra Nevada foothills. Major streams in the area include the San Joaquin and Fresno Rivers and help promote recharge in the subbasin.

Exploratory Drilling/Test Well

A hydrogeological investigation report was submitted by Wood Rodgers in April 2018. This

report was used to design the site-specific exploratory drilling program. Based upon information within the report, Wood Rodgers designed an exploratory drilling and test well construction program to assess quality of the aquifers underlying the site to a depth of 600 feet.

Wood Rodgers contracted with Bradley and Sons Drilling (Bradley) of Del Rey, California, to conduct the exploratory drilling and construction of a multiple-completion test well at the site. Beginning on September 18, 2018, Bradley drilled an 8 ³/₄-inch borehole to a total depth of 600 feet, using the direct rotary drilling method. The test hole was geophysically logged on September 19, 2018 by Pacific Surveys, LLC of Claremont, California. The response of the geophysical surveys and the drill cutting samples suggested the best permeable aguifers were located between 460 to 540 feet below ground surface (bgs). Wood Rodgers provided Bradley with a nested triple completion test well design to assess the aguifer intervals, from 460 to 470 feet bgs (TW-475), 493 to 503 feet bgs (TW-508), and 530 to 540 feet bgs (TW-545). Each test well completion is identified by the total casing depth. Prior to the installation of the PVC casing. the borehole was reamed to 12 1/4-inch diameter to a depth of 520 feet bgs and a wiper pass was made with the 8 ³/₄-inch diameter bit to clean the borehole to a depth of 575 feet bgs. Following construction of the nested test well, it was determined that the shallow completion (TW-475) had failed, requiring a replacement. Bradley re-mobilized 10-feet south of the original test well and drilled an 8 ³/₄-inch diameter borehole to a depth of 485 feet bgs. On October 22, 2018, the replacement TW-475 was successfully constructed.

Regulatory Setting. MCPW holds a water system permit administered by the DDW that allows them to operate their water supply and distribution system. Current permits include: Project No.: 2010004, DDW Permit No.: 03-11-17P-024.

On November 18, 2014, MCPW was granted Order WQ 2014-0194-DWQ, NPDES No. CAG140001 (NPDES Permit) covering Waste Discharge Requirements for Dewatering and Other Low Threat Discharges to Surface Waters by the California Regional Water Quality Control Board, Central Valley Region (California Regional Water Quality Control Board, Central Valley Region 2014). The NPDES permit grants MCPW the right to discharge water into the Madera County storm water system pursuant to Section 402 of the federal Clean Water Act (NPDES permit) and Article 4, Chapter 4, Division 7 of the California Water Code (Waste Discharge Requirements). The following MCPW activities are covered under the permit:

- Well development water,
- Construction dewatering,
- Pump/well testing,
- Pipeline/tank pressure testing,
- Pipeline/tank flushing or dewatering,
- Condensate discharges,
- Water supply system discharges, and
- Miscellaneous dewatering/low threat discharges.

Under the terms of the NPDES permit, "...potable water discharges as qualified under this permit have been determined to pose no significant threat to water quality..."

Impact Assessment

a). No Impact MCPW will operate the well under the terms of the Statewide NPDES permit, which includes the determination that discharges within the terms of the permit "have been determined to pose no significant threat to water quality". In addition, MCPW has included

measures in the Proposed Project to minimize erosion and the introduction of sediment into the storm water system. Therefore, this impact is considered less than significant.

b). No Impact The project goals for the CMD 19 site include the development of a new municipal supply well that meets State and Federal Drinking Water Regulations, protects the groundwater resource, provides 1,000 gallons per minute (gpm) capacity, and provides a well structure with a service life of approximately 75 years. The Parkwood well is intended to replace an offline, existing well that was recently removed from service due to water quality concerns. The Proposed Project would not deplete groundwater supplies over currently approved levels of groundwater extraction. The project is intended to improve water quality and water system reliability. The well site will not increase impervious surface, and therefore would not adversely impact groundwater recharge via percolation of precipitation.

c(i). No Impact The proposed project would not result in substantial erosion of siltation on or offsite.

c(ii). No Impact The proposed project would not require surface runoff and therefore would not result in flooding on or off-site.

c(iii). No Impact During construction, the proposed project would discharge construction runoff to the existing stormwater detention pond. Construction planning does not anticipate a significant amount of wastewater that would exceed the freeboard capacity of the stormwater detention pond.

c(iv). No Impact.. The Project area is not subject to flooding.

d). No Impact..The site is not located near a body of water that would be subject to seiche or tsunami. The site is located in flat terrain, not subject to mudflows.

e). No Impact MCPW has confirmed that the proposed project is in compliance with the Water Quality Control Plan and the Madera County Sustainable Groundwater Management Plan.

K. LAND USE AND PLANNING

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| a) Physically divide an established community? | | | | \boxtimes |
| b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | | | | |

Environmental Setting

The site is on a parcel with Madera County with a land use designation of Medium Density Residential (MDR) and a zoning of Public Open Space (POS). Land uses surrounding the site include single-family residential and a County Park.

No change in general plan designation or zoning is required at the site to allow the Proposed Project to be constructed and operated, and no use permit is required.

Impact Analysis

a). No Impact The Proposed Project does not contain any features that would lead to physically dividing a community.

b). No Impact The County has indicated that, the proposed project can be constructed and operated without the need for a general plan amendment, a zoning change, or a use permit.

L. MINERAL RESOURCES

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | 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? | | | | \boxtimes |
| 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? | | | | \boxtimes |

Environmental Setting

Mineralization has occurred in the metamorphic rocks of both the foothills zone (Macdonald, 1941, p. 267-270) and the Minaret mining district, in the Ritter Range region at the north end of the San Joaquin Basin (Erwin, 1934, p. 10-11, 61-78), but there has been virtually no mineral production of significance. The Minaret district, in particular, has been extensively prospected, and ore bodies have been found containing iron, lead, zinc, copper, and silver, as well as minor amounts of molybdenum, tungsten, and bismuth. On the upper slope of Iron Mountain, in this district, is a body of magnetite that has long attracted the attention of miners and that possibly would be profitable to exploit if it were more accessible to roads and markets USGS 2009).

Impact Analysis

a). No Impact The site is not located in an area designated as possessing mineral resources. The site is in an urban area, so no mineral development of these areas is anticipated.

b). No Impact The site is not located in an area designated as possessing mineral resources. The site is on a developed parcel in an urban area, so no mineral development of these areas is anticipated.

M. NOISE

Would the project result in:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| 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 ordinance, or applicable standards of other agencies? | | | \boxtimes | |
| b) Generation of excessive groundborne vibration or groundborne noise levels? | | | \boxtimes | |
| 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? | | | | |

Environmental Setting

The site is located adjacent to a residential area and it is located in a public park.

The 1995 Madera County General Plan Background Report (Chapter 8: Noise) contains noise policies to protect county residents from the harmful and annoying effects of exposure to excessive noise. However, the focus of noise policies is on the impact of roadways, highways, airports and industrial facilities on noise levels. The Proposed Project is not anticipated to be a significant, long term noise generator.

The Madera County Code of Ordinances Title 9, Appendix V, Chapter 9.58.020 G. states, "Construction activities are limited to the hours of seven a.m. and seven p.p. Monday through Friday and nine a.m. and five p.m. on Saturdays. Construction activities will be prohibited on Sundays.

Because well drilling will occur on continuous basis 24-hours per day, MCPW has included noise reduction measures in the Proposed Project to mitigate the potential for impact to a less than significant level, including the requirement of residential rated equipment during the well drilling phase and limiting the activities that will be allowed at night to keep exposure to noise during construction to 60 dBA (residential). Noise levels generated during drilling activities will be verified during construction and additional mitigating measures will be applied, as necessary to maintain a less than significant impact.

After construction, operational noise is expected to be no more than the current ambient noise levels. The use of a submersible pump and motor surrounded by a concrete pedestal and pad will also aid in operational noise reduction.

Impact Assessment

a). Less Than Significant The site is adjacent to sensitive receptors including residences and a public park. However, the majority of the noise contributed during construction would be

due to well construction activities that would be of a limited duration (approximately 4 weeks), and because MCPW has included measures in the Proposed Project to reduce noise levels, this impact is considered less than significant.

Noise levels during the operations phase of the Proposed Project will be very similar to existing levels, as the pump, motor, and all equipment will be contained in a fenced enclosure and will be equipped with noise attenuation that will contain the noise.

b). Less Than Significant The site will not expose persons to excessive ground borne vibration or noise levels. As stated above, construction activities will be of limited duration and will be minimized by measures included in the project description. During operations, the pumps and other equipment operating at each site will not create excessive ground borne vibration or noise levels because they will be submerged (pump and motor) or will be housed in a concrete building or be equipped with noise attenuation.

c). No Impact The site is not located within an airport land use plan or within two miles of a public airport or public use airport and would not expose people residing or working in the project area to excessive noise levels.

N. POPULATION AND HOUSING

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | | | | \boxtimes |
| b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | | | | \boxtimes |

Environmental Setting

The site is located within urbanized portions of Madera County.

Impact Assessment

a). No Impact The Proposed Project will improve the reliability of water provided within portions of the MCPW system, and is intended to increase the sustainability of the existing system.

b). No Impact No housing or people would be displaced by the construction of the well.

O. 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:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--------------------------|--------------------------------------|--|------------------------------------|--------------|
| Fire protection? | | | | \boxtimes |
| Police protection? | | | | \boxtimes |
| Schools? | | | | \boxtimes |
| Parks? | | | | \boxtimes |
| Other public facilities? | | | | \boxtimes |

Environmental Setting

The proposed well site is in an urbanized area and is currently served by fire protection, police protection, schools, parks and other public facilities. The proposed replacement well will have no impact on the current level of these services.

Impact Assessment

a). No Impact Sufficient capacity remains in the water, power, and sanitary sewer systems to provide for the small incremental requirements associated with the construction and operation of Well MD 19A/B Parkwood.

P. RECREATION

| | Potentially Significant Impact | Less Than Significant with Mitigation | 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? | | | | \boxtimes |
| 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? | | | | |

Environmental Setting

The Well MD 19A/B Parkwood site is within a public park, Parkwood park. An existing, offline well is located in a different section of this park. The MCPW well site is completely enclosed by a

chain-link fence and closed to the public. The proposed project will not impact the recent (2018) general landscaping improvements, basketball court rehabilitation, or the landscaping around the existing water tank.

Impact Assessment

a). No Impact The Proposed Project does not include any features that would result in an increase in usage of any park or recreational facility, and would thus not lead to any physical deterioration of such facilities.

b). No Impact The Proposed Project is located in a park, but does not include any park or recreational facilities, nor any features that would result in an increase in usage of any park or recreational facility, and would thus require the construction or expansion of any such facilities.

Q. TRANSPORTATION

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? | | | | \boxtimes |
| b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? NOTE: While public agencies may immediately apply Section 15064.3 of the updated Guidelines, statewide application is not required until July 1, 2020. In addition, uniform statewide guidance for Caltrans projects is still under development. The PDT may determine the appropriate metric to use to analyze traffic impacts pursuant to section 15064.3(b). Projects for which an NOP will be issued any time after December 28th, 2018 should consider including an analysis of VMT/induced demand if the project has the potential to increase VMT (see page 20 of OPR's updated SB 743 Technical Advisory), particularly if the project will be approved after July 2020. | | | | |
| c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | | | | \boxtimes |
| d) Result in inadequate emergency access? | | | | \boxtimes |

Environmental Setting

The Proposed Project site is located on Watt Street. Access to the nearest freeway is to Highway 99. There are no bicycle lanes on any adjacent streets, nor any public bus service.

Impact Assessment

a). No Impact During the construction phase of the Proposed Project the delivery of equipment

and materials, and the travel of workers would generate a small number of vehicle trips. During the operations phase, the site would be visited periodically by workers to check the operations for maintenance activities and chemical delivery. However, this would amount to less than one trip per day. Thus, the Proposed Project would not affect the operations of any roadways.

Construction at the site will not cause any significant disruption to traffic on Watt Street, Georgia Avenue or San Bruno Avenue, as the roads have wide shoulders, and there is room on the site for all of the equipment and materials to be stored to drill the well and construct the facilities. MCPW will prepare a transportation management plan, and will require the contractor selected to construct the Proposed Project to implement the plan. The transportation management plan will provide for the safe operation of autos and bicycles along Panorama Drive, and for the use of the sidewalk by pedestrians.

Because this impact will be temporary, and because MCPW will prepare a transportation management plan, this impact is considered less than significant.

b). No Impact There will be very limited if any disruption to traffic along Watt Street, and there will be no long-term change to the level of service. No congestion management program has been prepared that applies to the site.

c). No Impact The proposed project would not require the creation or restructuring of any roadway, and thus would not create a dangerous intersection. Neither would the Proposed Project create any incompatible uses on surrounding roadways.

d). No Impact The site would have no effect on emergency access.

R. TRIBAL CULTURAL RESOURCES

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:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| a) 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 | | | | |
| b) 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 Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | | | | |

Environmental Setting

The Proposed Project site consists of an active and abandoned well field. It lies within a developed

area and has been subjected to extensive surface and subsurface disturbance for development of a County maintained public park.

a). No Impact No previously recorded sites lie within the well head area and it is unlikely that additional intact cultural resources. The proposed project will have no effect on known cultural resources.

b). No Impact The California Native American Heritage Commission (NAHC) was contacted on March 5, 2019 and a Tribal Consultation list was requested Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2. A Sacred Lands File search was also submitted as part of that request. Upon receipt of the tribal list, Consultation letters were prepared for respective Tribes describing the proposed project and inviting them to begin Informal Section 106 and NEPA Consultation. Those letters and responses will included in the project file if an when responses are received by the Lead Agency. No sacred lands were identified by the NAHC. Please see Appendix 4.

S. UTILITIES AND SERVICE SYSTEMS

Would the project:

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | | | | \boxtimes |
| b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | | | | \boxtimes |
| c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | | | | \boxtimes |
| 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? | | | | \boxtimes |
| e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? | | | | \boxtimes |

Environmental Setting

The site is currently served by water (MCPW), sanitary sewers, storm drains, and solid waste collection and disposal. The proposed project is a replacement well that is currently offline due to excessive sand production.

Impact Assessment

a). *No Impact* The proposed project will not result in the relocation or construction of new or

expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects.

b). No Impact Water is available at the site, and is only needed during the construction phase of the Proposed Project. Once the well is operating, it will provide water to the MCPW water supply system and will need no outside source of water.

Construction of The Proposed Project will generate waste water that will be discharged into the existing stormwater detention pond that is located onsite. Discharged waste water will be in compliance with the terms of R5-2018-0085 and possibly 2003-003-DWQ as applicable (CRWQCB 2013).

c). No Impact MCPW has confirmed that there is adequate freeboard in the existing detention pond to accommodate discharge of construction waste water.

d). No Impact The only solid waste generated by the Proposed Project would be the cuttings generated by the well drilling during construction and construction waste generated during the pump station construction phase. MCPW will allow the well-drilling contractor to stockpile cuttings on site during the drilling phase, but ultimately, they will be required to be hauled off site and disposed of in accordance with all applicable regulations before the drilling phase is completed. Waste generated during the pump station construction phase will also be hauled off site and disposed of in accordance with all applicable regulations. The amount of waste generated would be very small, and can easily be accommodated by existing waste disposal systems.

e). No Impact As described above, the only solid waste generated by the Proposed Project would occur during construction, principally as cuttings produced by the well drilling. These cuttings will be disposed of by the contractor in accordance with all applicable regulations.

T. WILDFIRE

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

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--|--------------------------------------|--|------------------------------------|--------------|
| a) Substantially impair an adopted emergency response plan or emergency evacuation plan? | | | | \boxtimes |
| 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? | | | | \boxtimes |
| 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? | | | | |
| d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of | | | | \boxtimes |

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| runoff, post-fire slope instability, or drainage changes? | | | | |

Environmental Setting

The Proposed Project site consists of an active and abandoned well field. It lies within a developed area and has been subjected to extensive surface and subsurface disturbance for development of a County maintained public park.

Impact Assessment

a). *No Impact* The Proposed Project will not impair an adopted emergency response plan or emergency evacuation plan.

b). No Impact Given that the Proposed Project will be located in an area that has been developed as a County maintained public Park, the location itself serves as a determent to wildfire due to maintenance of an irrigated and maintained vegetation environment.

c). No Impact The Proposed Project will not 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.

d). No Impact The Proposed Project will not 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.

U. MANDATORY FINDINGS OF SIGNIFICANCE

| | Potentially Significant Impact | Less Than Significant with Mitigation | 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? | | | | \boxtimes |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | | | | \boxtimes |

| | Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|---|--------------------------------------|--|------------------------------------|--------------|
| c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | | | | \boxtimes |

a). No Impact The Proposed Project site does not provide potential habitat for any special-status species, nor were any special-status species identified during field reconnaissance. No cultural resources were identified during the CHRIS records search nor during previous construction activities. No significant impacts requiring mitigation were identified during the analysis of the impacts of the Proposed Project. Therefore, the Proposed Project would not have the potential to significantly degrade the quality of the environment.

b). No Impact The Proposed Project is not expected to contribute to any cumulatively significant impacts for several reasons. First, because the Proposed Project is a replacement well project, no new impacts or allocation of new resources are anticipated. Second, all potential impacts would be temporary and only occurring during the construction phase, and are therefore limited in duration. Third, MCPW has incorporated a number of measures (Section 1.6) into the Proposed Project to avoid or minimize any impacts.

c). No Impact All potential impacts would be temporary and would occur only during the construction phase, and are therefore limited in duration. Based on prior project experiences, the pollutant emissions generated during the construction of the Proposed Project would not exceed the thresholds established by the San Joaquin Valley Air Pollution Control District, so these impacts could not be considered substantial. The noise generated during construction will be temporary, and will be minimized through the usage of residential rated equipment and this are not considered substantial.

13. ALTERNATIVES

Given that the Proposed Project is a replacement well, the project site is owned by MCPW, and the test well data verified the potential success of a new well at this site, no other sites have been evaluated.

