

DAMS WITHIN JURISDICTION OF THE STATE OF CALIFORNIA

RESERVOIR RESTRICTIONS

SEPTEMBER 2022

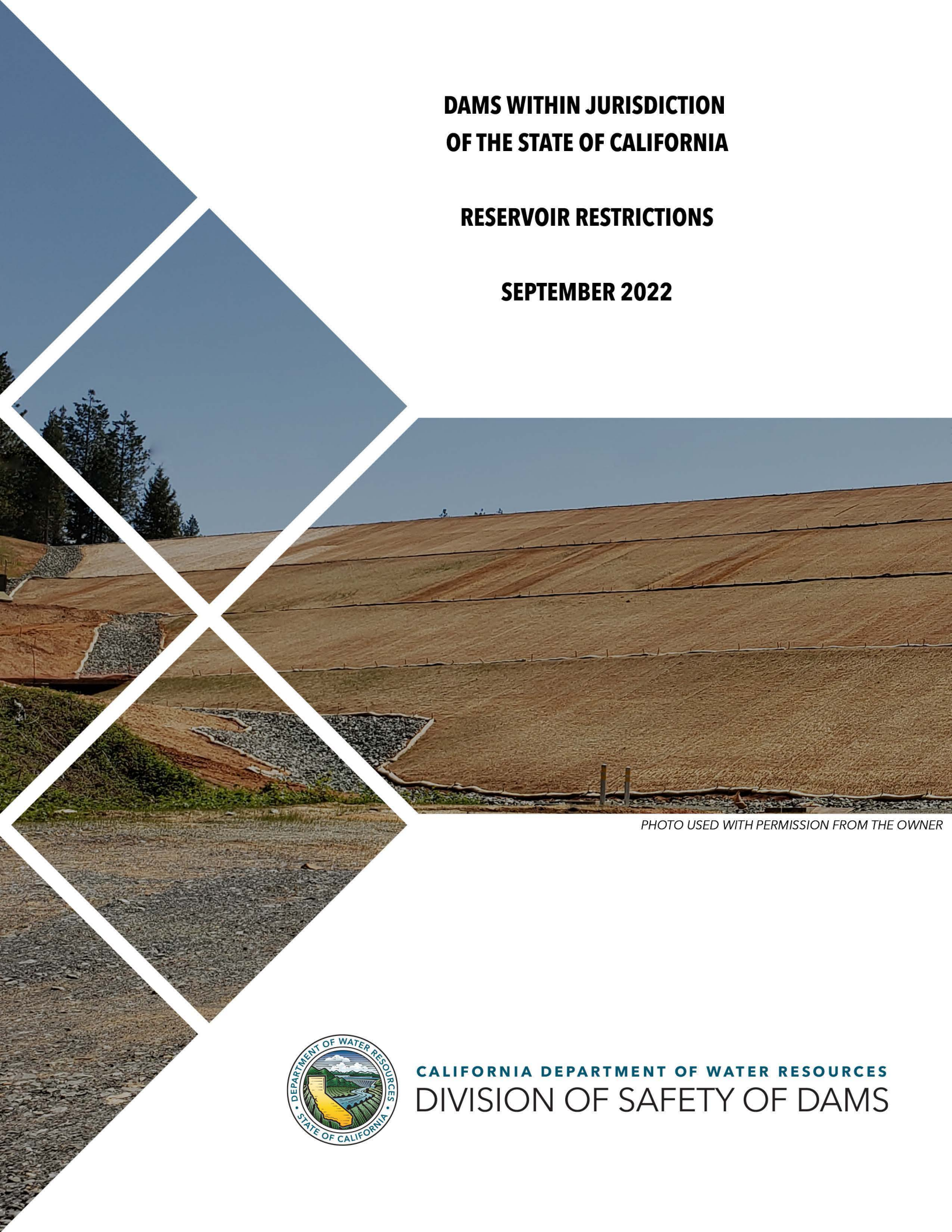


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CALIFORNIA DEPARTMENT OF WATER RESOURCES
DIVISION OF SAFETY OF DAMS

Reservoir Restrictions

California's Dam Safety Program was established on August 14, 1929. The California Water Code entrusts the state regulatory authority of non-federally owned and operated dams and reservoirs to the Department of Water Resources, which delegates this authority to its Division of Safety of Dams (DSOD). The California Dam Safety Program includes annual maintenance inspections, construction oversight, independent design reviews, re-evaluations of existing dams, inundation map reviews for emergency action plans, and emergency response.

