



Valley Water

ANNUAL PROGRESS REPORT JANUARY 1 - DECEMBER 31, 2019

Santa Clara Valley Water District Local Hazard Mitigation Plan

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SANTA CLARA VALLEY WATER DISTRICT LOCAL HAZARD MITIGATION PLAN PROGRESS REPORT

REPORTING PERIOD

The reporting period for this progress report is 01-01-2019 through 12-31-2019.

BACKGROUND

The Santa Clara Valley Water District (Valley Water) has developed a hazard mitigation plan to reduce risk from all hazards by identifying resources, information, and strategies for risk reduction. The federal Disaster Mitigation Act of 2000 requires state and local governments to develop hazard mitigation plans as a condition for federal disaster grant assistance. To prepare the plan, Valley Water organized resources, assessed risks from natural hazards, developed planning goals and objectives, reviewed mitigation alternatives, and developed an action plan to address probable impacts from natural hazards. By completing this process, Valley Water has maintained compliance with the Disaster Mitigation Act, achieving eligibility for mitigation grant funding opportunities afforded under the Robert T. Stafford Act. The plan can be viewed on-line at: <https://www.valleywater.org/LHMP>.

PURPOSE

The purpose of this report is to provide an update on the implementation of the mitigation initiatives identified in the *Santa Clara Valley Water District Local Hazard Mitigation Plan*. The objective is to ensure that there is a continuing planning process that will keep the *Santa Clara Valley Water District Local Hazard Mitigation Plan* dynamic and responsive to the needs and capabilities of Valley Water and its stakeholders.

PLANNING COMMITTEE

For the reporting period, the committee membership is listed in Table 1.

TABLE 1
Planning Committee

Name	Title
Alexander Gordon	Manager, Emergency Services and Security
Donna Germany	Program Administrator, Emergency Services and Security
Aaron Baker	Deputy Operating Officer, Raw Water Division
Bhavani Yerrapotu	Deputy Operating Officer, Treated Water Division
John Brosnan	Manager, Utility & Electrical Control Systems
Surjit Saini	Manager, Laboratory Services

Name	Title
Christopher Hakes	Deputy Operating Officer, Dam Safety & Capital Delivery Division
Rechelle Blank	Assistant Officer, Dam Safety & Capital Delivery Division
Erin Baker	Manager, Water Utility Business Planning & Analysis
Garth Hall	Deputy Operating Officer, Water Supply Division
Jerry De La Piedra	Assistant Officer, Water Supply Division
Metra Richert	Manager, Water Supply Planning & Conservation
Heath McMahon	Deputy Operating Officer, Water Utility Capital Division
Tim Bramer	Manager, Construction Services
Jessica Collins	Manager, Watersheds Business Planning & Analysis
Linh Hoang	Manager, Office of Communications
Matt Keller	Program Administrator, Office of Communications
Michael Cook	Deputy Administrative Officer, Information Technology Division
Jill Bernhard	IT Architect, Software Services (GIS)
Ngoc Nguyen	Deputy Operating Officer, Watersheds Design & Construction Division
Roger Narsim	Manager, Watershed Design & Construction Unit 5
Roslyn Fuller	Deputy Administrative Officer, General Services Division
Jose (Jesse) Soto	Manager, Facilities
Todd Bridgen	Sr. Management Analyst, Capital Program Planning & Analysis
Sherilyn Tran	Manager, Office of Civic Engagement
Merna Leal	Program Administrator, Office of Civic Engagement
Sue Tippets	Deputy Operating Officer, Watersheds Operations & Maintenance Division
Chad Grande	Manager, Watersheds Field Operations
Devin Mody	Manager, Watersheds Operations & Maintenance Engineering Support
Jennifer Codianne	Manager, Vegetation Field Operations
Vincent Gin	Deputy Operating Officer, Watersheds Stewardship & Planning Division
Lisa Infante	Assistant Officer, Watershed Stewardship & Planning Division
Afshin Rouhani	Manager, Water Resources Planning & Policy
Liang Xu	Manager, Hydrology, Hydraulics and Geomorphology

