

One Water Reliability Roundtable Series Report

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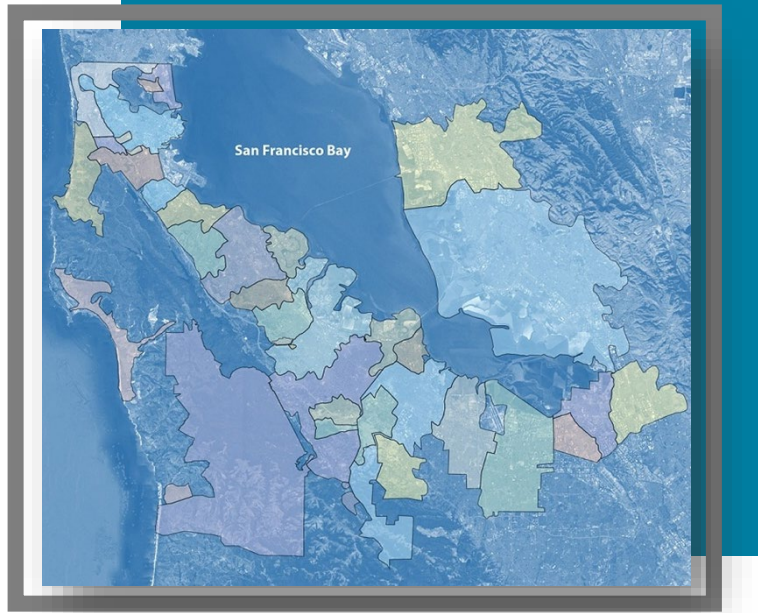
ATTACHMENTS

- Attachment A Workshop Presentations and Breakout Session Slides
- Attachment B Workshop Meeting Minutes
- Attachment C Submitted Project Information Forms
- Attachment D Funding Sources Summary Tables

1 INTRODUCTION

1.1 Who is BAWSCA?

The Bay Area Water Supply and Conservation Agency ([BAWSCA](#)) is a special district that was formed in 2003 to represent the interests of 16 cities, 8 water districts, and 2 private water providers in Alameda, San Mateo and Santa Clara Counties (member agencies) that purchase water on a wholesale basis from the San Francisco Public Utilities Commission (SFPUC) Regional Water System (RWS).



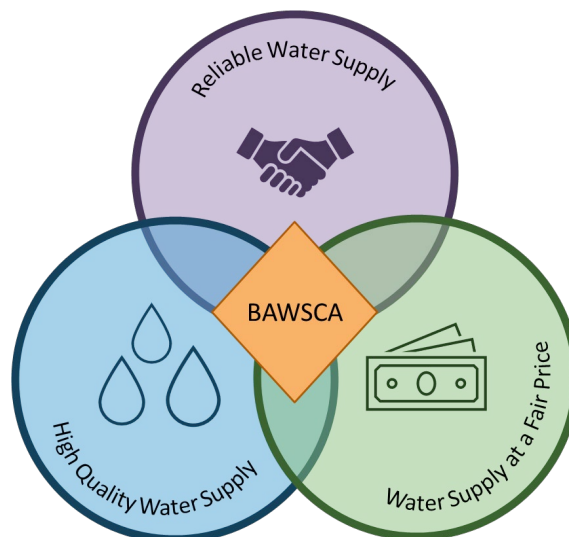
BAWSCA is governed by a 26-member Board of Directors comprised of representatives from each member agency.

BAWSCA is also the only entity with the authority to directly represent the needs of its member agencies that depend on the RWS in matters related to the RWS, providing the ability for the customers of the regional system to work with San Francisco on an equal basis to ensure the water system gets fixed, and to collectively and efficiently meet local responsibilities.

Among other things, BAWSCA provides regional water supply planning and conservation program services to enhance the water supply reliability for its member agencies, and has the authority to:

- Coordinate water conservation, supply, and recycling activities for its agencies
- Acquire water and make it available to other agencies on a wholesale basis
- Finance projects, including improvements to the RWS
- Build facilities in collaboration with other local public agencies or on its own to carry out the agency's purposes

BAWSCA's mission is to ensure a reliable and high quality water supply at a fair price for its 26 member agencies and the water customers they serve.



1.2 The One Water Reliability Roundtable Series

The One Water Reliability Roundtable Series (Roundtable Series) was a series of four interactive stakeholder meetings led by BAWSCA that occurred between May 2022 and February 2023. The meetings brought together different water professionals spanning across the BAWSCA service area including its member agencies, non-governmental organizations (NGOs), counties, wastewater agencies, and other leaders and experts in water related fields. The Roundtable Series was facilitated by BAWSCA as assisted by EKI Environment and Water, Inc. (EKI).

1.3 Goals/Purpose/Objectives

There are currently numerous water supply and conservation projects and programs underway throughout the BAWSCA service area. These projects cover an array of different strategies for increasing supply reliability, including recycled water efforts, stormwater and flood water control concepts, groundwater supply investigations, and more. All of these projects have the potential to create local and regional water supply benefits. By learning more about the interests and work of each participating organization, opportunities for collaboration, funding, and execution can be identified. The purpose of the Roundtable Series was to provide participants with an opportunity for networking, information sharing, and learning through presentations by the BAWSCA and EKI team, presentations from guest speakers, and breakout room discussions that offered a space for smaller and more intimate discussions. More explicitly, the three primary goals of the Roundtable Series were to: (1) understand how existing and planned projects in the region fit within the One Water concept, (2) identify the potential for collaborative opportunities, and (3) offer ideas for how entities could potentially support, help finance, permit, approve, and expand projects or programs that have the potential to offer multiple benefits.



Goals:

1. Understand how projects fit within the One Water concept.
2. Identify potential collaborative opportunities.
3. Consider how entities can best support, help finance, permit/approve and/or expand projects or programs that have the potential to offer multiple benefits.

To achieve the first goal, the Roundtable Series included guest speakers to discuss their current projects and to detail the process taken to achieve a successful One Water effort. Participants were asked to fill out Project Information Forms, discussed further in Section 4.2, to describe how their agency's projects fit into the One Water concept.

To achieve the second goal, breakout discussions occurred towards the end of each workshop, in which topics from the Roundtable Series were discussed in depth. The breakout discussions also provided an opportunity for information sharing and connection among participants. Participants engaged in discussions about various water supply projects under consideration, which allowed opportunities for potential collaboration to be discussed.

To help address the third goal, ideas on how BAWSCA or other agencies can help finance and support projects and programs were brainstormed in breakout room discussions to gather input from participants with different perspectives. A funding summary table was provided to workshop participants to inform them of financing and funding opportunities (Section 5.4).

2 ROUNDTABLE SERIES FRAMEWORK

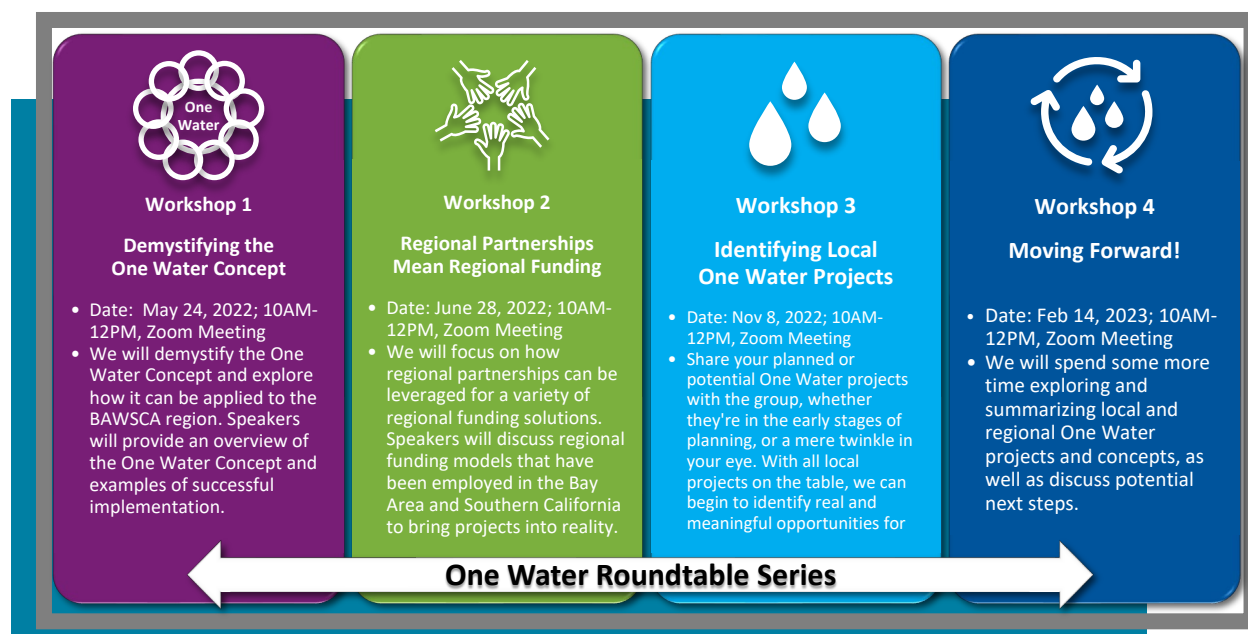
2.1 Workshop Meetings and Topics Covered

Four Roundtable Series meetings were conducted that covered various topics related to the One Water concept and its applicability to water supply reliability for the BAWSCA region. Each meeting started with introductory presentations by the BAWSCA and EKI team on the main topics of the workshop, followed by one or two guest speakers that offered a more detailed perspective. Workshop presentation slides can be found in **Attachment A**. Two poll questions were asked at each the meeting to encourage engagement from participants. The results of the poll questions are documented and discussed throughout this report.

After the presentations, workshop participants were separated into smaller breakout rooms to discuss the information presented to them during the workshop and to participate in more focused, intimate conversations. Questions and responses used for the breakout sessions can be found throughout this report and the workshop breakout sessions slides can be found in **Attachment A**.

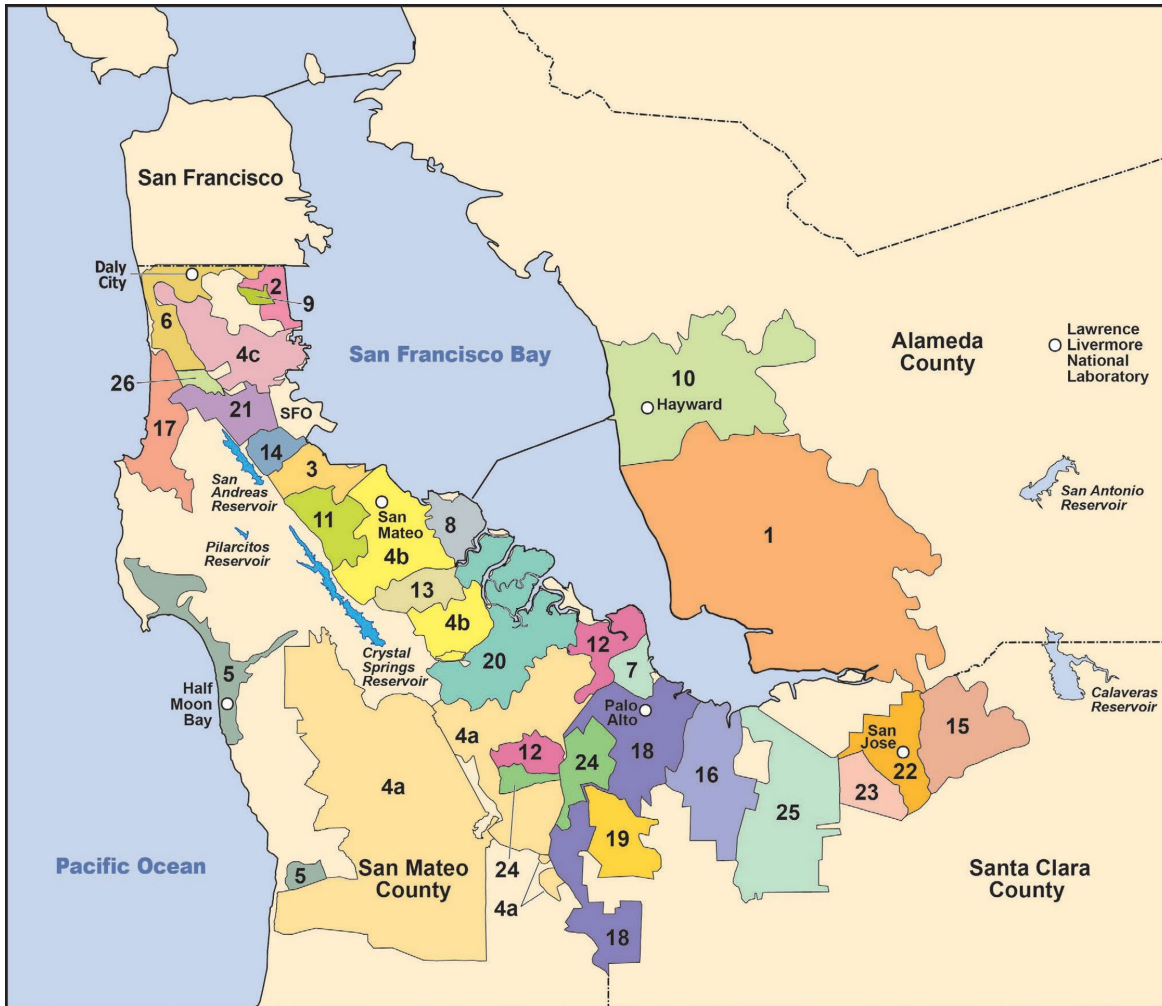
The first workshop, titled “Demystifying the One Water Concept,” focused on defining the One Water concept and how it could be applied to the BAWSCA region. The second workshop, titled “Regional Partnerships Mean Regional Funding,” centered on regional funding models and how those could be applied to One Water projects. The third workshop, titled “Identifying Local One Water Projects,” provided a forum for local agencies to share the different types of One Water projects being developed in the BAWSCA region and identify opportunities for collaboration. The final workshop, titled “Moving Forward,” summarized the topics discussed in the Roundtable Series and discussed possible next steps.

The graphic below summarizes the schedule of the four meetings along with the topics covered in each workshop. Each workshop’s meeting minutes can be found in **Attachment B**.



2.2 Participants

All the member agencies, illustrated in the map below, were invited to participate in the Roundtable Series. Out of the 26 member agencies, 19 agencies attended at least one workshop.

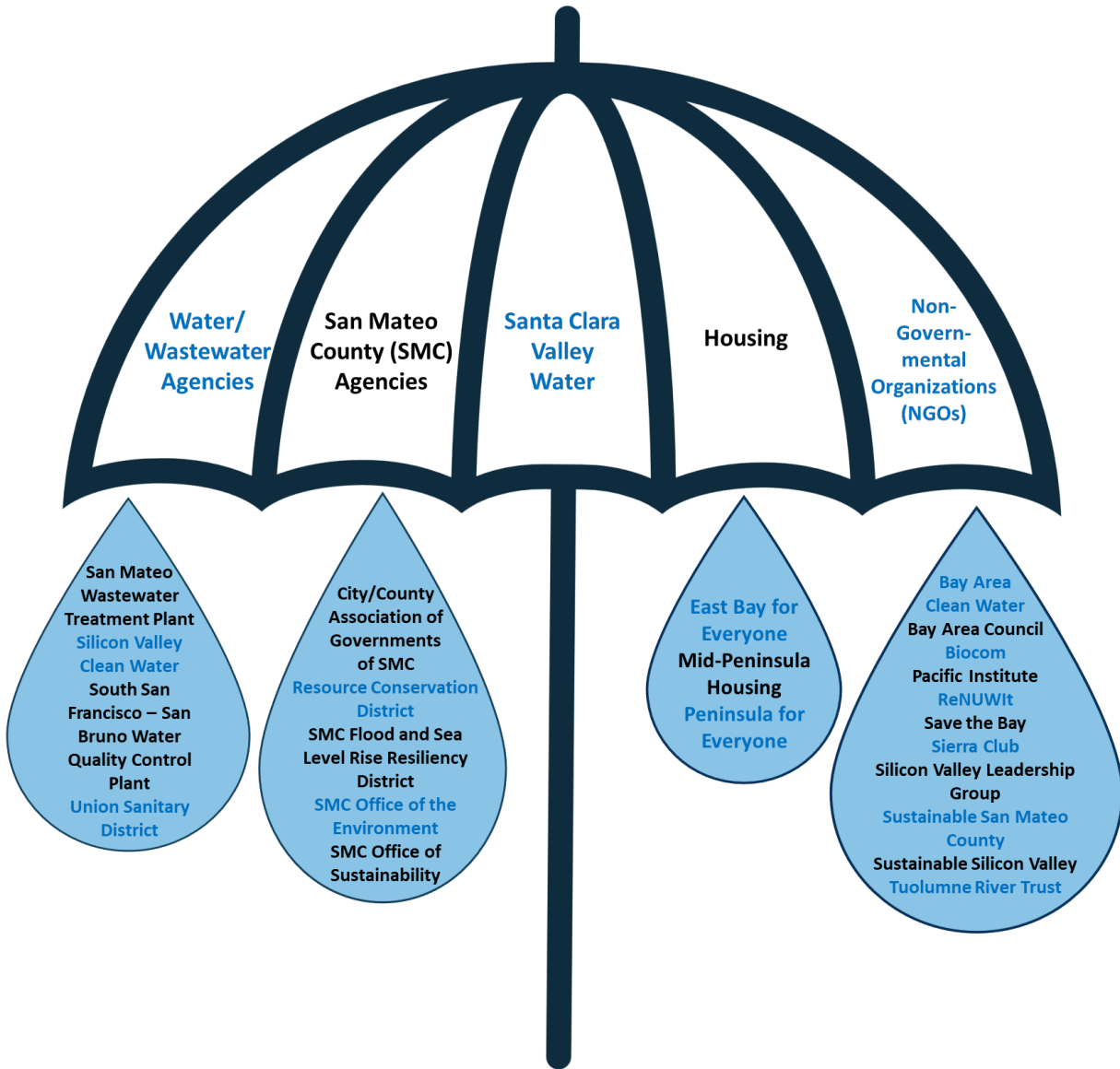


Legend

- | | |
|---|--------------------------------------|
| 1 Alameda County Water District | 13 Mid-Peninsula Water District |
| 2 City of Brisbane | 14 City of Millbrae |
| 3 City of Burlingame | 15 City of Milpitas |
| 4a CWS – Bear Gulch | 16 City of Mountain View |
| 4b CWS – Mid-Peninsula | 17 North Coast County Water District |
| 4c CWS – South San Francisco | 18 City of Palo Alto |
| 5 Coastside County Water District | 19 Purissima Hills Water District |
| 6 City of Daly City | 20 City of Redwood City |
| 7 City of East Palo Alto | 21 City of San Bruno |
| 8 Estero Municipal Improvement District | 22 San Jose Municipal Water System |
| 9 Guadalupe Valley MID | 23 City of Santa Clara |
| 10 City of Hayward | 24 Stanford University |
| 11 Town of Hillsborough | 25 City of Sunnyvale |
| 12 City of Menlo Park | 26 Westborough Water District |

Sources: BAWSCA, San Mateo County General Plan

In addition to the member agencies, 19 additional agencies and organizations were invited to the Roundtable Series to offer their perspectives in these discussions. The organizations invited are listed below. Out of the 19 non-member agencies invited to participate, five attended at least one workshop.



3 ROUNDTABLE SERIES WORKSHOP #1: DEMYSTIFYING THE ONE WATER CONCEPT

The first Roundtable Series workshop “Demystifying the One Water Concept” took place virtually on May 24, 2022. The focus of the workshop was to achieve a common understanding of the definition, benefits, and interconnections of the One Water concept and explore how it could be applied to the BAWSCA region.

According to the Water Research Foundation’s 2017 Blueprint for One Water Project¹, One Water is defined as “an integrated planning and implementation approach to managing finite water resources for long-term resilience and reliability, meeting both community and ecosystem needs.”

In other words, One Water is a planning strategy that considers the “whole picture,” meaning the full water cycle and all the beneficial users of the resource. The One Water concept intends to break down barriers between different agencies / water users to see if there is a more optimal approach to handling and utilizing water resources and doing so with partnerships and collaborations between agencies and other stakeholder entities like the ones presented in the Roundtable Series.

3.1 Interactive Poll #1

The interpretations of the One Water concept are wide and diverse, so participants at the first Roundtable Series meeting were asked to “Define One Water planning” to gauge the general understanding of the concept. On the following page are some of their responses summarized in the color gradient boxes along with a word cloud image, in which the size of the word correlates to the frequency in which it appeared in the responses.