14. **REFERENCES**

- California Department of Fish and Wildlife. (CDFW). 2018. California Natural Diversity Database. Madera County Quad (3812163). December 26, 2018
- California Environmental Protection Agency. 2019. Cortese List: Section 65962.5(a). Envirostor website, available at: <u>http://www.envirostor.dtsc.ca.gov/public/search.asp?cmd=search&reporttype=CORTE</u> <u>SE&site_ty</u> <u>pe=CSITES,ERAP,OPEN,FUDS,CLOSE&status=ACT,BKLG,COM&reporttitle=HAZAR</u> <u>DOUS+W_ASTE+AND+SUBSTANCES+SITE+LIST</u>; accessed September 13, 2018.
- California Geological Survey. 2010. Alquist-Priolo Earthquake Fault Zones. Available at: <u>https://www.conservation.ca.gov/cgs/Pages/Earthquakes/affected.aspx;</u> accessed on March 19, 2019.
- California Regional Water Quality Control Board, Central Valley Region. 2018. CRWQCB). 2018. Order No. R5-2018-0085 on December 7, 2018; State Water Resources Control Board Water Quality Order No. 2003 - 0003 - DWQ - Statewide Waste Discharge Requirements for Discharges to Land with a Low Threat to Water Quality.
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- Wood Rodgers, Inc. 2018a. Madera County Maintenance District (MD) 19 A&B Parkwood Well Siting Study
- Wood Rodgers, Inc. 2018b. Madera County, Maintenance District 19 A & B Parkwood Hydrogeological Investigation Report. April 26, 2018
- Wood Rodgers, Inc. 2018c. Madera County, Maintenance District 19 A & B Parkwood Draft Well Design Report, December 17, 2018

15. LIST OF PREPARERS

Lead Agency – Madera County Public Works

| Ahmad Alkhayyat | Public Works Director |
|---|------------------------|
| Ramon Mendez | Engineer III |
| Engineering – Wood Rodgers, Inc. | |
| Lawrence Ernst | Project Hydrogeologist |
| Jeffrey Lodge | Project Engineer |
| IS/ND Preparation | |
| Leslie Burnside, Wood Rodgers, Inc | CEQA Project Manager |
| Michael Drews, Great Basin Consulting Group | Cultural Resources |

APPENDIX 1

Project Site Photographs

Madera County - Parkwood MD-19 - Well 4 Site Site Visit Photo Report - 04/04/2018





1: Parkwood Park Overview



2: Parkwood Park Overview



3: Proposed Well 4A location



4: Proposed Well 4A location



5: Stormwater retention basin west of proposed Well 4A location



6: Stormwater retention basin west of proposed Well 4A location

Madera County - Parkwood MD-19 - Well 4 Site Site Visit Photo Report - 04/04/2018





7: Stormwater retention basin west of proposed Well 4A location



8: Storm drain drop inlet on south side of San Bruno Ave, north of the retention basin



9: Storm drain drop inlet on south side of San Bruno Ave, north of the retention basin



10: Storm drain drop inlet on north side of San Bruno Ave, north of the retention basin



11: Storm drain drop inlet on north side of San Bruno Ave, north of the retention basin



12: Sewer manhole located on San Bruno Ave

Madera County - Parkwood MD-19 - Well 4 Site Site Visit Photo Report - 04/04/2018





13: Sewer manhole located on San Bruno Ave



15: Looking south from San Bruno Ave at the proposed Well 4A location



14: Sewer manholes located on San Bruno Ave



16: Well 4, east of the proposed Well 4A location



17: Proposed Well 4A location, looking south from San Bruno Ave



18: Nearest hydrant to site, located at the NW corner of San Bruno Ave and Watt St

Madera County - Parkwood MD-19 - Well 4 Site Site Visit Photo Report - 04/04/2018





19: Sewer manhole located in the intersection of Watt St and San Bruno Ave









22: USA markings on the west side of Watt Ave, east of Well 4



of Watt St and Georgia Ave



24: WWTP located SE from the intersection of Watt St and Georgia Ave



Madera County - Parkwood MD-19 - Well 4A Site Site Visit Photo Report - 04/04/2018



25: WWTP located SE from the intersection of Watt St and Georgia Ave



27: South side of 250,000 gallon storage tank



26: South side of stormwater retention basin, looking north from Georgia Ave



28: Storm drain drop inlet on the north side of Georgia Ave, south of the Retention Basin



29: Storm drain drop inlet on the south side of Georgia Ave, south of the Retention Basin



30: Storm drain drop inlet on the north side of Georgia Ave, south of the Retention Basin

Madera County - Parkwood MD-19 - Well 4A Site Site Visit Photo Report - 04/04/2018





31: Storm drain drop inlet on the south side of Georgia Ave, south of the Retention Basin



32: South side of the stormwater retention Basin, looking NE from Georgia Ave



33: Drop inlet at the NW corner of the storage tank



34: Storage tank drop inlet discharge pipe



APPENDIX 2

60% Progress Design Plan Set



IMPROVEMENT PLANS FOR

MADERA COUNTY MAINTAINENCE DISTRICT 19A&B PARKWOOD - WATER SYSTEM IMPROVEMENTS MAY 2019



NOT TO SCALE

| COUNTY APPROVALS: | |
|-------------------------------|------|
| PUBLIC WORKS DIRECTOR | DATE |
| MUNICIPAL SERVICES DIVISION | DATE |
| DESIGN & CONSTRUCTION SECTION | DATE |



UNDERGROUND FACILITIES.

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS" CONTAINED IN THE SPECIAL PROVISIONS.

SHEET INDEX

| DRAWING NO. | DRAWING DESCRIPTION | | |
|----------------|--|--|--|
| GENE | RAL | | |
| G-1 | COVER SHEET | | |
| G-2 | GENERAL NOTES | | |
| G-3 | GENERAL SYMBOLS AND ABBREVIATIONS | | |
| | | | |
| C-1 | EXISTING SITE PLAN | | |
| C-2 | SITE DEMOLITION PLAN | | |
| C-3 | SITE IMPROVEMENTS AND YARD PIPING PLAN | | |
| MECH | IANICAL | | |
| M-1 | MECHNICAL DETAILS | | |
| M-2 | MECHANICAL SECTIONS AND DETAILS | | |
| M-3 | WELL 4A MECHANICAL PLAN AND SECTION | | |
| M-4 | WELL 4A DISCHARGE TIE-IN CONNECTION | | |

60% DESIGN

DIAL TOLL FREE 1-800-642-2444 AT LEAST TWO DAYS BEFORE YOU DIG

CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.), (TOLL FREE 800-642-2444) PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, PIPE PUSHING, PLANTING TREES, DIGGING POST HOLES FOR FENCES, ETC., (U.S.A.) WILL SUPPLY INFORMATION OR LOCATE AND MARK ANY



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GENERAL NOTES

- 1. THE CONTRACTOR SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY SERVICE PROVIDER WHEN WORKING NEAR POWER LINES, POWER POLES, GAS MAINS, WATER TRANSMISSION FACILITIES OR ANY OTHER UTILITY STRUCTURES, BOXES, ETC.
- 2. UTILITY INFORMATION WAS COMPILED FROM DATA PROVIDED BY THE UTILITY OWNERS AND LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND OPERATIONS, UNLESS OTHERWISE NOTED. REFER TO IRRIGATION SYSTEM DRAWINGS INCLUDED WITH THE BID DOCUMENTS FOR APPROXIMATE LOCATIONS OF EXISTING IRRIGATION PIPING.
- 3. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES INVOLVED WITH THIS PROJECT. IN ADDITION, THE CONTRACTOR IS TO REQUEST TO HAVE ALL UNDERGROUND UTILITIES WHICH MAY POSSIBLY CONFLICT WITH THE ABOVEGROUND OR BELOWGROUND IMPROVEMENTS IDENTIFIED IN THE FIELD. THE CONTRACTOR IS REQUIRED TO NOTIFY UNDERGROUND SERVICE ALERT (U.S.A) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION BY CALLING (800) 227-2600.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONTRACT ACTIVITIES.
- 5. CAL-OSHA SAFETY REQUIREMENTS SHALL BE IN EFFECT DURING ALL CONSTRUCTION ACTIVITIES.
- 6. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL WARNING SIGNS, DEVICES, AND FEATURES NECESSARY TO PROTECT THE HEALTH AND SAFETY OF THE GENERAL PUBLIC AND WORKERS AND TO PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS APPLICABLE TO ALL WORK PERFORMED UNDER THE CONTRACT.
- 8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SIZES, AND LOCATIONS OF ALL EXISTING FACILITIES AND FEATURES BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 9. ALL CONSTRUCTION MATERIALS SHALL CONFORM TO THE CONTRACT SPECIFICATIONS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE SURVEYORS WITH AT LEAST 48 HOURS ADVANCE NOTICE.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE OF ALL IMPROVEMENTS AND FILLS THAT ARE CONSTRUCTED AND COPIES SHALL BE DELIVERED TO THE AGENCY PRIOR TO THE ACCEPTANCE OF THE WORK AS INDICATED IN THE SPECIFICATIONS.
- 12. DRAWINGS SHOWN WITH AERIAL PHOTOGRAPHS ARE PROVIDED FOR REFERENCE ONLY. ALL FACILITIES MAY NOT BE SHOWN ON PHOTOGRAPHS. THE CONTRACTOR SHALL SATISFY ITSELF AS TO THE LOCATION OF EXISTING FACILITIES THAT MAY BE AFFECTED BY CONSTRUCTION.
- 13. THE CONTRACTOR IS REQUIRED TO DEVELOP AND MAINTAIN A WATER POLLUTION CONTROL PROGRAM (WPCP) FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROLS IN COMPLIANCE WITH THE NPDES CONSTRUCTION GENERAL PERMIT (Order No. 2012-2006-DWQ).
- 14. THE CONTRACTOR SHALL PROVIDE DUST CONTROL AT ALL TIMES.
- 15. A SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- 16. UNLESS OTHERWISE NOTED, STATIONING SHOWN ON THE PLANS ARE IN REFERENCE TO THE CENTERLINE OF THE PROPOSED STRUCTURE.
- 17. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR THE SAFE PASSAGE BY THE PUBLIC ALONG ALL PUBLIC UTILITY EASEMENTS AND ACCESS EASEMENTS USED IN CONNECTION WITH CONSTRUCTION ACTIVITIES.
- 18. ALL FITTINGS SHALL BE RESTRAINED.
- 19. THE CONTRACTOR SHALL ALLOW THE OWNER, OWNER'S REPRESENTATIVE, ENGINEER, AND UTILITY OWNERS ACCESS TO THE WORK WHENEVER IT IS IN PREPARATION AND PROGRESS.

BASIS OF DESIGN

1. GEOTECHNICAL INFORMATION USED FOR THIS DRAWING SET WAS PROVIDED BY SALEM ENGINEERING GROUP, INC. IN THE FOLLOWING DOCUMENT:

A. GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED STORAGE TANK AT PARKWOOD PARK NWC GEORGIA AVENUE & WATT STREET, JANUARY 2016.



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| BC BF BFV | ASSOCIATION BEGIN CURVE BLIND FLANGE BUTTERFLY VALVE | GV GWB H HA | GATE VALVE GYPSUM WALL BOARD HEIGHT HIGH PRESSURE AIR | SHWR SMH SPEC SQ SS SS | SHOWER SEWER MA SPECIFICA SQUARE SANITARY |
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| FCO FCV FD FF FG | FLOOR CLEANOUT FLOW CONTROL VALVE FLOOR DRAIN FINISH FLOOR FINISH GRADE | PSF PSI PT PVC PVMT | POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT POLYVINYL CHLORIDE PAVEMENT | | |
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| | □ □ 30" R1 SIGN (STOP) P= P= PAD GRADE ELEVATION | DETAIL DESIGNATION |
| | | DRAWN ON DWG NO. C2 |
| | FINISH GRADE SPOT ELEVATION | IDENTIFICATION TAG |
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| | | |
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1. FOR TYPE 1 SUPPORTS WITH U-BOLTS ONLY: PROVIDE TYPE 316 SS PIPE SHIELDS 6" WIDE, AT ADJUSTABLE PIPE SUPPORTS, AND AROUND ALL NON-METALLIC PIPE. PROVIDE TAPE COAT MOLDABLE SEALANT BETWEEN ENTIRE CONTACT SURFACE OF SHIELDS AND PIPE. WRAP COPPER PIPE WITH 1/8" THICK NEOPRENE STRIP.

2. ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE.



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APPENDIX 3

California Natural Diversity Database Query Results



May 21, 2019

Mr. Gabriel Edwards State Water Resources Control Board 1001 | Street, 16th Floor. Sacramento, California 95814

Dear Mr. Edwards:

Wood Rodgers, Inc. on behalf of the Madera County Public Works Department (MCPW) has prepared and is submitting this Biological Assessment for the Parkwood CMD 19A&B Water System Improvements.

On behalf of MCPW we have determined that the proposed action will have No Effect on listed species/designated critical habitat and we are requesting concurrence on this determination of effect.

Sincerely, WOOD RODGERS, INC.

shik. Burside

Leslie Burnside, Associate Environmental program Manager

Attached: Biological Assessment

CC: Ramon Mendez, MCPW Jeffrey Lodge, Wood Rodgers

www.woodrodgers.com



United States Department of the Interior

FISH AND WILDLIFE SERVICE Sacramento Fish And Wildlife Office Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846 Phone: (916) 414-6600 Fax: (916) 414-6713



In Reply Refer To: Consultation Code: 08ESMF00-2019-SLI-1883 Event Code: 08ESMF00-2019-E-06039 Project Name: Madera County PW Parkwood MD 19AB May 09, 2019

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

2

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/correntBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

1

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846 (916) 414-6600

Project Summary

| 08ESMF00-2019-SLI-1883 |
|-----------------------------------|
| 08ESMF00-2019-E-06039 |
| Madera County PW Parkwood MD 19AB |
| WATER SUPPLY / DELIVERY |
| |

Project Description: Replacement Well

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://</u>www.google.com/maps/place/36.931901255728356N120.05222930862294W



Counties: Madera, CA

Endangered Species Act Species

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

| NAME | STATUS |
|--|------------|
| Fresno Kangaroo Rat Dipodomys nitratoides exilis | Endangered |
| There is final critical habitat for this species. Your location is outside the critical habitat. | |
| Species profile: https://ecos.fws.gov/ecp/species/5150 | |
| Species survey guidelines: | |
| https://ecos.fws.gov/ipac/guideline/survey/population/37/office/11420.pdf | |
| San Joaquin Kit Fox Vulpes macrotis mutica | Endangered |
| No critical habitat has been designated for this species. | - |
| Species profile: https://ecos.fws.gov/ecp/species/2873 | |
| Reptiles | |
| NAME | STATUS |
| Blunt-nosed Leopard Lizard Gambelia silus | Endangered |
| No critical habitat has been designated for this species. | 0 |
| Species profile: https://ecos.fws.gov/ecp/species/625 | |
| Giant Garter Snake Thamnophis gigas | Threatened |
| No critical habitat has been designated for this species. | |
| Species profile: https://ecos.fws.gov/ecp/species/4482 | |

| NAME | STATUS |
|--|------------|
| California Red-legged Frog Rana draytonii | Threatened |
| There is final critical habitat for this species. Your location is outside the critical habitat. | |
| Species profile: https://ecos.fws.gov/ecp/species/2891 | |
| California Tiger Salamander Ambystoma californiense | Threatened |
| Population: U.S.A. (Central CA DPS) | |
| There is final critical habitat for this species. Your location is outside the critical habitat. | |
| Species profile: https://ecos.fws.gov/ecp/species/2076 | |

Fishes

| NAME | STATUS |
|--|------------|
| Delta Smelt Hypomesus transpacificus | Threatened |
| There is final critical habitat for this species. Your location is outside the critical habitat. | |
| Species profile: https://ecos.fws.gov/ecp/species/321 | |

Crustaceans

| NAME | STATUS |
|--|------------|
| Vernal Pool Fairy Shrimp Branchinecta lynchi | Threatened |
| There is final critical habitat for this species. Your location is outside the critical habitat. | |
| Species profile: https://ecos.fws.gov/ecp/species/498 | |

Flowering Plants

| NAME | STATUS |
|--|------------|
| Hairy Orcutt Grass Orcuttia pilosa | Endangered |
| There is final critical habitat for this species. Your location is outside the critical habitat. | - |
| Species profile: https://ecos.fws.gov/ecp/species/2262 | |

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



In cooperation with: NatureServe www.natureserve.org

California Native Plant Society www.cnps.org

DISCLAIMER

The California Natural Diversity Database (CNDDB) is an ongoing and continuously updated database. While the information is complete and accurate to the best of our knowledge and ability, it does not constitute an official response from any state agency and will not in itself meet the requirements of the California Environmental Quality Act (CEQA). Information supplied is based on the material available at the time of the request and should not be regarded as complete data on the elements or areas being considered. The information must be used in consultation with the appropriate local, State and Federal officials. Absence of data does not constitute the basis for a negative declaration.





Total Number of Element Occurrences shown on this map: 20

| | Occ # | Accuracy | Scientific Name |
|----|-------|----------|------------------------------|
| 80 | 616 | 9 | Ambystoma californiense |
| 80 | 1250 | 2 | Ambystoma californiense |
| 80 | 1259 | 2 | Ambystoma californiense |
| 70 | 2691 | 1 | Buteo swainsoni |
| 70 | 2696 | 1 | Buteo swainsoni |
| 70 | 2697 | 1 | Buteo swainsoni |
| 10 | 757 | 1 | Athene cunicularia |
| 30 | 64 | 4 | Lasiurus cinereus |
| 10 | 107 | 9 | Gambelia sila |
| CA | 129 | 2 | Northern Hardpan Vernal Pool |
| 30 | 902 | 1 | Branchinecta lynchi |
| 30 | 907 | 1 | Branchinecta lynchi |
| 30 | 909 | 2 | Branchinecta lynchi |
| 50 | 136 | 2 | Branchinecta mesovallensis |
| 50 | 137 | 2 | Branchinecta mesovallensis |
| 30 | 6 | 9 | Lytta molesta |
| 30 | 10 | 9 | Leptosiphon serrulatus |
| 40 | 15 | 5 | Orcuttia pilosa |
| 40 | 19 | 2 | Orcuttia pilosa |
| 40 | 49 | 2 | Orcuttia pilosa |
| | | | |





Query Criteria: Quad IS (Madera (3612081))

WOOD RODGERS, INC.

| | | | | Elev. | | 1 | Elem | ent C |)cc. I | . Ranks Population Status | | Presence | | | | |
|--|----------------|-------------------------------|---|----------------|---------------|---|------|-------|--------|---------------------------|---|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common) | CNDDB Ranks | Listing Status (Fed/State) | Other Lists | Range (ft.) | Total EO's | A | в | с | D | x | U | Historic > 20 yr | Recent <= 20 yr | Extant | Poss. Extirp. | Extirp. |
| Ambystoma californiense 🕥 California tiger salamander | G2G3 S2S3 | Threatened Threatened | CDFW_WL-Watch List IUCN_VU-Vulnerable | 270 292 | 1181 S:2 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| Athene cunicularia burrowing owl | G4 S3 | None None | BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern | 255 255 | 1974 S:1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| Branchinecta lynchi vernal pool fairy shrimp | G3 S3 | Threatened None | IUCN_VU-Vulnerable | 292 294 | 766 S:2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| Branchinecta mesovallensis midvalley fairy shrimp | G2 S2S3 | None None | | 294 294 | 128 S:1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Buteo swainsoni Swainson's hawk | G5 S3 | None Threatened | BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern | 250 273 | 2467 S:2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 2 | 0 | 0 |
| Gambelia sila blunt-nosed leopard lizard | G1 S1 | Endangered Endangered | CDFW_FP-Fully Protected IUCN_EN-Endangered | 232 232 | 328 S:1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| Lasiurus cinereus சூ hoary bat | G5 S4 | None None | IUCN_LC-Least Concern WBWG_M-Medium Priority | 270 270 | 238 S:1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| Leptosiphon serrulatus (Y Madera leptosiphon | G3 S3 | None None | Rare Plant Rank - 1B.2 USFS_S-Sensitive | 270 270 | 27 S:1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| Lytta molesta \@ molestan blister beetle | G2 S2 | None None | | 270 270 | 17 S:1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool | G3 S3.1 | None None | | 290 290 | 126 S:1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Orcuttia pilosa hairy Orcutt grass | G1 S1 | Endangered Endangered | Rare Plant Rank - 1B.1 | 290 360 | 34 S:3 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 1 | 1 | 1 | 1 |



Occurrence Report California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria: Quad IS (Madera (3612081))

WOOD RODGERS, INC.

