

**Tuolumne County
Multi-Jurisdictional
Hazard Mitigation Plan
2018**

**Annex U: Lake Don Pedro
Community Services District**

Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan



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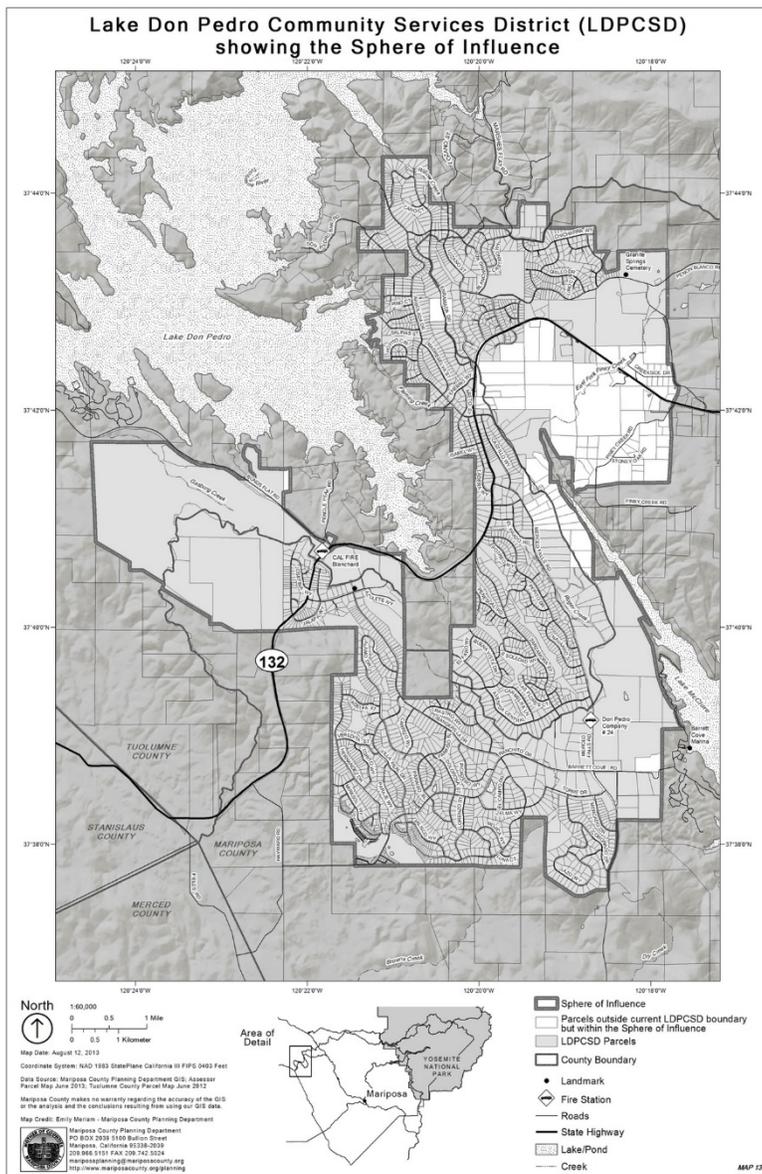


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LAKE DON PEDRO COMMUNITY SERVICES DISTRICT

I. Jurisdiction Profile

The Lake Don Pedro Community Services District (LDPCSD) provides municipal potable water services to a current population of 2,700 through approximately 1,400 active connections in the rural residential community of Don Pedro; which lies between Lake McClure and Lake Don Pedro in Mariposa and Tuolumne Counties. The LDPCSD water system is also designed to serve an additional 1,900 vacant parcels that exist within the community. The LDPCSD service area is composed of 60 percent Mariposa County parcels (1,920 parcels), and 40 percent Tuolumne County parcels (1,280 parcels).



The LDPCSD water supply is derived from surface water from Lake McClure; through a contract with Merced Irrigation District, and four groundwater wells. The Lake McClure surface water intake consists of two 200 Horsepower submersible pumps fixed to the shore of the reservoir and capable of pumping down to a water surface elevation of 710 above sea level. An emergency floating pump system is used to pump water from Lake McClure when the water surface elevation drops below 710 feet ASL, down to a minimum pool elevation of 560 feet ASL; beyond which no surface water is available. One groundwater well was installed to provide water supply to LDPCSD customers outside of the Place of Use for Lake McClure water supply under the MEID water right, and three additional wells were installed to provide emergency water supply during the drought of 2013 – 2016; at which time the Lake McClure water surface elevation was predicted to drop below 560 ASL.



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The estimated yield of the four wells combined is approximately 355 gallons per minute, and the peak customer water demand, under mandatory 50% water restrictions, was approximately 464 gallons per minute in July 2015.

The LDPCSD water treatment plant is a conventional filtration system surface water plant, and its water distribution system consists of 7 treated water storage tanks, 1 raw water storage tank, six booster pump sites, three hydropneumatics systems, eleven pressure regulating stations, 821 main isolation valves and 485 fire hydrants. Water mains range in size from 2-inch PVC to 12-inch asbestos cement.

II. PLANNING PROCESS

A. DMA 2000 Requirements

DMA Requirements §201.6(b) and §201.6(c)(1):

An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:

- (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and
- (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

The plan shall document the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

B. Plan Development and Public Input Process/Countywide Elements

Volume 1 is the master planning document which contains all elements applicable to the County of Tuolumne and each of the 22 individual jurisdictions. Plan development commenced with a review and revision of the updated 2013 Hazard Mitigation Plan. Each of the participating jurisdictions participated fully in the mitigation plan update.



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A news release was developed and issued and informative letters were sent out to community groups and neighboring jurisdictions inviting public participation. A Hazard Mitigation Planning Group was constructed with representatives from all involved jurisdictions and community stakeholders. Planning group meetings were held which explained the process that was going to be taken to construct the new plan, reviewed hazards of concern and hazard rankings, and explained the risks and vulnerability to the communities' people, buildings and infrastructure. Mitigation goals, objectives and actions were discussed and reviewed thoroughly with all planning group members until concurrence was reached. A capability assessment and action plan were developed to ensure mitigation actions were realistic and attainable and to assign funding sources and responsibility for each proposed activity.