Common themes from the participants responses included:

- Collaboration to address water issues and achieve solutions.
- Comprehensive plans for management of all water types.
- Sustainable approach to beneficial management of water supply sources.
- Considering the intersectionality of different water types, end uses, and the community.
- Valuing all water types (wastewater, stormwater, recycled water, groundwater, runoff, freshwater) and viewing them collectively.

¹ <https://www.waterrf.org/research/projects/blueprint-one-water>

3.3 Guest Speakers

As part of the Roundtable Series, guest speakers were invited to share their own perspectives on the One Water concept and to showcase these perspectives with case studies and current projects. The first speaker, Inge Wiersema from Carollo Engineers, presented on the One Water Los Angeles (LA) 2040 Plan. The second guest speaker, Lisa Bilir from the City of Palo Alto (Palo Alto), presented on the efforts that Palo Alto is undertaking to develop and implement a One Water Plan and the associated project portfolio to meet future water supply needs of the City.

- **One Water LA 2040 Plan, presented by Inge Wiersema of Carollo Engineers:** Wiersema discussed the importance of collaboration and communication for the success of both near- and long-term One Water projects. A near-term project Wiersema discussed, titled the LA Zoo Master Plan, is an inter-departmental collaborative effort between the LA Zoo, LA Sanitation & Environment (LASAN), and LA Department of Water and Power (LADWP). This effort consists of an integrated water management plan that uses recycled water for irrigation and animal exhibits, stormwater capture in the parking lot and throughout the zoo, and water conservation with drought tolerant landscaping and high efficiency fixtures. This project demonstrates how entities who may not necessarily be responsible for water supply, such as the LA Zoo, can collaborate with multiple other agencies to create a project that benefits all parties involved.

Wiersema also discussed LA's long-term One Water project, the One Water LA 2040 Plan. One of the purposes of the project was to decide on the best course of action and long-term One Water project to increase LA's local water supply. To accomplish this task, 27 One Water opportunities were evaluated and scored by City of LA staff and technical advisors. Stakeholders were also actively engaged to weigh in on the evaluation criteria and weighting factors to determine which concepts to move forward with. In the end, six long-term concepts were selected that would best meet LA's goals and benefit as many stakeholders as possible.

One of the main reasons for the success in this process was the constant stakeholder engagement. Multi-level institutional and stakeholder collaboration included a steering committee, a strategic planning group, special topic groups, stakeholder workshops, focused meetings, and an advisory group to achieve active and engaged stakeholder involvement. There was also cross-sector collaboration that involved 14 city departments and six regional agencies. All in all, over 500 stakeholders and over 200 organizations took part in this multiple year effort to determine which long-term integration opportunities would best suit LA's collective water goals and needs and be included in the One Water LA 2040 Plan.

- **Palo Alto's One Water Plan, presented by Lisa Bilir of the City of Palo Alto:** Bilir described Palo Alto's One Water Plan as an adaptable roadmap for implementing prioritized water supply and conservation portfolio alternatives with a planning horizon of 20-years. Bilir discussed three projects that are being considered as part of the Palo Alto's One Water Plan.

The first project, titled the Northwest County Recycled Water Strategic Plan, was a study in partnership with Santa Clara Valley Water District (Valley Water) that investigated how to best expand the Regional Water Quality Control Plant's (RWQCP's) Recycled Water Program. The study developed and evaluated a series of potable and non-potable water reuse opportunities throughout the RWQCP service area through the 2030 planning horizon.

The second project was Palo Alto's Green Stormwater Infrastructure (GSI) Plan. This plan described how Palo Alto could gradually integrate GSI features into the city and how GSI could slow down and clean stormwater runoff.

Lastly, Bilir discussed an update to Palo Alto's Demand Management and Conservation Program. In partnership with Valley Water, Palo Alto developed conservation measures in an effort to reduce demand and conserve water in the city.

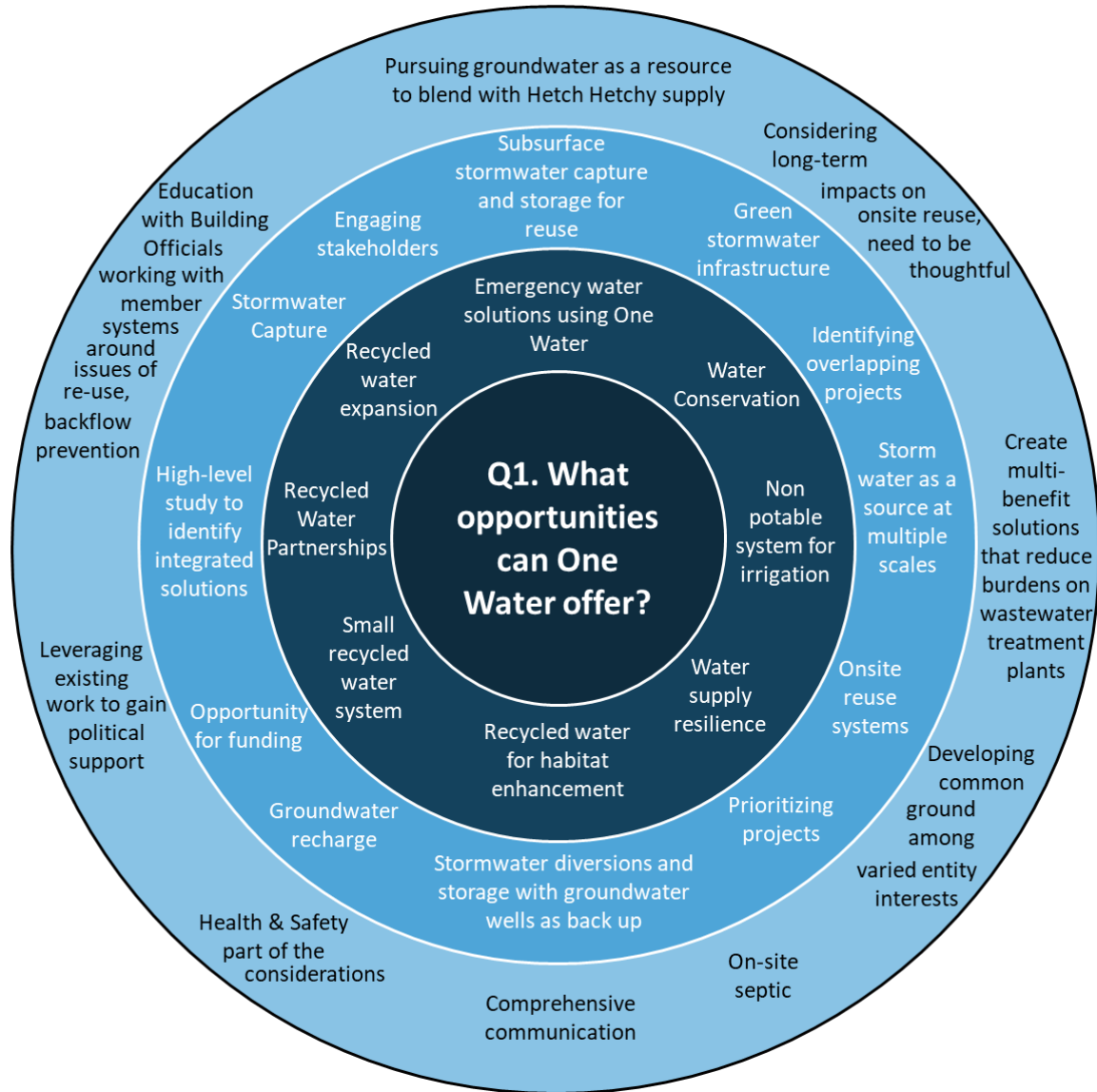
The next steps for Palo Alto's One Water Plan, which is anticipated to be completed by the end of 2023, include developing evaluation criteria for assessing water supply and conservation portfolio alternatives, such as the projects mentioned above, developing and evaluating future water supply and conservation portfolio alternatives, and gathering and utilizing stakeholder input.

3.4 Breakout Discussions

After the guest speaker presentations, participants were divided into four breakout rooms where they introduced themselves and their organization and discussed three questions posed:

- What opportunities can One Water offer?
- What are some obstacles to One Water planning and what can be done to overcome these obstacles?
- If there were absolutely no barriers, what One Water projects would you like to see in the Bay Area?

The answers from the breakout rooms for each question are summarized in the following pages.



When asked what opportunities One Water can offer, participants responded with some common themes such as:

- Water supply resilience.
- Recycled water partnerships and expansions.
- Groundwater resources and how to protect them.
- Stormwater capture for reuse or groundwater recharge.
- New partnerships, stakeholder engagement, and greater collaboration among different entities.
- Expanded education and communication.
- Integrated solutions.



From the responses, some of the most prominent reasons why participants are hesitant to implement One Water planning are due to jurisdictional, institutional, or regulatory boundaries, interagency collaboration, and resource and knowledge gaps.



This question was simply to gauge what type of projects participants would ultimately like to see if the obstacles mentioned in the previous breakout room question were easily overcome. Some common responses include onsite, direct, and indirect potable and non-potable reuse, desalination, and developing diversified water supplies.

4 ROUNDTABLE SERIES WORKSHOP #2: REGIONAL PARTNERSHIPS MEAN REGIONAL FUNDING

The second Roundtable Series workshop titled “Regional Partnerships Mean Regional Funding” was conducted virtually on June 28, 2022. The purpose of this workshop was to: (1) demonstrate how regional partnerships could be leveraged to secure regional funding and other collaborative opportunities and (2) explore how other agencies accomplish regional funding and the type of work and collaboration necessary to achieve it.

4.1 Overview of BAWSCA Funding

Workshop #2 started with a BAWSCA presentation on the background of how the agency receives its funding and its role in helping its member agencies receive funding.

BAWSCA’s primary source of funding to pay the agency’s operating expenses is through imposing assessments proportional to member agencies’ water delivery amounts. Additionally, individual water supply contracts between San Francisco and the member agencies provides two other potential funding sources for BAWSCA.

The first potential source of funding is from the use of excess funds from the WSA Balancing Account. The Balancing Account records the difference between the actual SFPUC costs attributable to the member agencies and the amount billed to the member agencies in each year. When there is a positive balance for three consecutive years and it represents 10% or more of the wholesale revenue requirement for the most recent fiscal year, those excess funds can be used for the member agencies’ preferred application, including water conservation or supply projects administered by or through BAWSCA.

Another potential source of funding is from a Water Management Charge. A Water Management Charge is a special assessment on member agencies to collect funding for a specific project or program with regional benefits. To date, this funding source has been utilized by BAWSCA once to fund its 2015 Long Term Reliable Water Supply Strategy (2015 Strategy).

There are also other outside funding and financing opportunities available to BAWSCA and its member agencies such as local funding and financing opportunities and state and federal grants and loans.

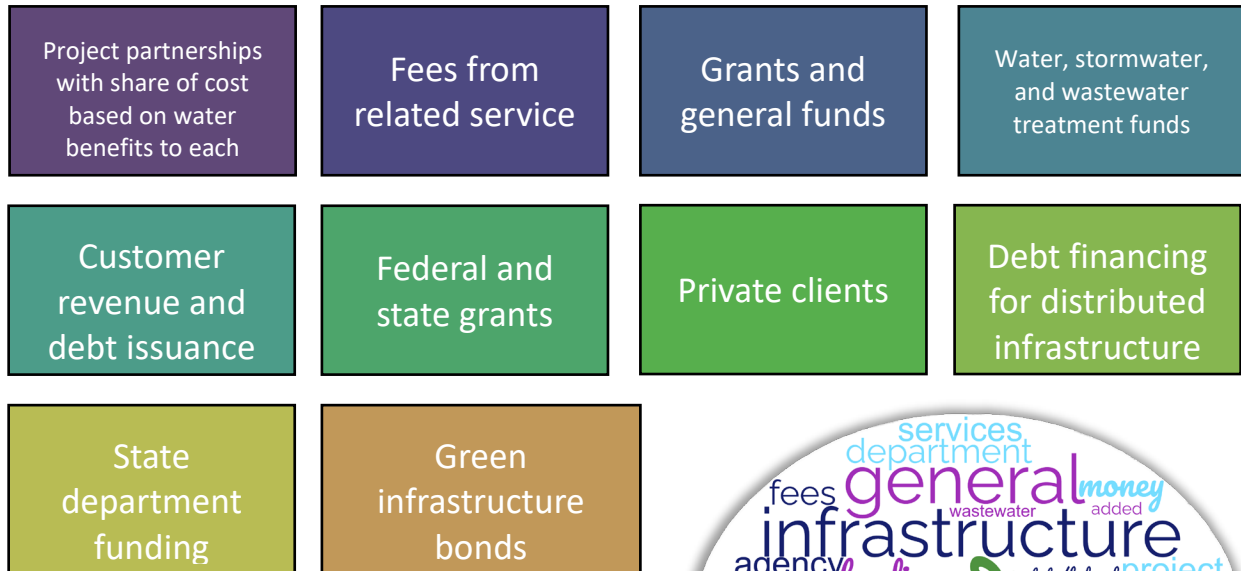
4.2 Project Information Form Overview

In preparation for the third workshop, which is discussed in more detail in Sections 5 and 6, EKI presented on the components and purpose of the Project Information Forms (PIFs). The PIFs were designed to collect information from all member agencies and Roundtable Series participants regarding what types of water supply projects are being planned, in-progress, or at a conceptual level within each agency. The purpose of gathering this information was for BAWSCA, its member agencies, and Roundtable Series participants to be aware of other projects happening in the Bay Area, and to identify opportunities for collaboration.

EKI introduced and explained each section of the PIF and encouraged the Roundtable Series participants to complete them. EKI and BAWSCA then followed up with one-on-one conversation with each entity to support completion of the PIFs.

4.3 Interactive Poll #1

After detailing how BAWSCA secures its funding and helps its member agencies secure funding, BAWSCA asked the participants of the Roundtable Series to answer the question “What funding sources/models has your organization used to develop One Water projects?” The responses are listed below with the corresponding word cloud image.



Common themes from the participants’ responses include grants and general funds from the state and federal government and debt financing.

4.4 Guest Speakers

The first speaker of this second Roundtable Series workshop, Heather Dyer from the San Bernadino Valley Municipal Water District (SBVMWD), presented on the collaborations and funding strategies used at SBVMWD to achieve a reliable water supply. The second presenter, Reid Bogert from the City/County Association of Government of San Mateo County (C/CAG), spoke on the future funding and financing options for San Mateo County’s (SMC’s) countywide GSI investments.

- **Maximizing Water Resources Through Collaborative Opportunities, Partnerships, and Funding, presented by Heather Dyer of SBVMWD:** SBVMWD’s water supply is mostly groundwater, so to ensure a reliable water supply portfolio there is a need to diversify the local supply when purchased water is not as reliable. To do this, SBVMWD is undergoing collaborations to help

achieve a reliable water supply portfolio for the agency. Dyer discussed one such collaboration, the Local Resources Investment Program (LRIP), in further detail.

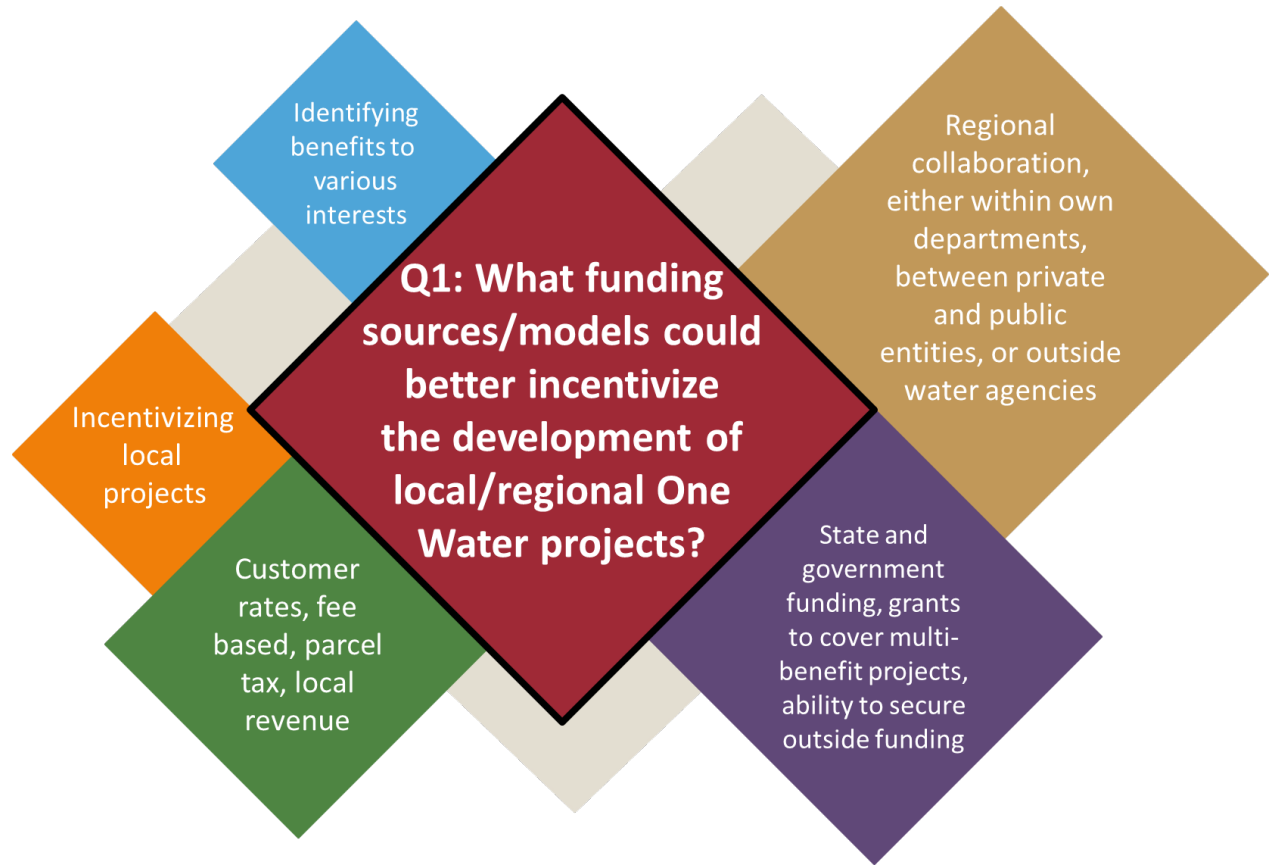
The LRIP provides a financial incentive to retailers in SBVMWD's service area for implementation of projects that provide a new source of supplemental water to the area, such as recycled water or stormwater capture projects. One such project, the East Valley Water District's Sterling Natural Resources Center Project, produces up to 11,000 acre-feet per year (AFY) of recycled water. The demand management (e.g., financial) incentive for this project is that SBVMWD will pay \$173 for each acre-foot (AF) of water not taken out of the groundwater basin or each AF of recycled water that recharges the groundwater basin, i.e. \$173/AF of water saved. This investment program makes economic sense for SBVMWD as the agency ultimately pays less to invest in these local projects than it would to purchase additional water supplies. The LRIP provides an incentive for retailers to advance projects that benefit the SBVMWD service area by increasing local (and therefore regional) water supply reliability.

SBVMWD is also exploring future collaborations to further the agency's efforts towards a reliable water supply portfolio. The agency is collaborating with Watershed Connect, a regional infrastructure program and network of future water infrastructure projects worth around \$600 million and designed to achieve water supply reliability. This multi-phase program includes water capture, recharge, storage, treatment, and conveyance projects. Watershed Connect will collectively maximize the use and reuse of local water resources to offer synergistic benefits, such as climate resilience, drought resilience, improved water quality, enhanced infrastructure, and long-term ecological health.