| Map Index Number: | 30806 | | EO Index: | | 46463 | | | |
|--|---|--|---|--|---|--------|--|--|
| Key Quad: | ey Quad: Madera (3612081) | | Element Code: | | AAAAA01180 | | | |
| Occurrence Number: | 616 | | Occurrence Last U | pdated: | 2001-11-09 | | | |
| Scientific Name: An | nbystoma califorr | iense | Common Name: | California | tiger salamander | | | |
| Listing Status: | Federal: | Threatened | Rare Plant Rank: | | | | | |
| | State: | Threatened | Other Lists: | CDFW_W | L-Watch List | | | |
| CNDDB Element Ranks | Global: | G2G3 | | IUCN_VU | -Vulnerable | | | |
| | State: | S2S3 | | | | | | |
| General Habitat: | | | Micro Habitat: | | | | | |
| CENTRAL VALLEY DPS BARBARA AND SONOM ENDANGERED. | FEDERALLY LIS A COUNTIES DI | STED AS THREATENED, SANTA PS FEDERALLY LISTED AS | A NEED UNDERGRO BURROWS, AND V SOURCES FOR BR | NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS, AND VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING. | | | | |
| Last Date Observed: | 1944-12-XX | | Occurrence Type: | Natural/N | lative occurrence | | | |
| Last Survey Date: | 1944-12-XX | | Occurrence Rank: | None | | | | |
| Owner/Manager: | UNKNOWN | | Trend: | Unknown | I | | | |
| Presence: | Extirpated | | | | | | | |
| Location: | | | | | | | | |
| MADERA. NO OTHER LO | DCATION INFOR | RMATION GIVEN. | | | | | | |
| Detailed Location: | | | | | | | | |
| Ecological: | | | | | | | | |
| Threats: | | | | | | | | |
| General: | | | | | | | | |
| MVZ #42705 COLLECTE | D DEC 1944 BY | A. HAWBECKER. JENNINGS C | ONSIDERS THIS LOCATION | ON EXTIRF | PATED. | | | |
| PLSS: T11S, R17E, Se | c. 24 (M) | Accuracy: | 1 mile | | Area (acres): 0 | | | |
| UTM: Zone-10 N4094 | 507 E761603 | Latitude/Longitude: | 36.96034 / -120.06173 | | Elevation (feet): 270 | | | |
| County Summary: Quad Summary: | | | | | | | | |
| Madera | | Madera (3612081) | | | | | | |
| Sources: | | | | | | | | |
| JEN01U0001 JENNII HAYES | NGS, M. (RANA S SPECIAL CON | RESOURCES) - LOCALITY REC CERN HERP DATABASE WITH | ORDS FOR AMBYSTOMA | CALIFOR | NIENSE IN CALIFORNIA 1992 JENN OR EXTIRPATED, 2001-11-07 | INGS & | | |
| MVZ01S0013 MVZ S CALIFO | BASE QUERY (UNIVERSITY OF LECTED BETWEEN 1912-1990 2 | F CALIFORNIA, BERKELE 2001-08-17 | Y) - MVZ S | PECIMENS FOR AMBYSTOMA | | | | |



Occurrence Report California Department of Fish and Wildlife

California Natural Diversity Database



| Map Index Number: | A7971 | | EO Index: | | 109759 | | |
|---|---|---|---------------------------------|---|---------------------------------|--|--|
| Key Quad: | Madera (3612081) | | Element Code: | | AAAA01180 | | |
| Occurrence Number: | 1259 | | Occurrence Last U | Occurrence Last Updated: 2018-01-04 | | | |
| Scientific Name: Ambystoma californiense Common Name: California tiger salamander | | | | | tiger salamander | | |
| Listing Status: | Federal: | Threatened | Rare Plant Rank: | | | | |
| | State: | Threatened | Other Lists: | CDFW_W | /L-Watch List | | |
| CNDDB Element Ranks | : Global: | G2G3 | | IUCN_VU | -Vulnerable | | |
| | State: | S2S3 | | | | | |
| General Habitat: | | | Micro Habitat: | | | | |
| CENTRAL VALLEY DPS BARBARA AND SONON ENDANGERED. | STED AS THREATENED. SANTA PS FEDERALLY LISTED AS | NEED UNDERGROU BURROWS, AND VE SOURCES FOR BR | JND REFL ERNAL PO EEDING. | JGES, ESPECIALLY GROUND SQUIRREL OLS OR OTHER SEASONAL WATER | | | |
| Last Date Observed: | 2017-04-10 | | Occurrence Type: | Natural/N | Native occurrence | | |
| Last Survey Date: | 2017-04-10 | | Occurrence Rank: | Poor | | | |
| Owner/Manager: | PVT-BNSF RAIL | ROAD | Trend: | Unknowr | 1 | | |
| Presence: | Presumed Extan | t | | | | | |
| Location: | | | | | | | |
| RAILROAD RIGHT OF V | VAY FROM ABO | JT 0.1-0.2 MI NW OF THE RAYN | OND RD CROSSING, 1.0 | MI NE OF | HWY 145 AT STOREY RD IN MADERA. | | |
| Detailed Location: | | | | | | | |
| MAPPED TO PROVIDE | O COORDINATE | S. | | | | | |
| Ecological: | | | | | | | |
| PONDED AREAS ADJA | CENT TO DIRT F | OADS AND RAILROAD TRACK | S, IN HEAVILY DISTURBE | D GRASSI | LAND. | | |
| Threats: | | | | | | | |
| FIRST POND OBSERVE | D DEEMED LIKE | ELY TO DRY BEFORE METAMO | RPHOSIS. | | | | |
| General: | | | | | | | |
| 100S OF LARVAE OBSE ADDITIONAL POOLS OF | ERVED IN POND N 10 APR 2017. | ED AREA ALONG DIRT ROAD C | ON 29 MAR 2017. 100S MC | ORE WELL | -DEVELOPED LARVAE OBSERVED IN | | |
| PLSS: T11S, R18E, Se | ec. 8, SW (M) | Accuracy: | specific area | | Area (acres): 12 | | |
| UTM: Zone-10 N4097 | 457 E764221 | Latitude/Longitude: | 36.98616 / -120.03133 | | Elevation (feet): 292 | | |
| County Summary: | | Quad Summary: | | | | | |
| Madera | | Madera (3612081) | | | | | |
| Sources: | | | | | | | |
| BAY17F0002 BAYN | E, K. ET AL FIE | LD SURVEY FORM FOR AMBY | STOMA CALIFORNIENSE | 2017-03-2 | 29 | | |
| | | | | | | | |

BAY17F0003 BAYNE, K. - FIELD SURVEY FORM FOR AMBYSTOMA CALIFORNIENSE 2017-04-10



California Department of Fish and Wildlife



| Map Index Number: | A2000 | | EO Index: | | 103593 | | | |
|---|---|--|---|---|---|---------|--|--|
| Key Quad: | Madera (36120 | 81) | Element Code: | | ABNKC19070 | | | |
| Occurrence Number: | 2691 | | Occurrence Last Up | odated: | 2016-09-28 | | | |
| Scientific Name: Bu | teo swainsoni | | Common Name: | Swainson' | s hawk | | | |
| Listing Status: | Federal: | None | Rare Plant Rank: | | | | | |
| | State: | Threatened | Other Lists: | BLM_S-Sensitive | | | | |
| CNDDB Element Ranks | : Global: | G5 | | USFWS E | Least Concern BCC-Birds of Conservation Conc | cern | | |
| | State: | S3 | | | | | | |
| General Habitat: | | | Micro Habitat: | | | | | |
| BREEDS IN GRASSLAN FLATS, RIPARIAN AREA LANDS WITH GROVES | DS WITH SCAT AS, SAVANNAHS OR LINES OF TI | TERED TREES, JUNIPER-SAGE 5, & AGRICULTURAL OR RANCH REES. | REQUIRES ADJACE GRASSLANDS, OR POPULATIONS. | REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS. | | | | |
| Last Date Observed: | 2016-04-16 | | Occurrence Type: | Natural/N | lative occurrence | | | |
| Last Survey Date: | 2016-04-16 | | Occurrence Rank: | Fair | | | | |
| Owner/Manager: | | Trend: | Trend: Unknown | | | | | |
| Presence: | Presumed Extan | t | | | | | | |
| Location: | | | | | | | | |
| NORTH SIDE OF AVE 14 | 4, ABOUT 0.1 MI | LES NE OF ITS INTERSECTION | WITH RD 24 IN MADERA | | | | | |
| Detailed Location: | | | | | | | | |
| MAPPED TO SYCAMOR GIVEN ARE CLOSE BUT | E/PLANE TREE NOT EXACT). | IN FRONT YARD OF RESIDENC | E, VISIBLE IN AIR PHOTO | DS AND GO | DOGLE STREET VIEW (COOR | DINATES | | |
| Ecological: | | | | | | | | |
| NEST IN SYCAMORE/PI DISTURBANCE FROM A | LANE TREE IN F | RONT YARD OF RESIDENCE (N Y ROAD AND RESIDENCES. | IEST TREE SPECIES DET | ERMINED | FROM PROVIDED PHOTO). | | | |
| Threats: | | | | | | | | |
| General: | | | | | | | | |
| 1 ADULT OBSERVED C | IRCLING NEST | FREE AND SITTING ON NEST OF | N 16 APR 2016. | | | | | |
| PLSS: T11S, R17E, Se | ec. 22, SW (M) | Accuracy: | 80 meters | | Area (acres): | 5 | | |
| UTM: Zone-10 N4093 | 583 E757427 | Latitude/Longitude: | 36.95316 / -120.10889 | | Elevation (feet): | 250 | | |
| County Summary: | Quad Summary: | | | | | | | |
| Madera | | Madera (3612081) | | | | | | |
| Sources: | | | | | | | | |
| FOL16F0001 FOLSO | OM. G FIELD S | URVEY FORM FOR BUTEO SW | AINSONI 2016-04-06 | | | | | |



California Department of Fish and Wildlife



| Map Index Number: | A2418 | | EO Index: | | 104028 | | |
|---|--|---|---|--|--------------------------|-------|--|
| Key Quad: | Madera (36120 | 81) | Element Code: | | ABNKC19070 | | |
| Occurrence Number: | 2696 | | Occurrence Last Up | odated: | 2016-10-31 | | |
| Scientific Name: Bu | teo swainsoni | | Common Name: | Swainson's | s hawk | | |
| Listing Status: | Federal: | None | Rare Plant Rank: | | | | |
| | State: | Threatened | Other Lists: | BLM_S-Sensitive | | | |
| CNDDB Element Ranks | : Global: | G5 | | IUCN_LC-Least Concern USEWS_BCC-Birds of Conservation (| | ncern | |
| | State: | S3 | | 001110_0 | | | |
| General Habitat: | | | Micro Habitat: | | | | |
| BREEDS IN GRASSLAN FLATS, RIPARIAN AREA LANDS WITH GROVES | TERED TREES, JUNIPER-SAGE 6, & AGRICULTURAL OR RANCH REES. | REQUIRES ADJACE GRASSLANDS, OR POPULATIONS. | REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS. | | | | |
| Last Date Observed: | 2016-07-12 | | Occurrence Type: | Natural/N | ative occurrence | | |
| Last Survey Date: | 2016-07-12 | | Occurrence Rank: | Unknown | | | |
| Owner/Manager: | UNKNOWN | | Trend: | Unknown | | | |
| Presence: | t | | | | | | |
| Location: | | | | | | | |
| NORTH SIDE OF COTTO | ONWOOD CREE | K ABOUT 0.25 MILES NW OF HW | Y 99 AT AVE 12, 3 MILE | S SE OF M | ADERA. | | |
| Detailed Location: | | | | | | | |
| MAPPED TO PROVIDED | COORDINATE | 5. | | | | | |
| Ecological: | | | | | | | |
| NEST IN COTTONWOOD SURROUNDING AREA | D IN RIPARIAN A AGRICULTURAL | AREA BETWEEN CANAL AND CO | TTONWOOD CREEK. AF | REA NORTI | H OF CANAL WAS INDUSTRIA | AL; | |
| Threats: | | | | | | | |
| General: | | | | | | | |
| ACTIVE NEST MONITOI | RED THROUGH | 2016 SEASON; BY 12 JUL, 3 YOU | NG HAD FLEDGED. | | | | |
| PLSS: T11S, R18E, Se | ec. 33, SW (M) | Accuracy: 8 | 30 meters | | Area (acres): | 5 | |
| UTM: Zone-10 N4090 | 828 E765622 | Latitude/Longitude: 3 | 86.92609 / -120.01794 | | Elevation (feet): | 273 | |
| County Summary: Quad Summary: | | | | | | | |
| Madera | Madera (3612081) | | | | | | |
| Sources: | | | | | | | |
| BAT16F0001 BATES | S. K FIELD SU | RVEY FORM FOR BUTEO SWAIN | SONI 2016-07-12 | | | | |



Occurrence Report California Department of Fish and Wildlife

California Natural Diversity Database



| Map Index Number: 62822 | | EO Index: | 62876 |
|---|--|-----------------------------------|---|
| Key Quad: Madera (3612081) | | Element Code: | ABNSB10010 |
| Occurrence Number: 757 | | Occurrence Last Up | odated: 2005-10-17 |
| Scientific Name: Athene cunicularia | | Common Name: | burrowing owl |
| Listing Status: Federal: No | ne | Rare Plant Rank: | |
| State: No | ne | Other Lists: | BLM_S-Sensitive |
| CNDDB Element Ranks: Global: G4 | Ļ | | CDFW_SSC-Species of Special Concern |
| State: S3 | | | USFWS_BCC-Birds of Conservation Concern |
| General Habitat: | | Micro Habitat: | |
| OPEN, DRY ANNUAL OR PERENNIAL GRA SCRUBLANDS CHARACTERIZED BY LOW- | SSLANDS, DESERTS, AND GROWING VEGETATION. | SUBTERRANEAN N MAMMALS, MOST N | ESTER, DEPENDENT UPON BURROWING NOTABLY, THE CALIFORNIA GROUND SQUIRREL. |
| Last Date Observed: 2005-02-24 | | Occurrence Type: | Natural/Native occurrence |
| Last Survey Date: 2005-02-24 | | Occurrence Rank: | None |
| Owner/Manager: USBOR | | Trend: | Unknown |
| Presence: Possibly Extirpated | | | |
| Location: | | | |
| 0.2 MILE NORTH OF AVENUE 16 AND 0.7 M | ILE WEST OF HIGHWAY 99, | JUST EAST OF MADERA | AIRPORT. |
| Detailed Location: | | | |
| Ecological: | | | |
| HABITAT CONSISTED OF RUDERAL/NON-I AGRICULTURE | NATIVE GRASSLAND ON A W | EST-FACING SLOPE. SU | JRROUNDED BY A PONDING BASIN AND |
| Threats: | | | |
| BURROW DESTROYED BY PONDING BASI | N ENLARGEMENT. | | |
| General: | | | |
| AFTER THE OWL HAD LEFT THE BURROW TO ENLARGE THE PONDING BASIN. | /, AND IT WAS DETERMINED | THAT THERE WERE NO | EGGS OR YOUNG INSIDE, THE SITE WAS GRADED |
| PLSS: T11S, R17E, Sec. 10, SE (M) | Accuracy: 8 | 80 meters | Area (acres): 0 |
| UTM: Zone-10 N4097134 E758193 | Latitude/Longitude: | 36.98492 / -120.09909 | Elevation (feet): 255 |
| County Summary: | Quad Summary: | | |
| Madera | Madera (3612081) | | |

Sources:

PEA05F0001 PEARSON, A.J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-02-24



California Department of Fish and Wildlife

California Natural Diversity Database



| Map Index Number: | 68509 | | EO Index: | | 68823 | |
|--|--|---------------------------|--|-----------|------------------------|-----|
| Key Quad: | Madera (36120 | 181) | Element Code: | | AMACC05030 | |
| Occurrence Number: | 64 | | Occurrence Last U | pdated: | 2007-03-16 | |
| Scientific Name: La | siurus cinereus | | Common Name: | hoary bat | | |
| Listing Status: | Federal: | None | Rare Plant Rank: | | | |
| | State: | None | Other Lists: | IUCN_LC- | Least Concern | |
| CNDDB Element Ranks | : Global: | G5 | | WBWG_M | I-Medium Priority | |
| | State: | S4 | | | | |
| General Habitat: | | | Micro Habitat: | | | |
| PREFERS OPEN HABIT TREES FOR COVER AN FEEDING. | AT MOSAICS, WITH ACCESS TO S OR HABITAT EDGES FOR | PRIMARILY ON MO | ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS, REQUIRES WATER. | | | |
| Last Date Observed: | 1944-02-25 | | Occurrence Type: | Natural/N | lative occurrence | |
| Last Survey Date: | 1944-02-25 | | Occurrence Rank: | Unknown | | |
| Owner/Manager: | UNKNOWN | | Trend: | Unknown | | |
| Presence: | Presumed Extar | nt | | | | |
| Location: | | | | | | |
| MADERA, AT L AND YO | SEMITE AVE. | | | | | |
| Detailed Location: | | | | | | |
| MAPPED ACCORDING | TO LOCALITY G | IVEN BY MANIS. | | | | |
| Ecological: | | | | | | |
| Threats: | | | | | | |
| General: | | | | | | |
| 1 MALE SPECIMEN (MV | Z #109120) COI | LECTED BY ALBERT C. HAWBE | ECKER JR. ON 26 FEB 19 | 44. | | |
| PLSS: T11S, R17E, Se | ec. 24, SW (M) | Accuracy: | 1/10 mile | | Area (acres): | 0 |
| UTM: Zone-10 N4094 | 125 E761175 | Latitude/Longitude: | 36.95701 / -120.06666 | | Elevation (feet): | 270 |
| County Summary: Quad Summary: | | | | | | |
| Madera | | Madera (3612081) | | | | |
| Sources: | | | | | | |
| MAN0450029 MAMM | | D INFORMATION SYSTEM (MAI | | | EREUS SPECIMENS FOR CA | |

FROM MANIS. INCLUDES RECORDS FROM MVZ, CAS, MSB, LSU, KU, LACM, UWBM, FMNH AND TTU. 2004-12-10



California Department of Fish and Wildlife



| Map Index Number: | 14160 | | EO Index: | | 27810 | | |
|--|---------------------------------|---------------------------|--|--|---|-----------|--|
| Key Quad: | Madera (36120 | 81) | Element Code: | | ARACF07010 | | |
| Occurrence Number: | 107 | | Occurrence Last U | pdated: | 1989-08-10 | | |
| Scientific Name: Ga | ambelia sila | | Common Name: | blunt-nose | d leopard lizard | | |
| Listing Status: | Federal: | Endangered | Rare Plant Rank: | | | | |
| | State: | Endangered | Other Lists: | CDFW_FF | P-Fully Protected | | |
| CNDDB Element Ranks | : Global: | G1 | | IUCN_EN-Endangered | | | |
| | State: | S1 | | | | | |
| General Habitat: | | | Micro Habitat: | | | | |
| RESIDENT OF SPARSE HABITATS, IN AREAS C | LY VEGETATED F LOW TOPOG | ALKALI AND DESERT SCRUB | SEEKS COVER IN I STRUCTURES SUC THEIR OWN BURR | SEEKS COVER IN MAMMAL BURROWS, UNDER SHRUBS OR STRUCTURES SUCH AS FENCE POSTS; THEY DO NOT EXCAVATE THEIR OWN BURROWS. | | | |
| Last Date Observed: | 1916-06-XX | | Occurrence Type: | Natural/N | lative occurrence | | |
| Last Survey Date: | 1916-06-XX | | Occurrence Rank: | Unknown | L | | |
| Owner/Manager: | UNKNOWN | | Trend: | Unknown | l i i i i i i i i i i i i i i i i i i i | | |
| Presence: | Presumed Extar | nt | | | | | |
| Location: | | | | | | | |
| 5 MI SW MADERA. | | | | | | | |
| Detailed Location: | | | | | | | |
| Ecological: | | | | | | | |
| Threats: | | | | | | | |
| General: | | | | | | | |
| CAS SPECIMEN. | | | | | | | |
| PLSS: T12S, R17E, Se | ec. 09, NE (M) | Accuracy: | 1 mile | | Area (acres): | 0 | |
| UTM: Zone-10 N4088 | 008 E757384 | Latitude/Longitude: | 36.90299 / -120.11127 | | Elevation (feet): | 232 | |
| County Summary: | | Quad Summary: | | | | | |
| Madera | | Madera (3612081), Bo | nita Ranch (3612082) | | | | |
| Sources: | | | | | | | |
| BR074R0001 BROD | E, J.M. & D.C. S | | IENT OF FISH AND WILD | LIFE) - LOC | CALITIES FOR THE BLUNT-NO | DSED | |
| LEOP/ AND G | ARD LIZARD. A SAME 1974-XX-X | LIST OF MUSEUM AND OBSERV | VATIONS PREPARED BY | INLAND FI | SHERIES BRANCH, CA DEPT | . OF FISH | |