Reservoir restrictions are typically imposed when dam safety related deficiencies are identified at a dam or its related facilities. To reduce the risk, DSOD may direct an owner to operate the reservoir at a water surface elevation level that is lower than the maximum storage level. A reservoir restriction reduces potential downstream impacts to life, property, and the environment by lessening possible flood inundation scenarios as an interim risk reduction measure until the dam or structure is repaired.

The following report contains the dams under DSOD's jurisdiction with restricted reservoirs. DSOD defines the reason for the reservoir restriction in three categories: seismic, hydraulic or other (deficiencies not related to hydraulic or seismic).

Dam Name: #3 Forebay

Dam Number: 95-6

Owner Name: Pacific Gas and Electric Company

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: December 28, 2018

Reason for Restriction: Other

Owner's Reported Planned Action(s): PG&E has announced the divestiture of the Crane Valley Hydroelectric Project. PG&E has taken the #3 Forebay, an off-stream facility out of service. The sale will include the dam in "as-is" condition, for the buyer to repair after transfer of ownership.

Dam Name: Almaden

Dam Number: 72-4

Owner Name: Santa Clara Valley Water District

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: March 29, 2012

Reason for Restriction: Hydraulic

Owner's Reported Planned Action(s): The Almaden Dam Improvements Project is currently under design. The reservoir restriction will be removed after completion of the improvements.

Dam Name: Bass Lake

Dam Number: 1-85

Owner Name: California Department of Fish and Wildlife

Condition Assessment: Poor

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: June 28, 2022

Reason for Restriction: Other

Owner's Reported Planned Action(s): An existing contract with a conservation organization has been amended to include repairs. Work is scheduled to be completed prior to the 2022-23 diversion season, Dec 1, 2022.

Dam Name: Bear Gulch

Dam Number: 581-6

Owner Name: California Water Service Company

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: March 5, 2012

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): Cal Water's dam is safe as operated, and done so with the approval of DSOD. Cal Water is currently moving forward with updates to the reservoir outlet and continues to evaluate the dam for future improvements.

Dam Name: Calero

Dam Number: 72-3

Owner Name: Santa Clara Valley Water District

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: February 8, 2013

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): The Calero Dam Seismic Retrofit Project is currently under design. The reservoir restriction will be removed after completion of the seismic retrofits.

Dam Name: Campbell Lake

Dam Number: 180-0

Owner Name: Private Entity

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: October 6, 2010

Reason for Restriction: Other

Owner's Reported Planned Action(s): The outlet will be used to meet the restricted elevation but will be closed in summer to maintain water for fire emergency situations and due to the curtailment order on irrigation releases.

Dam Name: Double U Fish Ranch

Dam Number: 7000-143

Owner Name: Private Entity

Condition Assessment: Unsatisfactory

Downstream Hazard Potential Classification: High

Effective Date of Restriction: February 23, 2021

Reason for Restriction: Other

Owner's Reported Planned Action(s): No response from owner.

Dam Name: Early Intake

Dam Number: 9-0

Owner Name: San Francisco Public Utilities Commission

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: October 30, 1998

Reason for Restriction: Other

Owner's Reported Planned Action(s): HHWP determined that a short-term improvement is too expensive and doesn't adequately address the needs, so HHWP has moved on to a long-term fix or replacement of this dam. Study is currently occurring on possible options to submit to SFPUC and DSOD.

Dam Name: El Capitan

Dam Number: 8-7

Owner Name: City of San Diego

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: May 27, 2015

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): An initial geologic and seismic stability evaluation of El Capitan Dam has been completed. Additional analyses will be needed to determine if improvements to the dam are needed to mitigate the seismic stability concern.