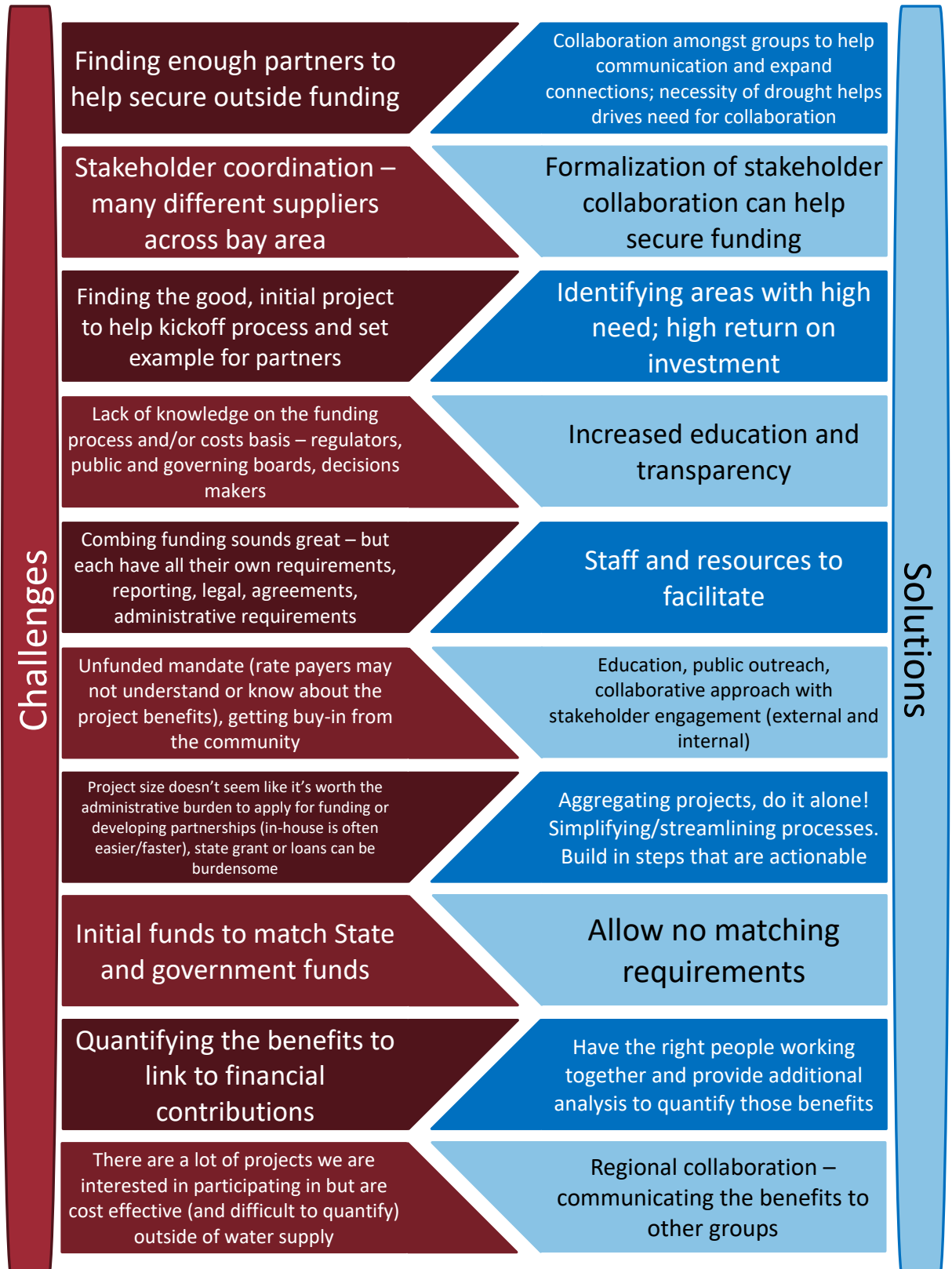
- **Advancing Regional-Scale Stormwater Management in SMC, presented by Reid Bogert of C/CAG:** C/CAG identified the need to upgrade SMC's stormwater management system. The six main drivers and objectives for advancing regional-scale stormwater management in the county include limited resources, existing stormwater infrastructure deficiencies, water quality improvement, climate resiliency, beneficial use of stormwater, and equity and community engagement.

C/CAG went through an identification process for recognizing potential regional stormwater projects throughout SMC. Once projects were identified as having the potential to perform and succeed, C/CAG had to determine how to fund these projects. One such funding route included developing a stormwater credit trading feasibility analysis. The feasibility analysis evaluated the potential demand and supply for GSI projects. The demand would include new developments that may have site constraints that make on-site stormwater controls infeasible or expensive; therefore, purchasing credits could prove to be a less expensive option for meeting stormwater management compliance. The supply would come from non-residential sites with some amount of pervious area or space for green infrastructure with co-benefits such as non-regional project drainage, good soil drainage, flood prone areas, and potential for groundwater recharge, among others.

C/CAG also evaluated other innovative approaches to funding and financing stormwater infrastructure projects, such as a non-balloted stormwater fee, which is a property-related fee to fund capital improvement and ongoing operations and maintenance (O&M). Another approach to funding is establishing an enhanced infrastructure multi-jurisdictional district that captures property tax increment revenues within the district. C/CAG found that approximately \$61 million could be generated for SMC over the next 20 years based on a 1% tax increment. Water and wastewater rates can also be a co-funding source for multi-benefit GSI projects that could provide



Q2: What are some challenges to securing funding for One Water projects and what can be done to overcome these obstacles?



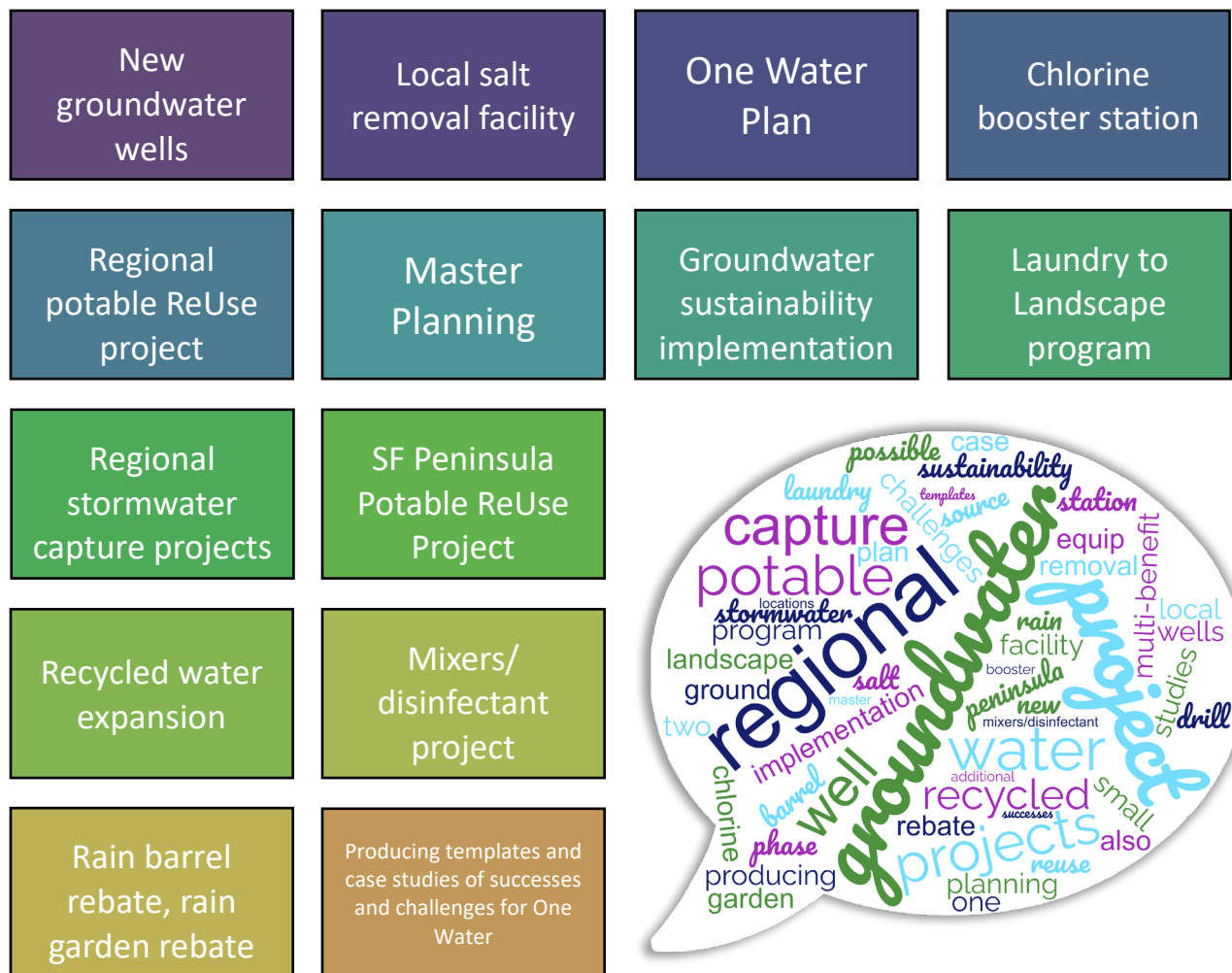


5 ROUNDTABLE SERIES WORKSHOP #3: IDENTIFYING LOCAL “ONE WATER” PROJECTS

The third workshop titled “Identifying Local One Water Projects” was held on November 8, 2022. During this workshop, results and analysis from the Project Information Forms were presented to the Roundtable Series participants. Current and upcoming funding opportunities applicable to member agencies were also presented along with a guest speaker detailing their One Water supply project.

5.1 Interactive Poll #1

BAWSCA started off Workshop #3 by recapping the purposes and discussions from the previous two workshops and posing the first interactive poll: “What One Water project did you submit with the Project Information Form?” The responses and corresponding word cloud to this question are illustrated below.



5.2 Summary of Project Information Forms

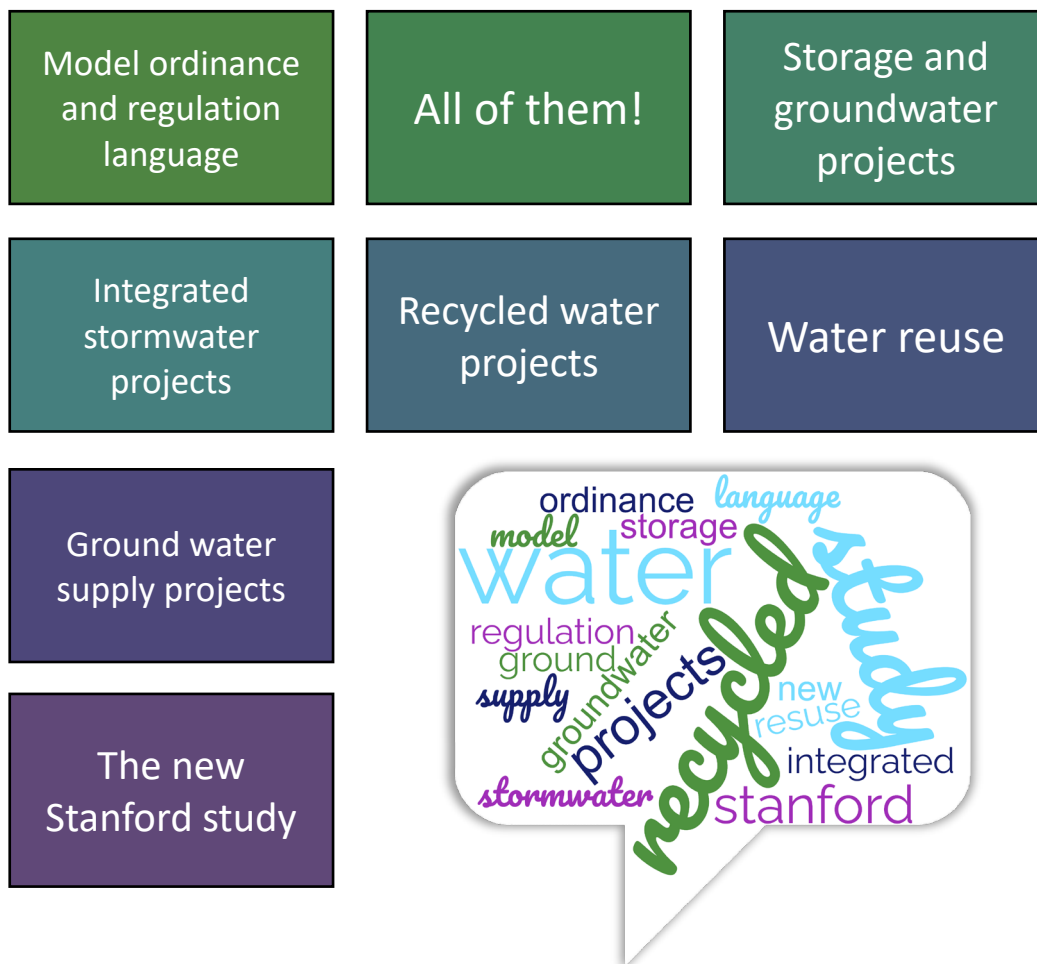
As previously discussed, the PIFs were used to document the local and/or regional One Water projects/programs that are currently in planning or in development and support identification of potential

opportunities to support or expand implementation. Information from the PIFs was also used to quantify the collective water supply benefits.

At the time of Workshop #3, not all of the member agencies had submitted a PIF, but EKI provided an update on the number and type of local agency projects and their anticipated yield (final results are presented in Section 6.4 and **Attachment C**).

5.3 Interactive Poll #2

After hearing about the other projects being planned throughout the region, participants were asked “What One Water project are you most excited to learn about?” to gauge what projects seemed interesting to the group as a whole. The responses to that question are shown below.



5.4 Inventory of Grant/Funding Opportunities for One Water Projects

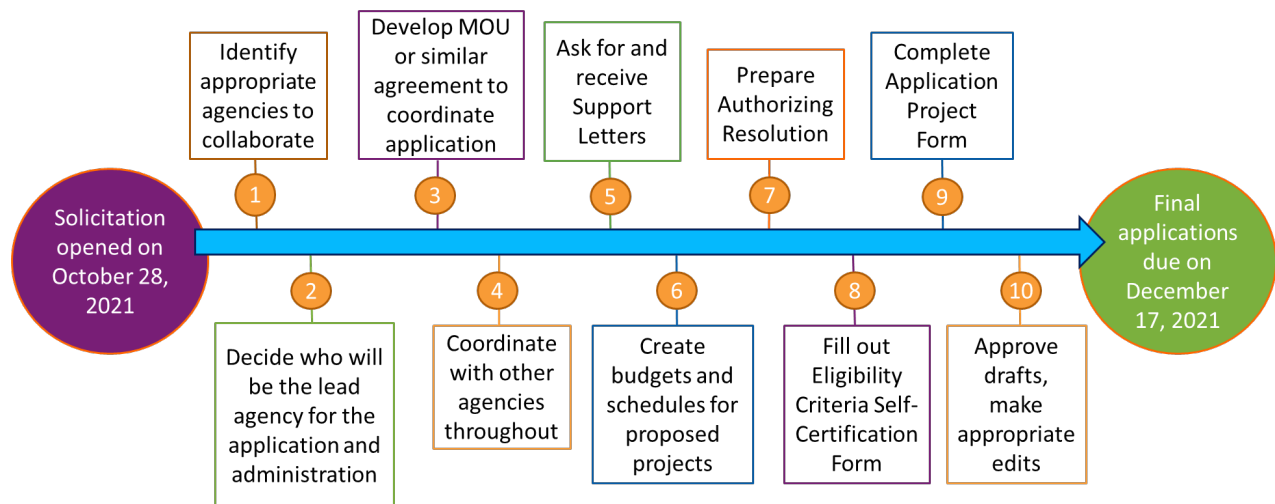
The Roundtable Series Workshop #2 revealed that participants view securing funding as one of the biggest challenges for implementing One Water projects. Part of successfully securing funding is being aware of the current and upcoming opportunities and having the staff or consultant resources within or available to the agency to respond quickly and effectively to solicitations.

EKI presented on both current and upcoming funding opportunities from the California Department of Water Resources (DWR), United States Environmental Protection Agency (EPA), United States Bureau of

Reclamation (USBR), and the California State Water Resources Control Board (SWRCB) that were timely and pertinent to One Water projects in the BAWSCA region. Tables summarizing these funding opportunities can be found in **Attachment D**.

A case study on DWR’s 2021 Urban and Multibenefit Drought Relief Grant Program (DWR Grant Program) was presented by EKI to demonstrate how responsiveness and collaboration are essential to successfully securing a grant. Several BAWSCA agencies jointly submitted an application for the DWR Grant Program as it was not only more cost effective to apply as a group, but it also gave the opportunity to exhibit how their projects and programs collectively support the diversification of the supply portfolios of the agencies and increase of local and regional resiliency of their supplies in the face of drought.

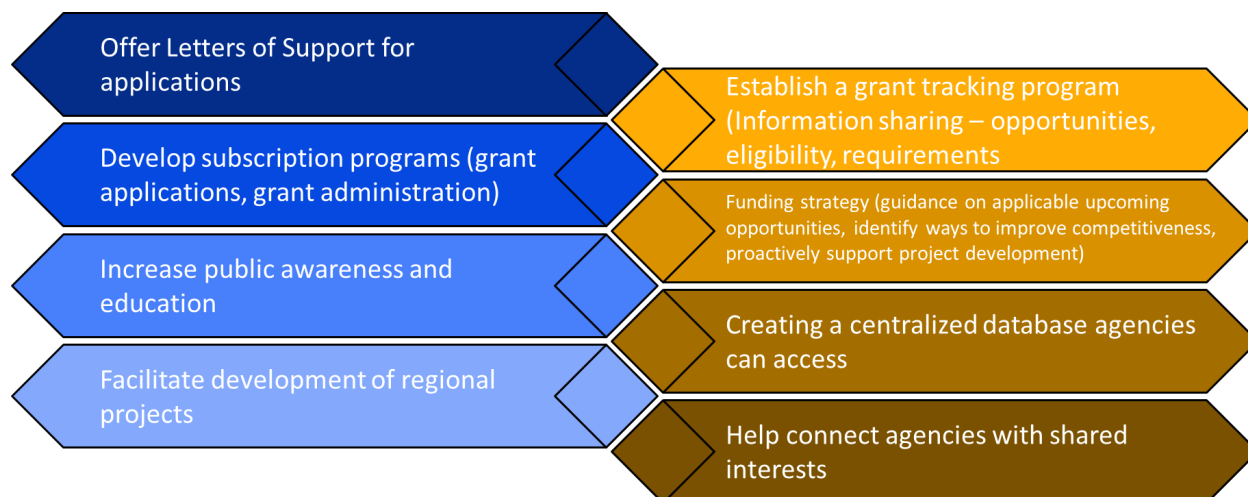
The time between the DWR Grant Program announcement and submission was a mere seven-week period, and the five agencies partnered in this application (North Coast County Water District [NCCWD], Mid-Peninsula Water District [MPWD], Purissima Hills Water District [PHWD], City of Brisbane, and City of East Palo Alto) had to coordinate swiftly and effectively. The steps that had to be taken for a successful DWR Grant Program application are shown below.



In the end, NCCWD was awarded \$6.6 million from the DWR Grant Program to develop a local groundwater supply project intended to diversify the district’s water portfolio so it would not be 100% reliant on supplies from the SFPUC RWS.

This case study demonstrated that collaborative efforts between project sponsors and agencies like BAWSCA can be successful in securing project funding.

A list of potential ways BAWSCA can help its member agencies receive funding was also presented - a majority of the ideas were suggestions from One Water participants during Workshop #2.



5.5 Guest Speaker

The guest speaker for Workshop #3, Manisha Kothari from SFPUC, presented on potable reuse projects that the agency is currently exploring, including the benefits, challenges, and feasibility of potable reuse to increase water supply reliability in the RWS.

- Purified Water Planning in SFPUC’s Service Area, presented by Manisha Kothari of SFPUC:** SFPUC is currently working to understand how purified water could work within the RWS and how it can be used in future dry years for SFPUC to achieve a sustainable supply. The agency has been looking into both indirect potable reuse (IPR) and direct potable reuse (DPR) and has a few projects planned. However, there are some associated overarching factors that need to be explored for these projects to be successfully implemented.

First is public acceptance and SFPUC’s need to demonstrate the safety of the projects to gain public trust. Second are the treatment needs necessary depending on the feed quality of the water, the receiving water needs, the anticipated discharge requirements, and what to do with the concentrated brine. Third, there are operational needs such as the ability to store and deliver water associated with these projects and operational readiness of project personnel to be trained and certified to operate these advanced water treatment operations. Lastly is the issue of cost. These IPR and DPR projects are comparatively more expensive than other water supply options as they are expensive to build, which is why having access to grants and funds mentioned previously in this workshop are imperative for these projects to move forward.