Summary Overview of the Plan's Progress

The Santa Clara Valley Water District Local Hazard Mitigation Plan became effective with the final approval of the plan by FEMA on 05-02-2018. The initial performance period for this plan will be 5 years, with an anticipated update to the plan to occur before 05-02-2023. The Santa Clara Valley Water District Local Hazard Mitigation Plan originally targeted 48 hazard-mitigation initiatives to be pursued during the 5-year performance period. Upon reviewing the initiatives for progress during the first reporting period, it was determined that five (5) of the initiatives were either already being addressed as part of or were best addressed as part of other existing initiatives. Four (4) initiatives were discontinued because it was determined that mitigation was not necessary or could not be performed at this time. This resulted in lowering the overall number of mitigation initiatives to thirty-nine (39). As of this reporting period, the following overall progress can be reported:

- 37 out of 39 initiatives (95%) reported action toward completion.
- 1 out of 39 initiatives (2.5%) reported no progress.
- 1 out of 39 initiatives (2.5%) were completed.
- 31 out of 39 initiatives (79%) indicated work is conducted as an ongoing capability.

Review of the Action Plan

Table 2 reviews the action plan, reporting the status of each initiative.

TABLE 2
Action Plan Matrix

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
ALL HAZARDS				
1.1 Continue to stockpile repair materials, portable pumps, and other supplies to assist with rapid and functional repairs to water utility and watershed infrastructure.				
Yes	Ongoing Capability	No	Valley Water has a supply of equipment and materials, including pipe repair materials, large diameter pipe, valves, boulders (to arrest erosion), portable pumps, hoses, generators, and other equipment and materials needed to respond to hazards and outages.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
1.2 Continue to incorporate the effects of climate change into water utility and watershed infrastructure vulnerability studies.				
			This measure is discontinued as associated work is captured in measure 1.5.	Discontinued
1.3 Improve the energy independence of Valley Water's facilities and infrastructure through energy efficiency, on-site or local renewable energy systems, micro grids, and energy storage facilities. Ensure adequate emergency power is available in the interim.				
Yes	Ongoing Capability	No	Valley Water successfully provided continued system operations through three PG&E Public Safety Power Shutoff events in October 2019 and used the interruptions as opportunity to improve system resiliency. Valley Water also began evaluation of a Self-Generation Incentive Program (SGIP) that promotes battery storage installations at remote Valley Water sites located in High Fire-Threat Districts. Valley Water continues to maintain back-up power sources at its primary facilities in the event of emergencies. To improve local renewable energy portfolio, staff continue to support the Headquarters solar carport rehabilitation. After reaching an impasse with the original solar developer in August 2019 due to cost increases, Valley Water's joint powers authority, the Power and Water Resources Pooling Authority (PWRPA), released a new RFP in October 2019 to solicit updated pricing. Staff are currently in negotiations with the highest-ranked respondent and are nearing an agreement in principle to move forward with solar carport development. Valley Water continues to implement the energy optimization measures (EOMs) recommended by the 2013 Energy Optimization Plan. Thirty-seven of the original 49 EOMs have been completed since 2013 and there are currently 7 EOMs in progress.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
1.4 Continue to distribute information about disaster preparations through mailings, printed notifications, educational campaigns, social media, digital devices, addressing media inquiries, and in-person events and workshops. This information should be distributed widely and in all commonly spoken languages within Valley Water's service territory.				
Yes	Ongoing Capability	No	Valley Water continued its annual flood awareness campaign which includes general disaster preparedness tips. Efforts include paid ads, web/blog posts, media interviews, social media, speaking presentations, and community events. Ads are in English, Chinese, Spanish, and Vietnamese. Valley Water's latest iteration of this campaign includes multilingual video content. Valley Water has also developed a robust hot spots outreach approach to engage with residents and businesses in areas prone to flooding.	Ongoing
1.5 Conduct hazard vulnerability studies, including anticipated climate change impacts, in advance of all new infrastructure siting and construction.				
Yes	Ongoing Capability	No	Valley Water staff continues site analysis as part of the Capital project planning and design process.	Ongoing
1.6 Continue to participate in the Silicon Valley Regional Interoperability Authority (SVRIA) to improve emergency communications between Valley Water and other Santa Clara County jurisdictions.				
Yes	Ongoing Capability	No	Silicon Valley Regional Interoperability Authority completed several critical radio tower construction projects Q4 of 2019 which should resolve signal issues in South County. Signal issues in South County had previously barred Valley Water from making progress.	Ongoing
1.7 When siting new infrastructure, try to avoid locating facilities in areas of high hazard risk. If this is unavoidable, integrate extensive mitigation measures into the facility to reduce vulnerability from all applicable hazards.				
			This measure is discontinued as associated work is captured in measure 1.5.	Discontinued

