July 12, 2018

MEETING NOTICE & REQUEST FOR RSVP

TO: SANTA CLARA VALLEY WATER COMMISSION

Municipality

City of Campbell City of Cupertino City of Gilroy City of Los Altos Town of Los Altos Hills Town of Los Gatos City of Milpitas City of Monte Sereno City of Morgan Hill City of Mountain View City of Palo Alto City of San Jose City of Santa Clara City of Saratoga City of Sunnyvale Santa Clara County Board of Supervisors Midpeninsula Regional Open Space District Santa Clara County Open Space Authority

Representative

	Hon. Susan M. Landry	Hon. R
	Hon. Darcy Paul	Hon. S
	Hon. Peter Leroe-Muñoz	Hon. R
	Hon. Lynette Lee Eng	Hon. N
	Hon. Courtenay Corrigan	
	Hon. Barbara Spector	Hon. S
	Hon. Garry Barbadillo	Tony N
	Hon. Evert Wolsheimer	Hon. C
	Hon. Rich Constantine	Hon. L
	Hon. Lisa Matichak	Hon. P
	Hon. Adrian Fine	Hon. T
	Hon. Lan Diep	Kerrie
	Hon. Debi Davis	Hon. K
	Hon. Rishi Kumar	Hon. H
	Hon. Nancy Smith	Hon. L
	Hon. Mike Wasserman	Hon. C
е	Hon. Yoriko Kishimoto	Hon. J
	Hon. Mike Flaugher	Hon. K

<u>Alternate</u>

Hon. Rich Waterman Hon. Steven Scharf Hon. Roland Velasco Hon. Mary Prochnow

Santa Clara Valley

Water District

Hon. Steve Leonardis Tony Ndah Hon. Curtis Rogers Hon. Larry Carr Hon. Pat Showalter Hon. Tom DuBois Kerrie Romanow Hon. Kathy Watanabe Hon. Kathy Watanabe Hon. Howard Miller Hon. Larry Klein Hon. Cindy Chavez

Hon. Jed Cyr

Hon. Kalvin Gill

The regular meeting of the Santa Clara Valley Water Commission is scheduled to be held on Wednesday, **July 25**, **2018**, **at 12:00 p.m.**, in the Headquarters Building Boardroom, located at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California. Lunch will be provided.

Enclosed are the meeting agenda and corresponding materials. Please bring this packet with you to the meeting. Additional copies of this meeting packet are available on-line at https://www.valleywater.org/how-we-operate/committees/board-advisory-committees

A majority of the appointed membership is required to constitute a quorum, which is fifty percent plus one. A quorum for this meeting must be confirmed at least <u>48 hours</u> prior to the scheduled meeting date or it will be canceled.

Further, a quorum must be present on the day of the scheduled meeting to call the meeting to order and take action on agenda items.

Members with two or more consecutive unexcused absences will be subject to rescinded membership.

Please confirm your attendance **no later than Friday, July 20, 2018; noon** by contacting Vicki Elam at 1-408-630-3056, or <u>velam@valleywater.org</u>.

Enclosures

Santa Clara Valley Water District - Headquarters Building, 5700 Almaden Expressway, San Jose, CA 95118



From Oakland:

- Take 880 South to 85 South
- Take 85 South to Almaden Expressway exit
- Turn left on Almaden Plaza Way
- Turn right (south) on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Sunnyvale:

- Take Highway 87 South to 85 North
- Take Highway 85 North to Almaden Expressway exit
- Turn left on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Downtown San Jose:

- Take Highway 87 Guadalupe Expressway South
- Exit on Santa Teresa Blvd.
- Turn right on Blossom Hill Road
- Turn left at Almaden Expressway
- At Via Monte (first traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Morgan Hill/Gilroy:

- Take 101 North to 85 North
- Take 85 North to Almaden Expressway exit
- Turn left on Almaden Expressway
- Cross Blossom Hill Road
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

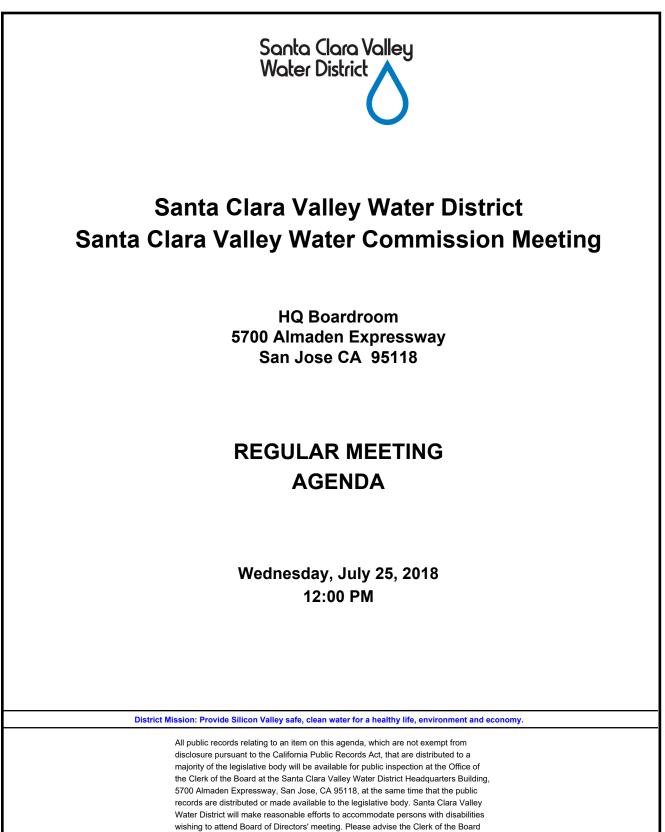
From San Francisco:

- Take 280 South to Highway 85 South
- Take Highway 85 South to Almaden Expressway exit
- Turn left on Almaden Plaza Way
- Turn right (south) on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

From Walnut Creek, Concord and East Bay areas:

- Take 680 South to 280 North
- Exit Highway 87-Guadalupe Expressway South
- Exit on Santa Teresa Blvd.
- Turn right on Blossom Hill Road
- Turn left at Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

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Office of any special needs by calling (408) 265-2600.

Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.