Occurrence Report California Department of Fish and Wildlife California Natural Diversity Database



| Map Index Numbe Key Quad: Occurrence Numl | er: ber: | 14334 Madera (36120 129 | 081) | | EO Index: Element Code: Occurrence Last Uj | pdated: | 26027 CTT44110CA 1998-07-15 | |
|---|-----------------|-------------------------------|------------------------|--|--|-------------------------|---|---------|
| Scientific Name: | No | rthern Hardpan | Vernal Po | ol | Common Name: | Northern H | Hardpan Vernal Pool | |
| Listing Status: | | Federal: | None | | Rare Plant Rank: | | | |
| | | State: | None | | Other Lists: | | | |
| CNDDB Element I | Ranks: | Global: | G3 | | | | | |
| | | State: | S3.1 | | | | | |
| General Habitat: | | | | | Micro Habitat: | | | |
| D | | | | | | | | |
| Last Date Observ | ed: | 1986-05-21 | | | Occurrence Type: | Natural/N | lative occurrence | |
| Last Survey Date: | | 1986-05-21 | | | Occurrence Rank: | Fair | | |
| Owner/Manager: | | PVT | | | Trend: | Decreasi | ng | |
| Presence: | | Presumed Extant | | | | | | |
| Location: | | | | | | | | |
| ON NORTH AND | SOUTH | I SIDES OF AV | ENUE 15, | 1/2 MILE EAST OF TOP | PEKA AND SANTA FE RAI | ILWAY. | | |
| Detailed Location | : | | | | | | | |
| Ecological: | | | | | | | | |
| REMNANT VERNA PHALARIS, ERYN | al poo Gium, | DLS IN VALLEY LYTHRUM, AN | GRASSL | and, pools on sout Carphus, unable to | TH SIDE OF ROAD ARE IN CONVERT TO FLORISTIC | N DISKED \ C CLASSIF | WHEAT FIELD. ORCUTTIA PIL FICATION, LACKS SPP. INFO. | LOSA, |
| Threats: | | | | | | | | |
| AGRICULTURE / [| DISKIN | G IS LARGEST | THREAT | | | | | |
| General: | | | | | | | | |
| FEWER ORCUTTI WWW.DFG.CA.GO COMMUNITIES. | A PLA DV/BIO | NTS IN '86 THA GEODATA/VEO | n in '83. I Gcamp/n | HYDROLOGY OF POOL ATURAL_COMM_BACK | - PROBABLY ALTERED B GROUND.ASP TO INTER | Y DISKING PRET AND | B. SEE DADDRESS THE PRESENCE | OF RARE |
| PLSS: T11S, R1 | 8E, Se | c. 16, SE (M) | | Accuracy: | specific area | | Area (acres): | 15 |
| UTM: Zone-10 I | N40958 | 505 E766555 | | Latitude/Longitude: | 36.96793 / -120.00583 | | Elevation (feet): | 290 |
| County Summary | : | | | Quad Summary: | | | | |
| Madera | | | | Madera (3612081) | | | | |
| Sources: | | | | | | | | |

STE86F0036 STEBBINS, J. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA & VERNAL POOL 1986-05-21



California Department of Fish and Wildlife

California Natural Diversity Database



| Map Index Number: | A2132 | | | EO Index: | | 103727 | | |
|--|------------------------------|------------------------|---|--|--|---------------------------|----------|--|
| Key Quad: | Madera (36 | 12081) | | Element Code: | | ICBRA03030 | | |
| Occurrence Number: | 902 | | | Occurrence Last U | odated: | 2016-10-13 | | |
| Scientific Name: B | ranchinecta ly | nchi | | Common Name: | vernal poo | ol fairy shrimp | | |
| Listing Status: | Federal | Threate | ned | Rare Plant Rank: | | | | |
| | State: | None | | Other Lists: | IUCN_VU | I-Vuinerable | | |
| CNDDB Element Rank | s: Global: | G3 | | | | | | |
| | State: | S3 | | | | | | |
| General Habitat: | | | | Micro Habitat: | | | | |
| ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS. | | | | AL INHABIT SMALL, CL AND GRASSED SW DEPRESSION POO | INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS. | | | |
| Last Date Observed: | 2016-02-11 | | | Occurrence Type: | Natural/N | Native occurrence | | |
| Last Survey Date: | 2016-02-11 | | | Occurrence Rank: | Poor | | | |
| Owner/Manager: | STATE-HS I | RAIL | | Trend: | Unknow | n | | |
| Presence: | Presumed E | xtant | | | | | | |
| Location: | | | | | | | | |
| ALONG RAILROAD TR | ACK, ABOUT | 0.2 MILES V | V OF ELLIS ST AT RD 2 | 8 1/2 & 1.1 MILES NE OF H | HWY 145 A | AT TOZER ST, MADERA. | | |
| Detailed Location: | | | | | | | | |
| MAPPED TO PROVIDE | D COORDIN/ | ATES. | | | | | | |
| Ecological: | | | | | | | | |
| SEASONAL POOL/DIR SPEED RAIL ALIGNME | T ROADSIDE INT, SITE IS F | PUDDLE AD PERMITTED | DJACENT TO RAILROAD BUT HAS NOT BEEN D | D RIGHT-OF-WAY IN RUR ISTURBED YET (2016). | AL RESIDI | ENTIAL AREA. WITHIN PLANN | IED HIGH | |
| Threats: | | | | | | | | |
| HIGH SPEED RAIL CO | NSTRUCTION | 4. | | | | | | |
| General: | | | | | | | | |
| THOUSANDS OBSERV | ED, DOZENS | OF ADULTS | S COLLECTED AND PO | SITIVELY IDENTIFIED ON | 27 JAN, 5 | FEB & 11 FEB 2016. | | |
| PLSS: T11S, R18E, S | Sec. 8, SW (M) | 1 | Accuracy: | 80 meters | | Area (acres): | 5 | |
| UTM: Zone-10 N409 | 7499 E764182 | 2 | Latitude/Longitude: | 36.98655 / -120.03176 | | Elevation (feet): | 292 | |
| County Summary: | | | Quad Summary: | | | | | |
| Madera | | | Madera (3612081) | | | | | |
| Sources: | | | | | | | | |

NEW16F0001 NEWMAN, D. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2016-02-11



California Department of Fish and Wildlife



| Map Index Number: | A6634 | | EO Index: | 108404 |
|--|---------------------------|--|---|---|
| Key Quad: | Madera (3612 | 2081) | Element Code: | ICBRA03030 |
| Occurrence Number: | 909 | | Occurrence Last U | pdated: 2017-10-18 |
| Scientific Name: Bi | ranchinecta lynd | chi | Common Name: | vernal pool fairy shrimp |
| Listing Status: | Federal: | Threatened | Rare Plant Rank: | |
| | State: | None | Other Lists: | IUCN_VU-Vulnerable |
| CNDDB Element Ranks | s: Global: | G3 | | |
| | State: | S3 | | |
| General Habitat: | | | Micro Habitat: | |
| ENDEMIC TO THE GRA COAST MOUNTAINS, A RAIN-FILLED POOLS. | ASSLANDS OF | THE CENTRAL VALLEY, CENTRA DAST MOUNTAINS, IN ASTATIC | L INHABIT SMALL, CI AND GRASSED SW DEPRESSION POO | LEAR-WATER SANDSTONE-DEPRESSION POOLS (ALE, EARTH SLUMP, OR BASALT-FLOW LS. |
| Last Date Observed: | 2017-02-26 | | Occurrence Type: | Natural/Native occurrence |
| Last Survey Date: | 2017-02-26 | | Occurrence Rank: | Fair |
| Owner/Manager: | PVT | | Trend: | Unknown |
| Presence: | Presumed Ext | ant | | |
| Location: | | | | |
| SOUTH SIDE OF AVEN | UE 17 ABOUT | 0.3 TO 0.4 MILES EAST OF N LAK | E ST, N OF MADERA. | |
| Detailed Location: | | | | |
| MAPPED TO PROVIDE | D COORDINAT | ES. | | |
| Ecological: | | | | |
| TWO BASINS BETWEE MAY IMPACT AREA. B. | N ROWS OF A MESOVALLEN | N INACTIVE VINEYARD IN AGRIC | ULTURAL AREA. RAILRO | AD TRACKS NEARBY; HIGH SPEED RAIL PROJECT |
| Threats: | | | | |
| DEVELOPMENT, CONS | STRUCTION AC | TIVITIES, OR REACTIVATION OF | VINEYARD. | |
| General: | | | | |
| 1 ADULT OBSERVED II VS. B. MESOVALLENS | N E POOL, 1 IN IS. | W POOL ON 26 FEB 2017, 100S-1 | 000S OF NAUPLII PRESI | ENT, UNKNOWN WHAT PERCENT WERE B. LYNCHI |
| PLSS: T11S, R18E, S | ec. 7, NW (M) | Accuracy: | specific area | Area (acres): 10 |
| UTM: Zone-10 N4098 | 3506 E762589 | Latitude/Longitude: | 36.99606 / -120.04928 | Elevation (feet): 294 |
| County Summary: Quad Summary: | | | | |
| Madera | | Madera (3612081) | | |
| Sources: | | | | |
| STO17F0004 STOL | PE, R. ET AL | FIELD SURVEY FORM FOR BRAN | CHINECTA LYNCHI 2017 | 7-02-26 |
| STO17F0005 STOL | PE, R. ET AL | FIELD SURVEY FORM FOR BRAN | NCHINECTA LYNCHI 2017 | 7-02-26 |



Occurrence Report California Department of Fish and Wildlife



| Map Index Number: Key Quad: | A6634 Madera (36120 | 81) | EO Index: Element Code: | | 108403 ICBRA03150 | | |
|---|-------------------------------|--------------------------------------|----------------------------|-----------|----------------------------|-------------|--|
| Occurrence Number: | 137 | | Occurrence Last Up | dated: | 2017-10-02 | | |
| Scientific Name: Bra | anchinecta meso | vallensis | Common Name: | midvalley | fairy shrimp | | |
| Listing Status: | Federal: | None | Rare Plant Rank: | | | | |
| | State: | None | Other Lists: | | | | |
| CNDDB Element Ranks | : Global: | G2 | | | | | |
| | State: | S2S3 | | | | | |
| General Habitat: | | | Micro Habitat: | | | | |
| VERNAL POOLS IN THE | CENTRAL VAL | LEY. | | | | | |
| Last Date Observed: | 2017-02-26 | | Occurrence Type: | Natural/N | lative occurrence | | |
| Last Survey Date: | 2017-02-26 | | Occurrence Rank: | Fair | | | |
| Owner/Manager: | PVT | | Trend: | Unknown | 1 | | |
| Presence: | Presumed Extar | ıt | | | | | |
| Location: | | | | | | | |
| SOUTH SIDE OF AVENU | JE 17 ABOUT 0. | 3 TO 0.4 MILES EAST OF N LAKE | ST, N OF MADERA. | | | | |
| Detailed Location: | | | | | | | |
| MAPPED TO PROVIDED | COORDINATE | S. | | | | | |
| Ecological: | | | | | | | |
| TWO BASINS BETWEEN MAY IMPACT AREA. B. I | N ROWS OF AN LYNCHI ALSO F | INACTIVE VINEYARD IN AGRICU OUND. | LTURAL AREA. RAILROA | AD TRACK | (S NEARBY; HIGH SPEED RAIL | PROJECT | |
| Threats: | | | | | | | |
| DEVELOPMENT, CONST | TRUCTION ACT | IVITIES, OR REACTIVATION OF V | INEYARD. | | | | |
| General: | | | | | | | |
| 7 ADULTS OBSERVED I VS. B. MESOVALLENSIS | N W POOL, 3 IN S. | E POOL ON 26 FEB 2017. 100S-1 | 000S OF NAUPLII PRES | ENT, UNK | NOWN WHAT PERCENT WER | E B. LYNCHI | |
| PLSS: T11S, R18E, Se | c. 7, NW (M) | Accuracy: | specific area | | Area (acres): | 10 | |
| UTM: Zone-10 N4098 | 506 E762589 | Latitude/Longitude: | 36.99606 / -120.04928 | | Elevation (feet): | 294 | |
| County Summary: | | Quad Summary: | | | | | |
| Madera | | Madera (3612081) | | | | | |
| Sources: | | | | | | | |
| STO17F0006 STOLF | PE, R. ET AL F | IELD SURVEY FORM FOR BRANC | CHINECTA MESOVALLE | NSIS 2017 | /-02-26 | | |
| STO17F0007 STOLF | PERETAL - F | IELD SURVEY FORM FOR BRAN | CHINECTA MESOVALLE | NSIS 2017 | -02-26 | | |



California Department of Fish and Wildlife

California Natural Diversity Database



| Map Index Number: | 30806 | | | EO Index: | | 64457 | |
|--|-----------------------------|----------|---------------------|-----------------------|-----------|------------------------|-----------|
| Key Quad: | Madera (3612 | 2081) | | Element Code: | | IICOL4C030 | |
| Occurrence Number: | 6 | | | Occurrence Last U | odated: | 2006-03-30 | |
| Scientific Name: Ly | rtta molesta | | | Common Name: | molestan | blister beetle | |
| Listing Status: | Federal: | None | | Rare Plant Rank: | | | |
| | State: | None | | Other Lists: | | | |
| CNDDB Element Ranks | : Global: | G2 | | | | | |
| | State: | S2 | | | | | |
| General Habitat: | | | | Micro Habitat: | | | |
| INHABITS THE CENTRA COSTA TO KERN AND | AL VALLEY OF TULARE COUN | CALIFORI | NIA, FROM CONTRA | | | | |
| Last Date Observed: | 19XX-XX-XX | | | Occurrence Type: | Natural/N | lative occurrence | |
| Last Survey Date: | 19XX-XX-XX | | | Occurrence Rank: | Unknowr | 1 | |
| Owner/Manager: | UNKNOWN | | | Trend: | Unknowr | 1 | |
| Presence: | Possibly Extirp | ated | | | | | |
| Location: | | | | | | | |
| MADERA. | | | | | | | |
| Detailed Location: | | | | | | | |
| Ecological: | | | | | | | |
| Threats: | | | | | | | |
| General: | | | | | | | |
| LOCALITY FROM CALIF | FORNIA BEETL | E PROJEC | CT ONLINE DATABASE; | COLLECTION INFORMA | FION NOT | GIVEN. HISTORICAL RECO | RD; EXACT |
| PLSS: T11S, R17E, Se | ec. 24 (M) | | Accuracy: | 1 mile | | Area (acres): | 0 |
| UTM: Zone-10 N4094 | 507 E761603 | | Latitude/Longitude: | 36.96034 / -120.06173 | | Elevation (feet): | 270 |
| County Summary: | | | Quad Summary: | | | | |
| Madera | | | Madera (3612081) | | | | |
| Sources: | | | | | | | |

CBP06U0001 CALIFORNIA BEETLE PROJECT (SBMNH) - ONLINE DATABASE RECORDS FOR LYTTA MOESTA. 2006-03-27



California Department of Fish and Wildlife



| Map Index Number: Key Quad: | 30806 Madera (36120 | 81) | EO Index: Element Code: | | 20975 PDPLM09130 | | |
|--------------------------------|------------------------|------------------------------|--------------------------------|---|---------------------|-----|--|
| Occurrence Number: | 10 | | Occurrence Last U | odated: | 2009-04-16 | | |
| Scientific Name: Le | ptosiphon serrula | atus | Common Name: | Madera le | ptosiphon | | |
| Listing Status: | Federal: | None | Rare Plant Rank: | 1B.2 | | | |
| | State: | None | Other Lists: | USFS_S-S | Sensitive | | |
| CNDDB Element Ranks | : Global: | G3 | | | | | |
| | State: | S3 | | | | | |
| General Habitat: | | | Micro Habitat: | | | | |
| CISMONTANE WOODLA | AND, LOWER MO | ONTANE CONIFEROUS FOREST | DRY SLOPES; OFT 300-1300 M. | DRY SLOPES; OFTEN ON DECOMPOSED GRANITE IN WOODLAND. 300-1300 M. | | | |
| Last Date Observed: | 1889-05-XX | | Occurrence Type: | Natural/N | lative occurrence | | |
| Last Survey Date: | 1889-05-XX | | Occurrence Rank: | Unknown | 1 | | |
| Owner/Manager: | UNKNOWN | | Trend: | Unknown | 1 | | |
| Presence: | Presumed Extar | nt | | | | | |
| Location: | | | | | | | |
| NEAR MADERA. | | | | | | | |
| Detailed Location: | | | | | | | |
| MAPPED AT CNDDB IN | VICINITY OF TH | E COMMUNITY OF MADERA. | | | | | |
| Ecological: | | | | | | | |
| Threats: | | | | | | | |
| General: | | | | | | | |
| ONLY SOURCE OF INFO | ORMATION FOR | THIS SITE IS AN 1889 COLLECT | TION BY BUCKMINSTER. | NEEDS F | IELDWORK. | | |
| PLSS: T11S, R17E, Se | ec. 24 (M) | Accuracy: | 1 mile | | Area (acres): | 0 | |
| UTM: Zone-10 N4094 | 507 E761603 | Latitude/Longitude: | 36.96034 / -120.06173 | | Elevation (feet): | 270 | |
| County Summary: | Quad Summary: | | | | | | |
| Madera | | Madera (3612081) | | | | | |
| Sources: | | | | | | | |
| BUC89S0001 BUCK | MINSTER, P B | UCKMINSTER SN UC #84340 JEI | PS #89130 1889-05-XX | | | | |



California Department of Fish and Wildlife



| Map Index Numbo Key Quad: Occurrence Num | er: 14329 EO Index: Madera (3612081) Element Code: Der: 15 Occurrence Last Updated | | | | odated: | 22325 PMPOA4G 1995-07-27 | 6040 1 | | | |
|--|--|--------------------------------|------------------------|---------------------------------------|---------------------------|--------------------------------|------------|---------------|-------------------|-----------|
| Scientific Name: | Orc | uttia pilosa | | | Commo | n Name: | hairy Orcu | itt grass | | |
| Listing Status: | | Federal: | Endangere | d | Rare Pla | ant Rank: | 1B.1 | | | |
| | | State: | Endangere | d | Other Li | sts: | | | | |
| CNDDB Element | Ranks: | Global: | G1 | | | | | | | |
| | | State: | S1 | | | | | | | |
| General Habitat: | | | | | Micro Ha | abitat: | | | | |
| VERNAL POOLS. | | | | | 25-125 N | И. | | | | |
| Last Date Observ | red: 1 | 941-05-31 | | | Occurre | ence Type: | Natural/N | lative occurr | rence | |
| Last Survey Date | : 1 | 987-06-02 | | | Occurre | nce Rank: | None | | | |
| Owner/Manager: | F | vvт | | | Trend: | | Unknown | Ľ | | |
| Presence: | E | Extirpated | | | | | | | | |
| Location: | | | | | | | | | | |
| 4 MILES EAST OF | MADE | RA. | | | | | | | | |
| Detailed Location | 1: | | | | | | | | | |
| MAPPED ALONG SITE. AREA NEAF | HIGHW R HIGH\ | AY 145. COLLI NAY 145 AND I | ECTION MA ROADS 300 | DE "3 MILES OUT OI AND 400 SEARCHE | F MADERA ON D IN 1981. | THE NORT | HFORK R | OAD" ARE / | ALSO ATTRIBUTE | D TO THIS |
| Ecological: | | | | | | | | | | |
| Threats: | | | | | | | | | | |
| DEVELOPMENT, | SMALL | HORSE PASTI | JRES, ORC | HARDS, ROADS, ET | C. | | | | | |
| General: | | | | | | | | | | |
| AREA SEARCHED | D IN 198 | 1 & 1987 BUT | NO SUITAB | LE HABITAT REMAIN | NS; SITE EXTIF | RPATED. IN | CLUDES F | FORMER O | CCURRENCE #14. | |
| PLSS: T11S, R1 | 8E, Sec | . 09, NE (M) | A | ccuracy: | 1/5 mile | | | | Area (acres): | 0 |
| UTM: Zone-10 | N40982 | 88 E766503 | Li | atitude/Longitude: | 36,99300 / -12 | 20.00543 | | | Elevation (feet): | 300 |
| County Summary | : | | Q | uad Summary: | | | | | | |
| Madera | | | M | adera (3612081) | | | | | | |
| Sources: | | | | | | | | | | |
| BIO88R0001 | BIOSYS | TEMS ANALYS | SIS, INC S CALIFORN | TATUS SURVEY OF IA 1988-09-XX | THE GRASS | TRIBE ORC | UTTIEAE A | ND CHAMA | AESYCE HOOVER | I IN THE |
| HAR81F0018 | HARRIS | ON, S. & J. FE | RREIRA - F | | I FOR ORCUT | TIA PILOSA | 1981-06-0 |)3 | | |
| HOO41S0001 | HOOVE | R, R HOOVE | R #5284 UC | #766715, DS #3292 | 19, CAS-BOT-I | BC #254319 | , UTC #000 | 079793, SEI | INET #196301 194 | 1-05-31 |
| WAG38S0001 | WAGNO | DN, K WAGN | ON SN UC 1 | 938-07-18 | | | | | | |