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
1.8 Improve estimates of potential damage to Valley Water facilities from various potential emergency situations, and integrate these estimates into appropriate planning efforts.				
Yes	Ongoing Capability	No	Estimates of repair costs for watershed assets are located in the Draft 5-year Watersheds O&M plan and asset management plans. The water utility Infrastructure Reliability Plan and the Water Utility Asset Management Program Plans feed into future planning efforts.	Ongoing
1.9 Update all emergency planning documents every 5 years to ensure consistency with state and federal laws, eligibility for hazard mitigation grant funding, best practices, local conditions, and updated science.				
Yes	Ongoing Capability	No	Revisions to all dam EAPs are underway to ensure consistency with new state requirements. New inundation studies and revised inundation maps were developed for all twelve dams and sent to the state Division of Safety of Dams for review and approval. Work on creek- or location-specific EAPs continues, including San Francisquito Creek, West Little Llagas Creek, and Uvas Creek. Palo Alto Flood Basin EAP has been completed, and work on San Tomas Aquino Creek EAP has begun. The Local Hazard Mitigation Plan is maintained annually, and the Emergency Operations Plan review/update was initiated during this time-frame. Valley Water is preparing a compliance letter for the EPA stating that Valley Water is AWIA compliant. Overall, the 5-year time-frame for emergency plan updates is being adhered to.	Ongoing
1.10 Regularly pursue funding opportunities for hazard mitigation activities.				
Yes	Ongoing Capability	No	Received approval of a grant from the San Francisco Bay Restoration Authority for design and construction of the South San Francisco Bay Shoreline Project Phase 1 and continued pursuing a grant from the Natural Resources Conservation Service for the Upper Llagas Creek Flood Protection Project. Owing to winter storms and high-flow events of 2017, significant erosion was identified at Stevens Creek downstream of Fremont Avenue. Funding to address this issue was pursued with CalOES and FEMA. Valley Water completed an erosion repair project at Stevens Creek downstream of Fremont Avenue in 2018. In March 2019, Valley Water received from CalOES payment in the	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
			amount of \$271,180. A subsequent request from CalOES has resulted in Valley Water doing additional research on backup documentation (being provided to CalOES).	
1.11 Assess the capability and feasibility of using interorganizational and public/private water distribution infrastructure (“water-wheeling”) as an alternate or backup.				
Yes	Short Term (<5 yrs.)	No	Valley Water has developed agreement templates that can be used in an emergency to wheel retailer water supplies through SCVWD pipelines.	Completed
1.12 Install pipeline isolation valves to enable smaller geographic service outages and shorter recovery periods.				
Yes	Long Term (5+ yrs.)	No	Planning and design for two capital projects (IRP2 Additional Line Valves, Project No. 26764001 and Treated Water Isolation Valves, Project No. 94084007) remain on schedule for completion in 2024.	In Progress
1.13 Conduct a Retailer Intertie Study to explore the capacity and interconnectivity of retailer interties.				
Yes	Short Term (<5 yrs.)	No	No work has started. Valley Water will continue to work with retailers to identify which agency will lead the project, and will provide resources and support once the project begins.	No Progress
1.14 Install interties and connections to public and private groundwater wells for redundancy, including connections between the Snell Pipeline and the Great Oaks Water Company wells, the Santa Clara Distributary and the planned Santa Clara Water Company Serra Tank well, and the Mountain View Distributary and the planned Mountain View Water Company Miramonte well.				
Yes	Long Term (5+ yrs.)	No	The City of Santa Clara and City of Mountain View are continuing to investigate well sites. Partnership on future connections to the Valley Water distribution system is pending the outcome of the well siting studies. Additionally, interties with the Great Oaks system are being considered for submission to the FY22 CIP.	In Progress
1.15 Implement projects and support regional and state efforts to increase the resiliency, redundancy, and reliability in water supply and safety infrastructure.				