Santa Clara Valley Water District Santa Clara Valley Water Commission

REGULAR MEETING AGENDA

Wednesday, July 25, 2018 12:00 PM HQ Boardroom

1. CALL TO ORDER:

1.1. Roll Call.

2. Time Open for Public Comment on any Item not on the Agenda.

Notice to the public: This item is reserved for persons desiring to address the Committee on any matter not on this agenda. Members of the public who wish to address the Committee on any item not listed on the agenda should complete a Speaker Form and present it to the Committee Clerk. The Committee Chair will call individuals in turn. Speakers comments should be limited to two minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Committee may take action on any item of business appearing on the posted agenda.

3. APPROVAL OF MINUTES:

3.1. Approval of Minutes.

Recommendation:	Approve the April 11, 2018, Meeting Minutes.
Manager:	Michele King, 408-630-2711
Attachments:	Attachment 1: 041118 Water Commission Draft Mins

4. ACTION ITEMS:

4.1.	Climate Change an Protection, Ecosyst	d Sea Level Rise Adaptation - Water Supply, Flood ems.	<u>18-0539</u>
	Recommendation:	This is a discussion item and the Commission may provide comments, however, no action is required.	
	Manager:	Rechelle Blank, 408-630-2615	
	Attachments:	Attachment 1: PowerPoint 7-12-18	
		Attachment 2: Climate Change Adaptation Measures	
	Est. Staff Time:	20 Minutes	

18-0540

4.2. Review Santa Clara Valley Water Commission Work Plan, the Outcomes of Board Action of Commission Requests; and the Commission's Next Meeting Agenda.

Recommendation: Review the Commission work plan to guide the Commission's discussions regarding policy alternatives and implications for Board deliberation.

Manager: Michele King, 408-630-2711

 Attachments:
 Attachment 1: Water Comm 2018 Work Plan

 Attachment 2: Water Comm October 2018 Draft Agenda

Est. Staff Time: 5 Minutes

5. Clerk Review and Clarification of Committee Requests. This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

6. **REPORTS**:

- 6.1. Director's Report
- 6.2. Manager's Report
- 6.3. Commission Member Reports
- 7. ADJOURN:
 - 7.1. Adjourn to Regular Meeting at 12:00 p.m., on October 24, 2018, in the Santa Clara Valley Water District (HQ Boardroom, 5700 Almaden Expressway, San Jose, California.

18-0537

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File No.: 18-0540

Agenda Date: 7/25/2018 Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM

Santa Clara Valley Water Commission

SUBJECT:

Approval of Minutes.

RECOMMENDATION:

Approve the April 11, 2018, Meeting Minutes.

SUMMARY:

A summary of Committee discussions, and details of all actions taken by the Committee, during all open and public Committee meetings, is transcribed and submitted for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the District's historical records archives and serve as historical records of the Committee's meetings.

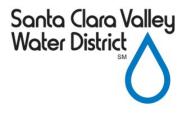
ATTACHMENTS:

Attachment 1: 041118 Draft Meeting Minutes.

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

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SANTA CLARA VALLEY WATER COMMISSION MEETING

DRAFT MINUTES

WEDNESDAY, APRIL 11, 2018 12:00 PM

(Paragraph numbers coincide with agenda item numbers)

A rescheduled meeting of the Santa Clara Valley Water Commission (Commission) was held on April 11, 2018, in the Headquarters Building Boardroom, located at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California.

1. CALL TO ORDER/ROLL CALL

Vice Chair Hon. Debi Davis called the meeting to order at 12:06 p.m.

Members in attendance were:

<u>Municipality</u> City of Cupertino	<u>Representative</u>	<u>Alternate</u> Hon. Steven Scharf
City of Gilroy	Hon. Peter Leroe-Muñoz	
City of Los Altos Town of Los Altos Hills Town of Los Gatos City of Milpitas	Hon. Lynette Lee Eng Hon. Courtenay Corrigan* Hon. Barbara Spector	Tony Ndah
Town of Monte Sereno City of Mountain View City of Palo Alto City of San José	Hon. Evert Wolsheimer Hon. Lisa Matichak Hon. Adrian Fine	l'ony ridan
City of Santa Clara City of Saratoga City of Sunnyvale	Hon. Debi Davis	Hon. Howard Miller
County of Santa Clara Santa Clara Open Space Authority Midpeninsula Regional Open Space District	Hon. Nancy Smith Hon. Mike Wasserman Hon. Mike Flaugher	Hon. Jed Cyr

Members not in attendance were:

<u>Municipality</u> City of Campbell City of Cupertino	<u>Representative</u> Hon. Susan M. Landry Hon. Darcy Paul	<u>Alternate</u> Hon. Rich Waterman
City of Gilroy		Hon. Roland Velasco
City of Los Altos		Hon. Mary Prochnow
Town of Los Gatos		Hon. Steve Leonardis
City of Milpitas	Hon. Garry Barbadillo	
Town of Monte Sereno		Hon. Curtis Rogers
City of Morgan Hill	Hon. Rich Constantine	Hon. Larry Carr
City of Mountain View		Hon. Pat Showalter
City of Palo Alto		Hon. Tom DuBois
City of San José	Hon. Lan Diep	Kerrie Romanow
City of Santa Clara		Hon. Patrick Kolstad
City of Saratoga	Hon. Rishi Kumar	
City of Sunnyvale		Hon. Larry Klein
County of Santa Clara		Hon. Cindy Chavez
Santa Clara Open Space Authority		Hon. Kalvin Gill
Midpeninsula Regional Open	Hon. Yoriko Kishimoto	
Space District		

*Commission Member arrived as noted.

Board members in attendance were: Director Richard P. Santos and Director John L. Varela, Board Representatives.

Staff members in attendance were: Jennifer Abadilla, Kurt Arends, Glenna Brambill, Jerry De La Piedra, Vanessa De La Piedra, Garth Hall, Nina Hawk, Theresa Krakov, Brendan Maher, Anthony Mendiola, Leslie Orta, Darin Taylor and Sarah Young.

2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON AGENDA

Mr. Richard McMurtry from Santa Clara County Creeks Coalition spoke on steelhead trout and distributed a letter for the Water Commission's consideration.

*Hon. Courtenay Corrigan arrived at 12:09 p.m.