To address some of these concerns, SFPUC has drafted near-, medium-, and long-term goals to sustain engagement with the public. The near-term (less than two years) strategy involves procuring a mobile treatment unit to introduce treatment plant operators to advanced treatment and serves as a vehicle for the SFPUC to outreach to communities directly where they are located. The medium-term (within two to five years) strategy involves a permanent potable reuse feature in the SFPUC headquarters to demonstrate San Francisco’s commitment to reusing water. This permanent feature would allow outreaching to decision makers, public officials, and others who come to the SFPUC headquarters. The long-term (within five to ten years) strategy entails a full-scale demonstration project that is widely accessible to the public. This demonstration project involves building operational capacity, providing training and certification opportunities, building confidence of regulators, and engaging in broad public engagement and education. Overall, for

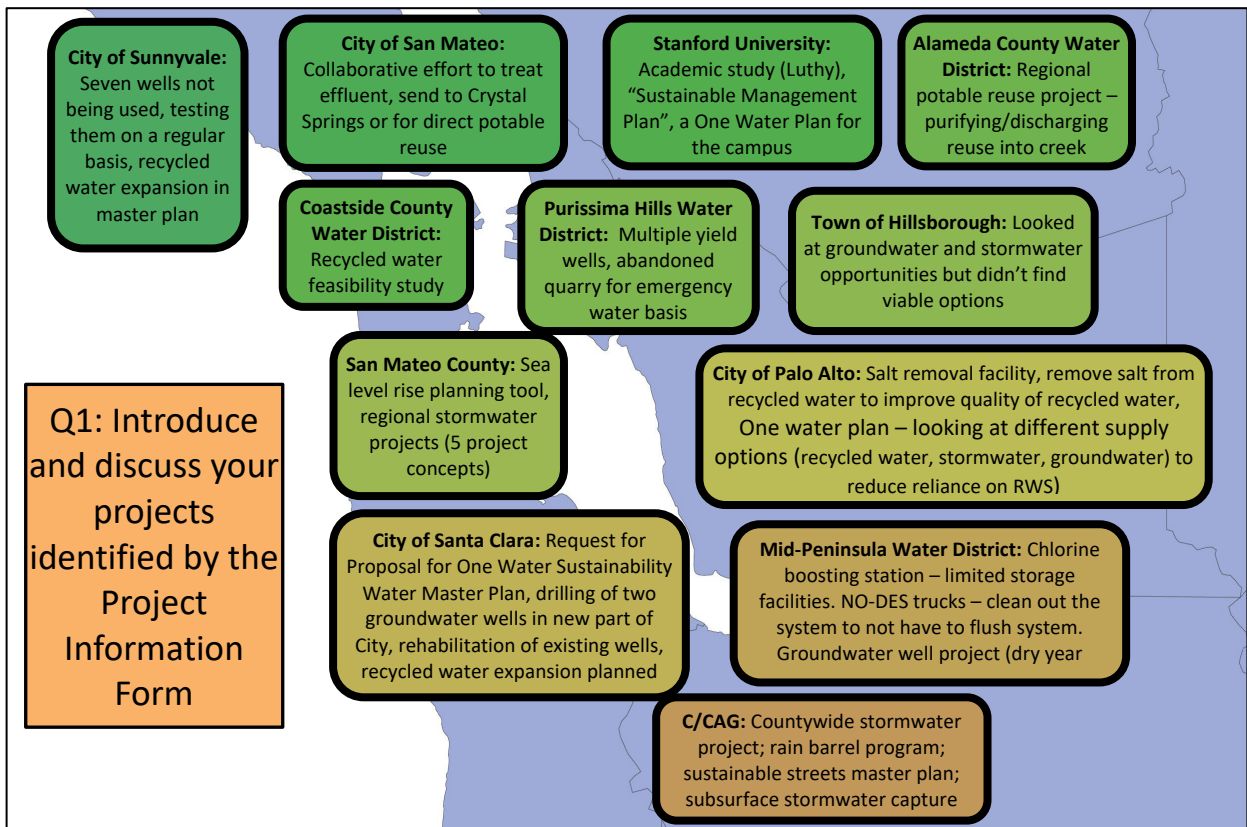
SFPUC’s IPR and DPR projects to be further explored and eventually implemented, there must be continued and ongoing engagement, education, and collaboration with the public.

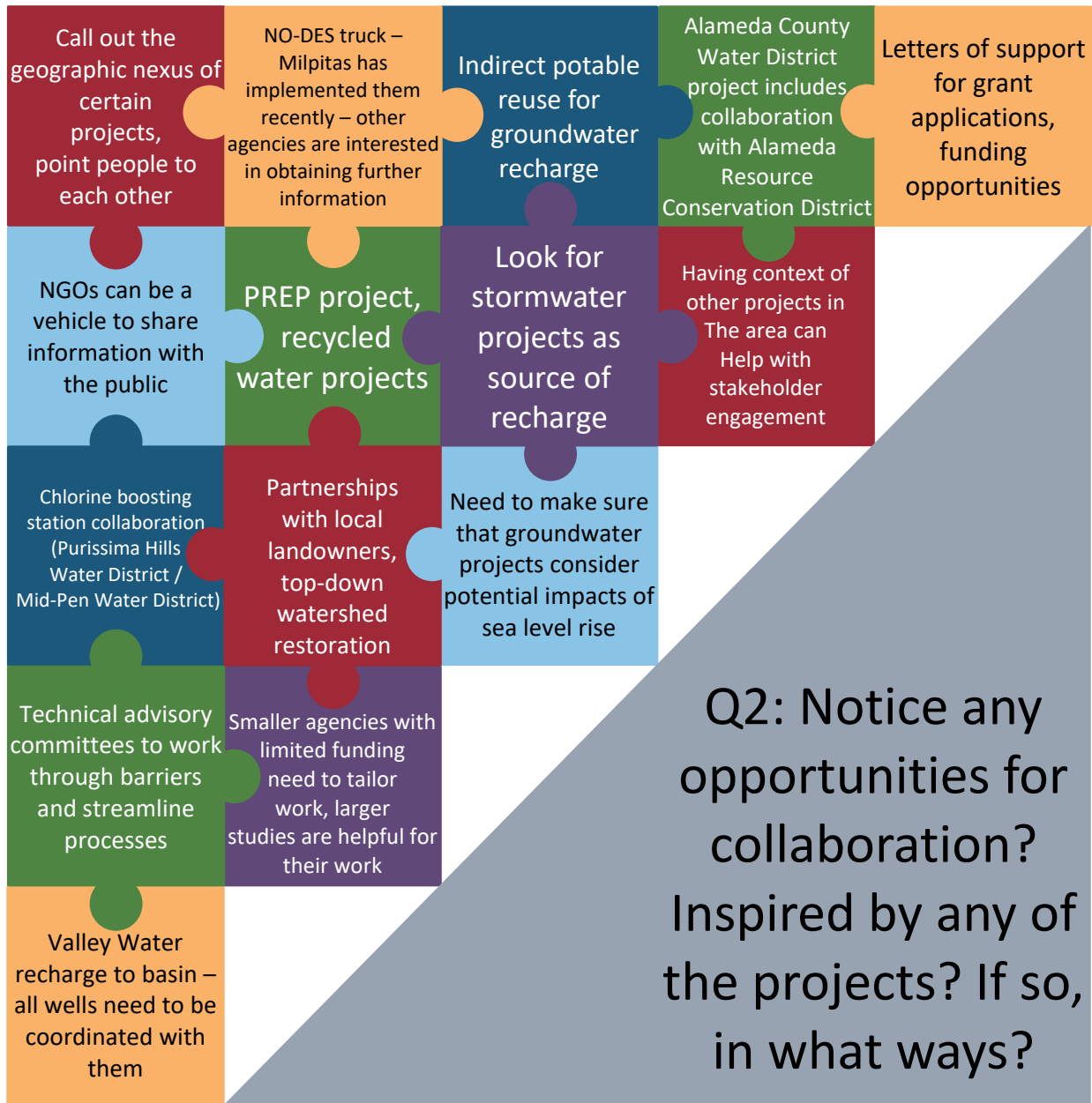
5.6 Breakout Sessions

After the guest presentation, workshop participants were separated into four breakout rooms where the following questions were discussed:

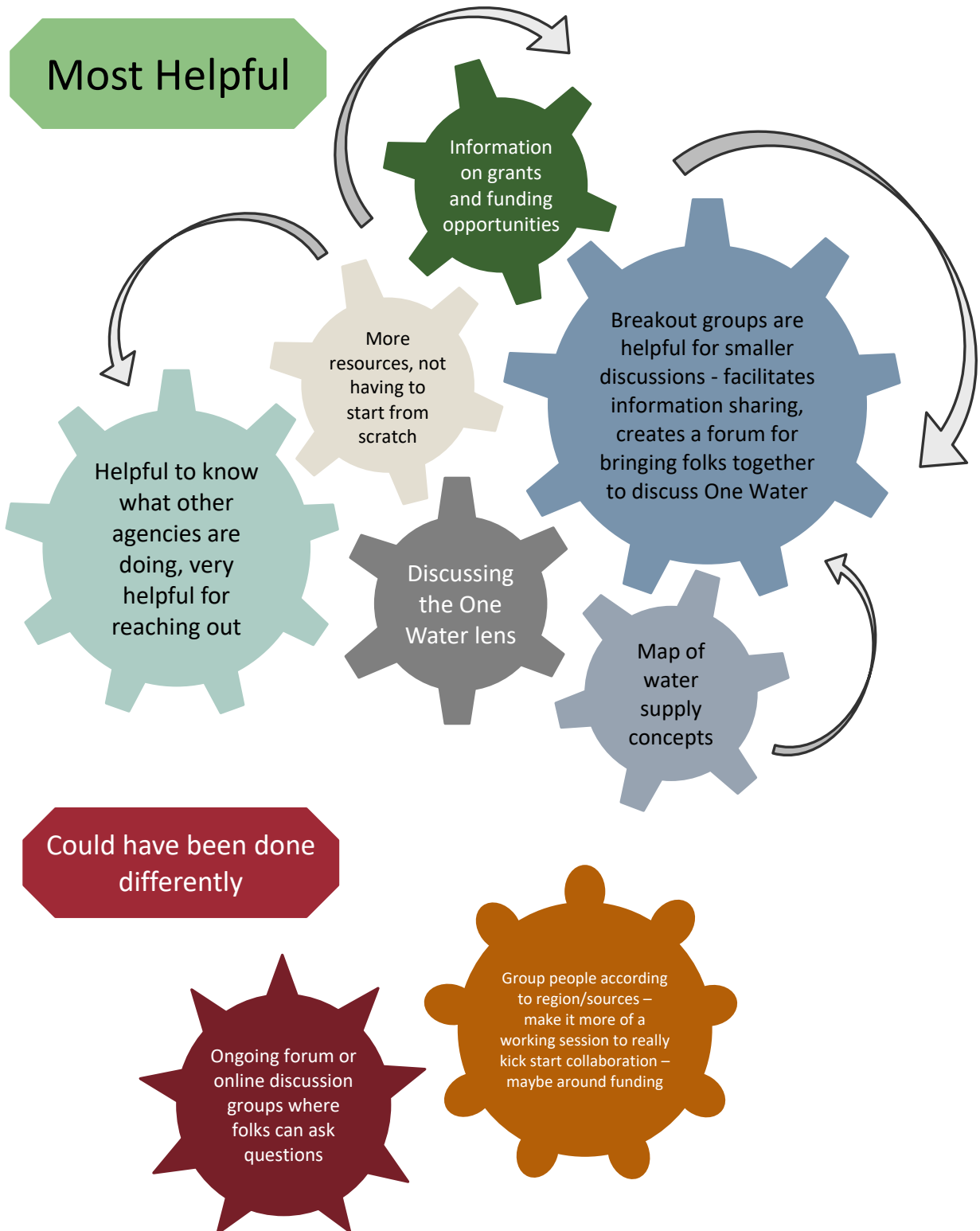
1. Introduce and discuss your projects identified by the Project Information Form.
2. Notice any opportunities for collaboration? Inspired by any of the projects? If so, in what ways?
3. From these past three workshops, what has been most helpful to you and what would you have liked done differently?

The group responses to these questions are illustrated below.





Q3: From these past three workshops, what has been most helpful to you and what would you have liked done differently?

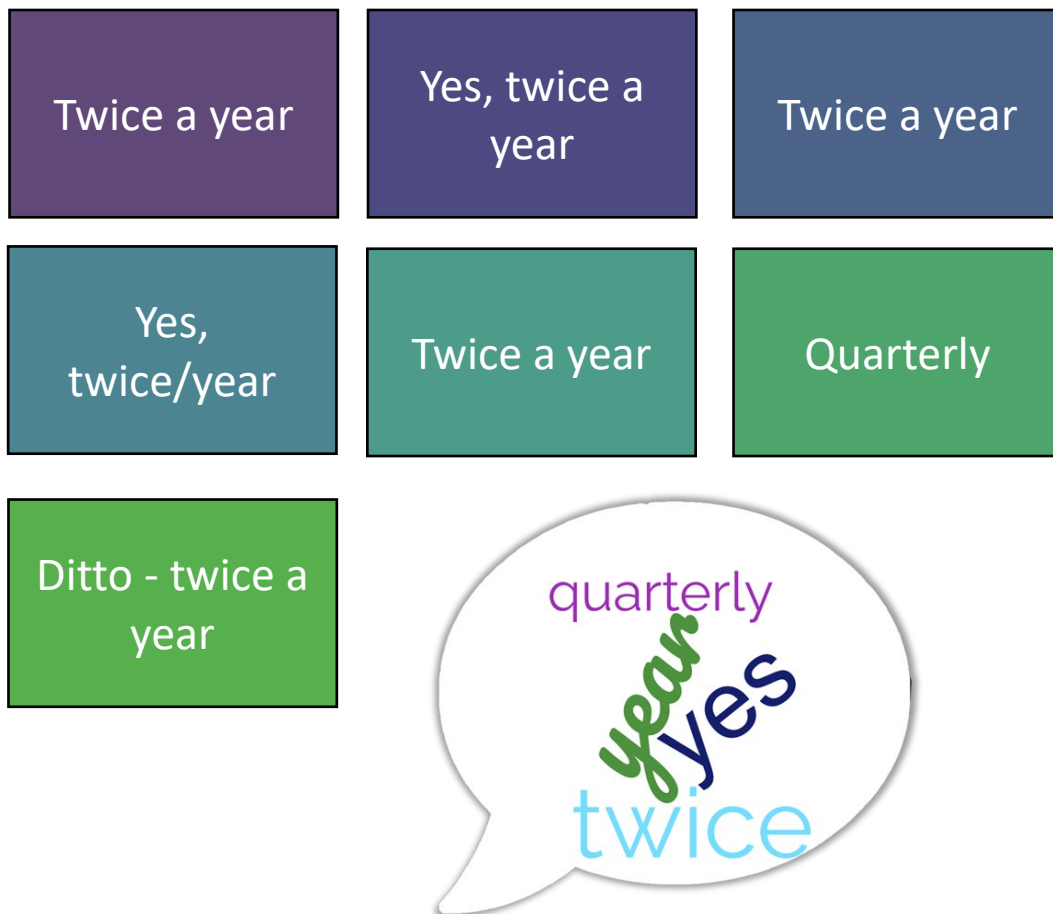


6 ROUNDTABLE SERIES WORKSHOP #4: MOVING FORWARD!

The fourth and final workshop in the Roundtable Series looked back to all the topics and ideas discussed in the previous three workshops and looked ahead to the future of the Roundtable Series. This workshop, titled “Moving Forward!” introduced BAWSCA’s Long-Term Reliable Water Supply Strategy (Strategy) and how the Roundtable Series will be incorporated into updating it, gave participants an update on the PIF work effort and an update on the available funding opportunities, included a guest presentation from the Alameda County Water District (ACWD) on its potable reuse feasibility project, and ended with breakout rooms intended to engage participants and compile ideas for the future of the Roundtable Series.

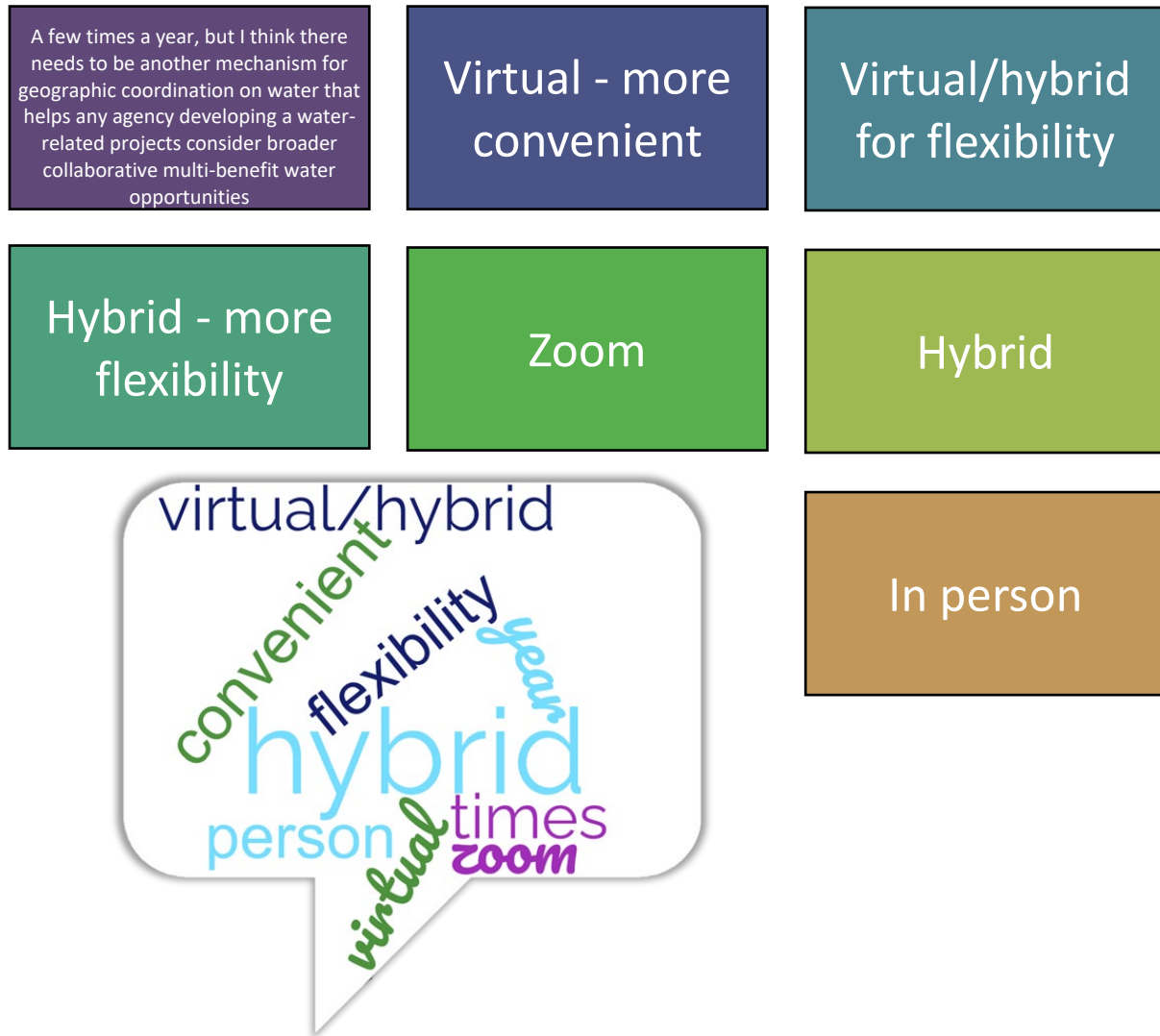
6.1 Interactive Poll #1

The final workshop started with a reiteration of the purposes and goals of the Roundtable Series to refresh participants’ minds. BAWSCA wanted to gauge the consensus on whether the Roundtable Series seemed valuable to the participants and if a continuation of the Roundtable Series would be worthwhile. BAWSCA therefore posed to the participants the first polling question: “Would you like to see more One Water Roundtable Workshops in the future? If so, at what frequency (quarterly, twice a year, etc.)?” The consensus was that participants did wish to see the Roundtable Series continue, mainly on a twice-a-year basis. The full responses can be found below.



6.2 Interactive Poll #2

A second poll question was asked to provide insight into the potential format for the next round of the Series: “For possible future One Water Roundtable Workshops, would you prefer them to be virtual, hybrid, or in-person, and why?” The responses are shown below and mainly favored a hybrid or virtual model.



6.3 BAWSCA’s Long-Term Reliable Water Supply Strategy

BAWSCA gave a presentation on its upcoming Long-Term Reliable Water Supply Strategy. The 2015 Strategy consisted of a five-year effort to identify appropriate water management actions that provide long-term water supply reliability for the region. Work included a comprehensive assessment of the regional water supply reliability needs through 2040 and an evaluation of potential supply projects that could be implemented, ultimately providing a suite of actions to be taken by BAWSCA. These recommended actions included:

- Lead water transfer development and implementation including identifying and evaluating water storage options.

- Facilitate desalination partnerships and pursue outside funding for related studies.
- Support agency-identified projects (i.e., recycled water, groundwater) and local capture and reuse
- Participate in regional planning studies in cooperation with others.
- Continue monitoring regional water supply investments and policies.