Yes	Ongoing Capability	No	Delta Conveyance Project: Construction and financing governance structures established in mid-2018. Replacement of California WaterFix with single tunnel project announced in April 2019. Planning documents and contract amendments in development.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
			<p>Los Vaqueros Reservoir Expansion: Development of JPA governance and finance structure ongoing. Modeling and analysis of operations and facilities (Transfer Bethany Pipeline) is under review.</p> <p>Sites Reservoir Project: Project description is being updated to right-size the project based on current participation and a desire to reduce costs. At the end of 2019 the federal government appropriated an additional \$6 million for the planning and development of the project.</p> <p>Groundwater Banking Projects: Review of state-wide groundwater banking and storage projects to diversify Valley Water storage assets. Planning and analysis of specific groundwater conditions, management, and proposed banking operations is ongoing.</p> <p>South Bay Aqueduct Reliability Improvements: Collaboration with Department of Water Resources to expedite pipeline rehabilitation work including inspection, leak detection and repair, and geotechnical monitoring of landslide areas. Schedule for work is under consideration, but expected to occur over the next 8-12 months.</p>	
<p>1.16 Develop interagency mutual-aid agreements and emergency assistance protocols between Valley Water and surrounding jurisdictions.</p>				
Yes	Ongoing Capability	No	Valley Water maintains agreements with CAMAL Net (laboratory service) and CalWARN (water agencies) for emergency assistance and mutual aid. Valley Water's agreement to provide emergency assistance to Cal Fire has expired and a new renewal agreement is currently under review by Cal Fire.	Ongoing
<p>DAM FAILURE</p>				
<p>2.1 Work with local jurisdictions in dam inundation zones to ensure residents and businesses are aware of the potential risk, and that dam inundation mitigation strategies are integrated into local planning efforts. Use GIS mapping for risk analysis and communication as appropriate.</p>				
Yes	Ongoing Capability	No	In November 2019, a call down drill was conducted with downstream agencies for all dam Emergency Action Plans (EAPs), and an orientation slide show on dam EAPs and inundation map interpretation was presented to	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
			the Santa Clara County Emergency Management Association.	
2.2 If appropriate, identify critical dam infrastructure at heightened risk from dam failure and develop a plan to protect or retrofit those facilities.				
Yes	Ongoing Capability	No	Seismic studies to identify dams at heightened risk of failure, and seismic retrofits/improvements are underway as applicable.	Ongoing
DROUGHT				
3.1 Evaluate the long-term impact of climate change on future water supplies, and include more severe drought conditions in water supply planning documents.				
Yes	Ongoing Capability	No	Valley Water's Board of Directors adopted the Water Supply Master Plan 2040 (Master Plan) on November 20, 2019. The Master Plan informs investment decisions by describing the type and level of water supply investments Valley Water is planning to make through 2040, emphasizing drought-resilience strategies using historical water supply data. As part of the Master Plan, Valley Water conducted a late-century analysis to better understand the impacts of climate change on the proposed investment decisions.	Ongoing
3.2 Work with retail water suppliers to offer free or low-cost water audits for residents and businesses within Valley Water's service territory.				
Yes	Ongoing Capability	No	Valley Water works with retailers to offer a free Water Wise Survey Program, which includes two components: an outdoor irrigation survey and an indoor water audit do-it-yourself kit.	Ongoing
3.3 Work with retail water suppliers to support real-time water monitoring for all customers.				
Yes	Short Term (<5 yrs.)	No	Valley Water has been working with its water retailers to promote 'Advanced Metering Infrastructure' (AMI) technology and home water use reporting. Additionally, Valley Water has included messaging on home water use reports that are sent out in collaboration with retailers.	In Progress