After the MJHMP Planning Group Members, their respective jurisdictions, and Tuolumne County Office of Emergency Services were all satisfied with the newly updated draft plan and its mitigation goal, objectives and actions, a noticed public hearing occurred at the County Emergency Operation's Center. This meeting was widely advertised both locally and in neighboring counties to provide an opportunity for the general public, bordering communities and regional agencies involved in hazard mitigation activities to participate in the planning process. Notice of the public hearing was posted, two weeks in advance, on the County website, community bulletin boards and through a press release. Notification letters were sent to Office of Emergency Services managers in all neighboring Counties. Several weeks prior to the hearing, the newly constructed Plan was posted on the County website to enable the public and stakeholders ample time to read and evaluate it. A Power Point presentation was developed that provided a detailed explanation of the risks and vulnerabilities the community faced.

The mitigation goals, objectives and actions were explained in detail as were the resources that would be used to help mitigate these hazards. In addition, the general public had an opportunity to ask questions and comment on the proposed plan and each of the annexes as they moved through the approval process for Tuolumne County and each of the participating jurisdictions. All comments were reviewed with the stakeholder group and incorporated into the plan as appropriate.

C. Jurisdiction Specific Planning and Approval Process

The district manager for Lake Don Pedro CSD participated in the Hazard Mitigation Planning Group. He reviewed the findings with special attention being paid to the issues of wildland fire and extreme weather preparedness. The district manager's input was incorporated into both draft and final documents, and reviewed by District staff. A staff report was prepared and made available to the general public for comment and was eventually forwarded to the Lake Don Pedro CSD Board of Directors. A public meeting was held within the jurisdiction; input was received from the general public and incorporated into the final approved agency specific plan.



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Adoption by the District demonstrates the jurisdiction’s commitment to fulfilling the hazard mitigation goals and actions outlined in the plan. Adoption legitimizes the plan and authorizes the District to execute its responsibilities.

III. RISK ASSESSMENT

A. DMA 2000 Requirements

DMA Requirement §201.6(c)(2)(i): The risk assessment shall include a description of the type of all natural hazards that can affect the jurisdiction.

DMA Requirement §201.6(c)(2)(i): The risk assessment shall include a description of the location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

DMA Requirement §201.6(c)(2)(iii): For multi-jurisdictional plans, the risk assessment must assess each jurisdiction’s risks where they vary from the risks facing the entire planning area.

B. Jurisdiction Specific Risks

While a detailed hazard description and analysis can be found in the individual hazard profiles found in Volume 1 of this plan, as outlined below the District is susceptible to the following hazards.

Jurisdiction	Earthquake	Wildfire	Extreme Weather	Flood	Volcano	Haz Mat	Sinkholes
Lake Don Pedro CSD	✓	✓	✓	✓	✓	✓	✓

Hazard Specifics: The Lake Don Pedro Community Services District has several unique risks which are listed below:

- The majority of the LDPCSD water system is made up of miles of inflexible asbestos cement (AC) pipe, which is subject to damage and failure from an earthquake, sinkholes and similar ground shifting. AC water main ruptures can drain the treated water supply from system tanks in minutes, and cause washout damage to roads and properties.



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- The functionality of the LDPCSD water system and its 460 fire hydrants relies on a continuous source of electrical power. The District tanks only fill when pumps have power to operate, and to fill some tanks, the water is pumped up three times by means of electric powered booster pumps. The LDPCSD treatment plant and booster pump locations are very susceptible to damage from wildfire, and power outages result in the inability to fill water tanks to keep hydrants charged.
- Extended drought causes the Lake McClure water surface elevation to fluctuate widely, regularly dropping below the District’s submersible pumps. The District emergency pumping system is not capable to operate for extended periods and has deteriorated to the point of being decommissioned in 2016 after three years of continuous operation. Lake McClure surface water is not available in the area of the emergency pumps below elevation 560 feet ASL; at which point groundwater is the only water supply available. District groundwater supply is not adequate to meet summer water demand, even with 50% mandatory water use restrictions.

C. Jurisdiction Specific Hazard Event History

While a detailed hazard history can be found in the individual hazard profiles found in Volume 1 of this plan, the following events are specific to the District or have occurred in close proximity:

Earthquake History

Historically, earthquake activity in Tuolumne County is significantly below the California state average. In fact, it has one of the lowest earthquake risks in the State. As outlined below, a total of 5 historical earthquake events with recorded magnitudes of 3.5 or greater occurred in or near (50 Miles) Tuolumne County this past century.

Date	Description	Distance from Sonora	Impacts
March 26, 1872	7.6 – 8.0 Magnitude	Epicenter Unknown	Unknown
June 25, 1933	6.1 Magnitude	49.6 Miles	Unknown
June 10, 1965	3.5 Magnitude	42.6 Miles	None
August 10, 1975	4.0 Magnitude	44.3 Miles	None
August 9, 1983	4.0 Magnitude	40.8 Miles	None

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Extreme Weather History

Date	Description	Impacts
1989 - 1992	Severe localized drought	Near loss of surface water supply
2012 - 2016	Severe drought	Loss of surface water supply due to regulatory restrictions

Flood History

DATE	EVENT DETAILS
Winter of 1887	The earliest record rainfall amount found in The Union Democrat indicates that 67 inches of rain fell. No damages were noted.
December of 1964	The County Board of Supervisors declares a state of emergency based on localized flooding within the County.
Winter of 1969	A series of cold storms dropped 8 inches of snow on the City of Sonora, elevation 1800 feet. The snow stayed on the ground for a full week as a cold front moved in behind the last storm. The County came to a standstill as the limited numbers of snow plows were unable to keep the roads open. Flooding was reported as snow melted.
February of 1986	Early season storms completely saturated the soils. A fast moving rain storm in February caused Sonora Creek to overbank flooding the Mother Lode Fairgrounds.
March of 1995	The Governor of California request federal assistance after the County Board of Supervisors declares a state of emergency based on localized flooding within the County.
April of 2006	On April 11 the Board of Supervisors passed an Emergency Resolution proclaiming the existence of a local emergency due to a series of winter storms that had “caused conditions of extreme peril to the safety of persons and property because of localized flooding in the County of Tuolumne”. In Sonora proper, Sonora High was flooded as Sonora Creek overbanked.
March 2011	With the season rainfall accumulations of nearly 60 inches, a late season storm, accompanied by extremely high winds, caused nearly \$750,000 in damages across the county. Damages to the flume systems, roadways, electrical distribution system and tree damage to numerous residences resulted in a request for a Federal Disaster Declaration.