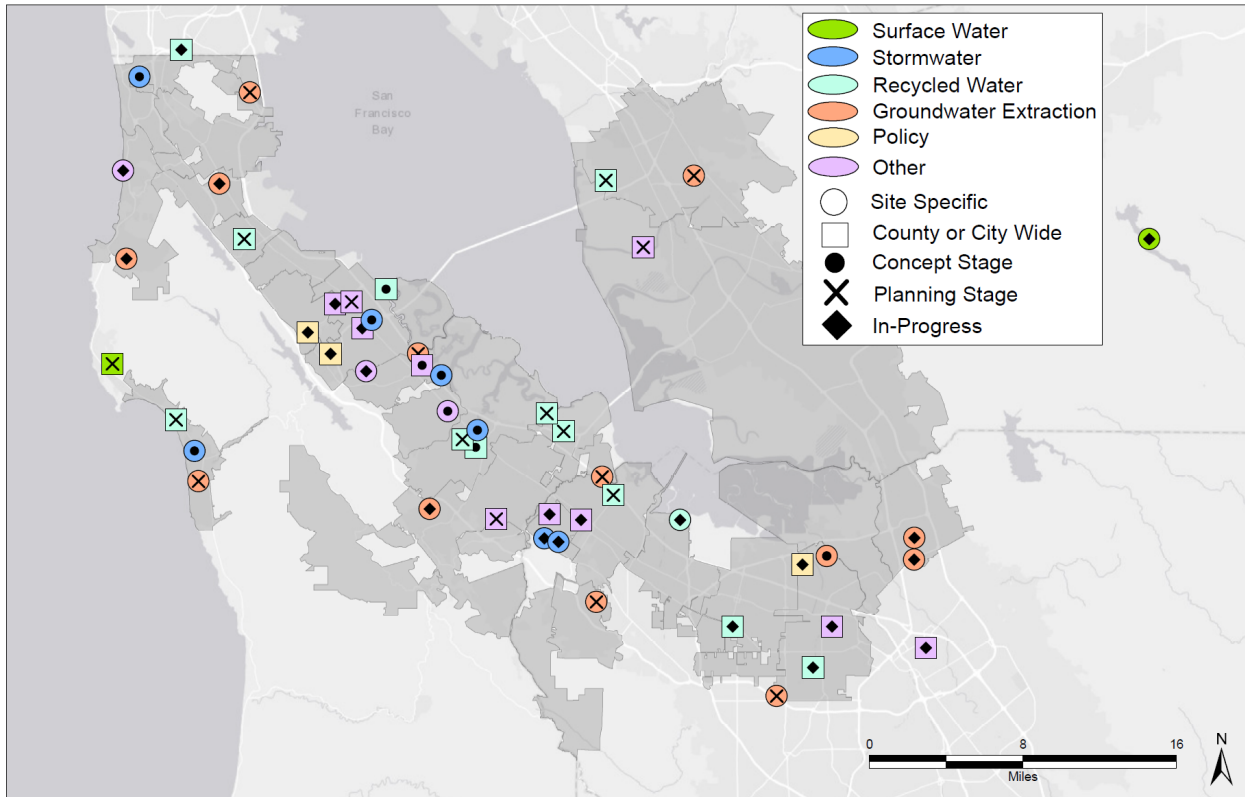
For each recommended action, several work efforts to be performed by BAWSCA were proposed to further 2015 Strategy implementation. Since 2015, BAWSCA’s annual budget and work plan has been aligned with the 2015 Strategy.

Since 2015, several important changes have occurred such that an update to the 2015 Strategy is warranted. Some of the primary changes include: (1) updated water demand studies; (2) updated Urban Water Management Plans (UWMPs); (3) updated Tier 2 Plan for SFPUC RWS supply allocations during water shortages cause by drought; (4) new water supply projects for member agencies have come online, as well as future plans not envisioned in 2015; (5) increased regulatory pressures that could impact existing supply reliability; (6) advancement of large regional supply projects such as the Los Vaqueros Reservoir Expansion Project; and (7) preparation by SFPUC of an Alternative Water Supply Plan which informs BAWSCA and its member agencies of their future supply reliability plans.

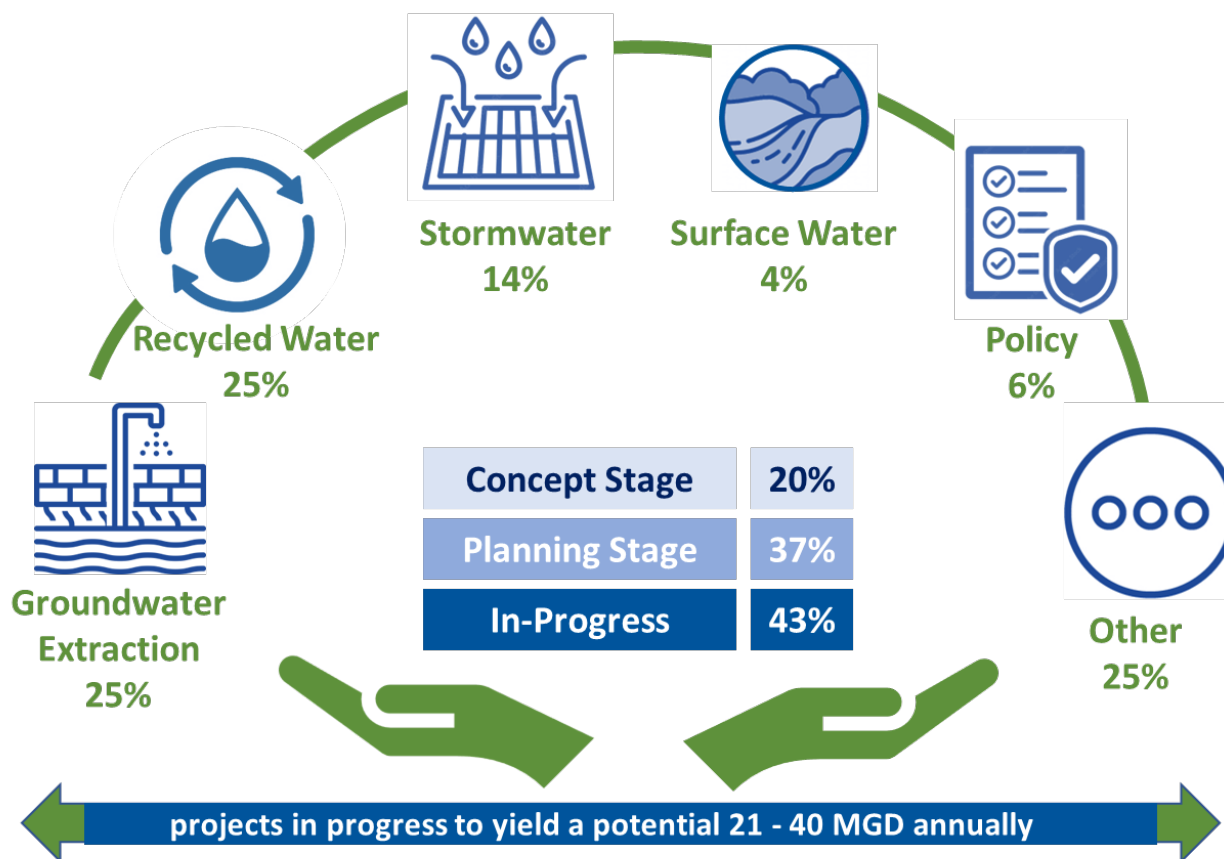
The updated Strategy will include two phases: Phase 1 will consist of scoping for the Strategy update and will include a Request for Proposals for consultant assistance. Scoping of the Strategy is anticipated to begin in spring 2023 and extend into fall of the coming fiscal year (FY). BAWSCA’s current FY budget and proposed FY 2023-24 budget includes funding for the scoping effort. Phase 1 will also include a review of various water supply documents prepared by BAWSCA, member agencies, SFPUC, and others, stakeholder engagement, and technical support. Phase 2 will consist of the Strategy update itself and is anticipated to commence in FY 2023-24 and extend into FY 2024-25. BAWSCA envisions that a stakeholder task force will be needed for the update, and that engagement with the task force and the public at large will likely include workshops and presentations. These workshops and presentations may be held separately or could be conducted as part of future Roundtable Series workshops.

6.4 Updated Project Information Form Summary

EKI gave an update on the status of the Project Information Forms and the grant/funding opportunities previously presented during Workshop #3. As discussed in Section 4.2, the PIFs were designed to collect information from all member agencies and Roundtable Series participants regarding what types of water supply projects are being planned, already in progress, or are at a conceptual level throughout the BAWSCA service area. As of February 2023, a total of 51 projects have been identified that include a broad range of supply projects including recycled water, groundwater extraction, and stormwater, among others. A figure showing the distribution of the location and type of projects is presented below. **Attachment C** includes copies of all PIFs and a summary table of the project information.



The total potential additional yield from all identified projects was estimated to be between 21 and 40 million gallons per day (MGD), the majority of which would be derived from groundwater extraction and recycled water projects. As shown below, approximately 37% of identified projects are in the planning stage, 43% are in-progress, and another 20% are in the conceptual stage.



6.5 Updated Grant/Funding Opportunities for One Water Projects

EKI also provided an update to the grant and funding opportunities information initially provided during Workshop #3. As discussed in Section 5.4, funding opportunities from DWR, EPA, USBR, and SWRCB were discussed and summarized (**Attachment D**). The primary updates and changes to the summary table included new grant programs, removal of outdated programs, and updated solicitation dates for programs that were introduced at the previous workshop but had an unknown application opening date.

6.6 Guest Speaker

Kelsi Oshiro from ACWD presented the results of a feasibility evaluation of a purified water project in collaboration with SFPUC and the Union Sanitary District (USD).

- Purified Water Feasibility Evaluation (PWFE), presented by Kelsi Oshiro of ACWD:** ACWD is in the process of completing a PWFE with the goal to identify recommended purified water alternatives, including a high-level cost estimate, and submit the finished draft report to the USBR Title XVI and eventually submit to the SWRCB Water Recycling Funding Program. Alternatives were evaluated with and without USDs Enhanced Treatment & Site Upgrade (ESTU) program. A draft recommended alternative included a combined IPR/DPR train as Phase 1 and DPR as Phase 2. This recommendation assumed the ETSU program would be complete. The recommended alternative is anticipated to produce about 7,600 AFY of advanced treated purified water for recharge into the Niles Cone groundwater basin via Quarry Lakes. Water would be pumped at ACWD’s existing groundwater facilities and demineralized at a new reverse osmosis

(RO) facility to match Hetch Hetchy water quality. This may provide ACWD an opportunity to increase use of local groundwater supply and decrease imported water from SFPUC to help achieve its hardness goals. Total capital costs ranged from approximately \$369 million to \$517 million for Phase 1 and \$536 million to \$696 million for both Phase 1 and Phase 2.

The PWFE also includes a limnological study to characterize existing Quarry Lakes water quality and the effect of adding purified water. The study suggested that water quality from the advanced water purification facility (AWPF) would improve in Quarry Lakes, and suggested short- and long-term monitoring plans that would help gather additional water quality data for Quarry Lakes, including blue-green algae issues. Next steps include completing a more detailed model, continuing to implement the short-term monitoring plan, and implementation of a long-term monitoring plan.

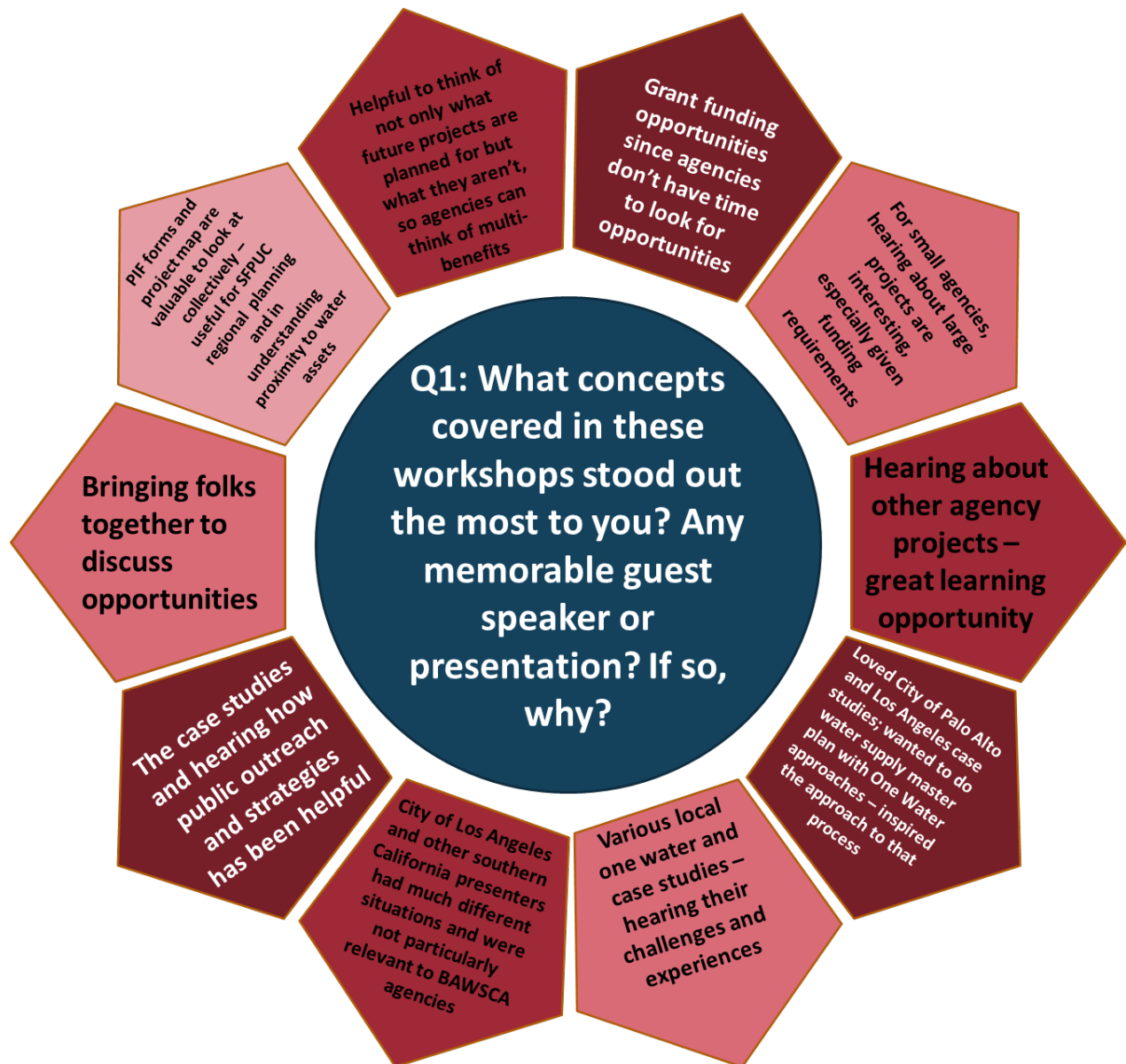
A siting study as part of the PWFE determined that the final location of the AWPF can impact project costs but would not restrict or change the primary project benefit of developing new regional water supplies. The decision to pursue both Phase 1 and Phase 2 of the alternative will be made at a later date by the partner agencies involved and could be impacted by capital and operational costs, available grant and loan funding, and final DPR regulations.

6.7 Breakout Sessions

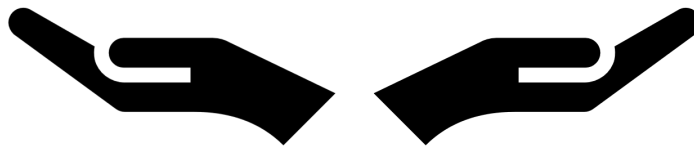
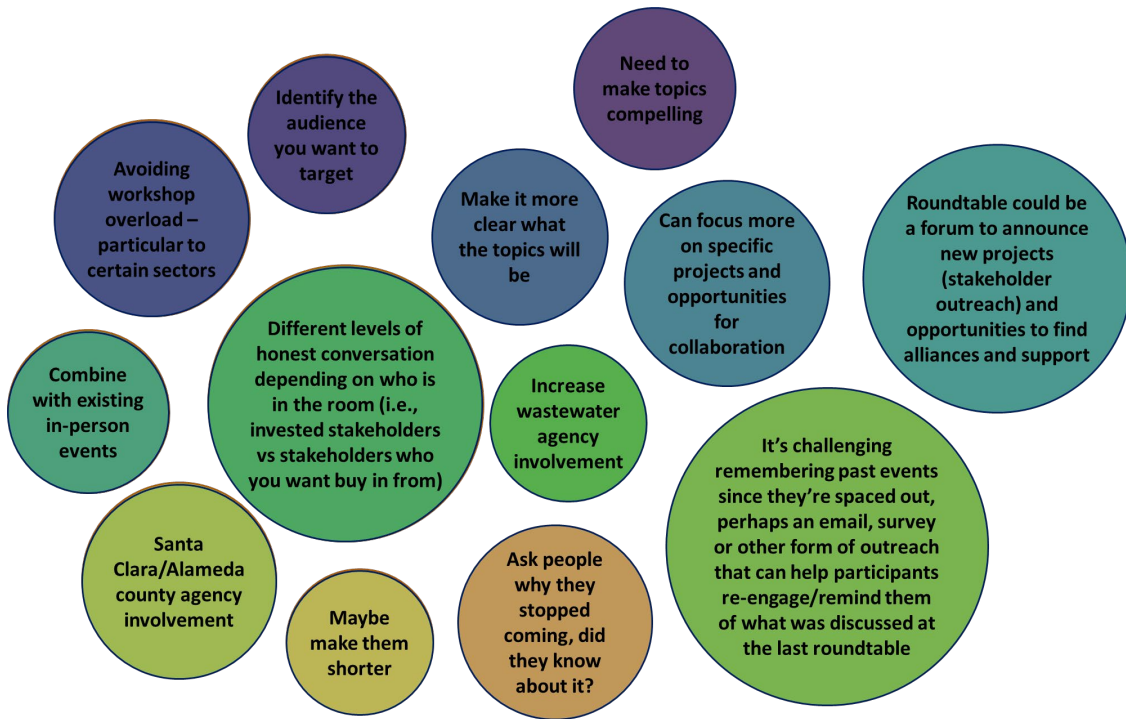
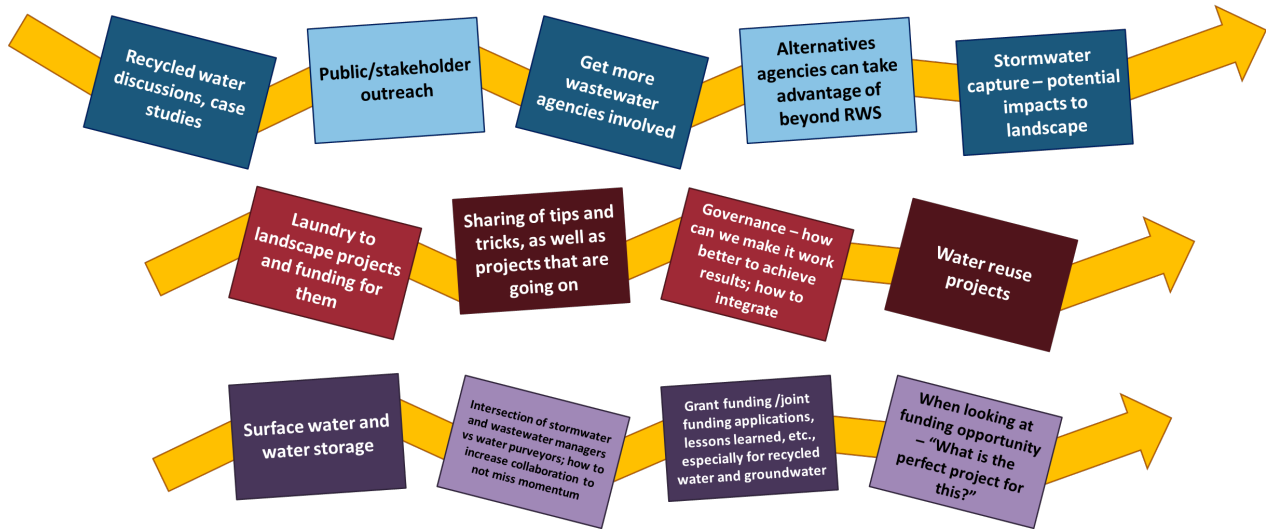
After the presentations by BAWSCA, EKI, and guest ACWD, participants were divided into three breakout rooms to start a conversation about the Roundtable Series experience. Facilitators wanted to gauge what worked well in the workshops and what people enjoyed about the Roundtable Series, and what participants would like to see more of in future workshops. More specifically, the participants were asked:

- What concepts covered in these workshops stood out the most to you? Any memorable guest speaker or presentation? If so, why?
- What topics/ideas would you like future Roundtable discussions to cover?
- What could the Roundtable team have done differently to increase outreach for the workshops/encourage more participation?
- And the same question from Workshop #3 “From these past three workshops, what has been most helpful to you and what would you have liked done differently?” was asked once more since participants ran out of time to fully engage in this question at the last workshop.