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
3.4 In coordination with retail water suppliers, host regular workshops and classes on water conservation, including providing information on drought-tolerant landscaping, available rebates for water retrofits, and water efficiency strategies in new buildings. Continue to offer workshops and classes even when drought conditions are not present. Develop outreach materials for water conservation.				
Yes	Ongoing Capability	No	Valley Water's annual water conservation campaign which includes paid ads, outreach materials, videos, social media posts and web/blog posts continued in June of 2019. Known as Yards Have Evolved, this latest campaign promoted Valley Water rebate and conservation programs. Valley Water participates in a number of workshops and classes, year-round and supports a multi-agency effort called South Bay Green Gardens, to promote sustainable landscaping classes and events. Additional efforts include development and distribution of a variety of outreach material to promote water conservation. The water conservation campaign concluded in October 2019 and planning is underway for the 2020 campaign.	Ongoing
3.5 Increase recycled and purified water supplies and expand the existing recycled and purified water infrastructure.				
Yes	Short Term (<5 yrs.)	No	The Expedited Purified Water Program is part of Valley Water's strategy to respond to future drought and is consistent with Board of Director's direction to expand the county's water supply. As currently conceived, the program will provide up to 24,000 acre-feet per year (AFY) of purified water for potable reuse to reduce reliance on the other existing sources such as imported and locally stored water supply.	In Progress
3.6 Explore opportunities to recycle water for non-potable and potable uses.				
Yes	Ongoing Capability	No	The Countywide Water Reuse Master Plan (CWRMP) agreement was amended (Amendment No. 1 executed 6/11/2019) to add funds in order to (1) allow additional time for stakeholder input, and (2) develop feasible treated water augmentation portfolios to CWRMP's scope of work for Valley Water Board's consideration.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
3.7 As identified in the Capital Improvement Program (CIP), continue to prioritize water supply improvements as they relate to the risks outlined in this Plan. Coordinate future updates to the CIP to support mitigation actions outlined in this Plan.				
Yes	Ongoing Capability	No	Commenced construction for the Cross Valley and Calero Pipelines Inspection and Rehabilitation Project in November 2019. Completed 30 percent design for the Rinconada Water Treatment Plant Residuals Remediation Project in December 2019. Completed Problem Definition report for Coyote Pumping Station Adjustable Speed Drive Replacement Project in November 2019.	Ongoing
3.8 Implement projects that increase the resiliency or reliability of future water supplies.				
			This measure has been discontinued. Associated work is covered in measure 1.15.	Discontinued
FLOODS				
4.1 Continue to repair and improve storm drain and flood protection systems owned and maintained by SCVWD to better accommodate flood flows.				
Yes	Ongoing Capability	No	In 2019, three Small Capital Projects were completed. 1) 2.1-mile-long erosion repair of San Tomas Aquino Creek from Williams Road to Virginia Avenue; 2) Barron Creek concrete repair at Bryant Street; and 3) 1-mile-long Uvas Creek levee rehabilitation Project, Phase 2 from Miller Avenue to end of levee at d/s. Draft 5-Year Watersheds O&M Plan presented to Valley Water Board of Directors on 12/17/2019. Majority of creek sites identified for maintenance and repairs in 2019 were completed under Valley Water's Stream Maintenance Program. In 2019, to maintain design flow conveyance capacity of streams, approximately 49,551 cubic yards of sediment was removed and approximately 1,006.74 acres of in-stream vegetation removal was conducted. In addition, approximately 1,184 linear feet of bank stabilization and approximately 550 linear feet of in-stream habitat improvements were put in place.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
4.2 Monitor creek infrastructure for obstructions and remove any obstructions as quickly as possible.				
Yes	Ongoing Capability	No	Facilities are routinely inspected, blockages are cleared, and known hot-spots are monitored throughout the rainy season. Trash and debris are removed when safe to do so and in accordance with regulatory permits. Sediment is removed periodically from streams and erosion repaired as resources allow. In 2019, to maintain design flow conveyance capacity of streams, approximately 49,551 cubic yards of sediment was removed and approximately 1,006.74 acres of instream vegetation removal was conducted. In addition, approximately 1,184 linear feet of bank stabilization was performed.	Ongoing
4.3 Retrofit hardscaped areas on Valley Water property, including parking lots and plazas, to use permeable paving, green infrastructure, and other low-impact development design features to allow for increased infiltration, even in heavy rain events.				
No	Short Term (<5 yrs.)	No	Retrofits to hardscape areas are planned and carried out as needed based on site and operational requirements. There was no work performed for this measure in 2019.	Ongoing
4.4 Identify and implement effective flood protection measures around water supply facilities and pumping stations, prioritizing facilities located within the 100-year floodplain.				
			This measure has been discontinued, as Valley Water has only one pumping station and no other water supply facilities within the 100-year floodplain. During flood season, water supply is at low demand and the system can operate without the pump station.	Discontinued
4.5 As identified in the Capital Improvement Program (CIP), continue to prioritize flood protection improvements as they relate to the risks outlined in this Plan. Coordinate future updates to the CIP to support mitigation actions outlined in this Plan.				
Yes	Ongoing Capability	No	Completed improvements along the creek for Lower Berryessa Creek Phase 2 Flood Protection Project and Cunningham Flood Detention Certification (December 2019). Continued construction of: McKelvey Park Flood Detention Facility, Rancho San Antonio Park Flood Detention Facility. Began construction of Upper Llagas Creek Flood Protection Project Phase 1 (August 2019). Continued design of Lower Calera Creek and Lower Penitencia Creek Flood Protection Project and USACE	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