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Local Lake Don Pedro Community Drought History

Date	EVENT DETAILS
1989 - 1992	Precipitation was far below normal in the region during the winters of 1989, 1990, 1991 and 1992, causing the Lake McClure water level to drop 120 feet below LDPCSD pumps. Emergency floating pumps were launched and operated in 1991 and 1992 to provide community water supply
2013 - 2016	Beginning in the winter of 2012/13, precipitation was far below normal causing Lake McClure water level to drop 130 feet below LDPCSD pumps, resulting in the launch of the emergency floating pumps in October 2013. By January 2015, predictions placed the lake water level below the emergency pumps within 60 days. On January 1, 2016, the state prohibited further pumping from Lake McClure creating a surface water outage and reliance on minimal local groundwater

Volcanic History

There is no history of volcanic activity in recorded history. The proximity to volcanic active areas does present a remote threat of ash fall and the associated respiratory illnesses.

Hazardous Materials

While there is not a significant history of hazardous material spills or releases in the immediate area the location of Highway 49 parallel to and above the Merced River canyon as it enters Lake McClure make the threat of hazardous materials spills in Lake McClure near the LDPCSD water intake a distinct possibility.

Sinkholes

There is a poorly documented history of small sinkholes and subsidence as a result of mining activity and the occurrence below ground of carbonated rock formations. There are no recorded events of significance.

Wildfire

In 2017, two wildfires occurred within the District boundaries causing minor localized structure damage, but threatening the entire community. Water supply from the LDPCSD system was used to assist in controlling these fires quickly. In addition, major wildfires occurred in 2017 adjacent to the District boundaries (Detweiler Fire), causing major losses of structures, power outages, and threatening the water supply and pumping facilities of the District.

Date	Description	Impacts
August, 1987	Stanislaus Complex	6 major fires burn 145,950 acres, 28 structures, and 1 life was lost.



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September, 2004	Tuolumne Fire	750 acres burned and 1 firefighter fatality.
August 2013	Rim Fire	257,314 acres burned 112 Structures destroyed
October 2017	Detwiler Fire	81,826 acres burned 63 residences, 67 minor structures and 1 commercial structure destroyed

D. Jurisdiction Specific Hazard Ranking

Given the past history, the current conditions, and the overall life and property threat to the Lake Don Pedro Community Services District the Planning Committee has deemed the probability and severity of each hazard as follows:

Lake Don Pedro CSD	Wildfire	Earthquake	Extreme Weather	Flood	Volcano	Haz Mat	Sinkholes
Probability		L	H	M	L	M	L
Severity		H	H	M	L	L	L

L = Low, M= Medium, H = High

III. VULNERABILITY ASSESSMENT

A. Overview

The vulnerability assessment is a summary of the hazard’s impact to the District’s vulnerable structures. District assets and development trends will be identified and assessed with respect to the developed hazard profiles to ascertain the potential amount of damage that could ensue from each identified hazard. This section will include: 1) A description of the critical buildings and infrastructure within the study areas including future building and land use decisions. 2) A general description of the extent of each hazard’s impacts to these vulnerable structures, 3) An estimate of the potential dollar losses to vulnerable structures.

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B. DMA 2000 Requirements

DMA Requirement §201.6(c)(2)(ii):	The risk assessment shall include a description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.
DMA Requirement §201.6(c)(2)(ii)(A):	The plan should describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.
DMA Requirement §201.6(c)(2)(ii)(B):	[The plan should describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate .
DMA Requirement §201.6(c)(2)(ii)(C):	[The plan should describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land decisions.
DMA Requirement §201.6(c)(2)(iii):	For multi-jurisdictional plans, the risk assessment must assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

C. Critical Facilities and Infrastructure

Critical facilities and infrastructure are those systems within each community whose incapacity or destruction would have a debilitating effect on the community's ability to recover subsequent to a major disaster. The following critical facility and infrastructure are categorized as follows:

1. **Emergency Services** for the health and welfare of the whole population (e.g., hospitals, police, fire stations, emergency operations centers, evacuation shelters, schools).
2. **Lifeline Utility Systems** such as potable water, wastewater, oil, natural gas, electric power and communications systems.
3. **Transportation Systems** including railways, highways, waterways, airways and city streets to enable effective movement of services, goods and people.
4. **High Potential Loss Facilities** such as power plants, dams and levees.

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D. Jurisdictional Assets at Risk to Applicable Hazards

Critical Facilities and Infrastructure	Address	Building Value	Wildfire	Flood	Earthquake	Landslides/Sinkholes	Volcano	Extreme Weather	Hazardous Materials
Water Treatment Plant	17600 Highway 108 Jamestown, CA 95327	\$12,000,000.	✓					✓	✓
Water Tanks (7 locations)	Located between Woods Creek and EQ Basin and Sludge Lagoon	\$7,000,000.	✓		✓	✓		✓	
Lake McClure Pumping Station	Barrett Cove Road, Barrett Cove Marina, Lake McClure	\$5,000,000	✓	✓		✓		✓	
Booster Pump Stations (6 locations)	Throughout LDPCSD	\$1,500,000	✓					✓	
Water Distribution System including 480 Fire Hydrants	Throughout LDPCSD	\$15,000,000.	✓		✓	✓		✓	

E. Methodology Used

To determine the number of critical structures and infrastructure at risk, a combination of field surveys, aerial photos, GIS maps, and Google Earth software were used. The methodology used in preparing the Vulnerability Estimate consisted of determining the value of critical buildings and facilities from insurance property schedules. Critical infrastructure values were established by using actual replacement costs which were determined by recent comparable replacement projects.