California Department of Fish and Wildlife



| Map Index Numbe | er: 14 | 4334 | | | EO Index: | | 25989 | |
|----------------------------------|---------------------|-----------------------------|------------------------|---|---|------------------------|-----------------------------|--------------|
| Key Quad: | M | ladera (36120 | 081) | | Element Code: | | PMPOA4G040 | |
| Occurrence Num | b er: 19 | 9 | | | Occurrence Last U | pdated: | 2013-04-24 | |
| Scientific Name: | Orcut | tia pilosa | | | Common Name: | hairy Orcu | tt grass | |
| Listing Status: | | Federal: | Endanger | ed | Rare Plant Rank: | 1B.1 | | |
| | | State: | Endangere | ed | Other Lists: | | | |
| CNDDB Element | Ranks: | Global: | G1 | | | | | |
| | | State: | S1 | | | | | |
| General Habitat: | | | | | Micro Habitat: | | | |
| VERNAL POOLS. | | | | | 25-125 M. | | | |
| Last Date Observ | ed: 19 | 86-05-21 | | | Occurrence Type: | Natural/N | ative occurrence | |
| Last Survey Date | : 20 | 10-08-08 | | | Occurrence Rank: | None | | |
| Owner/Manager: | PV | /Т | | | Trend: | Decreasin | ng | |
| Presence: | Po | ssibly Extirpa | ated | | | | | |
| Location: | | | | | | | | |
| 0.5-0.9 MILE EAS | T OF SAN | ITA FE RAILF | ROAD TRAC | CKS, ON BOTH SIDES | S OF AVENUE 15, EAST C | OF MADERA | Α. | |
| Detailed Location | : | | | | | | | |
| POOLS ON THE S | SOUTH SI ON 21. | IDE OF AVEN | NUE 15 ARE | E IN BARLEY. MAPPE | D WITHIN THE SE 1/4 OF | THE SE 1/ | 4 OF SECTION 16 AND THE N | 1/4 OF THE |
| Ecological: | | | | | | | | |
| REMNANT VERNA VASEYI, LYTHRU | AL POOLS M HYSSO | S ON CLAY S OPIFOLIA, AN | SOIL, WITH | IN REMNANT GRASS ARPHUS BREVISSUN | LAND. ASSOCIATED WIT IUS. | H DOWNIN | IGIA, PHALARIS PARADOXA, | ERYNGIUM |
| Threats: | | | | | | | | |
| 2010: N SIDE OF | ROAD IS | ORCHARD; I | POOLS AV | DIDED, BUT VERY W | EEDY. S POLY REPEATE | DLY PLOW | ED, NO VERNAL FEATURES | EVIDENT. |
| General: | | | | | | | | |
| POPULATION OF AND 1986, NO PL | OVER 10 ANTS FO | 000 PLANTS OUND IN 2010 | IN LESS TH). | IAN ONE HECTARE I | N 1982. 3 PLANTS OBSEF | RVED IN 19 | 86. SITE QUALITY MARGINAI | - IN 1983 |
| PLSS: T11S, R1 | 8E, Sec. | 16, SE (M) | A | Accuracy: | specific area | | Area (acres): | 15 |
| UTM: Zone-10 | N4095505 | 5 E766555 | L | atitude/Longitude: | 36.96793 / -120.00583 | | Elevation (feet): | 360 |
| County Summary | : | | c | Quad Summary: | | | | |
| Madera | | | N | Madera (3612081) | | | | |
| Sources: | | | | | | | | |
| BIO88R0001 | BIOSYST CENTRAI | EMS ANALY | SIS, INC : CALIFORI | STATUS SURVEY OF NIA 1988-09-XX | THE GRASS TRIBE ORC | UTTIEAE A | ND CHAMAESYCE HOOVER | IN THE |
| STE82F0002 | STEBBIN | S, J FIELD | SURVEY F | ORM FOR ORCUTTIA | A PILOSA 1982-06-07 | | | |
| STE82S0001 | STEBBIN | S, J.C STE | BBINS #822 | 255 JEPS #81203, UC | #1266959, CHSC #37334 | , MO #2600 | 0138, SEINET #10592188 1982 | -06-07 |
| STE83U0003 | STEBBIN | S, J ELEME | ENT OCCU | RRENCE EVALUATIC | IN FORM FOR ORCUTTIA | PILOSA 19 | 983-06-16 | |
| STE86F0007 | STEBBIN | S, J FIELD | SURVEY F | ORM FOR ORCUTTIA | A PILOSA 1986-05-21 | | | |
| WIT13R0001 | WITHAM, SACRAM | C STATUS | S SURVEYS | S FOR SEVEN FEDER JIN VALLEYS (GREAT | ALLY LISTED VERNAL PO VALLEY), CALIFORNIA, | OOL GRAS USA 2013-(| SES AND CHAMAESYCE HO | OVERI IN THE |



Occurrence Report California Department of Fish and Wildlife California Natural Diversity Database



| - | | _ | | | | | | | | |
|--|---|--|---|-----------------|-----------------------------------|-----------------------|---------------------------------|-------------------|-------|--|
| Map in | dex Numb | er: | B0724 | | | EO Index: | | 112592 | | |
| Key Qı | uad: | | Madera (3612 | 081) | | Element Code: | | PMPOA4G040 | | |
| Occurrence Number | | ber: 49 | | | | Occurrence Last U | pdated: | 2018-09-18 | | |
| Scientific Name: Orcuttia pilosa | | | | | | Common Name: | Common Name: hairy Orcutt grass | | | |
| Listing | Status: | | Federal: | Endange | red | Rare Plant Rank: | 1B.1 | | | |
| | | | State: | Endange | red | Other Lists: | | | | |
| CNDD | B Element | Ranks: | Global: | G1 | | | | | | |
| | | | State: | S 1 | | | | | | |
| Genera | al Habitat: | | | | | Micro Habitat: | | | | |
| VERNA | AL POOLS. | | | | | 25-125 M. | | | | |
| Last Date Observed: | | | 2017-06-20 | | | Occurrence Type: | Natural/N | lative occurrence | | |
| Last S | urvey Date | : 2 | 2017-06-20 | | | Occurrence Rank: | Good | | | |
| Owner | /Manager: | I | PVT | | | Trend: | Unknowr | 1 | | |
| Preser | ice: | I | Presumed Exta | int | | | | | | |
| Locatio | on: | | | | | | | | | |
| ALONG BOTH SIDES OF BNSF RAILWAY BETWEEN AVE 15 AND COTTONWOOD CREEK, EAST OF MADERA. | | | | | | | | | | |
| Detailed Location: | | | | | | | | | | |
| 4 POLYGONS MAPPED ACCORDING TO 2016 HERMANSEN COORDINATES, 2016 DE GROOT COORDINATES, AND 2017 TOEWS COORDINATES, IN THE EAST 1/2 OF SECTION 21 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 27. | | | | | | | | | | |
| Ecological: | | | | | | | | | | |
| DEPRESSIONAL FEATURES WITHIN CULTIVATED GRAIN FIELDS, VERNAL POOLS. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, TYPHA ANGUSTIFOLIA, DOWNINGIA BICORNUTA, SAGITTARIA LATIFOLIA, PLAGIOBOTHRYS SP., ERYNGIUM VASEYI, POLYGONUM AVICULARE. ETC. | | | | | | | | | | |
| Threats: | | | | | | | | | | |
| CULTIVATION/AGRICULTURE, MECHANICAL DAMAGE FROM DISKING, CONSTRUCTION. PORTIONS TO BE DESTROYED BY HIGH SPEED RAIL. | | | | | | | | | | |
| General: | | | | | | | | | | |
| 2016: 11 PLANTS SEEN IN 2ND N-MOST POLYGON, 5 PLANTS IN 2ND S-MOST POLYGON, ~11 PLANTS IN S-MOST POLYGON. >100,000 PLANTS ESTIMATED IN N-MOST POLYGON FROM A 2017 WINDSHIELD SURVEY. 2010 WINCHELL PHOTOS ATTRIBUTED TO THIS SITE. | | | | | | | | | | |
| PLSS: | PLSS: T11S, R18E, Sec. 21, E (M) | | | | Accuracy: | specific area | | Area (acres): | 8 | |
| UTM: | Zone-10 | 0 N4093920 E766981 | | | Latitude/Longitude: | 36.95354 / -120.00161 | | Elevation (feet) | : 290 | |
| County Summary: | | | | | Quad Summary: | | | | | |
| Madera | | | | | Gregg (3611988), Madera (3612081) | | | | | |
| Source | es: | | | | | | | | | |
| DEG16 | 6F0006 | 3 DE GROOT, S FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-09-08 | | | | | | | | |
| DEG16 | DEG16F0007 DE GROOT, S FIELD SURVEY FORM FOR OF | | | FORM FOR ORCUTT | TIA PILOSA 2016-09-08 | | | | | |
| DEG16S0006 | | DE GROOT, S. ET AL DE GROOT #8001 RSA #0118076 2016-09-08 | | | | | | | | |
| DEG16S0007 | | DE GROOT, S. ET AL DE GROOT #8000 RSA #0118077 2016-09-08 | | | | | | | | |
| HER16F0001 | | HERMANSEN, T FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-05-23 | | | | | | | | |
| HER16F0002 | | HERMANSEN, T FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-05-23 | | | | | | | | |
| HER16 | HER16F0003 | | HERMANSEN, T FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-05-23 | | | | | | | |
| TOE17 | F0018 | TOEWS, D FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2017-06-20 | | | | | | | | |
| WIN10 | 10025 | WINCHELL, C PHOTOS OF ORCUTTIA PILOSA, CALPHOTOS ID: 0000 0000 0910 2233, 2235-2241 2010-09-30 | | | | | | | | |

APPENDIX 4

Class 1 Archival Review

AB 32 Consultation Letters



Date: May 21, 2019

Dumna Wo-Wah Tribal Goverment Robert Ledger Sr., Chairperson 2191 West Pico Ave. Fresno ,CA 93705

Subject: Invitation to Begin Informal CEQA Tribal Consultation (AB52) for the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

Dear Mr.Ledger,

The County of Madera (County) Maintenance District No. 19A and 19B Parkwood (MD 19) intends to improve to construct a water well within Parkwood Park, near the intersection of San Bruno Avenue and Watt Street. The well site is located on APN 047-364-011, owned by Madera County. The direct area of project effects (Direct APE) covers approximately 0.7 acres in the eastern half of the parcel

On April 26, 2019, GBCG submitted a data request to the Southern San Joaquin Valley Information Center (SSJVIC), California State University, Bakersfield under Permit #281. The record search extent covered a ¹/₂ mile radius surrounding the well parcel. No Archaeological resources occur within the project parcel. Two historic archaeological resources lie within ¹/₂ mile of the project area.

The purpose of this letter is to initiate informal consultation on the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

The proposed project is located in Madera County, California and is confined to a ¹/₄ acre portion of APN 047-364-011. The project area is located in Township 11 South, Range 18 East, Section 31 of the Madera, 7.5' USGS topographic quadrangle map. Attached to this letter are two (2) maps showing the project location.

The Madera County Maintenance District understands the possibility that there may be resources of concern to the Dumna Wo-Wah within the initial study area for this project. It is Madera County Maintenance District s goal to avoid cultural resources if possible, so your assistance on this matter would be most welcome.





To complete environmental studies, the Madera County Maintenance District, through its engineering consultant, Wood Rodgers, Inc, will be hiring consultants to conduct studies and perform consultation, as well as prepare required documents. Michael Drews, archaeologist with Great Basin Consulting Group, LLC, a consultant under contract with Wood Rodgers, Inc., will be contacting you to consult on this project on behalf of the Madera County Maintenance District. Specifically, what we want to know from you is:

- 1. Are you aware of any culturally sensitive locations at or near the project location?
- 2. Do you have any concerns regarding the proposed project?
- 3. Do you need further information on the project?
- 4. Are there any others you would suggest that should be consulted on this project?
- 5. Would the Tribe rather consult directly with the State Department of Water Resources, or is it acceptable to work with the consultant and/or the Madera County Maintenance District?

Your interest and participation are invaluable to the process. Madera County Maintenance District wants to ensure that the Tribe's concerns are treated with respect and are addressed.

If you have any questions or concerns about this project you can contact Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District (aalkhayyat@madera.gov or 559-675-7811 or Michael Drews, Great Basin Group, LLC (mdrews@greatbasingroup.com or 775-560-5074).

Sincerely,

Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District

Attached: Topographic and Project Location maps indicating project location (2 Pages) Class I Archival Review SSJVIC Record Search Results





Date: May 21, 2019

North Valley Yokuts Tribe Katherine Erolinda Perez, Chairperson P.O. Box 717 Linden ,CA 95236

Subject: Invitation to Begin Informal CEQA Tribal Consultation (AB52) for the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

Dear Ms. Erolinda Perez,

The County of Madera (County) Maintenance District No. 19A and 19B Parkwood (MD 19) intends to improve to construct a water well within Parkwood Park, near the intersection of San Bruno Avenue and Watt Street. The well site is located on APN 047-364-011, owned by Madera County. The direct area of project effects (Direct APE) covers approximately 0.7 acres in the eastern half of the parcel

On April 26, 2019, GBCG submitted a data request to the Southern San Joaquin Valley Information Center (SSJVIC), California State University, Bakersfield under Permit #281. The record search extent covered a ¹/₂ mile radius surrounding the well parcel. No Archaeological resources occur within the project parcel. Two historic archaeological resources lie within ¹/₂ mile of the project area.

The purpose of this letter is to initiate informal consultation on the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

The proposed project is located in Madera County, California and is confined to a ¹/₄ acre portion of APN 047-364-011. The project area is located in Township 11 South, Range 18 East, Section 31 of the Madera, 7.5' USGS topographic quadrangle map. Attached to this letter are two (2) maps showing the project location.

The Madera County Maintenance District understands the possibility that there may be resources of concern to the North Valley Yokuts within the initial study area for this project. It is Madera County Maintenance District s goal to avoid cultural resources if possible, so your assistance on this matter would be most welcome.





To complete environmental studies, the Madera County Maintenance District, through its engineering consultant, Wood Rodgers, Inc, will be hiring consultants to conduct studies and perform consultation, as well as prepare required documents. Michael Drews, archaeologist with Great Basin Consulting Group, LLC, a consultant under contract with Wood Rodgers, Inc., will be contacting you to consult on this project on behalf of the Madera County Maintenance District. Specifically, what we want to know from you is:

- 1. Are you aware of any culturally sensitive locations at or near the project location?
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Your interest and participation are invaluable to the process. Madera County Maintenance District wants to ensure that the Tribe's concerns are treated with respect and are addressed.

If you have any questions or concerns about this project you can contact Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District <u>(aalkhayyat@madera.gov</u> or 559-675-7811 or Michael Drews, Great Basin Group, LLC (<u>mdrews@greatbasingroup.com</u> or 775-560-5074).

Sincerely,

Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District

Attached: Topographic and Project Location maps indicating project location (2 Pages) Class I Archival Review SSJVIC Record Search Results





Date: May 21, 2019

Southern Sierra Miwuk Nation William Leonard, Chairperson P.O. Box 186 Mariposa, CA 95338

Subject: Invitation to Begin Informal CEQA Tribal Consultation (AB52) for the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

Dear Mr. Leonard,

The County of Madera (County) Maintenance District No. 19A and 19B Parkwood (MD 19) intends to improve to construct a water well within Parkwood Park, near the intersection of San Bruno Avenue and Watt Street. The well site is located on APN 047-364-011, owned by Madera County. The direct area of project effects (Direct APE) covers approximately 0.7 acres in the eastern half of the parcel

On April 26, 2019, GBCG submitted a data request to the Southern San Joaquin Valley Information Center (SSJVIC), California State University, Bakersfield under Permit #281. The record search extent covered a ¹/₂ mile radius surrounding the well parcel. No Archaeological resources occur within the project parcel. Two historic archaeological resources lie within ¹/₂ mile of the project area.

The purpose of this letter is to initiate informal consultation on the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

The proposed project is located in Madera County, California and is confined to a ¹/₄ acre portion of APN 047-364-011. The project area is located in Township 11 South, Range 18 East, Section 31 of the Madera, 7.5' USGS topographic quadrangle map. Attached to this letter are two (2) maps showing the project location.

The Madera County Maintenance District understands the possibility that there may be resources of concern to the Southern Sierra Miwuk Nation within the initial study area for this project. It is Madera County Maintenance District s goal to avoid cultural resources if possible, so your assistance on this matter would be most welcome.





To complete environmental studies, the Madera County Maintenance District, through its engineering consultant, Wood Rodgers, Inc, will be hiring consultants to conduct studies and perform consultation, as well as prepare required documents. Michael Drews, archaeologist with Great Basin Consulting Group, LLC, a consultant under contract with Wood Rodgers, Inc., will be contacting you to consult on this project on behalf of the Madera County Maintenance District. Specifically, what we want to know from you is:

- 1. Are you aware of any culturally sensitive locations at or near the project location?
- 2. Do you have any concerns regarding the proposed project?
- 3. Do you need further information on the project?
- 4. Are there any others you would suggest that should be consulted on this project?
- 5. Would the Tribe rather consult directly with the State Department of Water Resources, or is it acceptable to work with the consultant and/or the Madera County Maintenance District?

Your interest and participation are invaluable to the process. Madera County Maintenance District wants to ensure that the Tribe's concerns are treated with respect and are addressed.

If you have any questions or concerns about this project you can contact Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District <u>(aalkhayyat@madera.gov</u> or 559-675-7811 or Michael Drews, Great Basin Group, LLC (<u>mdrews@greatbasingroup.com</u> or 775-560-5074).

Sincerely,

Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District

Attached: Topographic and Project Location maps indicating project location (2 Pages) Class I Archival Review SSJVIC Record Search Results




Date: May 21, 2019

Wuksache Indian Tribe/Eshom Valley Band Kenneth Woodrow, Chairperson William Leonard, Chairperson 1179 Rock Haven Ct. Salinas, CA 93906

Subject: Invitation to Begin Informal CEQA Tribal Consultation (AB52) for the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

Dear Mr. Woodrow,

The County of Madera (County) Maintenance District No. 19A and 19B Parkwood (MD 19) intends to improve to construct a water well within Parkwood Park, near the intersection of San Bruno Avenue and Watt Street. The well site is located on APN 047-364-011, owned by Madera County. The direct area of project effects (Direct APE) covers approximately 0.7 acres in the eastern half of the parcel

On April 26, 2019, GBCG submitted a data request to the Southern San Joaquin Valley Information Center (SSJVIC), California State University, Bakersfield under Permit #281. The record search extent covered a ¹/₂ mile radius surrounding the well parcel. No Archaeological resources occur within the project parcel. Two historic archaeological resources lie within ¹/₂ mile of the project area.

The purpose of this letter is to initiate informal consultation on the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System Improvements Project, Madera, California.

The proposed project is located in Madera County, California and is confined to a ¹/₄ acre portion of APN 047-364-011. The project area is located in Township 11 South, Range 18 East, Section 31 of the Madera, 7.5' USGS topographic quadrangle map. Attached to this letter are two (2) maps showing the project location.

The Madera County Maintenance District understands the possibility that there may be resources of concern to the Wuksache Indian Tribe/Eshom Valley Band within the initial study area for this project. It is Madera County Maintenance District s goal to avoid cultural resources if possible, so your assistance on this matter would be most welcome.