3. APPROVAL OF MINUTES

It was moved by Hon. Mike Wasserman, seconded by Hon. Mike Flaugher., and by majority vote carried, to approve the January 24, 2018, Santa Clara Valley Water Commission meeting minutes as presented. Hon. Peter Leroe-Muñoz, Hon. Barbara Spector and Hon. Jed Cyr abstained.

4. ACTION ITEMS

4.1 REVIEW AND COMMENT TO THE BOARD ON THE FISCAL YEAR 2018-19 PROPOSED GROUNDWATER PRODUCTION CHARGES

Mr. Darin Taylor reviewed the materials as outlined in the agenda item and the PAWS report was distributed.

Hon. Nancy Smith, Hon. Mike Flaugher, Hon. Mike Wasserman,

Hon. Courtenay Corrigan, Hon. Adrian Fine, Hon. Howard Miller, Hon. Steve Schaff and Hon. Debi Davis, spoke on the proposed groundwater production charges, outreach, water rates, development issues and construction costs.

Ms. Nina Hawk, Director Richard P. Santos and Director John L. Varela were available to answer questions.

The Water Commission took the following action:

It was moved by Hon. Nancy Smith, seconded by Hon. Lynette Lee Eng, and unanimously carried, to approve the Santa Clara Valley Water District Board of Directors receiving the Water Commission's summarized comments on the Groundwater Production Charges as noted below:

- 1. How are rates publicized to the community? There needs to be some outreach explaining why the rates are being increased.
- 2. Need to show a long-term trend of the cumulative effect of rates over 10 to 20 years (reviewing projections of total costs).
- 3. Suggest having a steady increase as opposed to a dramatic increase in the rates. Keeping the rates low as possible being the ultimate goal. Look at the rationale of returning funds or placing them in a "holding" fund (reserves) for later use if possible so a request for an increase will be unnecessary or minimal.
- 4. Since construction costs are high does the District consider delaying capital improvement projects until costs are more cost effective?
- 5. Does the District receive development monies? If not, there needs to be a mechanism in place for the District to collect fees/funds when developers come to the County and cause impacts to the infrastructure. Suggest the District have discussions with those that could provide the funding needed (City, State and Federal officials).
- 6. Rates being more sustainable.

4.2 CLIMATE CHANGE MITIGATION – CARBON NEUTRALITY BY 2020 PROGRAM UPDATE

Mr. Kurt Arends reviewed the materials as outlined in the agenda item.

Hon. Jed Cyr, Hon. Peter Leroe-Muñoz, Hon. Nancy Smith and Hon. Howard Miller had questions on the costs of the program, solar energy/solar plan, solar power and peak demand hours. Hon. Courtenay Corrigan spoke about Silicon Valley Clean Energy a community-owned electricity provider for the majority of Silicon Valley communities.

No action was taken.

4.3 STUDY OF THE DISTRICT'S GROUNDWATER SERVICES AREAS ("ZONES OF BENEFIT")

Mr. Gath Hall reviewed the materials as outlined in the agenda item.

Hon. Lynette Lee Eng left at 1:30 p.m. and did not return.

Hon. Barbara Spector left at 1:32 p.m. and did not return.

Hon. Mike Wasserman left at 1:34 p.m. and did not return.

Hon. Courtenay Corrigan questioned about Los Altos Hills not being in the zone of benefit.

Hon. Peter Leroe-Muñoz left at 1:36 p.m. and did not return.

Mr. Tony Ndah left at 1:38 p.m. and did not return.

Hon. Courtenay Corrigan left at 1:39 p.m. and did not return.

No action was taken.

4.4 REVIEW SANTA CLARA VALLEY WATER COMMISSION WORK PLAN, THE OUTCOMES OF BOARD ACTION OF COMMISSION REQUESTS AND THE COMMISSION'S NEXT MEETING AGENDA

Ms. Glenna Brambill reviewed the materials as outlined in the agenda item.

No action was taken.

5. CLERK REVIEW AND CLARIFICATION OF COMMISSION REQUESTS TO THE BOARD

Ms. Glenna Brambill reported there were no items for Board consideration.

6. REPORTS

6.1 Director's Report None.

6.2 Manager's Report

Ms. Nina Hawk reported on the following:

• Fact sheet on drought and water supply impacts in today's meeting packet

6.3 Commission Member Reports

Hon. Mike Flaugher reported on the following:

• He and Rick Callender are working on a trails and waterways conference, more details to come.

7. ADJOURNMENT

Vice Chair Hon. Debi Davis adjourned at 1:43 p.m. to the next regular meeting on Wednesday, July 25, 2018, at 12:00 p.m., in the Santa Clara Valley Water District Headquarters Boardroom.

Glenna Brambill Board Committee Liaison Office of the Clerk of the Board

Approved:

This Page Intentionally Left Blank Page 6 File No.: 18-0539

Agenda Date: 7/25/2018 Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM

Santa Clara Valley Water Commission

SUBJECT:

Climate Change and Sea Level Rise Adaptation - Water Supply, Flood Protection, Ecosystems.

RECOMMENDATION:

This is a discussion item and the Commission may provide comments, however, no action is required.

SUMMARY:

This item is being presented at the request of the Committee.

BACKGROUND:

As the primary water resources agency for Santa Clara County, the District manages an integrated water resources system that includes the supply of clean, safe water, natural flood protection, and stewardship of streams on behalf of Santa Clara County's 1.9 million residents.

The District's ability to provide those services is challenged by the potential of increasing temperatures, changing precipitation and runoff patterns, increases in extremes, reduced snow pack, and rising sea levels. Managing climate change related uncertainties, vulnerabilities, and risks to water resource management is critical to fulfill the District's mission.

This item updates the Commission on adaptation activities such as: promoting and supporting a resilient and adaptable water supply, reducing flood risks and flood damages, improving ecosystem resiliency, and the development of a Climate Change Action Plan. Staff are presenting an overview of these activities (Attachment 1 Presentation). Attachment 2 provides a detailed list of the adaptive measures, including schedule and status.