The outcomes of the discussions of these prompts can be found below:



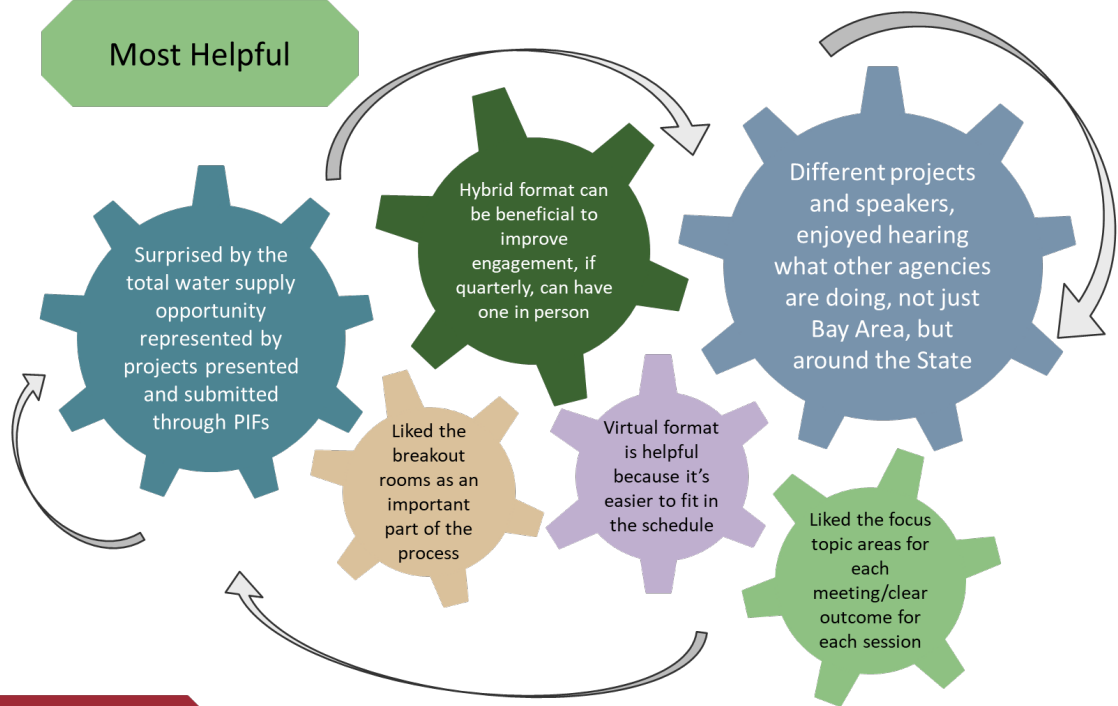
Q2: What topics/ideas would you like future Roundtable discussions to cover?



Q3: What Could the Roundtable Team Have Done Differently to Increase Outreach for the Workshops/Encourage More Participation?

Q3: From these past three workshops, what has been most helpful to you and what would you have liked done differently?

Most Helpful



Could have been done differently



7 FINDINGS AND NEXT STEPS

Based on the Roundtable Series the following key findings are summarized:

- **There is significant interest in, and activity towards, developing local projects to increase supply diversity and resiliency within the BAWSCA service area.** As discussed in Section 6.4, a total of 51 projects were identified to be in some stage of development across the region, totaling between 21 and 40 MGD of potential supply. Project types included recycled water, groundwater extraction, stormwater, surface water, and policy projects, among others. Approximately 40% of identified projects were in the planning stage, 40% were in-progress, and another 20% were in the conceptual stage. Participants expressed strong interest in continuing to track project implementation progress to support information sharing and to pursue opportunities for collaboration.
- **There is interest in having BAWSCA continue to facilitate the Roundtable Series** as a means to continue to gather and share information regarding project development, funding, governance, and implementation. Roundtable participants expressed hesitancy to implement One Water planning due to jurisdictional, institutional, or regulatory boundaries; lack of opportunities for interagency collaboration; and resource and knowledge gaps. There was interest expressed in BAWSCA maintaining an inventory of projects and other tools (e.g., ordinances and policies) that others were developing to support efficiency, coordination, and information sharing. Numerous ideas were presented by participants for future topics.
- **Funding appears to be a significant and common hurdle.** Participants expressed that they lacked resources to track and respond to grant and other funding opportunities. BAWSCA could provide significant value to local agencies by assisting in identification of grant opportunities that aligned with agency projects and by helping agencies with the preparation of grant applications, letters of support, and other funding opportunities. Agencies were also interested in the exploration of alternative project funding models to support the development of local projects to increase local and regional supply resiliency, such as those discussed during Workshop #2.

Based on the feedback received during the Roundtable Series, the following potential next steps have been identified.

- BAWSCA will consider incorporating semi-annual workshops into its future workplan to support on-going participation in the Roundtable Series. Refinements to the structure will be considered (e.g., hybrid or virtual, timing, duration, topics), as well as expanded stakeholder outreach.
- BAWSCA will consider expanding its agency support to include grant tracking, education, and potential support for grant preparation (e.g., via a subscription program).
- Information gathered as part of the Roundtable Series (e.g., the Project Information Forms) will inform the forthcoming scoping and development of the update to BAWSCA's Long-Term Reliable Water Supply Strategy.

One Water Reliability Roundtable Series Report Bay Area Water Supply and Conservation Agency Attachments

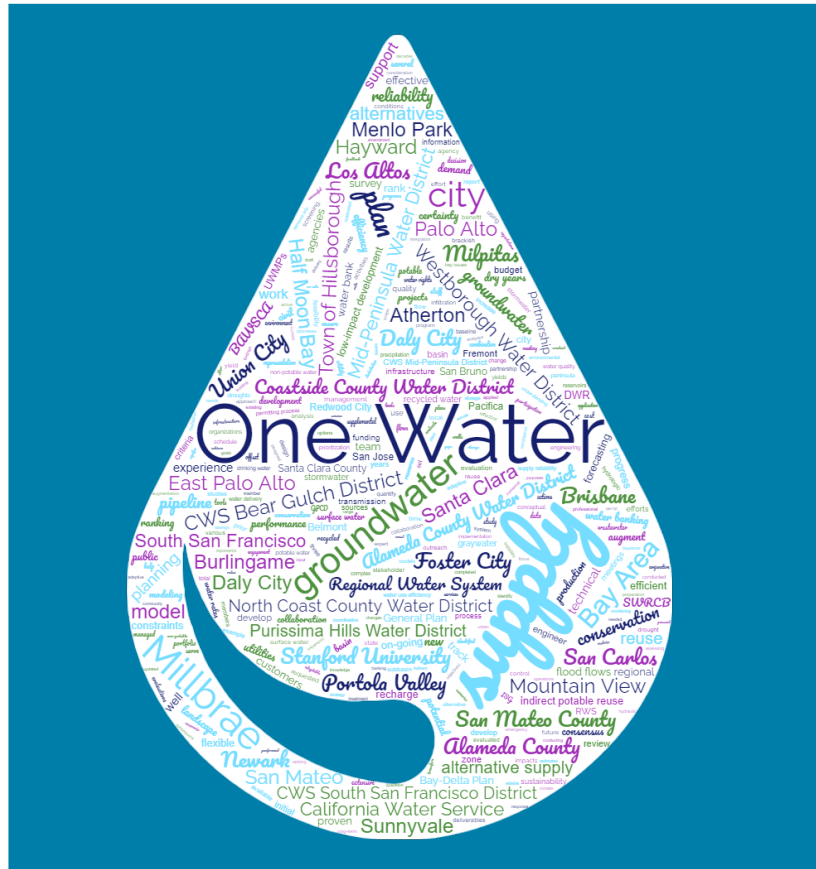


Image source: <https://bawasca.org/>

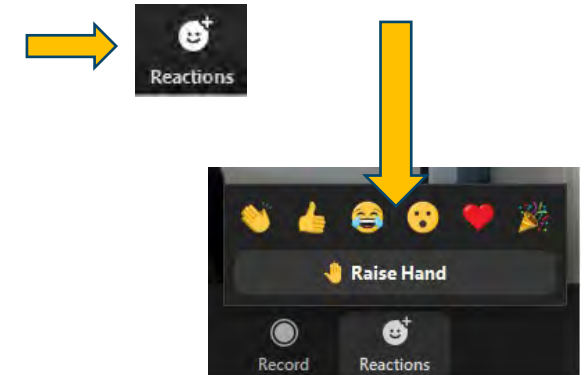
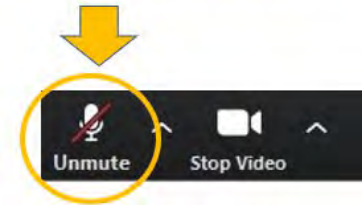
Attachment A

Workshop Presentations and Breakout Session Slides

Meeting Instructions While We Gather

- You have been muted upon entry
- Please feel free to **Unmute** yourself to say “Hi” and test your sound connection
- Please **Mute** yourself during meeting when you are not talking
- **During the meeting, BAWSCA staff will mute your sound and video if necessary**
- The **Raise Hand** feature will be used for questions
- ***NEW*** To get the **Raise Hand** button, Click on **Reactions** button at the bottom of your screen and Select **Raise Hand**
- The **Chat** function is enabled
- If you have technical difficulties, please text Lourdes at 650-799-3854

Bottom left corner
of your screen





“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

[BAWSCA Act, AB2058 (Papan-2002)]

Water Supply Reliability Roundtable

Workshop I: Demystifying the One Water Concept

May 24, 2022

Call to Order & Welcome



 **Replace your lawn with a water-wise landscape**

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

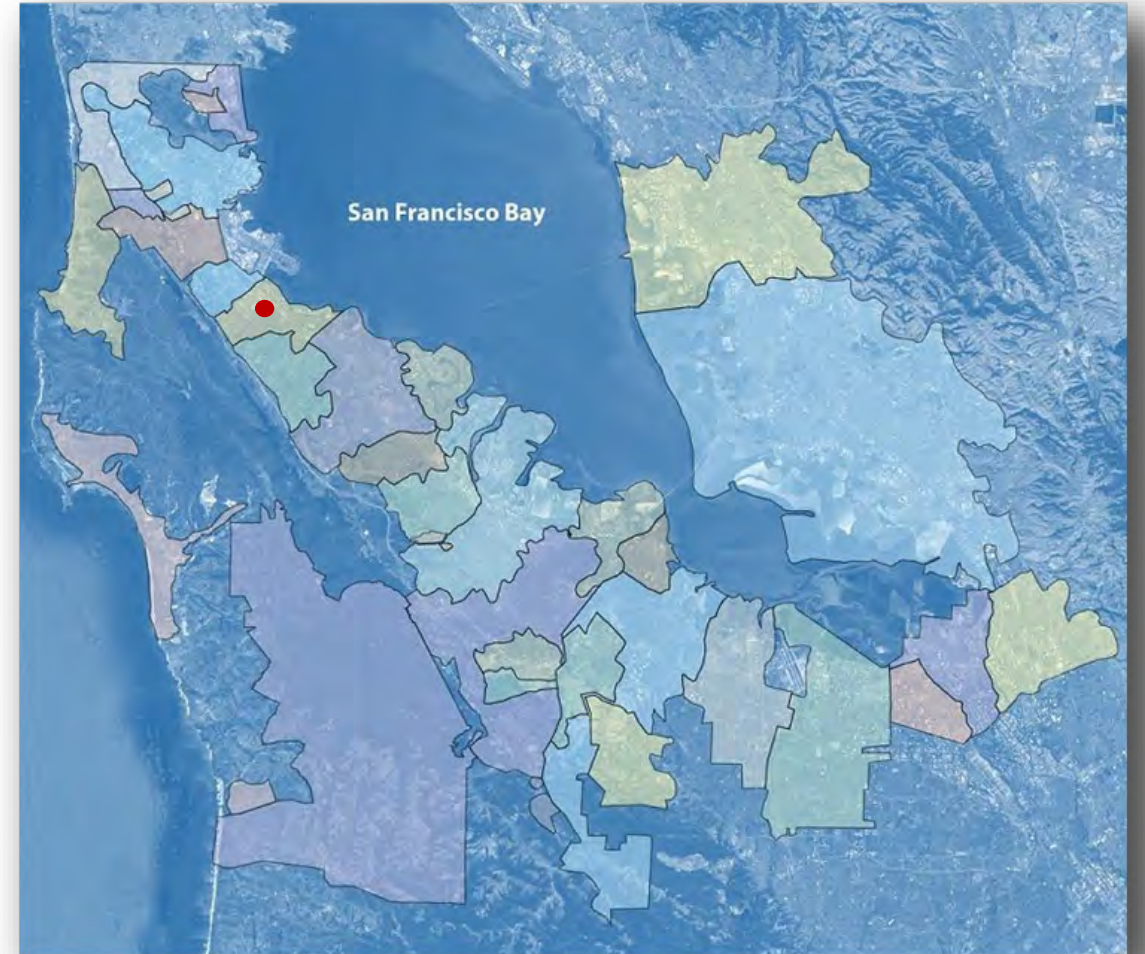
 Hetch Hetchy
Regional Water System
SERVICE OF THE SAN FRANCISCO PUBLIC UTILITY COMMISSION

bawasca.org/conserves

What is BAWSCA? (Bay Area Water Supply and Conservation Agency)

Special District formed in 2003 to represent the interests of:

- 26 water suppliers in San Mateo, Santa Clara, and Alameda Counties
- 1.8 million residents and over 40,000 businesses, and countless community organizations
- All rely on the San Francisco (Hetch Hetchy) Regional Water System



BAWSCA's 26 Member Agencies are Served by the Regional Water System

Alameda County

- Hayward, Alameda County Water District

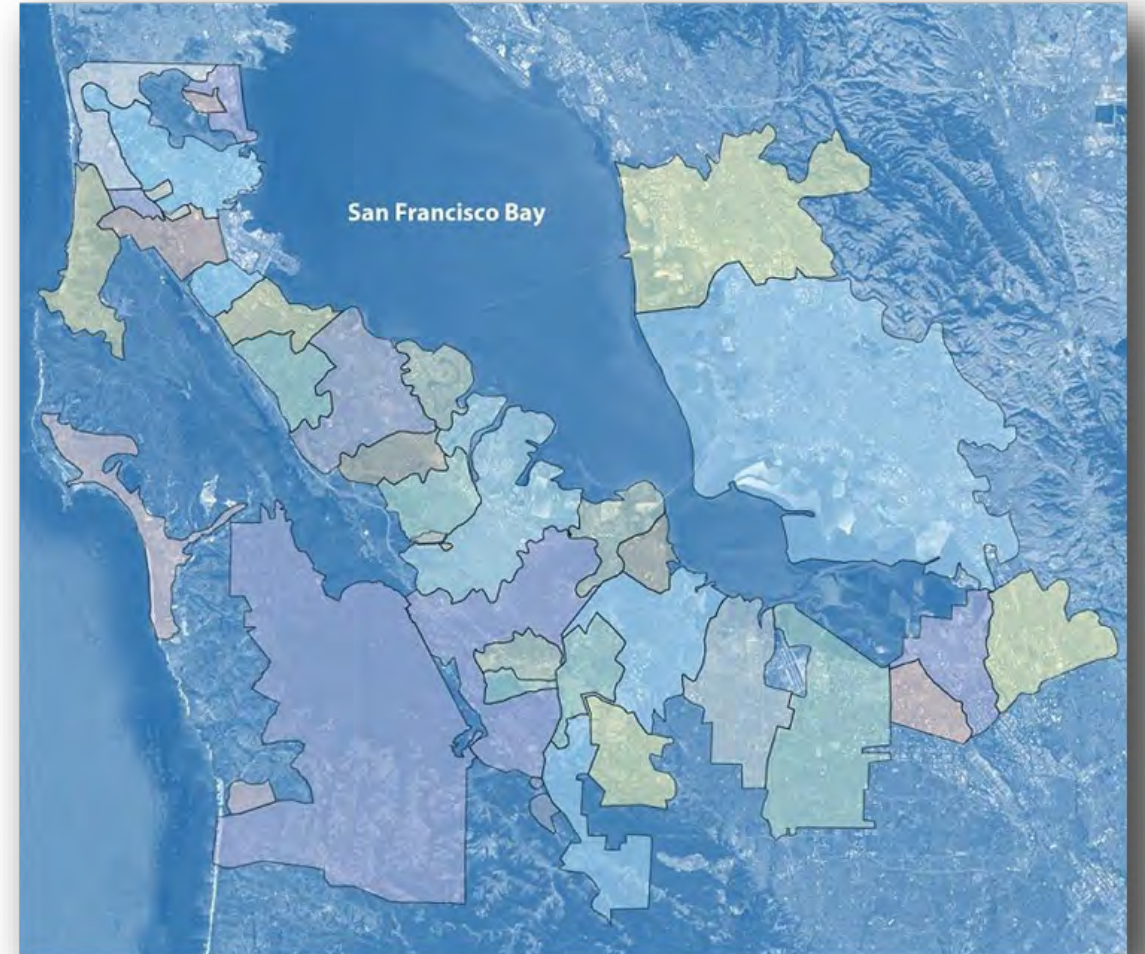
Santa Clara County

- Milpitas, San Jose, Santa Clara, Sunnyvale, Mountain View, Palo Alto, Purissima Hills WD, Stanford University

San Mateo County

- East Palo Alto, Menlo Park, Redwood City, Cal Water Service Company, Mid-Peninsula WD, Coastside CWD, Foster City (Estero), Burlingame, Hillsborough, Millbrae, San Bruno, Brisbane, Guadalupe Valley MID, North Coast CWD, Westborough CWD, Daly City

BAWSCA Board of Directors is comprised of an elected or appointed representative from each member agency



Introduction & Purpose of the Roundtable Water Supply Reliability Roundtable

Water plants no more than twice a week

Never when it's raining

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy Regional Water System**
Services of the San Francisco Public Utilities Commission

bawasca.org/conservate

The Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- Goal:
 - Understanding of how projects can fit within the one-water concept
 - Identification of collaborative opportunities
 - Identify how entities can best support, help finance, permit/approve, and/or expand projects or programs that have the potential to offer multiple benefits

Roundtable Meeting Series



Workshop 1

Demystifying the One Water Concept

- Date: May 24, 2022; 10AM-12PM, Zoom Meeting
- We will demystify the One Water Concept and explore how it can be applied to the BAWSCA region. Speakers will provide an overview of the One Water Concept and examples of successful implementation.



Workshop 2

Regional Partnerships Mean Regional Funding

- Date: June 28, 2022; 10AM – 12PM, Zoom Meeting
- We will focus on how regional partnerships can be leveraged for a variety of regional funding solutions. Speakers will discuss regional funding models that have been employed in the Bay Area and Southern California to bring projects into reality.



Workshop 3

Identifying Local “One Water” Projects

- Date: TBD September 2022, In-Person
- Share your organization’s planned or potential One Water projects with the group, whether they’re in the early stages of planning, or a mere twinkle in your eye. With all local projects on the table, we can begin to identify real and meaningful opportunities for One Water collaborations and funding opportunities. If conditions allow, a networking mixer will follow the Roundtable Workshop.



Workshop 4

Moving Forward!

- Date: TBD October 2022, In-Person
- We will spend some more time exploring and summarizing local and regional One Water projects and concepts, as well as discuss potential next steps. If conditions allow, a networking mixer will follow the Roundtable Workshop.

One Water Roundtable Series

Hosted by



with support from



Who has been Invited to Participate?

- All BAWSCA member agencies / Cities
- Wastewater agencies (located in San Mateo, Santa Clara and Alameda counties)
- San Mateo County agencies
 - C/CAG
 - San Mateo County Office of the Environment
 - SMC Office of Sustainability
 - SMC Flood and Sea Level Rise Resiliency District
 - Resource Conservation District
- Valley Water (representing a subset of Santa Clara County interests)
- NGOs
 - Multiple environmental NGOs
 - Multiple business NGOs
 - ReNUIT
- A complete list of those invited is provided at <https://bawasca.org/water/reliability/Roundtable>

Roundtable Format

- Length/Frequency:
 - 2-hour workshops (May, June, September and October of 2022)
- Meeting Format:
 - Topic-specific speakers to support education
 - Breakout sessions to support collaboration
- Venue = Hybrid Approach:
 - The roundtable may meet in person in Fall 2022 depending on circumstances
- Organizer:
 - BAWSCA will serve in the role of roundtable organizer
 - C/CAG has provided significant assistance
- Consultant Support:
 - BAWSCA has hired EKI to support the roundtable efforts

Work Product and Outcome

- Work Product:
 - A document summarizing the Roundtable discussions
 - A technical memorandum detailing current funding / grant opportunities
 - A website that will provide a resource for providing updates as to projects and programs underway by the parties <https://bawasca.org/water/reliability/Roundtable>
- Individual Participant Input Desired:
 - For BAWSCA, there is the desire to use input from the roundtable to help scope the next update of its Long-Term Reliable Water Supply Strategy
 - Other participant agencies and organizations will have their own possible use and expectations of the roundtable

Demystifying the One Water Concept

 **Only wash when the hamper's full**

 **Not full? Not today**

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy Regional Water System**
Service of the San Francisco Public Utilities Commission

bawsca.org/conservate

How would you define "One Water" planning?