Dam Name: El Dorado Forebay

Dam Number: 53-10

Owner Name: El Dorado Irrigation District

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: February 12, 2021

Reason for Restriction: Other

Owner's Reported Planned Action(s): EID conducted a geophysical survey to identify seepage paths. EID's consultant concluded seepage conditions do not present a dam safety issue. Monitoring continues, and the status of the dam will be further discussed with DSOD in early 2023.

Dam Name: Gem Lake

Dam Number: 104-37

Owner Name: Southern California Edison

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: February 14, 2013

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): As planned, the Arch 8 outlet has been upgraded to help maintain safe reservoir levels. The permanent mitigation will be determined through consultation with resource agencies and stakeholders during relicensing.

Dam Name: Guadalupe

Dam Number: 72-5

Owner Name: Santa Clara Valley Water District

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: April 25, 2012

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): The Guadalupe Dam Seismic Retrofit Project is currently under design. The reservoir restriction will be removed after completion of the seismic retrofits.

Dam Name: Haiwee

Dam Number: 6-24

Owner Name: City of Los Angeles Department of Water And Power

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: July 23, 2002

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): A new earth fill dam will be constructed 800 feet north of the existing North Haiwee Dam. Ground improvement will be completed for the foundation of the new dam. The new dam project is currently in construction.

Dam Name: Healdsburg Recreation

Dam Number: 1002-0

Owner Name: County of Sonoma Regional Parks Department

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: August 25, 2014

Reason for Restriction: Other

Owner's Reported Planned Action(s): Per DSOD's reservoir restrictions in place, Healdsburg Recreation Dam operates at a reduced reservoir height of 7' and completes annual monitoring of critical dam components.

Dam Name: Lafayette

Dam Number: 31-2

Owner Name: East Bay Municipal Utility District

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: December 11, 2017

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): The dam is safe. The tower requires seismic upgrades. EBMUD lowered the reservoir and is performing environmental studies and evaluating retrofit alternatives. Permitting, design, and public outreach will follow, with construction planned in 2024.

Dam Name: Lake Alta

Dam Number: 1030-7

Owner Name: Placer County Water Agency

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: June 7, 2019

Reason for Restriction: Hydraulic

Owner's Reported Planned Action(s): Further review by DSOD of the geotechnical and stability analysis necessary before further progress on design.

Dam Name: Lake Buck

Dam Number: 291-0

Owner Name: Private Entity

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: November 8, 2017

Reason for Restriction: Hydraulic

Owner's Reported Planned Action(s): A depth survey will be performed to determine reservoir storage capacity at the current lowered spillway control section with the intent to eventually remove the dam from state jurisdiction.

Dam Name: Lake Curry

Dam Number: 14-0

Owner Name: City of Vallejo

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: November 8, 1995

Reason for Restriction: Other

Owner's Reported Planned Action(s): The radial gates will be maintained in the raised position, and will be adequately secured in a full open position. The radial gates will be assessed for replacement or removal upon the completion of the spillway re-design being performed by Consultants.

Dam Name: Lake Hodges

Dam Number: 8-3

Owner Name: City of San Diego

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: September 4, 2019

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): A comprehensive condition assessment and a seismic stability analysis have been completed. Near-term repairs surrounding the dam and spillway apron are being implemented. Long-term improvements are being developed to increase dam safety and performance.

Dam Name: Lake Wohlford

Dam Number: 834-0

Owner Name: City of Escondido

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: November 8, 2007

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): A replacement dam has been designed to go downstream of the existing dam. The project EIR has been certified. The City is in the process of obtaining environmental permits for the project.

Dam Name: Lee Lake

Dam Number: 818-2

Owner Name: Elsinore Valley Municipal Water District

Condition Assessment: Poor

Downstream Hazard Potential Classification: High

Effective Date of Restriction: November 20, 2019

Reason for Restriction: Other

Owner's Reported Planned Action(s): EVMWD is currently in the process of upgrading the dam by removal of the existing dam and replacement with a new dam or flood control structure. The conceptual design for a new dam has been submitted and reviewed by DSOD and 50% design is underway.