To complete environmental studies, the Madera County Maintenance District, through its engineering consultant, Wood Rodgers, Inc, will be hiring consultants to conduct studies and perform consultation, as well as prepare required documents. Michael Drews, archaeologist with Great Basin Consulting Group, LLC, a consultant under contract with Wood Rodgers, Inc., will be contacting you to consult on this project on behalf of the Madera County Maintenance District. Specifically, what we want to know from you is:

- 1. Are you aware of any culturally sensitive locations at or near the project location?
- 2. Do you have any concerns regarding the proposed project?
- 3. Do you need further information on the project?
- 4. Are there any others you would suggest that should be consulted on this project?
- 5. Would the Tribe rather consult directly with the State Department of Water Resources, or is it acceptable to work with the consultant and/or the Madera County Maintenance District?

Your interest and participation are invaluable to the process. Madera County Maintenance District wants to ensure that the Tribe's concerns are treated with respect and are addressed.

If you have any questions or concerns about this project you can contact Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District <u>(aalkhayyat@madera.gov</u> or 559-675-7811 or Michael Drews, Great Basin Group, LLC (<u>mdrews@greatbasingroup.com</u> or 775-560-5074).

Sincerely,

Ahmad Alkhayyat, Public Works Director, Madera County Maintenance District

Attached: Topographic and Project Location maps indicating project location (2 Pages) Class I Archival Review SSJVIC Record Search Results



A Class I Archival Review for the Proposed Parkwood County Maintenance District 19 A&B Water System project, Madera, California.

Prepared by Michael Drews Great Basin Consulting Group, LLC

> Prepared For Wood Rodgers, Inc 1361 Corporate Blvd Reno, Nevada 89502

Madera County Public Works 200 W. 4th Street, 3rd Floor Madera, CA 93637

May 19, 2019



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Administrative Summary

Great Basin Consulting Group, LLC conducted a Class I archival review of the proposed Parkwood CMD (County Maintenance District) 19 A&B Water System project, Madera, California. in compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (1966). The Proposed Project is located within Madera County, near the city limits of Madera. The proposed production well site is located within Parkwood Park, near the intersection of San Bruno Avenue and Watt Street. The well site is located on APN 047-364-011, owned by Madera County.

The direct area of project effects (Direct APE) covers approximately 0.7 acres in the eastern half of the parcel. The site is currently developed and includes and existing offline well (MD 19 Well 4) and associated structures. Several above grade and below grade improvements including concrete pads, piping and wiring are proposed.

The Class 1 Archival review indicates no previous cultural resources inventories have been conducted within the project parcel and no cultural resources have been identified within the previously developed project area. Existing site conditions and the archival review resulted in a finding of No Historic Properties Affected as defined in 36 CFR 800.4 (d)(1)).

Project Number: 2019-104 Date of Archival Review: April 26, 2019

Organization/Field Personnel: Michael Drews (Project Archaeologist)

County: Madera County, California Legal Description: Section 31, T.11S. R.18E. MDMB

Ownership: Private (APN 047-364-011) Study Area: 0.70acres

Map Reference: Madera, CA NV USGS 7.5 Minute Series 1978 (1982)

Introduction

Wood Rodgers, Inc. contacted with Great Basin Consulting Group, LLC (GBCG) to provide a Class I archival review to identify know cultural resources in the vicinity of the Parkwood CMD (County Maintenance District) 19 A&B Water System project, Madera, California. in compliance with the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (1966). The Proposed Project is located within Madera County, near the city limits of Madera. The proposed production well site is located within Parkwood Park, near the intersection of San Bruno Avenue and Watt Street. The well site is located on APN 047-364-011, owned by Madera County. The direct area of project effects (Direct APE) covers approximately 0.7 acres in the eastern half of the parcel. Topography within the MD 19 is generally flat, with the ground surface sloping from northeast to southwest with approximate elevations of 270 feet above mean sea level (msl) to 260 feet msl (Figure 1 and Figure 2).

Project Description

This eastern section of the parcel contains a portion of Parkwood Park, a public park maintained by Madera County with a basketball court, a playground, sidewalks and other park related amenities. The western section of the parcel is a fenced drainage area. Residential areas surround the park on each side. An existing, offline well is located on the eastern area of the parcel. This well is offline due to excessive sand production that is intended to be remedied with this project. Most parts of this existing well will be repurposed for the new production well except for some associated piping, appurtenances and sand separator that will be demolished. Associated items to be retained from this well include a hydropneumatic tank, an electrical panel, a booster pump station, monitoring wells and a water storage tank.

Above Grade Infrastructure Design

The design includes a 5-foot square concrete well pedestal, sole plate, base plate, discharge head, pump, motor, 360 feet of column pipe, and extension of the 3-inch gravel fill tube, and 2-inch sounding tubes. The discharge head will be connected to a restrained flanged coupling adapter which connects the discharge head to the discharge piping then a 3 ft. 9-inch spool piece which has



Figure 1. Project Location



Figure 2. Project Area

a pressure switch (or transmitter) and pressure gage and air vacuum/air release valve connections. The spool piece is supported by a pipe support and connects to an 8-inch x 4-inch x 8-inch tee for pump to waste. The pump to waste 8-inch x 4-inch tee consists of the 8-inch flow thru dimension and a 4-inch connection for the pump to waste. The 4-inch pump to waste tee connects to manually operated gate valve, and a 4-inch blind flange. The 8-inch flow-thru end connects to an 8-inch swing check valve, 8-inch dismantling joint and then to a 1 ft. 6-inch pipe spool supported by a pipe support.

The pipe spool connects to a manually operated 8-inch gate valve which is attached to an 8-inch 90degree elbow and then a 4 ft. – 9-inch pipe that goes below the 6-inch concrete base slab about 2 feet below the 90-degree elbow. The 4 ft. – 9-inch pipe spool connects to a 8-inch 90 degree mechanical joint elbow which starts the pipeline consisting of; 13 feet of pipe, a 90 degree elbow, 36 feet of pipe, a 90 degree elbow, 68 feet of pipe, a 45 degree elbow, 67 feet of pipe, a 45 degree elbow, 5 feet of pipe, a 90 degree elbow, 5 feet of pipe, a 90 degree elbow, a gate valve, 5 feet of pipe (pipe supported), an 8-inch dismantling joint, a flow meter, 3 feet of pipe (pipe supported) and connection to the existing Well 4A hydro pneumatic tank piping inlet butterfly valve.

In addition to the mechanical piping already identified, this project will have a 6-inch thick reinforced concrete slab on grade 20 feet long by 12 feet wide. The concrete slab on grade will have a footing and the area will be fenced with removable posts for well rehabilitation. Electrical conduits will be installed from the new pump/motor location back to the previous well pump and motor location where the original power conduits are located. The new pump and motor will have a Sound Attenuation Hood installed on it to dampen the noise to levels in compliance with the local noise ordinance. The pump will be a vertical turbine deep well pump equipped with a premium efficiency 1800 rpm vertical hollow shaft 150 hp motor. Some limited site grading will occur for the 20-foot long and 12-foot wide area for the concrete slab on grade. Additional site components include low pedestal LED lighting for the facility.

Below Grade Infrastructure Design

The design includes a 32-inch diameter mild steel conductor casing grouted in place to a depth of 50 feet below ground surface (bgs). The conductor casing will serve to stabilize the upper formations during borehole drilling, and to provide the DDW required sanitary seal. Inside the conductor casing, a 28-inch diameter borehole extends to a depth of 570 feet bgs. The well structure includes a 16-inch

outside diameter mild steel well casing to a depth of 300 feet and transitions into a stainless-steel well casing and louvered well screen assembly. The design consists of a 10-foot sump, 40 feet of well screen, and 510 feet (excluding the stick-up above ground surface) of blank well casing, extending to a depth of 550 feet bgs.

To accommodate for the potential of future inelastic land subsidence in the area, it was determined to add additional protection of the well structure. A fully extended compression section is included from 380 to 400 feet to accommodate for any potential subsidence. The screen section has been designed to be "Ful-Flo" louvered well screen, with a slot size of 0.055 inches to provide the acceptable inlet velocities, suitable open area, and retention of the selected gravel envelope material. A 3-inch diameter steel gravel fill pipe extends to a depth of 327 feet bgs and a 2-inch diameter stainless steel sounding pipe will extend to and enter the well casing at a depth of 378 feet bgs. The annular space will be filled with 8x16 graded gravel from the bottom of the borehole to 312 feet bgs. A two-foot fine sand transition seal will be placed on top of the gravel envelope from 312 feet to 310 feet bgs, with a sand/cement grout annular seal from 310 feet bgs to ground surface.

Record Search Results

On April 26, 2019, GBCG submitted a data request to the Southern San Joaquin Valley Information Center (SSJVIC), California State University, Bakersfield under Permit #281. The record search extent covered a ¹/₂ mile radius surrounding the well parcel. The data request included:

- Mapped archaeological resource locations;
- Mapped report locations;
- Resource database printout;
- Report database printout;
- Copies of archaeological resource records;
- OHP historic properties directory;
- OHP determinations of eligibility;
- California Inventory of Historical Resources;
- Historic Maps;
- GLO and/or Rancho Plat maps.

Record Search Results

On May 9, 2019, SSJIV sent results of the record search via email (19-168). Eighteen cultural resource studies have been conducted within a one-half mile radius of the project area (Table 1, Figure 3). The project parcel and direct APE have not been inventoried. No resources are located within the project area. Of the eighteen inventories within the project vicinity, only four identified cultural resources.

Two cultural resources have been recorded within the one-half mile record search boundary (Table 2). Madera Canal Irrigation District (MID) Lateral 6.2 (P-20-002308/CA-MAD-002649H) bisects section 31 and extends throughout the project vicinity. The nearest lateral lie between 0.2 miles south and 0.5 miles west of the Direct APE

The Madera Canal and MID distribution system was originally designed with and reliant on sizable lateral canals to distribute water from the canal to the lower lying agricultural properties within the County. The original design included 14 laterals canals extending from the Madera Canal between Friant Reservoir and the Chowchilla River. As the canals extend from the Madera Canal, divisions and offshoots create a network of canals covering much of the County. Each canal extends for tens of miles, totaling hundreds of miles throughout the county.

Lateral 6.2 was previously recorded as part of cultural resource studies in 1992, 2006, 2015 and 2016. None of the earlier evaluations consider the MID Lateral 6.2 Canal as a contributor to the larger irrigation district. The MID Lateral 6.2 Canal was neither the earliest nor most significant lateral canal as part of the Madera Canal or Central Valley Project. Segment 6.2 retains sufficient integrity but does not meet the eligibility requirements of Criteria 1/A through 4/D for listing in the National or California Registers. This property does not appear to meet the criteria for listing in the NRHP or the CRHR.

The Borden Chinese Cemetery is located 1.2 miles southeast of the existing well head. No constructed features are shown within Section 31, Township 11 South, Range 18 East on the 1852 General Land Office Survey Plat (GLO Plat). No properties are listed on the National Register of Historic Places, Office of Historic Preservation Historic Property Directory, or the OHP Archaeological Determinations of Eligibility, or OHP Historic Properties Directory occur in the project area.

| Table 1. Cultura | Resource | inventories | within | one-half | mile of | project | area |
|------------------|----------|-------------|--------|----------|---------|---------|------|
|------------------|----------|-------------|--------|----------|---------|---------|------|

| | | | | Table 1. Cu | ıltural R | esource inventories within one-half mile of project area. | | | | | |
|------------------|------------------------|--|---|---|-----------|---|--|---|--|----------------------------------|-------------------------|
| Report Number | Additional Citation | Other ID | Xref | Authors | Year | Title | Publisher | Report Type | Size | Inventory Notes | Resources |
| MA-00083 | | NADB-R - 1140863 | Extends into another county as FR- 00135; Extends into another county as KE- 01832; Extends into another county as KI- 00028; Extends into another county as TU- 00102 | Hatoff, Brian, Voss, Barb, Waechter, Sharon, Wee, Stephen, and Benté, Vance | 1995 | Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project | Woodward-Clyde Consultants | Archaeological, Field study | 591.7 linear miles and 227.31 acres | | 20-002122 |
| MA-00214 | | | | Crist, Michael K. | 1981 | Cultural Resource Reconnaissance for the Sayre Ranch Annexation EIR, Madera County | Buada Associates | Archaeological, Field study | 111 Acres | NEGATIVE | |
| MA-00313 | | Caltrans - 06-MAD-145 PM 7.8 CU 06351 EA 215200 | | O'Connor, Denise and Clayton, H. B. | 1981 | Archaeological Survey Report a Proposed Left-Turn Channelization Project on Route 145 | California Department of Transportation | Archaeological, Field study | | NEGATIVE | |
| MA-00391 | | | | Varner, Dudley M. | 1975 | Parksdale Sewer System Project | California State University, Fresno | Archaeological, Field study | | NEGATIVE | |
| MA-00429 | | Submitter - State Clearinghouse #85010703 | | Wren, Donald G. | 1985 | An Archaeological Reconnaissance of the Madera Unified School District South High School Site | Individual Consultant | Archaeological, Field study | 60 acres | NEGATIVE | |
| MA-00458 | | | | Wren, Donald G. | 1996 | An Archaeological Survey of the Beal Property Avenue 12 and Highway 99, Madera County, California | Individual Consultant | Archaeological, Field study | 15 acres | NEGATIVE | |
| MA-00956 | | Caltrans - 06-MAD-99 EA 06- 407200; Submitter - LSA Project No. URS032 | See also MA-00957; See also MA-00958 | Kelley, John and Marvin, Judith | 2001 | Historic Property Survey Report (Positive) for the State Route 99/State Route 145 and State Route 99/Gateway Drive Interchange Improvements | LSA Associates, Inc. | Architectural/Historical, Field study | | | 20-002496 |
| MA-00956 | А | | | Marvin, Judith | 2001 | Historic Study Report and Historic Architectural Survey Report (Positive) for the State Route 99/State Route 145, and State Route 99/Gateway Drive Interchange Improvements, City of Madera, Madera County, California | LSA Associates, Inc. | Architectural/Historical, Field study | | | |
| MA-00956 | В | | | Kelley, John and Kaptain, Neal | 2001 | Archaeological Survey Report (Positive) for the State Route 99/State Route 145, and State Route 99/Gateway Drive Interchange Improvements, City of Madera, Madera County, California | LSA Associates, Inc. | Archaeological, Field study | | | |
| MA-01003 | | Submitter - LSA Project No. KBH540 | Extends into another county as TU- 01247 | Kaptain, Neal and Matzen, Ben | 2005 | A Cultural and Paleontological Resources Study for Eight KB Home Projects, Stanislaus, Merced, Madera, and Tulare Counties, California | LSA Associates, Inc. | Archaeological, Field study | 721.01 Acres | NEGATIVE for Madera County | |
| MA-01026 | | Submitter - SWCA Cultural Resources Report Database No. 06-507; Submitter - SWCA Project No. 10715-180 | Extends into another county as FR- 02287; Extends into another county as KE- 03528; Extends into another county as TU- 01324 | Arrington, Cindy, Bass, Bryon, Brown, Joan, Corey, Chris, and Hunt, Kevin | 2006 | Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project, State of California | SWCA Environmental Consultants | Archaeological, Monitoring | 1,431 linear miles | | |
| MA-01026 | A | | | SWCA Environmental Consultants | 2000 | Qwest Fiber Optic Project Cultural Resources Protocols | SWCA Environmental Consultants | Management/planning | | | |
| MA-01136 | | Caltrans - 06-MAD-99 EA 06- 47100; Project ID 06-0000-0463 PM R7.1/R7.9 | | Vallejo, Phillip | 2011 | Supplemental Historic Resource Evaluation Report for the Avenue 12 Intechange Project, Madera County, California: 06-MAD-99 E.A. 06-47100; Project ID 06-0000-0463 PM R7.1/R7.9 | California Department of Transportation | Archaeological, Architectural/historical, Management/planning | | NEGATIVE | |
| MA-01137 | | Caltrans - 06-MAD-99 PM R7.1/R7.9 EA 06-471000 Project ID #0600000463 | | Lanner, David | 2011 | Archaeological Survey Report State Route 99 and Avenue 12 Interchange Project, City of Madera, Madera County, California | California Department of Transportation | Archaeological, Field study | Ten acres | | 20-002827 |
| MA-01217 | | Caltrans - 06-MAD-99 PM 7.5/15.1 EA 06-47090 | | Miller, Michelle | 2014 | Archaeological Survey Report for the Madera 99 Widening Project 06-MAD-99 Madera County, California | California Department of Transportation | Archaeological, Field study | | NEGATIVE | |
| MA-01259 | | Caltrans - E.A. 06-0W360 | | Valentin, Sylvere | 2017 | Historic Property Survey Report for the Madera 145 ADA Ramps Project, Madera County, California | Caltrans | Architectural/Historical, Field study | 53 acres | | 20-003143, 20-003144 |
| MA-01259 | A | | | Valentin, Sylvere | 2017 | Archaeological Survey Report for the Install and Upgrade Americans with Disabilities Act (ADA) Ramps Project, Madera County, California | Caltrans | Archaeological, Field study | 53 acres | | |
| MA-01259 | В | | | Hernandez, Hansel | 2017 | Historic Resources Evaluation Report for the Madera 145 ADA Ramps Project, Madera County, California | JRP Historical Consulting | Architectural/Historical, Evaluation | n/a | | |



Figure 3a. Cultural Resource Investigations and Cultural Resources within one-half mile of project area.

| | | | Table 2. Archeological Resources within one-hal | If mile of project area. | |
|-------------------|----------------|---|---|---|---|
| Primary Number | Trinomial | Resource Name | Other ID | Xrefs | Resource Type |
| P-20-002308 | CA-MAD-002649H | Madera Canal; Madera Irrigation District; MID; MID Lateral 6.2 Segments | Resource Name - Madera Canal; Madera Irrigation District; MID; Resource Name - MID Lateral 6.2 Segments | See also 20-002393; See also 20-002402; See also 20-003017; Subsumes 20-002488; Subsumes 20-002491; Subsumes 20-003018; Subsumes 20-003105 | Structure |
| | Age | Attributess | Resource Notes | Recording Events | Reports |
| | Historic | АН06; НР20 | Multiple resources included segments of the Madera Canal and portions of the ancillary Madera Irrigation District canals in a way that made it necessary to subsume all records related to the Madera Canal and Madera Irrigation District in one record. | 1992 (Unknown, JRP Historical Consulting Services); 2000 (Karana Hattersley-Drayton, Caltrans); 2005 (G. Roark, C. Fish, Jones & Stokes); 2005; 2009 (Joseph Freeman and Rebecca Flores, JRP Historical Consulting, LLC); | MA-01203, MA-01254, MA-01257, MA-01266, MA-01267, MA-01287 |

| Primary Number | Trinomial | Resource Name | Other ID | Xrefs | Resource Type |
|-------------------|----------------------------|-------------------------|---|---------------------------------------|---------------|
| P-20-002827 | CA-MAD-002671H | Borden Chinese Cemetery | Resource Name - Borden Chinese Cemetery | | Site |
| | Age | Attribs | ResourceNotes | RecordingEvents | Reports |
| | Protohistoric, Historic | HP40 | | 2011 (David Laner and Philip Vallejo) | MA-01137 |

Findings

The project area consists of an active and abandoned well field. It lies within a developed area and has been subjected to extensive surface and subsurface disturbance. No previously recorded sites lie within the well head area and it is unlikely that additional intact cultural resources. The proposed project will have no effect on known cultural resources.

If additional prehistoric or historic resources are subsequently discovered during construction, the The California Department of Water Resources and California SHPO should be notified and activities in the area should cease until those resources can be evaluated. Cultural resources could consist of but are not limited to stone, bone, wood, or shell artifacts, or features including hearths, structural remains, or historic dumpsites. If historic properties are inadvertently discovered, reasonable efforts to avoid, minimize, or mitigate adverse effects to the property will be taken and the State Historic Preservation Officer (SHPO) and Indian tribes with concerns about the property, and the Advisory Council on Historic Preservation (Council) will be notified within 48 hours in compliance with 36 CFR 800.13 (b) (3).