			South San Francisco Bay Shoreline Project Phase 1/Reach 1 (expect to begin construction in summer 2020). Continued design/permitting of Sunnyvale East/West Channels, Hale Creek Enhancement Pilot Project, Palo Alto Flood Basin Tide Gate Replacement Project (expected to begin construction in 2021). Continued planning studies for Coyote Creek (Montague Expressway to Tully Road), Upper Penitencia Creek (Coyote Creek to Dorel Drive), and Guadalupe River (Tasman Drive to I-880) (expected to be completed in 2020).	
4.6 Develop outreach materials for extreme flood conditions and events.				
Yes	Ongoing Capability	No	Valley Water's latest "Floodplain Mailer," was sent to Santa Clara County households in or near a 100-year flood zone, in early January 2020. Known as the Get Flood Ready mailer, the content is presented in English, Spanish, Chinese, and Vietnamese. A winter preparedness flyer was also developed and will be distributed to flood-prone areas near San Francisquito Creek in early 2020. Valley Water maintains a "Flood Ready" web page with tools, tips, and helpful resources for emergency preparedness.	Ongoing
GEOLOGIC HAZARDS				
5.1 Use erosion and sediment control features that provides protection as required by local or state standards for all Valley Water construction activities.				
Yes	Ongoing Capability	No	Erosion and sediment control features are evaluated and included as a standard practice in all watershed capital improvement projects. The following erosion repair projects (small capital projects) were completed in 2019: Uvas Creek In-board Levee Repair, Uvas Creek out-board Levee Repair, and San Tomas Aquino Creek and Barron Creek Erosion Repair.	Ongoing
5.2 Mitigate landslide and debris flows to minimize damage to structure and function of Valley Water infrastructure.				
Yes	Ongoing Capability	No	Valley Water is monitoring a known landslide area. Pipes crossing the landslide have been replaced with landslide resistant pipes and structures.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
LAND SUBSIDENCE				
6.1 Continue to monitor the rate of groundwater pumping within Valley Water, and coordinate groundwater pumping and increase groundwater recharge if subsidence begins to occur.				
Yes	Ongoing Capability	No	No permanent subsidence has been observed for many decades due to comprehensive groundwater management. During droughts, adherence to Valley Water's Water Shortage Contingency Plan helps minimize the risk of subsidence. Groundwater and land subsidence monitoring and conditions are described each year in Valley Water's Annual Groundwater Report.	Ongoing
SEA LEVEL RISE				
7.1 Develop and implement plans to protect key facilities within the sea level rise hazard area as sea levels increase.				
Yes	Ongoing Capability	No	Valley Water continued design of USACE South San Francisco Bay Shoreline Project Phase 1/Reach 1 (expect to begin construction in summer 2020). Continued design/permitting Palo Alto Flood Basin Tide Gate Replacement Project (expected to begin construction in 2021).	Ongoing
7.2 Coordinate with Santa Clara County, ABAG, Bay Conservation and Development Commission and other agencies, to defend against and retreat from sea level rise.				
Yes	Ongoing Capability	No	South San Francisco Bay Shoreline Project pre-construction activities began September 2018. Construction to begin FY2020. Staff has attended meetings with these agencies to coordinate for defense of sea level rise.	Ongoing
SEISMIC ACTIVITY				
8.1 Maintain existing levee inspection and repair program to address seismic vulnerabilities of levee systems.				
Yes	Ongoing Capability	No	Valley Water performs regular inspections and repairs are made as required. For example, a reach of Uvas Creek levee in Gilroy was identified as needing repairs due to burrowing rodents. Watersheds O&M Division staff requested assistance from Watersheds Design and Construction Division staff (i.e., "small caps"), and in 2019, small caps oversaw completion of approximately 4,100 linear feet of	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
			inboard levee repairs on Uvas Creek, from Miller Avenue to the end of levee.	
8.2 Secure funding to conduct necessary seismic strengthening work on Valley Water-owned dams as identified in seismic evaluations.				
			This measure is part of the work performed under measure 8.3.	Discontinued
8.3 Replace or retrofit structures that are determined to be structurally deficient, including levees, dams, reservoirs, and tanks. Continue to analyze and identify needs for future upgrades. Evaluate, reinforce, and/or enhance Valley Water facilities to mitigate seismic risk.				
Yes	Ongoing Capability	No	Seismic retrofit projects are underway at Anderson, Calero, and Guadalupe dams. Seismic improvements are underway at Almaden Dam. Other seismic evaluations are currently being performed at Coyote, Chesbro, Uvas, Lenihan, and Stevens Creek dams.	Ongoing
8.4 Conduct evaluations of Valley Water facilities (Offices, Ancillary Structures) to determine seismic vulnerability.				
No	Short Term (<5 yrs.)	No	Valley Water completed a seismic assessment of the South County Yard facility in October 2018. There were no seismic evaluations of Valley Water facilities conducted in 2019.	In Progress
8.5 Avoid siting of new infrastructure in areas of highest liquefaction, ground shaking, and/or fault rupture risk. If siting new infrastructure in these high-risk zones is unavoidable, include significant mitigation measures to reduce the vulnerability to earthquake hazards.				
			This measure is discontinued. Work addressing this measure is captured in measure 1.5.	Discontinued
8.6 Replace seismically vulnerable sections of the Almaden Valley Pipeline.				
Yes	Short Term (<5 yrs.)	No	A capital project to replace the Almaden Valley Pipeline is being proposed for the next Capital Improvement Plan.	In Progress
SEVERE WINDS				
9.1 Monitor trees and other large objects that may threaten nearby Valley Water infrastructure in high wind events, and maintain or reinforce as appropriate.				
Yes	Ongoing Capability	No	Valley Water conducts facility inspections. When threats are identified (including hazardous trees), work orders are submitted to mitigate the problem.	Ongoing