1. Activities Related to Water Supply

To address the challenges of an uncertain future and potential risks to water supplies, the District relies on its long-term planning efforts. Long-term planning efforts strive to develop and improve resilient and adaptable water supplies and strategies, while considering changing conditions. The District is currently updating its Water Supply Master Plan. The plan is reviewed annually and updated every five years to evolve to changing conditions. The Water Supply Master Plan Update 2018 builds on Board approved strategies to secure and optimize the use of existing supplies and infrastructure, and to meet future increases in demands with conservation and recycling. Water

supply adaptation strategies in the plan include: reducing demand through conservation, increasing potable and nonpotable supplies, securing imported water, and increasing system flexibility. The Water Supply Master Plan will continue to develop elements that adapt well to future climate changes.

In addition to the District's long-term strategies, we are also continually adjusting our water supply and treatment operations to ensure a high quality reliable water supply in the face of near term challenges. These ongoing operations efforts will also be useful in the face of a changing climate. These efforts support water quality, reliability, emergency preparedness, and coordination with municipalities, water retailers and other regional water agencies.

2. Activities Related to Fluvial and Tidal Flood Protection

The District completed coastal flood mapping for various sea level rise (SLR) scenarios and it has been shared with the Cities to help quantify flooding risk. Several projects have already utilized this data in planning and design.

The District continues to participate on the San Francisco Bay Shoreline Project Efforts with the Army Corps of Engineers (Corps). This project is a partnership with the California State Coastal Conservancy, Corps, and regional stakeholders to provide tidal flood protection, restore and enhance tidal marsh and related habitats, and provide recreational and public access opportunities.

The District also partnered with Colorado State University and the National Oceanic and Atmospheric Administration (NOAA) as a part of the Advanced Quantitative Precipitation Information project, funded by State and Federal grants, to expand the national weather radar coverage by installing the first X-Band Radar in the Bay Area on District property. The data will improve real-time precipitation forecasting for use in the District's Flood Forecast and Warning System.

3. Activities Related to Ecosystem Resiliency

The District has multiple restoration and enhancement projects that strive to improve vegetative communities for local wildlife and native plant diversity, increase native canopy cover and carbon dioxide (CO2) sequestration to reduce climate change effects, increase in-stream shading to lower water temperatures for fish, and enhance habitat connectivity for wildlife migration. These projects utilize adaptive management strategies to more readily address changing climatic conditions in the future.

Current projects that support ecosystem resiliency include the South Bay Salt Pond Restoration Project that will minimize bayfront impacts from sea level rise by providing a wetland buffer and attenuation of high tides.

In addition, the San Francisco Bay Shoreline Project will not only enhance flood protection for our bayfront communities, but also provide improved ecotones and habitat connectivity for wildlife. The District recently completed all required land preservation for its Stream and Watershed Preservation Program. Over 3,600 acres of upper watershed lands in various parts of Santa Clara

File No.: 18-0539

County have been protected as a part of this program. Ongoing monitoring and land management activities continue to ensure that the conservation values of the preserved land are maintained.

4. Climate Change Action Plan Development

The District is developing a comprehensive Climate Change Action Plan (CCAP). The CCAP will be a framework and plan to adapt to a changing climate and to further reduce greenhouse gas (GHG) emissions. The adaptation component will look for ways to reduce risks associated with a changing climate, and the GHG reduction element will document and add to existing GHG reduction and carbon neutrality efforts. These two areas will be combined to find strategies that are synergistic between the two and look for conflicts. The CCAP will include proposed and budgeted strategies, and an implementation and monitoring framework, which includes periodic review and updates to the CCAP. The CCAP is scheduled to be complete by June 30, 2019.

ATTACHMENTS:

Attachment 1: PowerPoint Presentation Attachment 2: Climate Change Adaptation Measures

UNCLASSIFIED MANAGER:

Rechelle Blank, 408-630-2615

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Climate Change and Sea Level Rise Adaptation – Water Supply, Flood Protection, Ecosystems

July 25, 2018



Climate Change Adaptation - Policy Direction

Board Appointed Officers Interpretation of Board Policy:

Incorporate climate change mitigation and adaptation into District planning efforts.



Budget Milestone:

Complete Climate Action Plan by FY19

Climate Change Adaptation Efforts



Ensure Water Supply Reliability



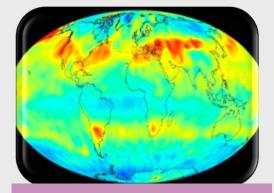
Decrease Fluvial and Tidal Flood Risks



Support Ecosystem Resiliency



Increase Climate Literacy/Education



Develop a Climate Change Action Plan

Adaptation Activities for Water Supply



Our long term planning continually develops and improves resilient and adaptable water supplies and strategies and considers changing conditions.

2018 Water Supply Master Plan Update

Water Supply Master Plan Update Elements:

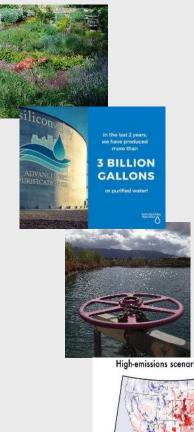
Manage water use demands

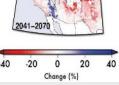
Provide drought-proof supplies

Secure imported water supplies

Increase system flexibility

Compile and analyze data





Attachment 1 Page 5 of 14

Focused on

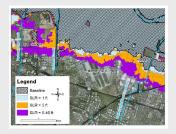
Adaptive measures Improved flood prediction / response capabilities Continued research on precipitation as the science progresses



Assessing flood related impacts

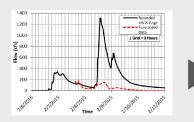


- Changes in future precipitation
- Using completed SLR mapping in planning and design



Continue to improve the flood

warning system



Continued development of design policy guidance

The District is constantly working on improving our storm prediction capabilities