AB32 Consultation

The California Native American Heritage Commission (NAHC) was contacted on March 5, 2019 and a Tribal Consultation list was requested *Per Public Resources Code* $\int 21080.3.1$, *subs.* (b), (d), (e) and 21080.3.2. A Sacred Lands File search was also submitted as part of that request. Upon receipt of the tribal list, Consultation letters will be prepared for to respective Tribes describing the proposed project and inviting them to begin Informal Section 106 and NEPA Consultation. Those letters and responses will be attached to final CEQA documentation for the project. No sacred lands were identified by the NAHC.

NAHC Correspondence

Gavin Newsom, Governor

NATIVE AMERICAN HERITAGE COMMISSION Cultural and Environmental Department 1550 Harbor Bivd., Sulte 100 West Sacramento, CA 95691 Phone: (916) 373-3710 Email: <u>nahc@nahc.ca.gov</u> Website: <u>http://www.nahc.ca.gov</u>



March 11, 2019

Michael Drews Madera County Public Works Department

VIA Email to: mdrews@greatbasingroup.com

RE: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Parkwood A/B MD19 Well 4, Madera County.

Dear Mr. Drews:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

- 1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:
 - A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
 - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
 - Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
 - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.
- 2. The results of any archaeological inventory survey that was conducted, including:
 - Any report that may contain site forms, site significance, and suggested mitigation measures.

All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

- 3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was <u>negative</u>.
- 4. Any ethnographic studies conducted for any area including all or part of the APE; and
- 5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Katy.Sanchez@nahc.ca.gov.

Sincerely,

Neweys

Katy Sanchez Associate Environmental Planner

Attatchment

Native American Heritage Commission Native American Contacts List 3/11/2019

Dumna Wo-Wah Tribal Goverment Robert Ledger Sr., Chairperson 2191 West Pico Ave. Fresno ,CA 93705 ledgerrobert@ymail.com (559) 540-6346

Dumna/Foothill Yokuts Mono

North Valley Yokuts Tribe Katherine Erolinda Perez, Chairperson P.O. Box 717 C Linden CA 95236 N canutes@verizon.net E (209) 887-3415

Ohlone/Costanoan Northern Valley Yokuts Bay Miwok

Southern Sierra Miwuk Nation William Leonard, Chairperson P.O. Box 186 Mariposa ,CA 95338 (209) 628-8603 Office

Miwok Pauite Northern Valley Yokut

Wuksache Indian Tribe/Eshom Valley BandKenneth Woodrow, Chairperson1179 Rock Haven Ct.FoothilSalinasCA 93906Monokwood8934@aol.comWuksa(831) 443-9702

Foothill Yokuts Mono Wuksache

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes for the proposed: Parkwood A/B MD19 Well 4, Madera County.

SSJVIC Consultation

<u>C</u>alifornia <u>H</u>istorical <u>R</u>esources <u>I</u>nformation <u>S</u>ystem



Fresno Kern Kings Madera Tulare Southern San Joaquin Valley Information Center California State University, Bakersfield Mail Stop: 72 DOB 9001 Stockdale Highway Bakersfield, California 93311-1022 (661) 654-2289 E-mail: ssjvic@csub.edu Website: www.csub.edu/ssjvic

5/6/2019

Michael Drews Great Basin Consulting Group, LLC 200 Winters Drive Carson City, NV 89703

Re: Parkland A/B MD19 Well 4 Project Records Search File No.: 19-168

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on the Madera USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.5 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: \Box custom GIS maps \boxtimes shapefiles

| Resources within project area: | P-20-002308 |
|-----------------------------------|--|
| Resources within 0.5 mile radius: | P-20-002827 |
| Reports within project area: | MA-00214, 00313, 00391, 01136, 01137, 01259 |
| Reports within 0.5 mile radius: | MA-00083, 00429, 00458, 00956, 01003, 01026, 01217 |

| Resource Database Printout (list): | enclosed | oxtimes not requested | \Box nothing listed |
|---|----------------------|-----------------------|------------------------|
| Resource Database Printout (details): | \boxtimes enclosed | □ not requested | nothing listed |
| Resource Digital Database Records: | \boxtimes enclosed | □ not requested | \Box nothing listed |
| Report Database Printout (list): | \Box enclosed | 🖾 not requested | nothing listed |
| Report Database Printout (details): | 🛛 enclosed | \Box not requested | \Box nothing listed |
| Report Digital Database Records: | 🛛 enclosed | \Box not requested | \Box nothing listed |
| Resource Record Copies: | 🛛 enclosed | □ not requested | \Box nothing listed |
| Report Copies: | \boxtimes enclosed | \Box not requested | \Box nothing listed |
| | | | |
| OHP Historic Properties Directory: | 🛛 enclosed | \Box not requested | \Box nothing listed |
| Archaeological Determinations of Eligibility: | □ enclosed | □ not requested | ⊠ nothing listed |
| CA Inventory of Historic Resources (1976): | enclosed | □ not requested | oxtimes nothing listed |

| Caltrans Bridge Survey: | Not available at SSJVIC; please see |
|---|---|
| http://www.dot.ca.gov/hq/structur/strmaint/h | <u>istoric.htm</u> |
| Ethnographic Information: | Not available at SSJVIC |
| Historical Literature: | Not available at SSJVIC |
| Historical Maps: http://historicalmaps.arcgis.com/usgs/ | Not available at SSJVIC; please see |
| Local Inventories: | Not available at SSJVIC |
| GLO and/or Rancho Plat Maps: http://www.glorecords.blm.gov/search/default http://www.oac.cdlib.org/view?docId=hb8489p | Not available at SSJVIC; please see .aspx#searchTabIndex=0&searchByTypeIndex=1 and/or a15p;developer=local;style=oac4;doc.view=items |
| Shipwreck Inventory: http://www.slc.ca.gov/Info/Shipwrecks.html | Not available at SSJVIC; please see |

<u>Soil Survey Maps:</u> http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Celeste M. Thomson Coordinator

| Image <th></th> | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|-------------------|--------|---|---|---|-----------------------|---|---|----------|----------|--|-----------------------------------|----------------------|------------------------|--------------------------------|----------------------|---------------|--------------|----------|--|---------|---|
| And Interpretation Suppretation Suppre | ReportHans | DocAshtiCitLetter | Status | OthertDe | Xnts | Authors | Officer D | tion Cittle | CitPublisher | CisPages | Cittleye | ReportType | InvestoryStas | MventuryCleifesur | a InvestoryCollections | towntoryHotes | Resources | ResourceCount | Hanladermala | Counties | Maps | Address | PLSS |
| Note I | MA-0083 | | | NADB-R - 1140863 | Entends and a mathematical county as FR-00133. Entends into another county as KE-01632; Extends into another county as KI-00028; Extends into another county as TU-00102 | Haloff, Brüm Voss, Barb, Waschter, Sharon, Wee, Stephen and Benlö, Vance | 1865 Jul | Coltural Resources Intentiony Report for the Proposed Mayive Namenia Expansion P | yet Woodwrd Cyfe Colsufants | . 1557 | 7 162 | Antheodiognal, Field study | 5917 linear males and 22731 acres | Not for publication | No | | 29-002122 | | Ra | Maxera | Brenda, Chuechila, Freuzu North, Gregg Hendon, Kumat, Madera, Planisturg | | |
| Main | MA-00214 | | | | | Crist, Michael K | 1993 Jun | Cultural Recourse Reconnaissance for the Sayra Ranch Amenation EfR, Madera Cou | ly Boarda Amocialan | | | ArchaeoRogical, Field shuty | III Acres | tist for publication | No | NEGATIVE | | ٥ | No | Madera | Modera | | FILLS RULE Sec. 31 MODM |
| Method Me | M400313 | | | Caltrans - 06-MAD-145 PM 7 8 CU 06351 EA 215200 | | O'Connor, Dense and Claylon, H. B. | tidt den | Archaeological Survey Report a Proposed Left Turn Channelization Project on Rode 1 | S California Cognition of Transportation | | 2 | Authanological, Field study | | tial har gubication | No | NEGATIVE Has over eized map | | 0 | No | Mødern | Nadera | | CITIS RIFE. TITIS RIFE |
| And A | MA-00251 | | | | | Vamor, Dudley M | 1675 Apr | Particula Sever Bystem Project | California Etate University, Fresha | | | Archaeciopcal Field study | | Not for publication | No | NEGATIVE | | ø | 148 | Madera | Madaza | | |
| Add <td>MA-00429</td> <td></td> <td></td> <td>Submitter - State Cleaninghouse #85010703</td> <td></td> <td>When, Donald G.</td> <td>1985 Feb</td> <td>An Archeeological Recommissance of the Midera Unified School Osticct South High S Site</td> <td>chool Individual Comultant</td> <td></td> <td>2</td> <td>Archaeological, Field study</td> <td>40 acres</td> <td>Mult for publication</td> <td>No</td> <td>NEGATIVE</td> <td>r T</td> <td>٥</td> <td>12a</td> <td>Madera</td> <td>Madera</td> <td></td> <td>THIS RULE Sec. 25 MGBW</td> | MA-00429 | | | Submitter - State Cleaninghouse #85010703 | | When, Donald G. | 1985 Feb | An Archeeological Recommissance of the Midera Unified School Osticct South High S Site | chool Individual Comultant | | 2 | Archaeological, Field study | 40 acres | Mult for publication | No | NEGATIVE | r T | ٥ | 12a | Madera | Madera | | THIS RULE Sec. 25 MGBW |
| Name Name Name And And <t< td=""><td>MAGOISE</td><td></td><td></td><td></td><td></td><td>Www. Bonzid G</td><td>1996 Jan</td><td>An Anthanological Survey of the Beat Property Austrue 12 and Highway 39, Madera Co</td><td>unly Individual Comultant</td><td></td><td>2</td><td>Archaeological, Field study</td><td>15 acres</td><td>Net for publication</td><td>No</td><td>NEGATIVE</td><td></td><td>a</td><td>Na</td><td>Madera</td><td>Madera</td><td></td><td>1125 R16E Sec 5 MD84</td></t<> | MAGOISE | | | | | Www. Bonzid G | 1996 Jan | An Anthanological Survey of the Beat Property Austrue 12 and Highway 39, Madera Co | unly Individual Comultant | | 2 | Archaeological, Field study | 15 acres | Net for publication | No | NEGATIVE | | a | Na | Madera | Madera | | 1125 R16E Sec 5 MD84 |
| And <td>MA-00996</td> <td></td> <td></td> <td>Caltaris - 06-MAD-99-EA (6-45720) Submitter: LSA Project Na: LIRS202</td> <td>See also MA-00557 See also MA-00558</td> <td>Kolley, John and Marvin, Juddii</td> <td>2001 ' Aug</td> <td>Hotaric Property Sorvey Report (Positive) for the Rode NoState Rode 145 and Rode Soltateway Drive Interchange Improvements</td> <td>Edite LSA Agencielles, Inc</td> <td>58</td> <td>8 0</td> <td>Architectural/Historical Field study</td> <td></td> <td>Net for publication</td> <td>Na</td> <td>Has over econt map</td> <td>20002496</td> <td>1</td> <td>1ia</td> <td>Madera</td> <td>Madera</td> <td></td> <td>TI IS ANTE Sec. 24, 25 MOBM. TI IS ATHE Sec. 19, 30 MOBM</td> | MA-00996 | | | Caltaris - 06-MAD-99-EA (6-45720) Submitter: LSA Project Na: LIRS202 | See also MA-00557 See also MA-00558 | Kolley, John and Marvin, Juddii | 2001 ' Aug | Hotaric Property Sorvey Report (Positive) for the Rode NoState Rode 145 and Rode Soltateway Drive Interchange Improvements | Edite LSA Agencielles, Inc | 58 | 8 0 | Architectural/Historical Field study | | Net for publication | Na | Has over econt map | 20002496 | 1 | 1ia | Madera | Madera | | TI IS ANTE Sec. 24, 25 MOBM. TI IS ATHE Sec. 19, 30 MOBM |
| i i i i i i i i i i i i i i i i i i i | MADEBAG | • | | | | Marvin, Judith | 2001 34 | Histono Shudy Report and Histono Architecturel Survey Report (Produce) to the State SerState Route 145, and State Route McCaterery Drive Interchange Incrovements. Cl Maders, Madera County, California | outo e of LSA Ausociaties, Inc. | 31 | U 0 | Architectural/Historical, Field study | | Not for publication | No | | | | | | Ì | | |
| | MA-00956 | B: | | | | Kelley, John and Kaptan, Neal | 2001 Aug | Architeorological Survey Report (Photolwe) for the State Route 99/State Route 145 and 5 Route 99/Stateway Drive Interchange Increasements, City of Madera, Madera County, California | LSA Associales, Inc | | 3 | Antasological, Field study | | Not for publication | No | | | | | | | | |
| Ansiste Image: Series of Seri | MA-01003 | | | Scondar - LEA Project | Extends into another county as TU-01247 | Kaplain, Heal and Malzan, Ben | 205 Od | A Cultural and Parlioritological Resources Study for Eight KB Home Projects, Stanster Merced Madera, and Tulier Counter, California | LSA Associates, Inc | 32 | 9 | Archaeological, Field sludy | 721 01 Acres | Not for publication | No | NEGATIVE for Madera | | 0 | No | Madera | Madera | | T11S R18E Sec 30 32 33 MDBM |
| AIOOO <th< td=""><td>MA-01026</td><td></td><td></td><td>Submitter - SWCA Control Resources Control Resources 607 507 Submitter - SWCA Project Na 10715-180</td><td>Extends into another county as FR 02287. Extends into another county as KF-03588. Extends into another county as TU-01324</td><td>Amigton, Choly, Bass, Bryon, Brown, Joan, Carey, Chrin, and Hunt, Kewin</td><td>2006 Dec</td><td>Cultural Resources Final Report of Monitoring and Findings for the Qweet Network Construction Project, State of California</td><td>SWCA Enveronmerbal Consultants</td><td>452</td><td>2 130</td><td>Archaeological, Monitoring</td><td>1.431 Invar miles</td><td>Not for publication</td><td>No</td><td></td><td></td><td>o</td><td>Yes</td><td>Nədəra</td><td>Burns Park, Coal Oil Canyon, Conejo, Coner, Conras SW, Dahno Wast, Fannoso, Frazor Monthaii, Franco Nath, Franco South, Cedrad, Goatee, Cappainin, Handka, Lancel, Lebec, Madara Mallae, McFaland, Mollae, Ockale, Fraky, Roedahi : Salna, Tipton, Tarver, Tubara Vrasta</td><td></td><td></td></th<> | MA-01026 | | | Submitter - SWCA Control Resources Control Resources 607 507 Submitter - SWCA Project Na 10715-180 | Extends into another county as FR 02287. Extends into another county as KF-03588. Extends into another county as TU-01324 | Amigton, Choly, Bass, Bryon, Brown, Joan, Carey, Chrin, and Hunt, Kewin | 2006 Dec | Cultural Resources Final Report of Monitoring and Findings for the Qweet Network Construction Project, State of California | SWCA Enveronmerbal Consultants | 452 | 2 130 | Archaeological, Monitoring | 1.431 Invar miles | Not for publication | No | | | o | Yes | Nədəra | Burns Park, Coal Oil Canyon, Conejo, Coner, Conras SW, Dahno Wast, Fannoso, Frazor Monthaii, Franco Nath, Franco South, Cedrad, Goatee, Cappainin, Handka, Lancel, Lebec, Madara Mallae, McFaland, Mollae, Ockale, Fraky, Roedahi : Salna, Tipton, Tarver, Tubara Vrasta | | |
| Mail State of State | MA-01026 | | | | | SWCA Envronmental Consultants | 2000 Feb | Qwest Fiber Optic Project Cultural Researces Protocols | SWCA Environmental Consultants | 64 | . 0 | Management@lanning | | Unrestricted | to | | | | | | | | |
| Mail Mail Andel A | MA-01136 | | | Calitante - 05-MAD (99-EA 06-47100, Phonet ID 06- 0000: 0463 PM/R7 MR7 9 | | Vailego_Phillip | 2011 Jun | Supplarmantal Histonic Resource Evaluation Report for the Avenue 12 Intechange Proje Madera County, California 06-MAD-98 E A. 06-47100; Project ID 06/00000465 PM R7.1/R7.9 | el California Department of Transportation | 2 | | Antaecograf, Architecturathetorical, Managumantifetariong | | Not for publication | Na | NEGATIVE | | ٥ | Tio | Madera | Gregg Madera | | 1115 RINE Sec. 32.33 MISH. 1125 RINE Sec. 4, 5 MISH |
| And IP Addition Collarity Coll | MA-01137 | | ŝ | Caltrans - 06-MAD-39 PM R7 1/R7 9 EA 06-47 1000 Project ID #0600000#83 | | Later or, David | 2011 Sep | Archaeological Survey Report State Route 99 and Averue 12 Interchange Project, City Madera, Madera County, California | of California Department of Transportation | 12 | 5 5 | Archaeological, Field Indy | Tam acres | Not for publication | Na | | 20-002827 | , | 10 | Madera | Chogg Waders | | 1115 A18E Sec. 32, 33 MOHM. 1125 A16E Sec. 4, 5 MOBN |
| Add 2000 Add 2000 <th< td=""><td>MA-01217</td><td></td><td></td><td>Callrans - 06-MAD 99 PM 7 5/15 1 EA 06-47090</td><td></td><td>Miller, Michelle</td><td>2014 Dec</td><td>Archamilippeal Survey Report for the Madera 19 Wedening Project 05-44/D (9) Madera County: California</td><td>California Department of Transportation</td><td>L.</td><td>12</td><td>Archaeological Field Idudy</td><td></td><td>Nol for publication</td><td>145</td><td>NEGATIVE</td><td></td><td>0</td><td>No</td><td>Madera</td><td>Rismut Mediera</td><td></td><td>1115 R1/E Sec 3, 4, 10, 13, 14, 19 34, 29, 30, 32 MDBM</td></th<> | MA-01217 | | | Callrans - 06-MAD 99 PM 7 5/15 1 EA 06-47090 | | Miller, Michelle | 2014 Dec | Archamilippeal Survey Report for the Madera 19 Wedening Project 05-44/D (9) Madera County: California | California Department of Transportation | L. | 12 | Archaeological Field Idudy | | Nol for publication | 145 | NEGATIVE | | 0 | No | Madera | Rismut Mediera | | 1115 R1/E Sec 3, 4, 10, 13, 14, 19 34, 29, 30, 32 MDBM |
| A Value Value 2017 Jal Achaeological Garwy Report for Initial side (Space Annexame with Gase) Mass Annexa | MA-01259 | | | Caltrans - E.A. 08-0W360 | | · Valeniin, Sylvere | 2017 Aug | Historic Property Survey Report for the Madera 145 ADA Ramps Proyect Madera Cour California | Y Califrans | 21 | 7 | Architectural/Historical, Field sludy | : 53 acres | Not for publication | No | | 20-001143, 20-003444 | 3 | Nis | Madera | Madora | 4400 | 7115 R17E 5xx 10 24 25 30 MDBM T115 R1ME Sec 19 24 25 30 MDBM |
| MA 01259 B Higmandez, Hensel 2017 Jul 2 | MA-01259 | | | | | Valentin, Sylvere | 2017 Jul | Archaeological Durwy Report for the Install and Upgrade Americans with Disabilities A (ADA) Rampe Project Madera County, California | Caltrans | | 11 | Archaeological, Field study | 53 acres | Not for publication | No | | | | | | | | |
| | MA-01259 | 9 | | | | Hernandez, Hansel | 2017 [,] Jul | Histone Resources Evaluation Report for the Madera 145 ADA Ramps Project, Madera County, Caldonnia | JRP Historical Consulting | 25 | 6. D | Architectural/Historical Eveluation | n/a | Not for publication | Nö | | | | | | | | |

SSJVIC Record Search 19-168

Identifiers

| lacitation | | | | | | | | | | |
|----------------------|---|-------------------------|--|--|--|--|--|--|--|--|
| Report No.: | MA-00083 | | | | | | | | | |
| Other IDs: | Туре | Name | | | | | | | | |
| | NADB-R | 1140863 | | | | | | | | |
| Cross-refs: | Extends into another county as FR-00135 | | | | | | | | | |
| | Extends into and | other county as KE-01 | 832 | | | | | | | |
| | Extends into and | other county as KI-000 | 128 | | | | | | | |
| | Extends into and | other county as 10-00 | 102 | | | | | | | |
| Citation information | tion | | | | | | | | | |
| Author(s): | Hatoff, Brian, Vo | oss, Barb, Waechter, S | Sharon, Wee, Stephen, and Benté, Vance | | | | | | | |
| Year: | 1995 (Jul) | | | | | | | | | |
| Title: | Cultural Resource | ces Inventory Report f | or the Proposed Mojave Northward Expansion Project | | | | | | | |
| Affliliation: | Woodward-Clyd | e Consultants | | | | | | | | |
| No. pages: | 1557 | | | | | | | | | |
| No. maps: | 152 | | | | | | | | | |
| Attributes: | Archaeological, | Field study | | | | | | | | |
| Inventory size: | 591.7 linear mile | es and 227,31 acres | | | | | | | | |
| Disciosure: | Not for publication | on | | | | | | | | |
| Collections: | NO | | | | | | | | | |
| General notes | | | | | | | | | | |
| Associated reso | urces | | | | | | | | | |
| | Primary No. | Trinomial | Name | | | | | | | |
| | P-20-002122 | CA-MAD-002121H | MNM-4H | | | | | | | |
| No. resources: | 1 | | | | | | | | | |
| Has informals: | No | | | | | | | | | |
| Location information | ation | | | | | | | | | |
| County(ies): | Madera | | | | | | | | | |
| USGS quad(s): | Berenda, Chowo | chilla, Fresno North, G | iregg, Herndon, Kismet, Madera, Plainsburg | | | | | | | |
| Address: | | | | | | | | | | |
| PLSS: | | | | | | | | | | |
| Database record | d metadata | | | | | | | | | |
| | Date | User | | | | | | | | |
| Entered: | 6/1/2011 | ssjvic | | | | | | | | |
| Last modified: | 12/19/2015 | user1 | | | | | | | | |
| IC actions: | Date | User | Action taken | | | | | | | |
| | 6/1/2011 | ssjvic | Entered primary: CLC | | | | | | | |
| | 6/1/2011 | ssjvic | Project areas mapped: CLC | | | | | | | |
| | 12/19/2015 | user1 | Entered report: MMB | | | | | | | |

Record status: Database Complete

SSJVIC Record Search 19-168

Identifiers

Report No.: MA-00429 Other IDs: Type Submitter

Name State Clearinghouse #85010703

Cross-refs: Citation information

Author(s): Wren, Donald G.