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
WILDFIRES				
10.1 Frequently monitor the status of dry vegetation on Valley Water property and around Valley Water facilities in wildland and WUI zones, and conduct weed abatement and pesticide application activities as needed.				
Yes	Ongoing Capability	No	Valley Water Complies with California Government Code section 51182, which requires the maintenance of a firebreak within 30 feet of occupied structures on its property by removing flammable vegetation or combustible growth. Weed abatement activities are performed March through December. Herbicide application to prevent weed growth is performed October through June.	Ongoing
10.2 Work with surrounding landowners to ensure adequate fire road access to Valley Water facilities.				
			This mitigation action is being removed because Valley Water already has access to its facilities (buildings and infrastructure), and waterways. Additional access through private land owners is not needed.	Discontinued
10.3 Identify Valley Water-owned waterways and water sources adjacent to any high-fire risk areas, and prepare for increased turbidity as a result of vegetation loss and increased erosion. Conduct mitigation measures as appropriate.				
			This mitigation action is being removed as there is no identifiable mitigation work that can be performed at this time.	Discontinued
10.4 Design and implement mitigation measures to reduce turbidity in waterways and water sources near high-fire risk areas.				
			This measure is being discontinued because turbidity as a result from fires and vegetation loss that enter waterways will be addressed utilizing best management practices by Operations and Maintenance (same as day-to-day operations).	Discontinued