F. Loss Estimations

Dollar losses to buildings and infrastructure vary depending upon the natural hazard occurring and the severity of the hazard. In general, earthquakes can extensively damage a wide area therefore critical structure and infrastructure losses should be estimated at a 100% value. Destruction from flooding takes place in specific areas and the damage is historically less severe than that of an earthquake. Thus, the estimated loss as a result of flooding should be calculated at the 50% level. Damage resulting from wildfires should be calculated at 25% of structural value for those structures located within 300 feet of the wildfire areas. Extreme weather could impact any portion of the jurisdiction. Historical data indicates that these events are extremely localized and a 10% loss should be anticipated.



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G. Development Trend Analysis

While the population of Tuolumne County is not expected to grow significantly in the next five years, there are Land Use policies and elements within the County General Plan to help assure orderly development when it does occur.

In addition, the Local Agency Formation Commission (LAFCO) of Tuolumne County is tasked with the mission to provide an orderly pattern of growth that reconciles the varied needs of the County. One of the fundamental principles of LAFCO is to ensure the establishment of an appropriate and logical municipal government structure for the distribution of efficient and appropriate public services. LAFCO Land Use Objectives include:

- The discouragement of urban sprawl
- Preservation of the physical and economic integrity of agricultural lands
- Preservation of open space within urban development patterns
- Orderly formation and development of agencies by shaping local agency boundaries
- The minimization of agencies providing services to a given area
- Utilization of Spheres of Influence to guide future development of agency boundaries

IV. CAPABILITY ASSESSMENT

The following resources are available to the jurisdiction in order to mitigate the effects of the identified hazards:

A. Legal and Regulatory

Lake Don Pedro Community Services District (JSD) is a Special District formed pursuant to California Government Code 61000 et seq. The LDPCSD is governed by an elected 5 person Board of Directors. Legal services (District Counsel), financial audits and district engineering services are provided by independent consultants on an as required and needed basis as appointed by the Board of Directors.

B. Administrative and Technical

Lake Don Pedro Community Services District has well qualified staffing and organizational capability. Under the policy direction of the Board of Directors, the General Manager is responsible for the day to day management of the district finances, facilities personnel and services. An Office Manager is responsible for the district records, accounting functions and Board records.

Field staff, under the direction of the Water Operations Manager, consists of certified water treatment plant and water distribution system operators; certified by the State of California. The field staff is responsible for the day to day operation of the water treatment plant and operation/maintenance of the water distribution system of the District.

General engineering (District Engineer) is provided by an independent consultant on an as needed basis and under the direction of the General Manager. Other specialty consultants are hired on an as needed basis to perform independent auditing, long term planning and design for water system needs.



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C. Financial

The District is funded by user fees for operations and maintenance. Capital improvements projects are funded by user fees, developer capacity/connection fees and grant/loans as available. Reserve funds are available for unanticipated operating expenses, but would be insufficient in a catastrophic event.

D. Physical Assets

The District has adequate manpower, contractors, equipment and resources to plan and implement the hazard mitigation projects identified, and to conduct major system repairs.

E. Political Will

The District’s Board of Directors recognizes the need for promoting, planning and implementing hazard mitigation strategies. The reduction in potential effects from a natural disaster will prove to be a tangible result of such planning. Efforts to secure funding for large-scale hazard mitigation projects are supported by the Board of Directors.

V. MITIGATION STRATEGY

A. DMA 2000 Requirements

- DMA Requirement §201.6(c)(3)(i):** The hazard mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.
- DMA Requirement §201.6(c)(3)(ii):** The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

B. 2013 Mitigation Action Progress Report

2013 Jurisdiction Specific Mitigation Actions	Progress Made
Lake Don Pedro CSD was not include in the 2013 MJHMP.	

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Other Mitigation Progress Accomplishments

As a result of the extended drought and dangerously low lake water level and community water supply, the LDPCSD received grant funding from four different sources beginning in January 2015 for the construction of groundwater wells to offset the impending loss of its Lake McClure water supply. By December 2015, three groundwater wells were completed at a cost of \$1.8 million and providing adequate water supply to meet the winter community water demand. On January 1, 2016 the State Water Resources Control Board mandated the discontinuance of surface water pumping from Lake McClure until the water surface elevation reached the 625 foot statutory minimum pool elevation, which occurred in March 2016. The emergency groundwater wells provided 100% of the community water supply needs for January and February 2016.

In August 2017, the District completed installation of a second booster pump at the Lake McClure pumping facility to provide redundant pumping capacity in low lake conditions caused by drought at a cost of approximately \$130,000. In addition, the emergency Lake McClure floating pump system which is operated during low lake levels caused by drought, was decommissioned due to structural failure and the design of a renovated floating pump system begun in November 2017. Completion of the renovated emergency floating pump system is expected to take 90 days following completion of design in January 2018. The estimated cost of emergency pump system renovation is approximately \$80,000.

The District has also been experiencing water distribution system leakage and losses totaling up to 30% of the total water pumped into the system. Grant funds and District reserves have been used to implement a Water Service Line Replacement Project which began under emergency conditions in 2015, and is planned for completion by September 2018, at a total cost of approximately \$1.5 million.



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C. Goals, Objectives and Mitigation Actions 2018

Goal 1 **Promote understanding and support for hazard mitigation by key stakeholders and the public within Tuolumne County.**

Applies to: All jurisdictions

Objective 1 Educate key stakeholders and the public to increase awareness of hazards and opportunities for mitigating hazards.

Mitigation Action 1A: Through newsletters, advertisements, speaking engagements and other public contacts, educate the general public and key stakeholders on the issues, responsibilities, and current efforts and successes in the area of disaster preparedness as they impact each agency.

Mitigation Action 1B: Conduct periodic workshops and promotion of the Emergency Notification Systems available to the public to ensure familiarity of the public to warning applications.

Goal 2 **Ensure that future development is protected from natural disasters.**

Applies to: Tuolumne County, City of Sonora, Tuolumne Band of Me-Wuk Indians, and the Tuolumne Utilities District.

Objective 2 Limit new development in hazardous areas, and as permissible, build to standards that will prevent or reduce damage.

Mitigation Action 2A: Educate the County and City planning staffs, administrative staffs and elected officials on the importance of keeping current on trends and developments in disaster preparedness.