Dam Name: Leroy Anderson

Dam Number: 72-9

Owner Name: Santa Clara Valley Water District

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: May 8, 2017

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): The Anderson Dam Seismic Retrofit Project is currently under design. The reservoir restriction will be removed after completion of the seismic retrofits.

Dam Name: Lower Blue Lake

Dam Number: 97-62

Owner Name: Pacific Gas and Electric Company

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: July 27, 2018

Reason for Restriction: Other

Owner's Reported Planned Action(s): PG&E has completed a geotechnical investigation to evaluate subsurface conditions, developed alternative design concepts, and has begun design of a project to mitigate seepage through the left embankment and foundation of the dam.

Dam Name: Matilija

Dam Number: 86-0

Owner Name: Ventura County Watershed Protection District

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: October 29, 2020

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): One of six downstream infrastructure projects required prior to dam removal will be completed in fall 2022 (new Santa Ana Bridge). Long-term action is to remove the dam by 2035.

Dam Name: McCloud

Dam Number: 97-123

Owner Name: Pacific Gas and Electric Company

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: January 9, 2020

Reason for Restriction: Other

Owner's Reported Planned Action(s): An analysis of potential alternatives for a project to replace the spillway and thereby increase the capacity of the spillway is underway. PG&E is working to select a preferred alternative and plans to begin design of the project in fall of 2022.

Dam Name: Misselbeck

Dam Number: 2220-2

Owner Name: Igo-Ono Community Services District

Condition Assessment: Poor

Downstream Hazard Potential Classification: High

Effective Date of Restriction: November 2, 2017

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): The Igo Ono Community Services District (IOCSD) is looking for and applying for funding to do pre-construction dam buttress planning and design.

Dam Name: Moccasin Lower

Dam Number: 9-4

Owner Name: San Francisco Public Utilities Commission

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: April 3, 2019

Reason for Restriction: Hydraulic

Owner's Reported Planned Action(s): HHWP begun the preliminary designs of the new wider and deeper auxiliary spillway which will be able to pass the latest PMF so Hetch Hetchy can better manage storm flows and allow Hetch Hetchy to apply to lift the current elevation restriction.

Dam Name: Morena

Dam Number: 8-5

Owner Name: City of San Diego

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: November 10, 2021

Reason for Restriction: Hydraulic

Owner's Reported Planned Action(s): The City of San Diego will acquire consultant services to perform a comprehensive condition assessment.

Dam Name: North Fork

Dam Number: 77-0

Owner Name: Pacheco Pass Water District

Condition Assessment: Poor

Downstream Hazard Potential Classification: High

Effective Date of Restriction: April 6, 2018

Reason for Restriction: Hydraulic

Owner's Reported Planned Action(s): Pacheco Pass Water District is in the process of receiving funding by FEMA to assist in the interim repair of the spillway. COVID-19 and the scope of work has delayed the process.

Dam Name: Patterson

Dam Number: 1065-0

Owner Name: Alameda County Water District

Condition Assessment: Fair

Downstream Hazard Potential Classification: Significant

Effective Date of Restriction: September 13, 2004

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): ACWD will continue operating the reservoir at the DSOD-restricted max. elevation of 196 ft and has completed an alternatives analysis as part of the design process for permanent improvements to the reservoir.

Dam Name: San Andreas

Dam Number: 10-10

Owner Name: City and County of San Francisco

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: August 3, 2020

Reason for Restriction: Other

Owner's Reported Planned Action(s): The SFPUC has prepared a 15-year Dam Safety Improvement Plan to make improvements to our dams, including the San Andreas Dam and Spillway. The plan is to complete investigative work, to evaluate all options and to determine the scope of work by 2024.

Dam Name: Santa Anita Debris Basin

Dam Number: 32-29

Owner Name: Los Angeles County Department Of Public Works

Condition Assessment: Fair

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: June 7, 1995

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): LA County Public Works obtained the 408 Permit from USACE for the Dam's Seismic Strengthening Project in June 2022. We continue to pursue obtaining all other permits for this project including the 404 Permit from USACE and the 401 Permit from RWQCB.