Year: 1985 (Feb)

Title: An Archaeological Reconnaissance of the Madera Unified School District South High School Site

- Affliliation: Individual Consultant
- No. pages: 8
- No. maps: 2
- Attributes: Archaeological, Field study
- Inventory size: 60 acres
 - Disclosure: Not for publication
- Collections: No

General notes

NEGATIVE

Associated resources

No. resources: 0 Has informals: No

Location information

County(ies): Madera USGS quad(s): Madera Address: PLSS: T11S R17E Sec. 25 MDBM

Database record metadata

| | Date | User |
|----------------|-----------------|--------|
| Entered: | 7/19/2011 | ssjvic |
| Last modified: | 8/22/2016 | user1 |
| IC actions: | Date | User |
| | 7/19/2011 | ssjvic |
| | 7/19/2011 | ssjvic |
| | 8/22/2016 | user1 |
| Record status: | Database Comple | te |

Action taken Entered primary: CLC Project area mapped: CLC Entered report: MMB

SSJVIC Record Search 19-168

Identifiers

Report No.: MA-00458 Other IDs: Cross-refs:

Citation information

Author(s): Wren, Donald G.

Year: 1996 (Jan)

Title: An Archaeological Survey of the Beal Property Avenue 12 and Highway 99, Madera County, California

- Affliliation: Individual Consultant
- No. pages: 6
- No. maps: 2

Attributes: Archaeological, Field study

- Inventory size: 15 acres
 - Disclosure: Not for publication

Collections: No

General notes

NEGATIVE

Associated resources

No. resources: 0 Has informals: No

Location information

County(ies): Madera USGS quad(s): Madera Address: PLSS: T12S R18E Sec. 5 MDBM

Database record metadata

| | Date | User |
|----------------|-----------|--------|
| Entered: | 7/19/2011 | ssjvic |
| Last modified: | 8/22/2016 | user1 |
| IC actions: | Date | User |
| | 7/19/2011 | ssjvic |
| | 7/19/2011 | ssjvic |
| | 8/22/2016 | user1 |

Action taken Entered primary: CLC Project area mapped: CLC Entered report: MMB

Record status: Database Complete

SSJVIC Record Search 19-168

Id

| Identifiers | | | | | | | | |
|------------------|--|---|---|--|--|--|--|--|
| Report No.: | MA-00956 | | | | | | | |
| Other IDs: | Туре | Name | | | | | | |
| | Caltrans | 06-MAD-99 EA | 06-407200 | | | | | |
| | Submitter | LSA Project No | o. URS032 | | | | | |
| Cross-refs: | See also MA-00 | 957 | | | | | | |
| | See also MA-00 | 958 | | | | | | |
| Citation informa | tion | | | | | | | |
| Author(s): | Kelley, John and | d Marvin, Judith | | | | | | |
| Year: | 2001 (Aug) | | | | | | | |
| Title: | Historic Property Interchange Imp | y Survey Report (Posit provements | ive) for the State Route 99/State Route 145 and State Route 99/Gateway Drive | | | | | |
| Affliliation: | LSA Associates | , Inc. | | | | | | |
| No. pages: | 58 | | | | | | | |
| No. maps: | 8 | | | | | | | |
| Attributes: | Architectural/His | storical, Field study | | | | | | |
| Inventory size: | | | | | | | | |
| Disclosure: | Not for publication | on | | | | | | |
| Collections: | No | | | | | | | |
| Sub-desig.: | A | | | | | | | |
| Author(s): | Marvin, Judith | | | | | | | |
| Year: | 2001 (Jul) | | | | | | | |
| Title: | Historic Study Report and Historic Architectural Survey Report (Positive) for the State Route 99/State Route 145, and State Route 99/Gateway Drive Interchange Improvements, City of Madera, Madera County, California | | | | | | | |
| Affiliation: | LSA Associates | , Inc. | | | | | | |
| Report type(s): | Architectural/His | storical, Field study | | | | | | |
| Inventory size: | | | | | | | | |
| No. pages: | 31 | | | | | | | |
| Disclosure: | Not for publication | on | | | | | | |
| Collections: | No | | | | | | | |
| PDF Pages: | 28-58 | | | | | | | |
| Sub-desig.: | В | | | | | | | |
| Author(s): | Kelley, John and | d Kaptain, Neal | | | | | | |
| Year: | 2001 (Aug) | | | | | | | |
| Title: | Archaeological S Interchange Imp | Survey Report (Positive provements, City of Ma | e) for the State Route 99/State Route 145, and State Route 99/Gateway Drive dera, Madera County, California | | | | | |
| Affiliation: | LSA Associates | , Inc. | | | | | | |
| Report type(s): | Archaeological, | Field study | | | | | | |
| Inventory size: | | | | | | | | |
| No. pages: | 18 | | | | | | | |
| Disclosure: | Not for publication | on | | | | | | |
| Collections: | No | | | | | | | |
| PDF Pages: | 10-27 | | | | | | | |
| General notes | | | | | | | | |
| | Has over-sized | map. | | | | | | |
| Associated reso | urces | | | | | | | |
| | Primary No. | Trinomial | Name | | | | | |
| | P-20-002496 | CA-MAD-002379 | Francis Cavin Residence Site (M | | | | | |
| No. resources: | 1 | | | | | | | |
| Has informals: | NO | | | | | | | |

SSJVIC Record Search 19-168

Location information

County(ies): Madera USGS quad(s): Madera Address: PLSS: T11S R17E Sec. 24, 25 MDBM T11S R18E Sec. 19, 30 MDBM

Database record metadata

| | Date | User |
|----------------|-----------------|-------|
| Entered: | 9/1/2016 | user1 |
| Last modified: | 10/9/2018 | User |
| IC actions: | Date | User |
| | 9/1/2016 | user1 |
| | 10/9/2018 | User |
| Record status: | Database Comple | ete |

Action taken Entered report: MMB Entered over-sized map notation: DB

SSJVIC Record Search 19-168

Identifiers

 Report No.:
 MA-01003

 Other IDs:
 Type
 Name

 Submitter
 LSA Project No. KBH540

 Cross-refs:
 Extends into another county as TU-01247

Citation information

Author(s): Kaptain, Neal and Matzen, Ben

- Year: 2005 (Oct)
- Title: A Cultural and Paleontological Resources Study for Eight KB Home Projects, Stanislaus, Merced, Madera, and Tulare Counties, California

Affliliation: LSA Associates, Inc.

- No. pages: 32
- No. maps: 9

Attributes: Archaeological, Field study

Inventory size: 721.01 Acres

Disclosure: Not for publication

Collections: No

General notes

NEGATIVE for Madera County

Associated resources

No. resources: 0 Has informals: No

Location information

County(ies): Madera USGS quad(s): Madera Address: PLSS: T11S R18E Sec. 30, 32, 33 MDBM

Database record metadata

| | Date | User | |
|----------------|-----------------|----------|--------------|
| Entered: | 1/6/2014 | ssjvic | |
| Last modified: | 8/3/2016 | user1 | |
| IC actions: | Date | User | Action taken |
| | 1/6/2014 | ssjvic | Entered: CT |
| | 7/14/2014 | cthomson | Edited: CT |
| Record status: | Database Comple | te | |

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SSJVIC Record Search 19-168

Identifiers

| lacitations | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|
| Report No.: | MA-01026 | | | | | | | | |
| Other IDs: | Туре | Name | | | | | | | |
| | Submitter | SWCA Projec | t No. 10715-180 | | | | | | |
| | Submitter | SWCA Cultura | al Resources Report Database No. 06-507 | | | | | | |
| Cross-refs: | Extends into another county as FR-02287 | | | | | | | | |
| | Extends into anoth | er county as KE-03 | 528 | | | | | | |
| | Extends into anoth | er county as TU-01 | 324 | | | | | | |
| Citation information | tion | | | | | | | | |
| Author(s): | Arrington, Cindy, E | ass, Bryon, Brown, | , Joan, Corey, Chris, and Hunt, Kevin | | | | | | |
| Year: | 2006 (Dec) | | | | | | | | |
| Title: | Cultural Resources | Final Report of Mo | onitoring and Findings for the Qwest Network Construction Project, State of | | | | | | |
| Affiliation | California | ntal Consultanta | | | | | | | |
| Anniadon. | AF2 | ntal Consultants | | | | | | | |
| No. pages. | 402 | | | | | | | | |
| No. maps. | 130 | | | | | | | | |
| Attributes: | Archaeological, IVIC | onitoring | | | | | | | |
| Inventory size: | 1,431 linear miles | | | | | | | | |
| Disclosure: | Not for publication | | | | | | | | |
| Collections: | No | | | | | | | | |
| Sub-desig.: | A | | | | | | | | |
| Author(s): | SWCA Environme | ntal Consultants | | | | | | | |
| Year: | 2000 (Feb) | 2000 (Feb) | | | | | | | |
| Title: | Qwest Fiber Optic | Qwest Fiber Optic Project Cultural Resources Protocols | | | | | | | |
| Affiliation: | SWCA Environme | ntal Consultants | | | | | | | |
| Report type(s): | Management/plan | Management/planning | | | | | | | |
| Inventory size: | | | | | | | | | |
| No. pages: | 64 | | | | | | | | |
| Disclosure: | Unrestricted | | | | | | | | |
| Collections: | No | | | | | | | | |
| PDF Pages: | 389-452 | | | | | | | | |
| General notes | | | | | | | | | |
| Associated reso | urces | | | | | | | | |
| No resources: | 0 | | | | | | | | |
| Has informals: | Yes | | | | | | | | |
| Location informa | ation | | | | | | | | |
| County(ies): | Madera | | | | | | | | |
| USGS guad(s): | Burris Park Coal (| Dil Canvon, Coneio | Conner Conner SW, Delano West, Famoso, Frazier Mountain, Fresno North | | | | | | |
| 0303 quad(s). | Fresno South, Gos | sford, Goshen, Gra | pevine, Herndon, Lamont, Lebec, Madera, Malaga, McFarland, Mettler, Oildale, | | | | | | |
| | Pixley, Rosedale, S | Selma, Tipton, Trav | ver, Tulare, Visalia | | | | | | |
| Address: | | | | | | | | | |
| PLSS: | | | | | | | | | |
| Database record | d metadata | | | | | | | | |
| | Date | User | | | | | | | |
| Entered: | 6/26/2013 | ssjvic | | | | | | | |
| Last modified: | 12/15/2017 | User | | | | | | | |
| IC actions: | Date | User | Action taken | | | | | | |
| | 6/26/2013 | ssjvic | report entered: cls | | | | | | |
| | 6/4/2014 | cthomson | Updated: CT | | | | | | |
| Record status. | Database Comple | ete | | | | | | | |
| | | | | | | | | | |

SSJVIC Record Search 19-168

Identifiers

Report No.: MA-01217 Other IDs: Type

Name 06-MAD-99 PM 7.5/15.1 EA 06-47090

Cross-refs: Citation information

Author(s): Miller, Michelle

Caltrans

Year: 2014 (Dec)

Title: Archaeological Survey Report for the Madera 99 Widening Project 06-MAD-99 Madera County, California

- Affliliation: California Department of Transportation
- No. pages: 38
- No. maps: 12
- Attributes: Archaeological, Field study

Inventory size:

Disclosure: Not for publication

Collections: No

General notes

NEGATIVE

Associated resources

No. resources: 0 Has informals: No

Location information

County(ies): Madera USGS quad(s): Kismet, Madera Address: PLSS: T11S R17E Sec. 3, 4, 10, 13, 14, 19, 24, 29, 30, 32 MDBM

Database record metadata

| | Date | User | |
|----------------|-----------------|----------|-----------------------|
| Entered: | 4/1/2015 | user | |
| Last modified: | 9/15/2016 | cthomson | |
| IC actions: | Date | User | Action taken |
| | 4/1/2015 | user | report entered: cls |
| | 4/1/2015 | user | report mapped: cls |
| | 9/15/2016 | cthomson | Entered location: MMB |
| Record status: | Database Comple | te | |

| Principality | ng Trinoniati | ng Removaliane | Elation | Obatte | | Xeeh. | Resilige | Api | hitin | Ahiba | Fasceur Judacen | Research Coloritoria | Annual | Collectored will by | Recycellan | RecordingEvents | Reports | CountyName | Wage | Address | PL45 | UTN . |
|--------------|----------------|---|---------|--|---|-------|----------|---------------------|--------|------------|---------------------|----------------------|--------|---------------------|---|--|---|------------|--|---------|--|--|
| P 20 002308 | CA MAD 00048H | Meders Cavet, Moders Impofor Datect, MO MO Lower 8 2 Segments | | Masuurus Name - Matora Crast, Matora Intgriton Chanto, M.D., Ressure Hame - MD Latina & 2 Segments | See also 20 002202. See also 20 000002. See also 20 000014. Subsemp 20 000241. Subsemp 20 000241. Subsemp 20 000140. Subsemp 20 000140. | | Stucture | Historic | Sarvey | AH06, HP20 | Not for publication | ю | | | Mingle mourses included segment of the Noders Canal and porto of the analyzing Makes biogenous District create in a way that mote i measure you select an annota maked in the Makers Canal and Makers biogenous District in one second | 1992 (Unincem, JAP Histonical Consuling Services), 2003 (Carean Trainistic) (Online), Calibres), 2004 (Carean C. Fon, Annelli Scholler), 2004 (Carean C. Fon, Annelli Scholler), 2004 (Carean C. Fon, Annelli Scholler), 2004 (Carean Carean, | NA OLIZI IN OLIZI K NA OLIZI N Olizi Ma Olizi na Olizi | Modern | Bereche Bicle Dartie Rient, Ocorbit Ostov, Franzy NE, Franz Grave Fraz Grage Henoux, Kone Lave Bista, Line Fall Boutani, Haker Boutani, Haker Boutani, Haker | | THIS ROLE See 15 MOBM, THIS ROLE See 16 MOBM, THIS ROLE See 21 MOBM, THIS ROLE See 21 MOBM, THIS ROLE See 21 MOBM, THIS RIFE See 21 MOBM, THIS RIFE See 20 MOBM, THIS RIFE See 20 MOBM, THIS RIFE See 16 MOBM. | Zone 10 75036/nE 4105450m1 NAD03 (Latinat 22 8-9 Next) Zone 10 720146nE 4105450m1 NAD03 (Latinat 22 8 NA 0 1 Next) Zone 10 74746nE 41054510m1 NAD03 (Latinat 22 8 NA 0 1 Next) Zone 10 74756nE 410526m1 NAD03 (Latinat 22 8 NA 0 1 Next) Zone 10 745756mE 410526m1 NAD03 (Latinat 22 8 NA 0 1 Next) Zone 10 755756mE 410526m1 NAD03 (Latinat 22 8 NA 0 1 Next) Zone 10 755756mE 410526m1 NAD03 (Latinat 22 9 Na 0 Na |
| P-20-002827 | CA MAD-002671H | Borden Chinese Cemalery | | Resource None - Rocker Olivese Constery | | | Site | Potohistore, Hatore | Survey | HEND | Not for publication | fie . | | | | 2011 (David Lanor and Philip Volgo) | 104.01137 | Medere | Maders | | TI IS RIVE Sec 32 MDBM | Zone 764100mE mN NAD83 (Northing: 4090034; No zone (sted, NAD not listed) |

Resource Detail: P-20-002827

SSJVIC Record Search 19-168

Identifying information

| Primary No.: | P-20-002827 | |
|--------------|--------------------|-------------------------|
| Trinomial: | CA-MAD-002671H | |
| Name: | Borden Chinese Cem | etery |
| Other IDs: | Туре | Name |
| | Resource Name | Borden Chinese Cemetery |
| Cross-refs: | | |

Attributes

| Resource type: | Site |
|-------------------|-------------------------|
| Age: | Protohistoric, Historic |
| Information base: | Survey |
| Attribute codes: | HP40 (Cemetery) |
| Disclosure: | Not for publication |
| Collections: | No |
| Accession no(s): | |
| Facility: | |
| | |

General notes

Recording events

| | <i>Date</i> 8/22/2011 | | <i>Recorder(s)</i> David Laner and Philip Vallejo | Affiliation | Notes | | | |
|----------------------|--------------------------|------|--|--|---|--|--|--|
| Associated reports | | | | | | | | |
| Rej | eport No. Year | | Title | | Affiliation | | | |
| MA | -01137 | 2011 | Archaeological Survey F and Avenue 12 Intercha Madera, Madera County | Report State Route 99 nge Project, City of ⁄, California | California Department of Transportation | | | |
| Location information | on | | | | | | | |

Location

| County: | Madera |
|---------------|--|
| USGS quad(s): | Madera |
| Address: | |
| PLSS: | T11S R18E Sec. 32 MDBM |
| UTMs: | Zone 764100mE mN NAD83 (Northing: 4090034; No zone listed; NAD not lis |

Management status

Database record metadata

| | Date | User | |
|----------------|-----------------|--------|-----------------------|
| Entered: | 3/29/2012 | ssjvic | |
| Last modified: | 8/12/2014 | user | |
| IC actions: | Date | User | Action taken |
| | 3/29/2012 | ssjvic | Entered Primary: CG |
| | 4/9/2012 | ssjvic | Mapped Resource: CG |
| | 8/12/2014 | user | Entered location: MMB |
| Record status: | Database Comple | te | |