Mitigation Action 2B: Encourage planning staffs to attend seminars and lectures on naturally occurring hazards so that they may better assist the appropriate governing bodies as they process future developments.

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Mitigation Action 2C: In order to better protect life and property, continue to develop a more accurate and comprehensive series of countywide GIS geology, fire, and flood maps and data sets.

Goal 3 **Build and support local capacity and commitment to minimize the jurisdictions within Tuolumne County's vulnerability to potential hazards.**

Applies to: All jurisdictions

Objective 3.1 Improve existing capabilities to manage emergency situations.

Objective 3.2 Enhance the safety of residents, students and staff within the community and jurisdictions.

Objective 3.3: Enhance the communications between agencies to support emergency response

Mitigation Action 3.1A: In order to ensure that employees are available to assist during a major emergency, develop and adopt a Family Support Plan for all jurisdictions and County agencies.

Mitigation Action 3.1B: Review and when necessary, update the jurisdiction's Emergency Operations Plans and supporting documents to ensure coordination with the County's new Emergency Services' Plan.

Mitigation Action 3.1C: Assist with Public Health Emergency Preparedness to plan and prepare for medical and healthcare impacts which would result from all hazards within the County

Mitigation Action 3.2A: Review the initial planning requirements and research the development of standard operating procedures which would minimize helicopter operations over Sonora Elementary School as they utilize the helistop at Sonora Regional Medical Center

Mitigation Action 3.2B: Support the efforts of the Tuolumne Utilities District to better protect public health by initiating a Watershed Sanitary Survey



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Mitigation Action 3.2C: Assist the County in identifying opportunities for additional evacuation routes within single-access areas

Mitigation Action 3.2D: TUD will study and seek funding to increase the raw water storage or establish a secure conveyance from Lyons Reservoir to ensure service for both domestic consumption and urban fire protection

Mitigation Action 3.2E: Make improvements to wastewater systems by replacing or relining collection pipes so as to reduce sewer overflows and limit inflow and infiltration subsequently reducing the public health threat.

Mitigation Action 3.2F: Develop a program that would, in emergency situations, enable water districts and water companies to share water resources through interconnections

Mitigation Action 3.2G: Develop a program to secure water rights for Tuolumne County

Mitigation Action 3.2 H: Promote a county-wide sewer connection to reduce septic failure impacts and improve water quality.

Mitigation Action 3.2I: Promote land use recommendations that new developments occur adjacent to public water and wastewater facilities.

Mitigation Action 3.3: Build and maintain communications between County agencies, Special Districts, and the Tuolumne Band of Me-Wuk Indians to assist in the response to emergencies

Goal 4 **Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to flooding.**

Applies to: Tuolumne County, City of Sonora, Curtis Creek School District, Belleview School District

Objective 4 Enhance the ability of community assets, particularly critical facilities, located in the 100-year floodplain to handle existing and projected flood levels

Mitigation Action 4A Work to improve localized flood prone areas through a combination of vegetation management and storm drain



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improvements. (i.e. Sonora, Curtis, Sullivan, and Woods Creeks)

- Mitigation Action 4B: Maintain compliance with the National Flood Insurance Program (NFIP) requirements.
- Mitigation Action 4C: Through the Development Process Review Team, restrict construction of essential service facilities in the 100-year flood plain.
- Mitigation Action 4D: In order to better protect life and property, record a notice on properties located in flood zones utilizing FIRM maps and notify property owners of said action.
- Mitigation Action 4E: Continue to work cooperatively with the state and federal flood related agencies for funding improvements through grant and agency programs.
- Mitigation Action 4F: Seek funding sources for and initiate watershed improvement projects for the County.
- Mitigation Action 4G: Study ways to improve drainage to prevent erosion on the steep slopes of the Curtis Creek campus and seek funding sources for mitigation.
- Mitigation Action 4H: Study ways to improve drainage to prevent erosion on the steep slopes of the Belleview School campus and seek funding sources for mitigation.
- Mitigation Action 4I: Work with Belleview School to identify and evaluate opportunities to create additional evacuation routes within the single-access areas in the district.

Goal 5 **Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to wildland fires.**

Applies to: All Jurisdictions



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- Objective 5.1 Continue the comprehensive approach to reducing the level of damage and losses due to wildland fires through vegetation management, code enforcement, GIS mapping, and planning process.
- Objective 5.2 Enhance collaboration amongst all fire agencies and stakeholders.
- Mitigation Action 5.1A: In order to assist fire prevention efforts and to better manage large fires when they occur, continue to improve GIS mapping and tracking efforts by gathering and maintaining relevant GIS data layers and imagery and utilizing the best available mapping applications and software.
- Mitigation Action 5.1B: Continue to work with the Hwy 108 Fire Safe Council, Yosemite Foothills FireSafe Council, and SWIFT to initiate fuel thinning and chipping projects in high priority areas. Collaborate with property owners and regulatory agencies in order to utilize prescribed fire on private and state owned lands in the county.
- Mitigation Action 5.1C: Work with the Hwy 108 Fire Safe Council, Yosemite Foothills Fire Safe Council, and SWIFT to update as needed the Community Wildfire Protection Plans for the County so that they will continue to:
- Assess the fire hazard in the County
 - Prioritize treatment areas
 - Enhance collaboration amongst all fire agencies and stakeholders
 - Streamline environmental review processes
- Mitigation Action 5.1D: Develop a wildfire evacuation plan which includes sheltering in place at Curtis Creek School.
- Mitigation Action 5.1E: Work with the Tuolumne Utilities District to improve fire flow, system reliability and redundancy, and increased water supply in their responsibility areas.
- Mitigation Action 5.1F: Protect water conveyance system by reducing fuels adjacent to wooden flumes.
- Mitigation Action 5.1G: Develop a County Fire Agency GIS layer showing fire water draft locations.
- Mitigation Action 5.1H: Work with the Lake Don Pedro Community Services District to improve



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system reliability and redundancy, and increased water supply in their responsibility areas.

Mitigation Action 5.1I: Work with the Lake Don Pedro Community Services District and PG&E to improve the reliability of the electrical grid in Don Pedro and provide for emergency backup power supply to be used during power outages at critical water system facilities.