Changes That May Impact Implementation of the Plan

During the reporting period, there were no significant changes in the planning area that would have a profound impact on the implementation of the plan.

Recommendations for Changes or Enhancements

Based on the review of this report by the Planning Committee, the following recommendations from the 2019 Annual Report will be noted for future updates or revisions to the plan.

- Incorporate information from Valley Water's Climate Change Action Plan once it is completed.
- Consider developing green storm water infrastructure/water quality-related measures.

Public Review Notice

The contents of this report are considered to be public knowledge and have been prepared for total public disclosure. Copies of the report have been provided to the Valley Water Board of Directors, Chief Executive, Operating and Administrative Officers, and to local media outlets. The report is posted on the Valley Water website <https://www.valleywater.org/LHMP>. Any questions or comments regarding the contents of this report should be e-mailed to: LHMP@Valleywater.org.

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ATTACHMENT A Meeting Agenda

LHMP ANNUAL PROGRESS REPORT MEETING LHMP Planning Committee

Date: March 9, 2020
Time: 1:00 PM – 2:00 PM
Location: Virtual Meeting
Meeting Purpose: Review the Public Annual Progress Report for the period
January 1 – December 31, 2019

AGENDA

I.	Welcome and Roll Call	Alexander Gordon
II.	Power Point Presentation	Alexander Gordon
III.	Mitigation Report Development	Planning Committee
IV.	Annual Report Review and Approval	Planning Committee

Action Needed from Planning Committee

- A. Review Excel Worksheets
- B. Review Public Progress Report
- C. Email comment/changes/additions

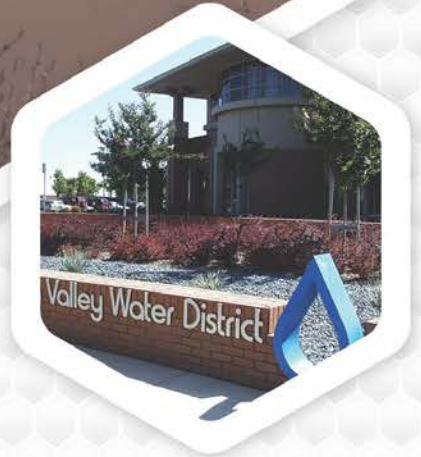
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ATTACHMENT B Meeting Sign-in Sheet

Sign-in Sheet	
Purpose: LHMP Annual Review and Report	Meeting Date: 03/09/2020
Facilitator: Alexander Gordon	Location: Virtual

Name (Print)	Extension	Unit	Signature
Alexander Gordon	2637	Emergency Services & Security	
Donna Germany	2689	Emergency Services & Security	
Devin Mody	2024	Watershed Operations & Maintenance Engineering Support	
Roger Narsim	2928	Watershed Design & Construction	
Merna Leal	2610	Office of Civic Engagement	
Jill Bernhard	2220	Software Services (GIS)	
Erin Baker	2608	Water Utility Business Planning & Analysis	
Aaron Baker	2135	DDO – Raw Water	
Surjit Saini	2268	Laboratory Service	
John Brosnan	2849	Utility Electrical & Control Systems	
Mark Gomez	2985	Office of Communications	
Navroop Jassal	2676	Environmental Mitigation and Monitoring	
Lisa Infante (Bankosh)	2618	AO – Watershed Stewardship and Planning Division	
Roslyn Fuller	2379	General Services Division	

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Valley Water

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