X-Band radar installed at Penitencia Water Treatment Plan

8



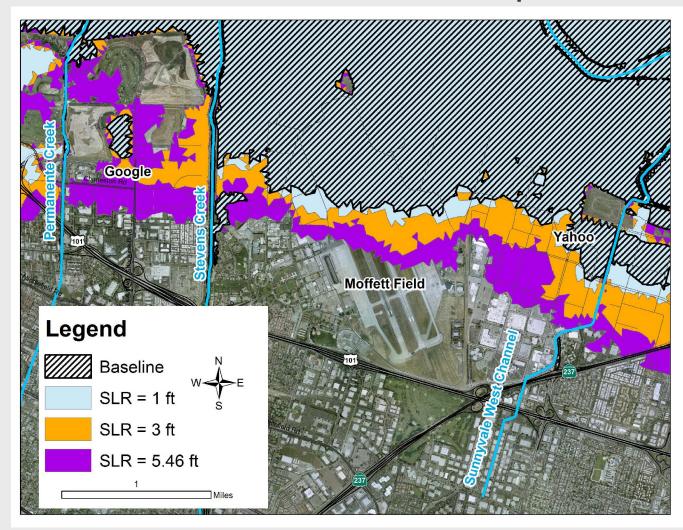
San Francisco Bay Shoreline Project Efforts

- Continuing San Francisco Bay Shoreline Project Efforts with the Army Corps of Engineers (Corps).
- EIA 11 concluded Feasibility phase in Dec 2015 and is in the design phase.
- ElAs 1-10 preliminary feasibility study is complete.
 - Identified preliminary alignment
 - Developed levee heights

9

- Partnered with South Bay Salt Ponds Project for EIAs 4 & 5 and EIAs 10.
- Sunnyvale is interested in progressing forward
- Resilient By Design Challenge selected the Sunnyvale area to explore their Bay Towns concept

Sea Level Rise Snapshot



Adaptation Activities for Ecosystem Resiliency

Climate-Smart Mitigation & Stewardship





- Native plant diversity for resiliency
- Stream shading for water temperature control
- Increased vegetative cover for carbon sequestration
- Enhanced habitat connectivity for species migration
- Adaptive management to address uncertainties

Adaptation Activities for Ecosystem Resiliency

Projects the Support Resilient Ecosystems

- San Francisco Bay Shoreline Protection
- South Bay Salt Pond Restoration Project





 San Francisquito Creek Flood Reduction, Ecosystem Enhancement, and Recreation Project – Bay to 101

Climate Change Action Plan - CCAP

CLIMATE CHANGE ACTION PLAN



..a district-wide, comprehensive framework to adapt to climate change and continue to reduce greenhouse gas emissions.

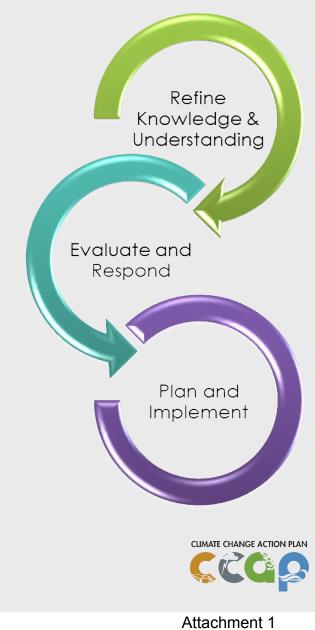


Climate Change Action Plan - CCAP

Three-phase Approach

- Baseline Assessment
- Gap and Risk Assessments
- Strategies and Implementation

Scheduled completion 2019



Page 14 of 14

Attachment 2. Climate Change Adaptation Measures

Pro	oject or Program	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status	
Clir cor nee une	FLOOD PROTECTION Climate change is expected to generate more severe storms for Northern California, and the sea level will continue to rise as a result of global warming. More uncertainty in storm pattern and severity renders the need for flood forecast and emergency operations to reduce flood damage. Continuous sea level rise, with uncertainties in greenhouse gas (GHG) abatement effects, necessitates regional coordination and adaptive designs of flood protection facility. District's work is developed to address these needs.					
1.	Develop policy to incorporating sea level rise to projects in the tidal zone	Have a consistent approach to design facilities to protect against sea level rise	A regionally coordinated engineering procedure for planning and design	Draft memo is completed and final version of the guidance is expected to be completed in FY19.	Compiling information from other local, state and federal agencies	
2.	Augment rain and streamflow gauge systems	Need rain and streamflow gauges to monitor climate change effects, facilitate emergency flood-fighting actions and enable flood warning systems	Install streamflow and rain gauges at key locations to allow hydrologic and hydraulic modeling.	We are reaching saturation for the gauges to balance maintenance and data needs. Several more gauges are slated for CY2018	Installed 5 new streamflow & 1 rain gauge in CY 2017	
3.	Develop fluvial flood maps	Present flood maps of various flood levels to communicate flood risks to residents and affected critical infrastructures	Map floodplain boundaries for 1% (100- yr), 0.5% (200-yr) & 0.2% (500-yr) floods for major creeks	FY17: Lower Silver Creek & Tributaries FY18: Coyote, Berryessa, Upper Penitencia FY19: Uvas, Guadalupe, Lower Peninsula FY20: Llagas	Coyote and Upper Penitencia are wrapping up, and Guadalupe and Uvas are under way.	
4.	Develop flood warning systems	Alert residents of imminent flooding to reduce flood damage. Prior Flood protection projects designed for 1% flood	Develop flood warning systems to forecast flooding and allow residents time to prepare for and reduce flood damage.	Future: San Tomas, Berryessa, Reservoir Inflows	Current: Guadalupe, San Francisquito, Uvas, West Little Llagas, Upper	

Attachment 2 Page **1** of **9**

Pro	oject or Program	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status
		may not be sufficient for the future.			Penitencia, Coyote
5.	Develop coastal flood maps for FEMA	Identify risks of sea level rise and coastal flooding and collaborate with FEMA in developing flood maps	Coastal modeling results for FEMA review and incorporation into updated coastal flood maps	Complete	Complete
6.	Coordinate with Bay Area agencies including Regulatory, State, Federal, and Local.	Coordinate among agencies to maintain consistent approach to adapt to the regional effect of sea level rise	Coordinate for continuous and consistent design of levees through neighboring counties.	Completed the preliminary SLC analysis for the remaining county area which was consistent with Corps SLC policy to identify the required levee height for the FRM component.	Completed
7.	Acquire global warming downscaled climate data	Needed to compare possible local changes to precipitation and temperature under global warming different scenarios	Downscaled temperature and precipitation projections for more than a dozen locations within Santa Clara County.	Ongoing	Ongoing
WATER SUPPLY Potential effects of climate change on the core service area of water supply include the potential for reduced imported and local surface water availability, increased water demand, changes in hydrology, and increased drought and heat waves. The Board approved 2012 Water Supply and Infrastructure Master Plan strategy is to secure and optimize the use of existing supplies and infrastructure and meet future increases in demands with conservation and recycling. The Water Supply Master Plan Update 2018, which is currently being developed, will build on the 2012 strategy. This strategy includes the following elements that adapt well to future climate changes:					
8.	Manage water use demands	The 2018 No Regrets package of water conservation and storm water projects is a sustainable response to increasing water demands and threats to water supply	Current and planned water conservation programs are projected to achieve about 110,000 AFY of water savings per year by 2040	Ongoing. Approved by the BOD on September 19, 2017.	On target