Mitigation Action 5.2A: Encourage participation of all Fire Agencies in the monthly Fire Chief Association meetings and support, when possible, efforts by the Association to improve fire protection and preventions efforts in the County.

Mitigation Action 5.2B: Encourage participation in cooperative automatic and mutual aid agreements between Districts, the County and the City of Sonora.

Goal 6 **Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to geological events (earthquakes, volcanoes, landslides, and sinkholes).**

Applies to: All jurisdictions

Objective 6 Continue public education efforts so as to better prepare the citizens of Tuolumne County from the effects of a significant geological event

Mitigation Action 6A: Working with Cal OES, increase participation in earthquake preparedness activities such as the annual Great California Shake-Out drill

Mitigation Action 6B: Continue to support the work of utility districts in replacing sewer and water lines and portions of the flume that are the most vulnerable to an earthquake or landslide

Goal 7 **Limit risk to, and impacts from hazardous materials spills, intentional discharges, illegal disposals, transportation accidents, or system failures**



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Applies to: All Jurisdictions

Objective 7.1 Continue efforts to manage the use, sale, distribution and disposal of hazardous materials in Tuolumne County

Objective 7.2 Improve emergency response efforts in the control and clean-up of accidental spills and releases

Mitigation Action 7.1A: Educate community members on the dangers associated with household hazardous materials including proper storage techniques

Mitigation Action 7.1B: Continue efforts to educate applicable employees on the handling, use, storage and disposal of hazardous materials utilized in the workplace

Mitigation Action 7.2A: In coordination with the Environmental Health Director, develop procedures to enhance the response to Hazardous Material Incidents

Goal 8 **Minimize the level of damage and losses to people, existing and future infrastructure, and critical facilities due to extreme weather**

Applies to: All Jurisdictions

Objective 8.1 Continue the comprehensive approach to reducing the level of damage and losses due to extreme weather and drought through GIS mapping, planning process, and the removal of dead and dying trees.

Mitigation Action 8.1A : Analyze and remove hazards that threaten public safety due to the cascading effects of drought such as dry wells and tree mortality

Mitigation Action 8.1B: Encourage water agencies to conduct water supply evaluations for each public water system to determine the effect of drought on community water supply

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- Mitigation Action 8.1C: Work with the Lake Don Pedro Community Services District to improve the availability and reliability of Lake McClure pumping capacities at lower water surface elevations
- Mitigation Action 8.1D: Work with the Lake Don Pedro Community Services District to increase groundwater supply and/or identify other alternate water sources to be used when drought and related reservoir operational requirements diminish the water supply available from Lake McClure



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D. How Mitigation Goals Address Existing and New Buildings and Infrastructure

The following tables demonstrate how the proposed mitigation goals take into account both existing and new buildings and infrastructure.

MITIGATION GOALS	EXISTING BUILDINGS AND INFRASTRUCTURE						
	Electrical and Power Infrastructure	Dams and Water Management	Communication Facilities	Critical Roads & Bridges	Essential Service Facilities (Fire, Law, Hospitals)	Agricultural Infrastructure	Public Structures
Goal 1-General Mitigation: Promote understanding and support for hazard mitigation by key stakeholders and the public within the County of Tuolumne.	X	X	X	X	X	X	X
Goal 2-General Mitigation: Ensure that future development is protected from natural disasters.	X	X	X	X	X	X	X
Goal 3-General Mitigation: Build and support local capacity and commitment to minimize the County of Tuolumne's vulnerability to potential hazards.		X		X	X	X	X
Goal 4-Flood: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to flooding.	X	X	X	X	X	X	X



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<p>Goal 5-Wildfire: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to wildfire.</p>	X	X	X	X	X	X	X
<p>Goal 6-Earthquake: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to earthquake, landslide and sinkholes.</p>	X	X	X	X	X	X	X
<p>Goal 7-Hazardous Materials: Limit risk to, and impacts from hazardous materials spills, intentional discharges, illegal disposals, transportation accidents, or system failures</p>		X			X	X	X
<p>Goal 8- Extreme Weather: Minimize the level of damage and losses to people, existing and future critical facilities, and infrastructure due to extreme weather.</p>	X	X		X	X		X



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MITIGATION GOALS	NEW PROJECTS/BUILDINGS AND INFRASTRUCTURE					
	Residential Subdivisions	Various mixed use projects (residential	Ag Clusters (residential, open space, and Ag uses)	Commercial and Industrial Projects	Essential Service Facilities	Public Structures
Goal 1-General Mitigation: Promote understanding and support for hazard mitigation by key stakeholders and the public within the County of Tuolumne.	X	X	X	X	X	X
Goal 2-General Mitigation: Ensure that future development is protected from natural disasters.	X	X	X	X	X	X
Goal 3-General Mitigation: Build and support local capacity and commitment to minimize the County of Tuolumne's vulnerability to potential hazards.	X	X	X	X	X	X
Goal 4-Flood: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to flooding.	X	X	X	X	X	X



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<p>Goal 5-Wildfire: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to wildfire.</p>	X	X	X	X	X	X
<p>Goal 6-Earthquake: Minimize the level of damage and losses to people, existing and future critical facilities and infrastructure due to earthquake, landslide and sinkholes.</p>	X	X	X	X	X	X
<p>Goal 7-Hazardous Materials: Limit risk to, and impacts from hazardous materials spills, intentional discharges, illegal disposals, transportation accidents, or system failures</p>	X	X	X	X	X	X
<p>Goal 8- Extreme Weather: Minimize the level of damage and losses to people, existing and future critical facilities, and infrastructure due to extreme weather.</p>	X	X			X	X



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VI. MITIGATION ACTION IMPLEMENTATION

A. DMA 2000 Requirements:

DMA Requirement §201.6(c)(4)(i):	The plan maintenance process shall include a section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.
DMA Requirement §201.6(c)(4)(ii):	The plan shall include a process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.
DMA Requirement §201.6(c)(3)(iii):	The mitigation strategy section shall include an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.
DMA Requirement §201.6(c)(3)(iv):	For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

B. Prioritization of Mitigation Actions

The Mitigation actions were prioritized using a system which is outlined below. This system factored in the following components: 1) Probability of Occurrence 2) Effectiveness of Mitigation Actions, 3) Practicality of mitigation action for the jurisdiction based on the STAPLE+E criteria of Social, Technical, Administrative, Political, Legal, Economic and Environmental components. This gave rise to the development of an overall relative risk value that resulted in ratings of HIGH, MEDIUM and LOW for each of the mitigation actions. The resultant prioritization was presented to criteria key stakeholders and lengthy discussions were held to ensure that the results were indeed applicable to the priorities and capabilities of the jurisdictions served.