Dam Name: Santiago Creek

Dam Number: 75-0

Owner Name: Serrano Water District and Irvine Ranch Water District

Condition Assessment: Poor

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: May 8, 2020

Reason for Restriction: Other

Owner's Reported Planned Action(s): IRWD and SWD completed the preliminary design report, started building the physical model of the new spillway, and started developing the 60% design of the new inclined outlet tower and spillway. Replacement facilities will be online by 2029.

Dam Name: Sawpit Debris Basin

Dam Number: 32-31

Owner Name: Los Angeles County Department Of Public Works

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: June 7, 1995

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): LACPW is actively working to finalize the concept for the Dam's Seismic Strengthening Project. We will start pursuing permits for this project upon approval of the project concept. We aim to have this project completed by late 2025 or early 2026.

Dam Name: Scotia Log Pond

Dam Number: 205-0

Owner Name: Scotia Community Services District

Condition Assessment: Poor

Downstream Hazard Potential Classification: High

Effective Date of Restriction: April 6, 2018

Reason for Restriction: Other

Owner's Reported Planned Action(s): Scotia CSD has completed a portion of the repair project for the embankment. The remainder of the project should be complete by December 2022. The District will continue to restrict the level required by DSOD.

Dam Name: Selvage #2

Dam Number: 625-0

Owner Name: Lucky Hereford Ranch

Condition Assessment: Poor

Downstream Hazard Potential Classification: Low

Effective Date of Restriction: December 29, 2008

Reason for Restriction: Other

Owner's Reported Planned Action(s): The valve was cut off so no storage can occur.

Dam Name: St. Helena Lower

Dam Number: 16-2

Owner Name: City of Saint Helena

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: February 1, 2016

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): Reporting from previous year is applicable to Bell Canyon Dam (16-3) only and was misreported for St. Helena Lower Dam (16-2). The City plans to continue to maintain St. Helena at the reduced capacity until funding can be secured to remove the dam.

Dam Name: Tinemaha

Dam Number: 6-26

Owner Name: City of Los Angeles Department of Water And Power

Condition Assessment: Poor

Downstream Hazard Potential Classification: High

Effective Date of Restriction: March 3, 1993

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): LADWP initiated the Tinemaha Dam Replacement Project to replace the existing dam. The project is in the preliminary planning phase, and the estimated construction completion date is June 2033. The dam is safe to operate at the current restricted level.

Dam Name: Tuolumne Log Pond

Dam Number: 558-0

Owner Name: The Tuolumne Band of Me-Wuk Indians

Condition Assessment: Fair

Downstream Hazard Potential Classification: High

Effective Date of Restriction: November 10, 2011

Reason for Restriction: Other

Owner's Reported Planned Action(s): The plans and specifications have been completed and approved by DSOD. Completion date of December 2023. The gates remain removed, the reservoir is empty and there is no hazard.

Dam Name: Vail

Dam Number: 2028-0

Owner Name: Rancho California Water District

Condition Assessment: Fair

Downstream Hazard Potential Classification: Extremely High

Effective Date of Restriction: June 2, 2015

Reason for Restriction: Seismic

Owner's Reported Planned Action(s): EAP and updated inundation maps are complete. Vail Dam Rehabilitation project design is 90% complete. Design documents are currently under review by DSOD. Environmental compliance is in progress with expected Draft EIR release in late 2022.

Dam Name: Williamson No. 1

Dam Number: 464-0

Owner Name: Private Entity

Condition Assessment: Poor

Downstream Hazard Potential Classification: Significant

Effective Date of Restriction: May 7, 2009

Reason for Restriction: Other

Owner's Reported Planned Action(s): The reservoir is maintained at the restricted level, 8 feet below the certified elevation. The valve associated with the high level outlet is left fully open to maintain this restriction. The property caretaker checks reservoir conditions weekly.