Attachment 2 Page **2** of **9**

Project or Program	Linkage to Climate	Outcome (What)	Schedule (When)	Status	
	Change (Why)				
	reliability that may be associated with climate change.				
9. Provide drought-proof supplies	Increasing recycled and purified water use is an all-weather year response to increasing water demands and threats to water supply reliability that may be associated with climate change.	Non-potable recycled water use is projected to increase from about 22,000 AFY in 2014 to 30,000 AFY by 2040. Developing potable reuse, which could provide an additional 24,000 AFY of drought- proof supply for groundwater recharge by 2025.	Ongoing. Approved by the BOD on December 12, 2017.	On target	
10. Increase water supply system flexibility through rehabilitation	Managing the increased frequency of extreme events that are anticipated in a changing climate	Maintaining and rehabilitating the water supply system, including dam retrofits.	Almaden Dam Improvements – FY 24 Anderson Dam Seismic Retrofit – FY 25 Calero and Guadalupe Dams Seismic Retrofit – FY 22 Main and Madrone Pipelines Restoration – FY 19	On target	
11. Increase water supply system flexibility through new projects	Managing the increased frequency of extreme events that are anticipated in a changing climate	Developing a new reservoir pipeline and additional groundwater recharge ponds	In Planning	Underway	

Attachment 2 Page **3** of **9**

Project or Program	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status
12. Improve the reliability of imported water supplies	Sea level rise and reduced precipitation are threats to imported water reliability and the Delta ecosystem	Pursuing Delta solution(s) to achieve the coequal goals of providing a more reliable water supply and protecting and restoring the Delta ecosystem.	Ongoing	The Board recently approved principles for participation in California Water Fix
13. Rinconada Water Treatment Plant Reliability Project	Climate change threatens source water quality affecting water treatment effectiveness	The RWTP Reliability Project will convert the primary disinfection process to ozone, which will allow the RWTP to be more flexible and adaptable to poor source water quality.	Project completion scheduled for FY 22.	On target.
14. Water Utility Infrastructure Reliability Assessment	Climate change and extreme storms have the potential to damage or disrupt infrastructure and related operations.	Completed a vulnerability assessment of the major water utility infrastructure classes for several extreme climate scenarios. The assessment will inform the Infrastructure Reliability Plan and Asset Management Program.	Complete 2015	Complete

Project or Program	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status
15. Compile and analyze data	Data collection and analysis is needed to better understand and plan for climate change uncertainties	Compile and analyze data that could provide insights into potential local changes in runoff, water quality, and water use demands. The uncertainty analysis for the Water Supply Master Plan Update 2018 included a climate analysis for late century, since most of our water supply strategies and facilities are needed for many decades to come	Ongoing	Ongoing
ENVIRONMENTA	LAL STEWARDSHIP- Ecosys			
Monitor effects of	of climate change on veg	etation and wildlife. Collab		urces master
		under climate change and s		
16. Environmental	Changes in climate	Develop a habitat	FY14-28: SCW D5	FY13-17:
database development	and weather can compromise weakened or unhealthy ecosystems. Gaps in our knowledge of current habitat conditions hamper adaptive management strategies as conditions change.	conditions database to monitor effects of climate change and develop adaptive measures. See habitat condition data on EcoAtlas – http://www.ecoatlas.or g/regions/ecoregion/ba y-delta Ecological Monitoring – Information Management System (EM-IMS) is a District environmental database		Completed California Rapid Assessment Method (CRAM) ecosystem health measures for Coyote, Guadalupe, Uvas-Llagas, and Lower Peninsula watersheds FY18: West Valley watershed CRAM assessment planned FY14-18: Completed development water quality (stream

Attachment 2 Page **5** of **9**

Project or Program Linkage to Climate Outcome (What) Se Change (Why)	Schedule (When)	Status
17. Maintain and enhance ecosystem resilience Environmental conditions underpin the health and functioning of ecosystems. Changes in climate and weather affect the structure and function of ecosystems, and can severely compromise already weakened or Increased ecosystem consectivity and resilience S	Stream and Watershed Protection Program (SWPP) - completed FY16; long-term management in berpetuity Integrated Water Resource Master Plan FY14-28: SCW D3 FY14-28: SCW D2	temperature) and wildlife modules of EM-IMS FY19: Develop fisheries and vegetation modules FY18-19: develop set of baseline habitat assessments against which to compare future habitat quality changes. SWPP: acquired 1700 acre property, bringing total to, approx. 3600 acres of upper watershed lands preserved through the course of the program. Integrated Water Resource Master Plan FY16: Completed the Interim Countywide Overview Report; part of a Countywide Water Fy16:

Attachment 2 Page 6 of 9

Project or Program	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status
				FY 17-18: Nearly \$1.9 million released in grants this year to the community to support projects seeking to provide access to new trails and open space and to restore wildlife habitat. FY 18-19: Begin developing Stream Corridor Priority Plans. SCW D2 FY14-28: working collaboratively with partner agencies on improving connectivity for wildlife and their habitat.
18. Invasive species issues	Invasive species compete with native species and reduce their ability to adapt to a changing climate. Invasive species spread is often enhanced by changing climate, especially hot/dry conditions. Ecosystems stressed by drought and other climate factors are more vulnerable to	Enhancing wetland, riparian, and upland habitat through appropriate devegetation and native revegetation efforts, including removing invasive plants to allow native plants to survive. Develop best practices for limiting spread of invasive species, including Phytophthora species.	FY14-28: SCW D2 FY15-19: SMP	FY14-18: 20 acres of native riparian, salt marsh, and upland habitat revitalized. FY16-18: partnerships were executed with Midpeninsula CA Coastal Conservancy and the City of San Jose