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Sample Mitigation Action Prioritization Worksheet

Mitigation Action	Probability of Associated Threat Occurrence Low=1 Med.=2 High=3	Effectiveness of Mitigation Action Minimal=1 Moderate=2 High=3	Practicality (based on STAPLE+E criteria) Low=1 Medium=2 High=3	Relative Risk (Product of Risk Components)
1.A	3	2	3	18

In assessing and evaluating each strategy, the following factors were considered:

- The benefit justified the cost
- The availability of financial resources
- The availability of staff resources
- Impact on County department functions
- Strategies reflect the goals and objectives

C. Action Plan

Once the MJHMP has received formal adoption by the Board of Supervisors and the various governing bodies the following action plan, agreed upon by Hazard Mitigation Planning Group, will be used to ensure the Plan is implemented and remains an active and relevant document. Actual implementation may be dependent upon funding availability.

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ACTION PLAN FOR TUOLUMNE COUNTY MULTI-JURISDICTIONAL PLAN

MITIGATION ACTION		IMPLEMENTATION STRATEGY			
ID	DESCRIPTION	RESPONSIBLE DEPARTMENT	FUNDING SOURCES	TIME TO COMPLETE	PRIORITY
1.A	Educate Public and Stakeholders	OES – lead All support	General Funds	Ongoing	Medium
1.B	Promote Everbridge	OES- lead All Support	None Required	Ongoing	Low
2.A	Educate Staff	OES – lead All support	None Required	Ongoing	Medium
2.B	Continuing Education	OES –lead All support	General Funds	Ongoing	Medium
2.C	Improve GIS Capabilities	County CRA, City of Sonora & CAL Fire	General Funds	36 Months	Medium
3.1A	Develop/ Adopt Family Support Plan	All agencies OES support	General Funds	12 Months	Medium
3.1B	Emergency Operations Plans	All agencies OES support	None Required	12 Months	Medium
3.1C	Medical Preparedness	Public Health- Lead	None Required	Ongoing	Medium
3.2A	Helicopter Operations	OES	None Required	Ongoing	Low
3.2B	Watershed Survey	TUD	Grant	12 Months	Medium
3.2C	Single Access Routes	Fire Safe Council and Community Resources	Grant and General Fund	36 Months	Medium
3.2D	Raw Water Storage	TUD	Grant	24 Months	Medium
3.2E	Wastewater System Improvements	TUD	General Fund & Grants	24 Months	High
3.2F	Water Interconnections	All water agencies	None Required	36 Months	Medium



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3.2G	Water Rights	All water agencies	Grants & General Funds	Ongoing	Medium
3.2H	Promote Sewer Connection	Water Agencies with support of all agencies	None Required	Ongoing	Low
3.2I	Promote Development adjacent water facilities	Water Agencies with support of all agencies	None Required	Ongoing	Low
3.3	Maintain Communications	All agencies	None Required	Ongoing	Medium
4.A	Creek/Storm Drain Management	County CRA and City of Sonora	General Fund	Fall of each year	Low
4.B	NFIP Requirements	County CRA and City of Sonora	General Fund	Ongoing	Medium
4.C	Development Review	County CRA and City of Sonora	General Fund	Ongoing	Medium
4.D	Notice Property Owners	County CRA and City of Sonora	General Fund	24 Months	Medium
4.E	Storm Drain Improvements	County CRA and City of Sonora	Grants	Ongoing	Medium
4.F	County Watershed Projects	County CRA	Grants	36 Months	Medium
4.G	Drainage	Curtis Creek School District	Grants	24 Months	Medium
4.H	Drainage	Bellevue School District	Grants	24 Months	Medium
4.I	Single Access Routes	Bellevue School	Grants	24 Months	Medium
5.1A	Improve GIS Mapping and Tracking	CAL Fire-County Fire	General Fund	36 Months	Medium
5.1B	Fuel Thinning and Chipping Projects	All fire agencies	Grants	Ongoing	High
5.1C	Community Wildfire Protection Plan Update	CAL Fire-County Fire	General Fund	12 Months	Medium
5.1D	Improve Water Supply/ Storage at Curtis Creek School	Curtis Creek School District	Grants	24 Months	High



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5.1E	Evacuation Plans for Curtis Creek	District Superintendent with fire agencies supporting	None Required	12 Months	High
5.1F	Water Supply/Fire Flow	TUD, with fire agencies supporting	General Funds and Grants	36 Months	High
5.1G	Protect Flumes	TUD, with fire agencies supporting	General Funds and Grants	Ongoing	Medium
5.1H	County Fire GIS Layer	County GIS- Lead OES- Support	General Funds	36 Months	Low
5.1I	Increase Water Supply for Lake Don Pedro CSD	Lake Don Pedro CSD- Lead OES-Support	General Funds and Grants	36 Months	Medium
5.1J	Increase Alternate Power Source for Lake Don Pedro	Lake Don Pedro CSD- Lead OES-Support	General Funds and Grants	24 Months	Medium
5.2A	Fire Chiefs Association	All fire agencies	None Required	Ongoing	Medium
5.2B	Mutual/Auto Aid	All fire agencies	None Required	Ongoing	Medium
6.A	Earthquake Preparedness Exercises	OES – lead All support	None Required	Fall of Each Year	Medium
6.B	Replace Vulnerable Water/Sewer Lines	TUD	General Fund	24 Months	Medium
7.1A	Educate Community on Hazardous Materials	OES – lead All support	None Required	Ongoing	Medium
7.1B	Educate Staff on Hazardous Materials	OES – lead All support	None Required	Ongoing	Medium