Type your message
into the chat.



After 1 minute,
everyone will hit
"send" together.



Defining One Water

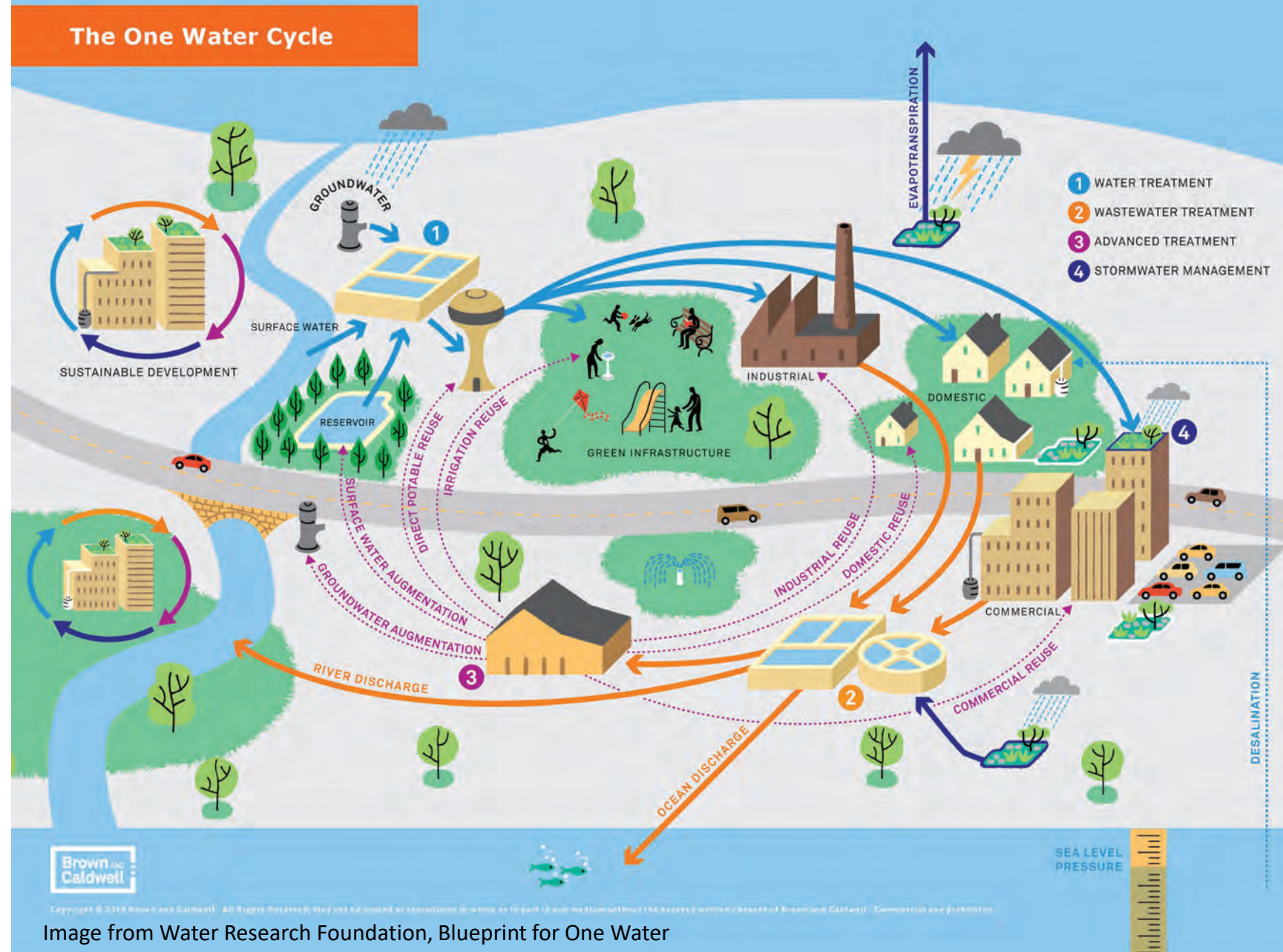
One Water is an integrated planning and implementation approach to managing finite water resources for long-term resilience and reliability, meeting both community and ecosystem needs.

--Water Research Foundation, Blueprint for One Water



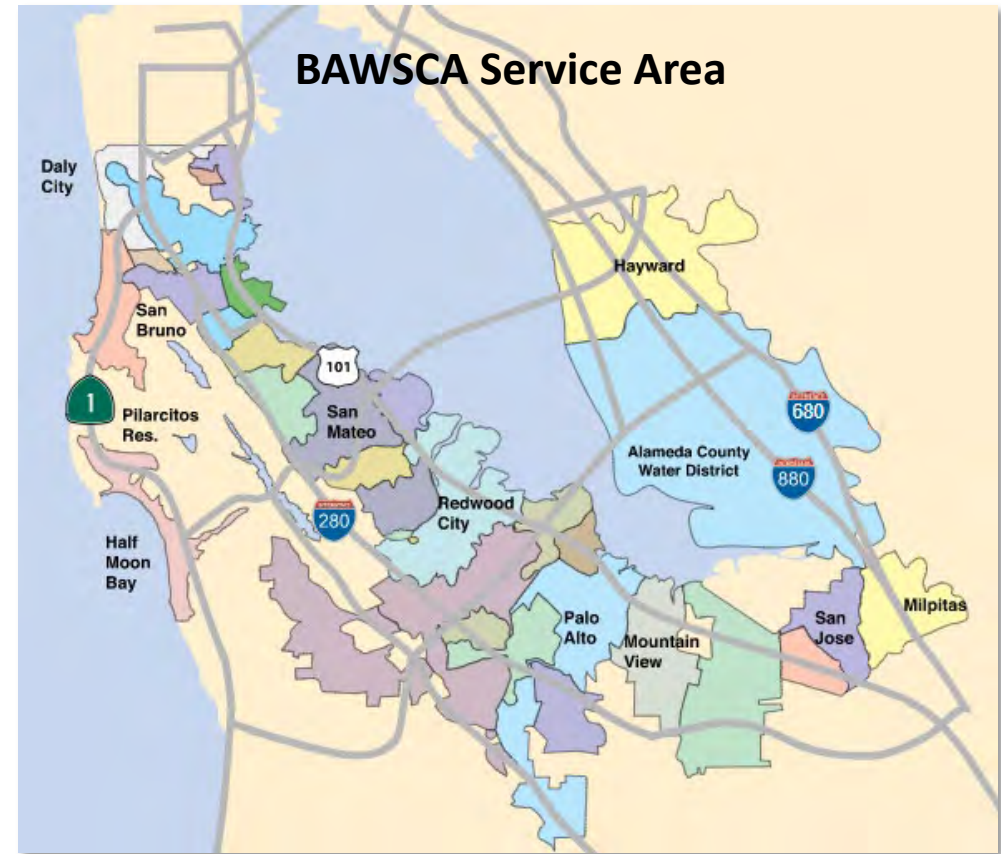
One Water Considers the “Whole Picture”

- Full water cycle, and all users
- Emphasizes all water has value
- Broad view – not just the aspect a given agency has responsibility for
- Partnerships and collaboration are central to its success

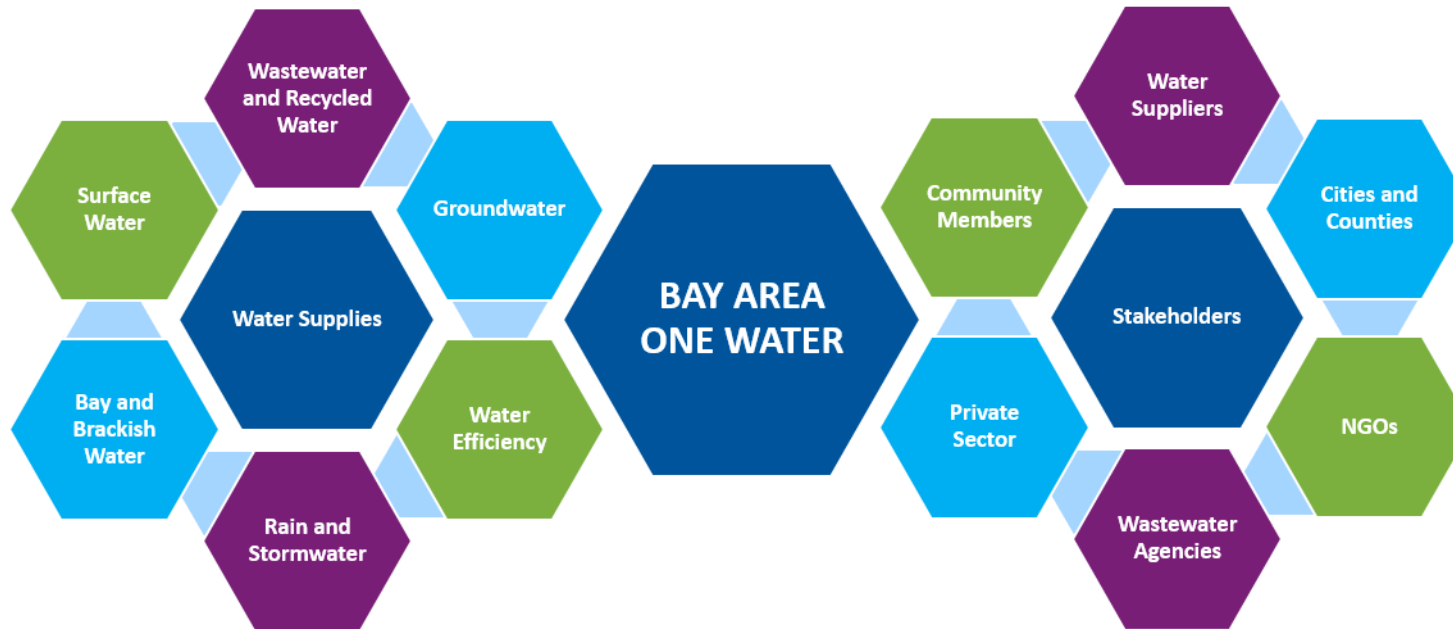


Benefits of One Water Process

- Greater resilience and reliability
- Opportunities to optimize regional infrastructure
- Sustainable community development
- New regulatory flexibility or opportunity
- Economic growth opportunity
- Increased coordination among agencies/departments



One Water is Specific to a Time and a Place



- No “one-size” fits all map for One Water
- Emphasizes collaborative process encouraging stakeholders to work together to solve water challenges
- Takes into account changing water supply reliability, environmental needs, shifting regulatory frameworks
- Looks at stakeholders and resources available



One Water is for Everyone

- Likely already involved in One Water-type planning
 - Integrated Regional Water Management
 - Water, Wastewater, Recycled Water Master Plans
 - Green Infrastructure
 - Groundwater Sustainability Plans
 - Anything that breaks down the “silos” in water and thinks about the system as a whole
- One Water builds upon existing plans to identify efficiencies and increased cohesion between stakeholders
- End result can take on many forms, such as a separate comprehensive plan or a framework for guiding collaborative actions
- Results depends on the entities involved and their varying needs and opportunities

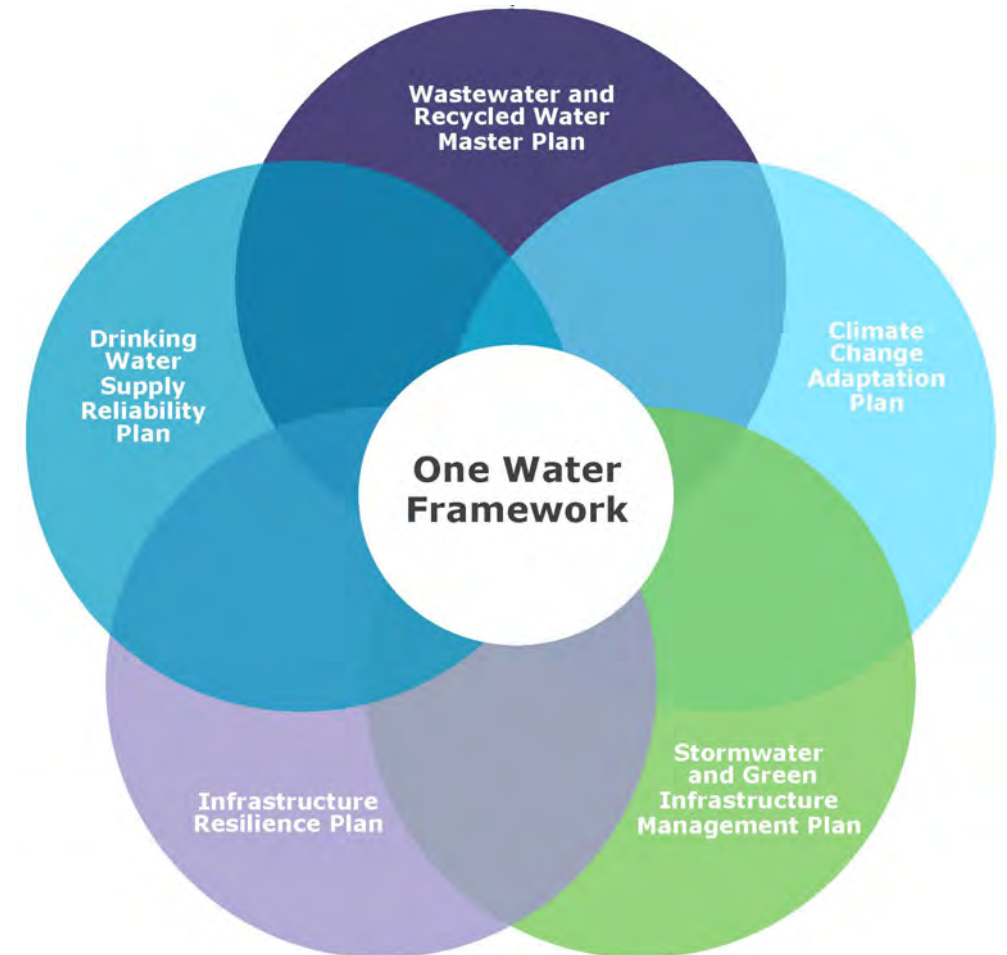


Image from Water Research Foundation, Blueprint for One Water



Steps to One Water Planning

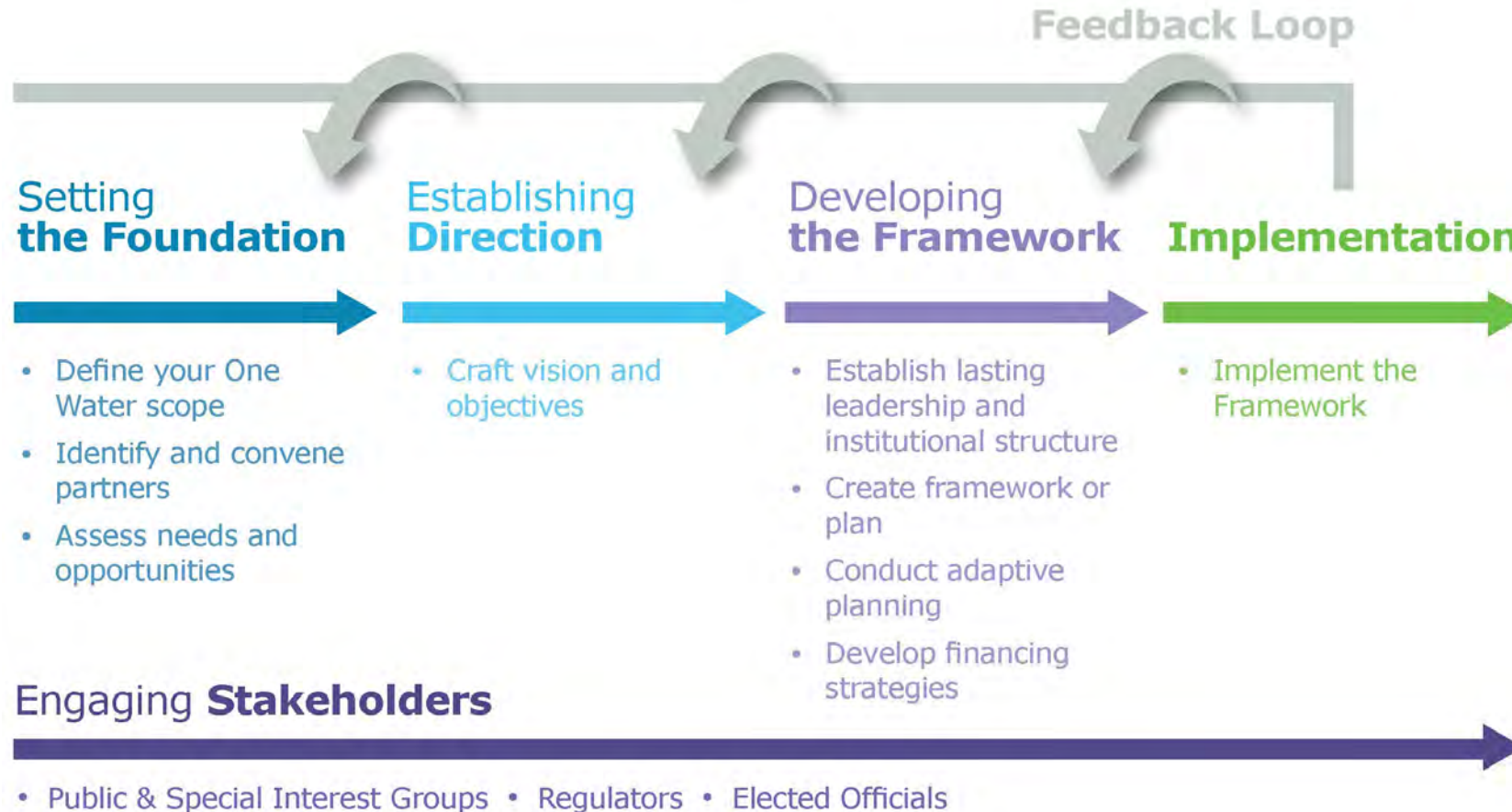


Image from Water Research Foundation, Blueprint for One Water



Learn More about One Water

- [Blueprint for One Water – Water Research Foundation](#)
- [One Water Plan – Valley Water](#)
- [One Water LA 2040 Plan – City of Los Angeles](#)
- [One Water Roadmap – US Water Alliance](#)
- [OneWaterSF – SFPUC](#)



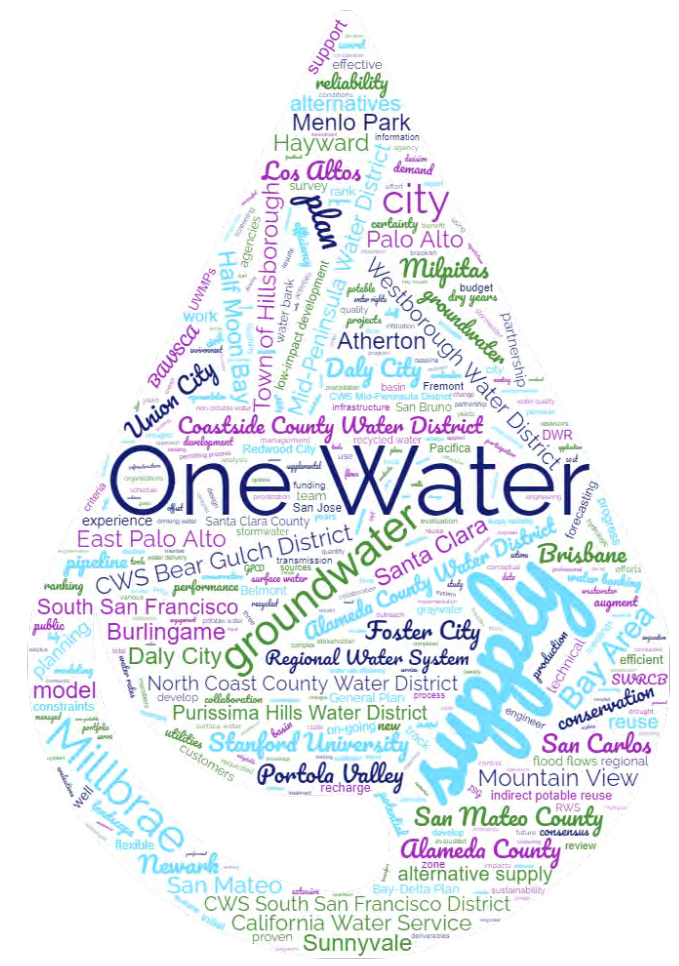
How is your organization currently doing One Water planning?