Attachment 2 Page **7** of **9**

,	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status
	diseases and pests such as Phytophthora species, which in turn cause declines in ecosystem health and function.			FY18-19: develop partnership with CalFlora for better understanding of movement of invasive species in our area.
DISTRICT-WIDE PLAN	NING STRATEGY FOR A	DAPTATION		
19. Provide Climate Change Training to District staff	Ensure consistent understanding of climate change science	Develop consistent, up to date knowledge base to inform major planning efforts	Conducted at least two training sessions per year addressing climate change science and adaptation	On going Additional training will be developed as needed.
20. Actively Engage and Leverage Existing State, Regional, and Local Organizations Addressing Mitigation and Adaptation Policies and Strategies	Keep current on the state of science, collaborate on solutions, and inform District's work.	Improved partnerships, stakeholder relationships and climate change understanding. Improved and coordinated regional responses	Staff have participated in many forums and continue to look for new opportunities. Staff may be working with the County again as Silicon Valley 2.0 may be revived next fiscal year.	On Going
21. Update long term planning documents with the most recent information from the monitoring and analysis of the science	understanding increases, our efforts to adapt to a changing climate and challenges	"Incorporate climate change mitigation and adaptation into District planning efforts." (Board Ends Polices BAO Interpretations: S 2.7; S 3.4; S 4.6.)	FY18: Provide climate change knowledge to: - -Water Supply Master Plan Update 2018 - Local Hazard Mitigation Plan 2017	Ongoing
22. Develop Climate	Climate change	Districtwide Climate	FY19	On target

Project or Program	Linkage to Climate Change (Why)	Outcome (What)	Schedule (When)	Status
Change Action Plan	impacts and adaptation options, along with continued GHG reduction opportunities will be assessed and implemented where possible	Action Plan		

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Agenda Date: 7/25/2018 Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM

Santa Clara Valley Water Commission

SUBJECT:

Review Santa Clara Valley Water Commission Work Plan, the Outcomes of Board Action of Commission Requests; and the Commission's Next Meeting Agenda.

RECOMMENDATION:

Review the Commission work plan to guide the Commission's discussions regarding policy alternatives and implications for Board deliberation.

SUMMARY:

The attached Work Plan outlines the Board-approved topics for discussion to be able to prepare policy alternatives and implications for Board deliberation. The work plan is agendized at each meeting as accomplishments are updated and to review additional work plan assignments by the Board

BACKGROUND:

Governance Process Policy-8:

The District Act provides for the creation of advisory boards, committees, or committees by resolution to serve at the pleasure of the Board.

Accordingly, the Board has established Advisory Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District's mission for Board consideration. In keeping with the Board's broader focus, Advisory Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

Further, in accordance with Governance Process Policy-3, when requested by the Board, the Advisory Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.

ATTACHMENTS:

Attachment 1: Santa Clara Valley Water Commission 2018 Work Plan Attachment 2: Santa Clara Valley Water Commission October 24, 2018 Draft Agenda

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

GP8. Accordingly, the Board has established Advisory Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District's mission for Board consideration. In keeping with the Board's broader focus, Advisory Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

The annual work plan establishes a framework for committee discussion and action during the annual meeting schedule. The committee work plan is a dynamic document, subject to change as external and internal issues impacting the District occur and are recommended for committee discussion. Subsequently, an annual committee accomplishments report is developed based on the work plan and presented to the District Board of Directors.

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
1	Election of Chair and Vice Chair for 2018	January 24	Commission Elects Chair and Vice Chair for 2018. (Action)	Accomplished January 24, 2018: The Commission elected Hon. Yoriko Kishimoto as 2018 Water Commission Chair and Hon. Debi Davis as 2018 Water Commission Vice Chair.
2	Annual Accomplishments Report	January 24	 Review and approve 2017 Accomplishments Report for presentation to the Board. (Action) Submit requests to the Board, as appropriate. 	Accomplished January 24, 2018: The Commission reviewed and approved the 2017 Accomplishments Report for presentation to the Board.
3	Civic Engagement	January 24	 Receive feedback from Commission per Transparency Audit. (Action) Provide comments to the Board, as necessary. 	Accomplished January 24, 2018: The Commission received information on Civic Engagement and took no action.

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
4	Winter Preparedness Update	January 24 October 24	 Receive information on the District's Winter Preparedness. (Information) 	Accomplished January 24, 2018: The Commission received information on Winter Preparedness and took no action.
5	Review and Comment to the Board on the Fiscal Year 2019 Preliminary Groundwater Production Charges	January 24	 Review and comment to the Board on the Fiscal Year 2019 Preliminary Groundwater Production Charges. <i>(Action)</i> Submit requests to the Board, as appropriate. 	Accomplished January 24, 2018: The Commission reviewed and had no comments to the Board on the Fiscal Year 2019 Preliminary Groundwater Production Charges.
6	Review of Santa Clara Valley Water Commission Work Plan, the Outcomes of Board Action of Commission Requests and the Commission's Next Meeting Agenda	January 24 April 11 July 25 October 24	 Receive and review the 2018 Board-approved Committee work plan. (Action) Submit requests to the Board, as appropriate. 	Accomplished January 24, 2018: The Commission reviewed the 2018 work plan and took no action. Accomplished April 11, 2018: The Commission reviewed the 2018 work plan and took no action.
7	Review and Comment to the Board on the Fiscal Year 2019 Proposed Groundwater Production Charges.	April 11	 Review and comment to the Board on the Fiscal Year 2019 Proposed Groundwater Production Charges. (Action) Provide comments to the Board, as necessary. 	Accomplished April 11, 2018: The Commission reviewed and commented to the Board on the Fiscal Year 2019 Proposed Groundwater Production Charges as follows: Commission's summarized comments 1. How are rates publicized to the community? There needs to be some outreach explaining why the rates are being increased.