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7.2A	Improve Response Capabilities	Environmental Health– lead fire agencies support	None Required	Ongoing	Medium
8.1A	Removal of safety hazards caused by dry wells and Tree Mortality	All Agencies	Grant	36 Months	High
8.1B	Water Supply Evaluation at Lake McClure	Lake Don Pedro CSD- Lead OES Support	Grant and General Fund	24 Months	Medium
8.1C	Improve Pumping Capacity at Lake McClure	Lake Don Pedro CSD- Lead OES Support	Grant and General Fund	24 Months	Medium
8.1D	Alternate Water Sources to Lake McClure	Lake Don Pedro CSD- Lead OES Support	Grant and General Fund	36 Months	Medium



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

D. Implementation Through Existing Plans and Programs

Tuolumne County currently uses comprehensive land use planning, capital improvements planning, and building codes to guide and control development within the County. This MJHMP will be provided to those responsible for the County's General Plan development mechanisms to ensure that consistency is maintained. The same holds true whenever substantive changes are made.

Mitigation Actions have been assigned to specific jurisdictions. These individual actions will fall under the general administrative oversight of the local governing body. Should technical expertise not be available in these agencies, the County Office of Emergency Services is committed to, when possible, coordinating the resources of the County to assist with implementation of the mitigation actions.

The general administrative oversight of this MJHMP rests with the Tuolumne County Office of Emergency Services.

E. Continued Public Involvement

Tuolumne County and the District understand the importance of involving the public in the ongoing Hazard Mitigation Plan review and updating process. Resultantly, the following actions will be taken:

- A copy of the MJHMP will be posted on the County website
- Hard copies of the Plan will be available at the County Office of Emergency Services the County Library, and on the Lake Don Pedro CSD website.

F. Plan Monitoring, Evaluating and Updating

DMA Requirement §201.6(d)(3): A local jurisdiction must review and revise its plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit if for approval within 5 years in order to continue to be eligible for mitigation project grant funding.

In order to continue to be an effective representation of each jurisdiction's overall strategy for reducing its risks from natural hazards, the mitigation plan must reflect current conditions. Monitoring and evaluating the plan will occur annually to make certain that the goals and objectives for the County and participating jurisdictions are current and mitigation activities are being carried out.

To ensure that regular review and update of this Multi-Jurisdictional Hazard Mitigation Plan takes place, the County Office of Emergency Services will communicate with the MJHMP Planning Group members annually to see if their plan components are up-to-date and meet current realities.



Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan

The MJHMP Planning Group will review each goal and objective to evaluate its:

- Relevance to current and evolving situations in Tuolumne County
- Consistency with changes in local, state and federal policy

The planning group will review the risk assessment component of the plan to ascertain if the information needs to be updated or modified. Each jurisdiction will report on:

- Current status of their mitigation actions
- How coordination efforts are proceeding
- Implementation processes that worked well
- Any difficulties encountered
- Any strategies in need of revision

If the plan review leads the Hazard Mitigation Planning Group to determine that modifications are necessary, then the County or the applicable jurisdiction can initiate a plan amendment.

Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan



Acronyms

Acronym	Definition
CGS	California Geological Survey
Cal EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAL Fire	California Department of Forestry and Fire Protection
CDF	California Department of Forestry and Fire Protection
CDHS	California Department of Health Services
CFR	Code of Federal Regulations
CGS	California Geological Survey
CISN	California Integrated Seismic Network
CSSC	California Seismic Safety Commission
DFG	State Department of Fish and Game
DHS	Department of Homeland Security
DWR	Department of Water Resources
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance
FMP	Floodplain Management Plan
FRAP	Fire and Resource Assessment Program
GIS	Geographic Information System
HMGP	Hazard Mitigation Grant Program
LHMP	Local Hazard Mitigation Plan
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NPS	National Park Services
OES	Governor's Office of Emergency Services
SEMS	Standardized Emergency Management System
SFHA	Special Flood Hazard Area
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey

**LAKE DON PEDRO COMMUNITY SERVICES DISTRICT
RESOLUTION NO. 17-___**

**ADOPTION OF AN UPDATED MULTI-JURISDICTION LOCAL HAZARD
MITIGATION PLAN**

WHEREAS, the Lake Don Pedro Community Services District's (District) recognizes that natural hazards threaten the well-being of people and property within the Lake Don Pedro community and that the risk of such threats can be reduced by undertaking hazard mitigation planning and pre-disaster mitigation projects; and

WHEREAS, the Disaster Mitigation Act of 2000 (Disaster Act) was put in place to reduce the risks of natural hazards and the costs of post-disaster assistance by establishing a national program for pre-disaster mitigation, including a Hazard Mitigation Grant Program (HGMP) that helps fund pre-disaster mitigation projects; and

WHEREAS, the Disaster Act requires local governments to develop and submit local mitigation plans in order to qualify for the HGMP funds; and

WHEREAS, the other Districts in Tuolumne County participated in hazard mitigation planning and adopted local Hazard Mitigation Plans in 2012, which were included as attachments to the 2013 Tuolumne County (County) Multi-Jurisdiction Hazard Mitigation Plan (2013 Plan); and

WHEREAS, the District, in conjunction with County and other local agencies, have participated in a mitigation planning process to update the 2013 Plan; and

WHEREAS, the attached District Hazard Mitigation Plan includes the results from said process that will be incorporated as an annex to the updated County Multi-Jurisdiction Hazard Mitigation Plan upon adoption by the District Board.

NOW, THEREFORE, BE IT RESOLVED, by the District Board of Directors that:

1. The District accepts the updated Tuolumne County Multi-Jurisdiction Hazard Mitigation Plan as an official plan and adopts the attached District Hazard Mitigation Plan to be attached as an annex to said County Plan.
2. The District shall forward this Resolution and District Hazard Mitigation Plan to the Governor's Office of Emergency Services and the Federal Emergency Management Agency to enable final approval of the Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan.

PASSED AND ADOPTED, by the Board of Directors of Lake Don Pedro Community Services District on November 20, 2017 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

ATTEST:

Danny Johnson, Board President

Syndie Marchesiello, Board Secretary