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
				 Need to show a long-term trend of the cumulative effect of rates over 10 to 20 years (reviewing projections of total costs). Suggest having a steady increase as opposed to a dramatic increase in the rates. Keeping the rates low as possible being the ultimate goal. Look at the rationale of returning funds or placing them in a "holding" fund (reserves) for later use if possible so a request for an increase will be unnecessary or minimal. Since construction costs are high does the District consider delaying capital improvement projects until costs are more cost effective? Does the District receive development monies? If not, there needs to be a mechanism in place for the District to collect fees/funds when developers come to the County and cause impacts to the infrastructure. Suggest the District have discussions with those that could provide the funding needed (City, State and Federal officials). Rates being more sustainable.

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
8	Climate Change Mitigation – Carbon Neutrality by 2020 Program Update	April 11	 Receive information on climate change mitigation – carbon neutrality by 2020 program update. <i>(Action)</i> Provide comments to the Board, as necessary. 	Accomplished April 11, 2018: The Commission received information on climate change mitigation – carbon neutrality by 2020 program update and took no action.
9	Study of the District's Groundwater Services Areas ("Zones of Benefit")	April 11	 Receive information on the Study of the District's Groundwater Services Areas. (Action) Provide comments to the Board, as necessary. 	Accomplished April 11, 2018: The Commission received information on the Study of the District's Groundwater Services Areas and took no action.
10	Climate Change and Sea Level Rise Adaptation – Water Supply, Flood Protection, Ecosystems Protection	July 25	 Receive information on climate change and sea level rise adaptation – water supply, flood protection, ecosystems protection. <i>(Action)</i> Provide comments to the Board, as necessary. 	

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
11	Discussion on the Riparian Corridor Ordinance, Encroachment Process	October 24	 Discuss the Riparian Corridor Ordinance, Encroachment Process. (Action) Provide comments to the Board, as necessary. 	
12	Bigger Challenges Facing the District on Integrating the Need for Safe Drinking Water Supply, Flood Control and Protecting the Ecosystem and the Latest Research on "Urban Water Management". on "Complex Interacting Systems for a Sustainable Future"	October 24	Presentation from Professor Craig Criddle	

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Page 42

Water District

Santa Clara Valley <u>Commission Officers</u> Hon, Yoriko Kishimoto, Chair Hon. Rishi Kumar, Vice Chair

Board Representative

Barbara Keegan, Alternate **Richard P. Santos, Board Representative** John L. Varela, Board Representative

DRAFT AGENDA

SANTA CLARA VALLEY WATER COMMISSION

WEDNESDAY, OCTOBER 24, 2018

12:00 p.m. – 2:00 p.m.

Santa Clara Valley Water District Headquarters Building Boardroom 5700 Almaden Expressway San Jose, CA 95118

Time Certain:

12:00 p.m. 1. Call to Order/Roll Call

2. Time Open for Public Comment on Any Item Not on Agenda

Comments should be limited to two minutes. If the Commission wishes to discuss a subject raised by the speaker, it can request placement on a future agenda.

3. **Approval of Minutes**

3.1 Approval of Minutes – July 25, 2018, meeting

4. Action Items

Discussion on the Riparian Corridor Ordinance, Encroachment Process 4.1 (Usha Chatwani)

Recommendation: This is a discussion item and the Committee may provide comments, however, no action is required.

Bigger Challenges Facing the District on Integrating the Need for Safe Drinking 4.2 Water Supply, Flood Control and Protecting the Ecosystem and the Latest Research on "Urban Water Management". on "Complex Interacting Systems for a Sustainable Future" (Guest- Professor Craig Criddle)

Recommendation: This is a discussion item and the Committee may provide comments, however, no action is required.

4.3 Discussion of Water Supply and Reliability and Regional Growth Forecasts and Potential Role of Water Commission (Garth Hall)

Recommendation: This is a discussion item and the Committee may provide comments, however, no action is required.

4.4. Discussion of extirpation of salmonid populations and the possible effects of water supply policy and operational practices (Vincent Gin)

Recommendation: This is a discussion item and the Committee may provide comments, however, no action is required.

4.5 Review Santa Clara Valley Water Commission Work Plan, the Outcomes of Board Action of Commission Requests and the Commission's Next Meeting Agenda (Commission Chair)

Recommendation: Review the Commission work plan to guide the committee's discussions regarding policy alternatives and implications for Board deliberation.

5. Clerk Review and Clarification of Commission Requests to the Board

This is a review of the Commission's Requests, to the Board (from Item 4). The Commission may also request that the Board approve future agenda items for Commission discussion.

6. <u>Reports</u>

Directors, Managers, and Commission members may make brief reports and/or announcements on their activities. Unless a subject is specifically listed on the agenda, the Report is for information only and not discussion or decision. Questions for clarification are permitted.

- 6.1 Director's Report
 - 6.1a An update on the board's vote on WaterFix
- 6.2 Manager's Report
 - 6.2a Summary of the Trails and Waterways Summit 2018
 - 6.2b The latest on the State Water Resources Control Board proposed re-allocation of water supplies?<u>https://www.sacbee.com/latest-news/article214437104.html</u>
- 6.3 Commission Member Reports
- 7. <u>Adjourn</u>: Adjourn to next regularly scheduled meeting at 12:00 p.m., January 23, 2019, in the Headquarters Building Boardroom, 5700 Almaden Expressway, San Jose, CA 95118

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarter Building, 5700 Almaden Expressway, San Jose, CA., 95118, at the same time that the public records are distributed or made available to the legislative body.

The Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend commission meetings. Please advise the Clerk of the Board office of any special needs by calling 1-408-630-2277.

Santa Clara Valley Water Commission's Purpose and Duties

The Santa Clara Valley Water Commission of the Santa Clara Valley Water District is established to assist the Board of Directors (Board) with policies pertaining to water supply, flood protection and environmental stewardship in the areas of interest to Santa Clara County and the Towns and Cities therein.

The specific duties are:

- Prepare policy alternatives
- Provide comment on activities in the implementation of the District's mission
- Produce and present to the Board an Annual Accomplishments Report that provides a synopsis of the annual discussions and actions.

In carrying out these duties, Commission members bring to the District their respective expertise and the interests of the communities they represent. In addition, Commissioners may help the Board produce the link between the District and the public through information sharing to the communities they represent.