Type your message into the chat.



After 1 minute, everyone will hit "send" together.



One Water LA 2040 Plan



The graphic is split into two panels. The left panel shows a hand holding a hose with a nozzle, spraying water in a controlled shower onto a bush with pink flowers. Above it is a happy face emoji and the text "Use a nozzle on your hose". The right panel shows a hand holding a hose without a nozzle, pouring water directly into a pool of water that has formed around the same bush. Above it is a sad face emoji and the text "Don't drown your daisies".

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
Service of the San Francisco Public Utilities Commission

bawasca.org/conserve

// Presentation Outline

One Water LA: Setting the Stage for a Sustainable Future

- Project Background
- Near-Term Integration Opportunities
- Long-Term Integration Opportunities
- Stakeholder Engagement
- Outcomes, Benefits and Lessons Learned
- Q&A





One Water LA 2040 Plan Project Background

// The City of Los Angeles faces many challenges

One Water Plan Drivers

Population Growth



Aging Infrastructure



Climate Change Threats



Heavy dependence on imported water



More Stringent Stormwater Regulations

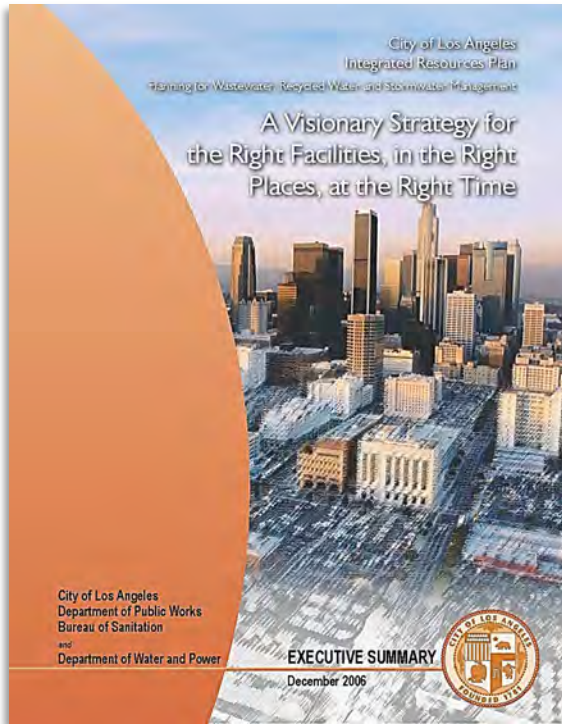


Limited Funding & Resources

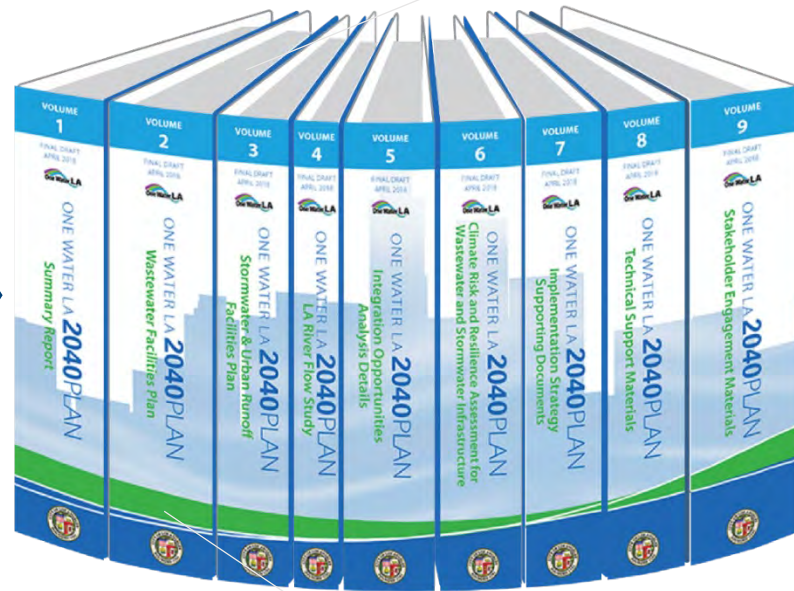


// To manage all water as “One Water” the City initiated the One Water LA 2040 Plan

2006 Integrated Resources Plan Planning Horizon 2020



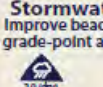
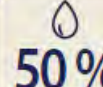


One Water LA 2040 Plan Planning Horizon 2040



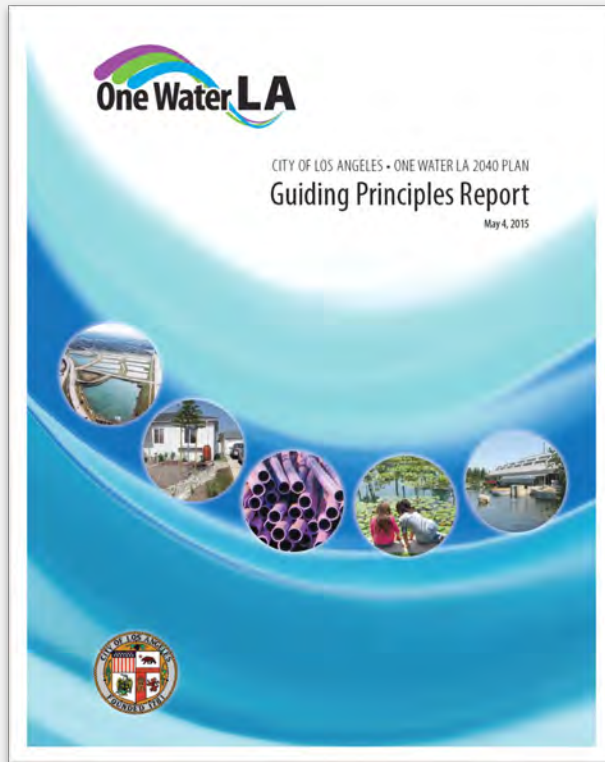
LA's Sustainable City Plan



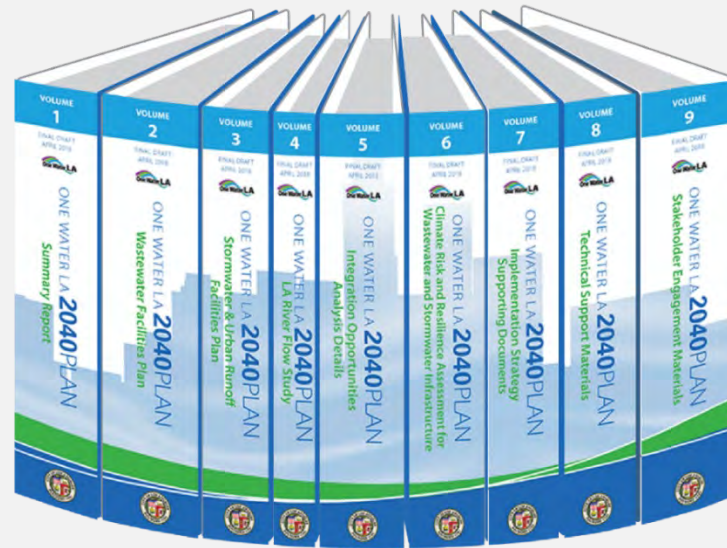
 <p>Reduce the purchase of imported water by 50% 50% 2025</p>	 <p>Capture 150,000 acre-feet per year of stormwater 150,000 AFY 2035</p>
 <p>Stormwater Quality: Improve beach water quality grade-point average (GPA) to: 3.9 (dry) 3.2 (wet) 2025 4.0 (dry) 3.5 (wet) 2035</p>	 <p>Source 50% of water locally 50% 2035</p>

// The Plan was developed in two phases and consists of many plan elements

Phase 1 Vision & Guiding Principles



Phase 2 One Water LA 2040 Plan



Roadmap to 2040
\$13B of Recommendations
Project, Programs, and Policies



PlanElements.ai

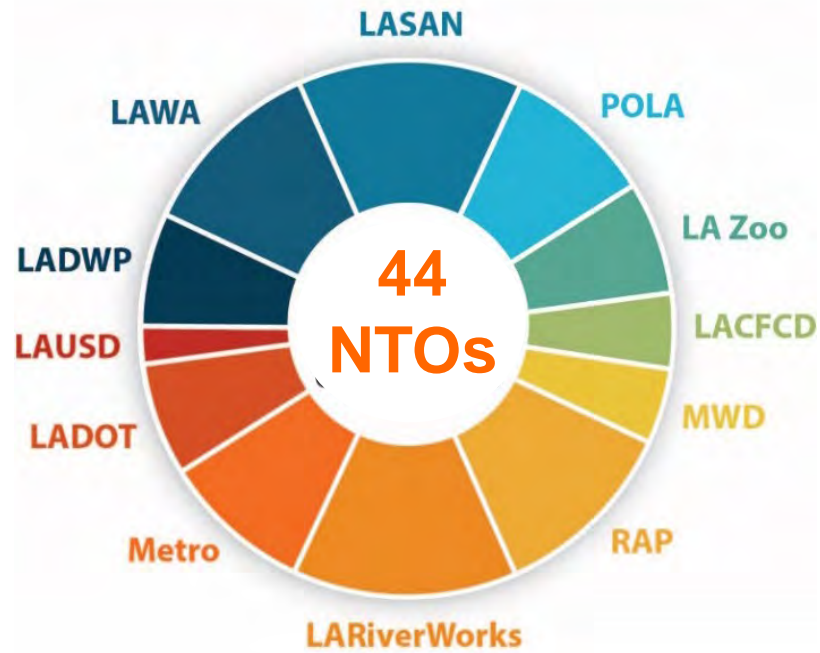


One Water LA 2040 Plan
Near-Term Integration Opportunities

// One Water LA 2040 Plan

Near-Term Integration Opportunities

Top 10 Near-Term Integration Opportunities



LA River Bike Path



Caballero Creek Park



Rancho Park Water Reclamation Facility



Advanced Treated Recycled Water Delivery to LAX and Scattergood



Capture of Off-Site Stormwater at LAUSD Schools (location TBD)



Rory M. Shaw Wetlands Park



Restoration of G2 Parcel at Taylor Yard



MacArthur Park



Wilmington Waterfront Development



// Near-Term Integration Opportunities

LA Zoo Master Plan

Inter-Departmental Collaboration



Integrated Water Management in the LA Zoo Master Plan with:

- **Recycled Water** for irrigation and animal exhibits
- **Stormwater** Capture in Parking Lot and throughout the Zoo
- **Water Conservation** with drought tolerant landscaping and high efficiency fixtures



One Water LA 2040 Plan
Long-Term Integration Opportunities

// Long-Term Integration Opportunities

From Sustainability Plan Goals to Plan Recommendations

Goal: Increase local water supply from 15% to 50%



Targets

Long-Term Outcomes

Sourcing:

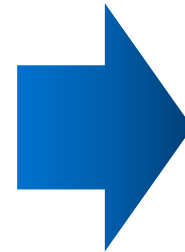
- Reduce Department of Water & Power (DWP) purchases of imported water by 50% by 2025, and source 50% of water locally by 2035, including 150,000 acre-feet per year (AFY) of storm water capture.



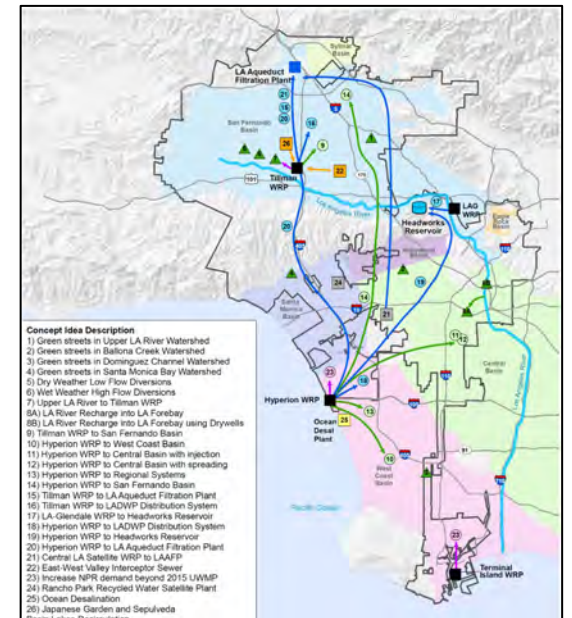
441,871 acre-feet purchased from the Metropolitan Water District between July 2013 and June 2014.
Source: City of Los Angeles, Department of Water and Power



8 Water Supply Strategies



27 Concept Options

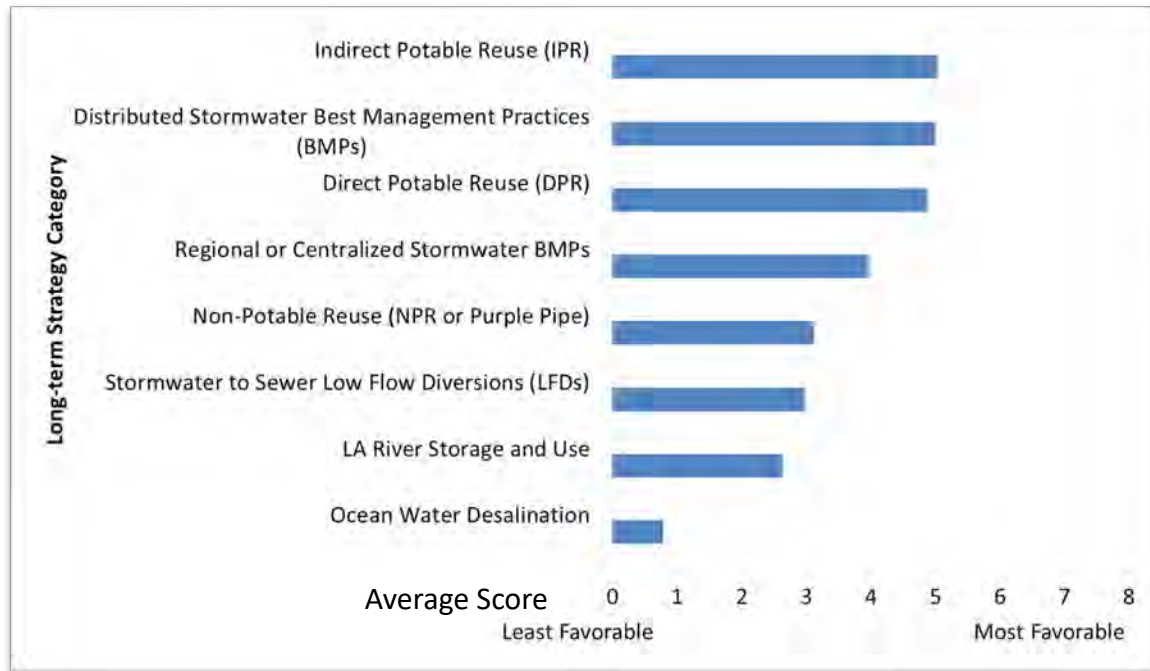


// Long-Term Integration Opportunities

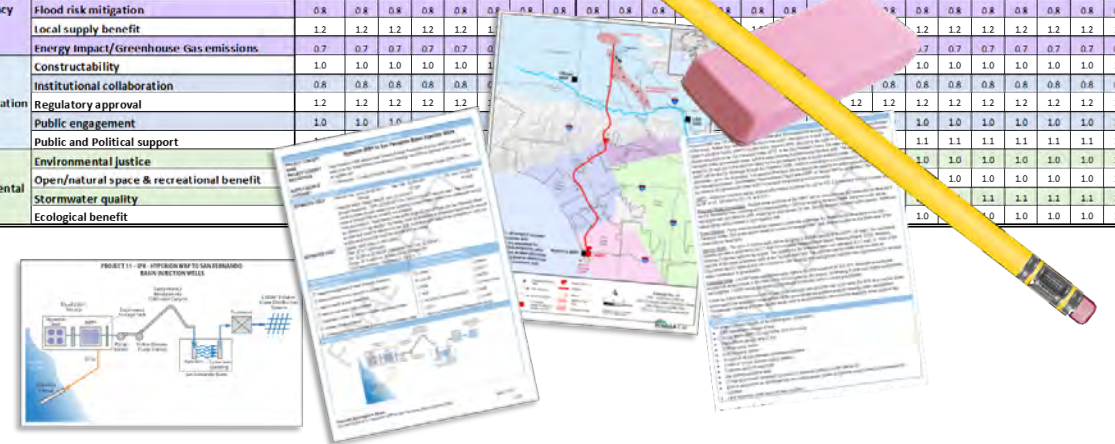
The Plan recommendations reflect the community priorities

Online Survey with 300+ Stakeholders to gain on input on the relative importance of **8 water management strategies**.

A broad team of City staff and technical advisors evaluated and scored all **27 concept options**.



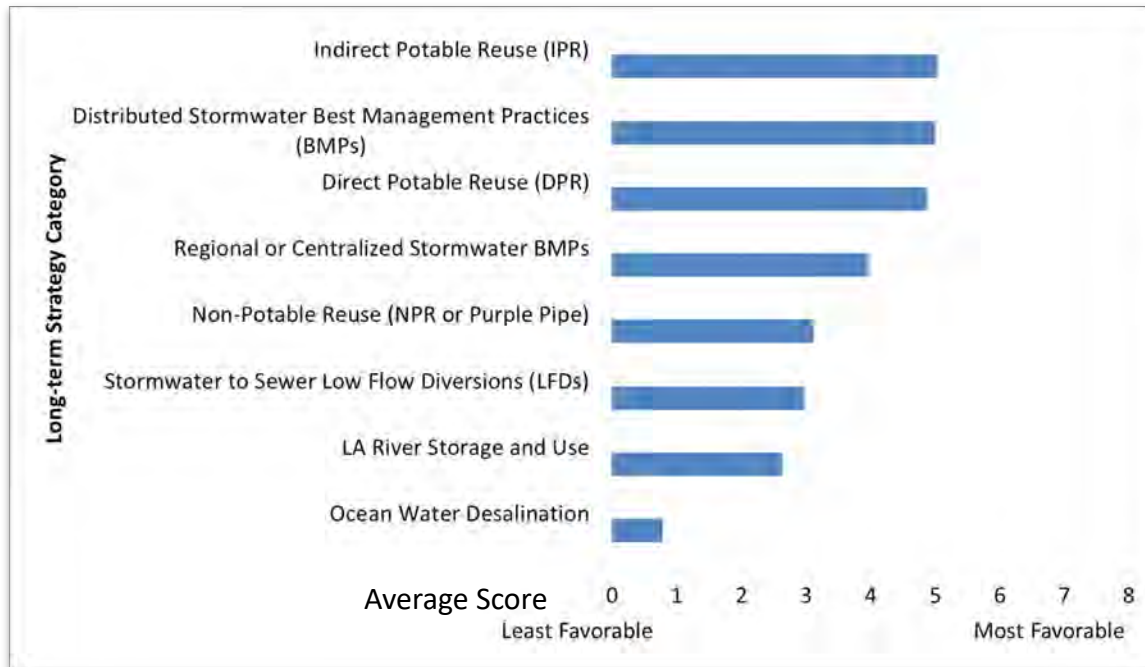
Category	Criteria	Project Concept Number & Name																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Economic	Unit cost	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Financial benefits	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	Project funding mechanism	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	Likelihood to obtain outside funding	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Resiliency	Drought resiliency	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Earthquake resiliency	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	Flood risk mitigation	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Local supply benefit	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Implementation	Energy impact/greenhouse Gas emissions	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Constructability	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Institutional collaboration	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Regulatory approval	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Environmental	Public engagement	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Public and Political support	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	Environmental justice	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Open/natural space & recreational benefit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



// Long-Term Integration Opportunities

The Plan recommendations reflect the community priorities

Online Survey with 300+ Stakeholders to gain on input on the relative importance of **8 water management strategies**



Stakeholders provided input on the One Water portfolio **evaluation criteria and Weighting Factors**



// Long-Term Integration Opportunities

One Water LA 2040 Plan

Green New Deal
Goal: 70% by 2035

Goal: Increase local water supply from 15% to ~~50%~~



Targets

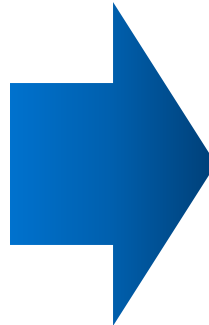
Long-Term Outcomes

Sourcing:

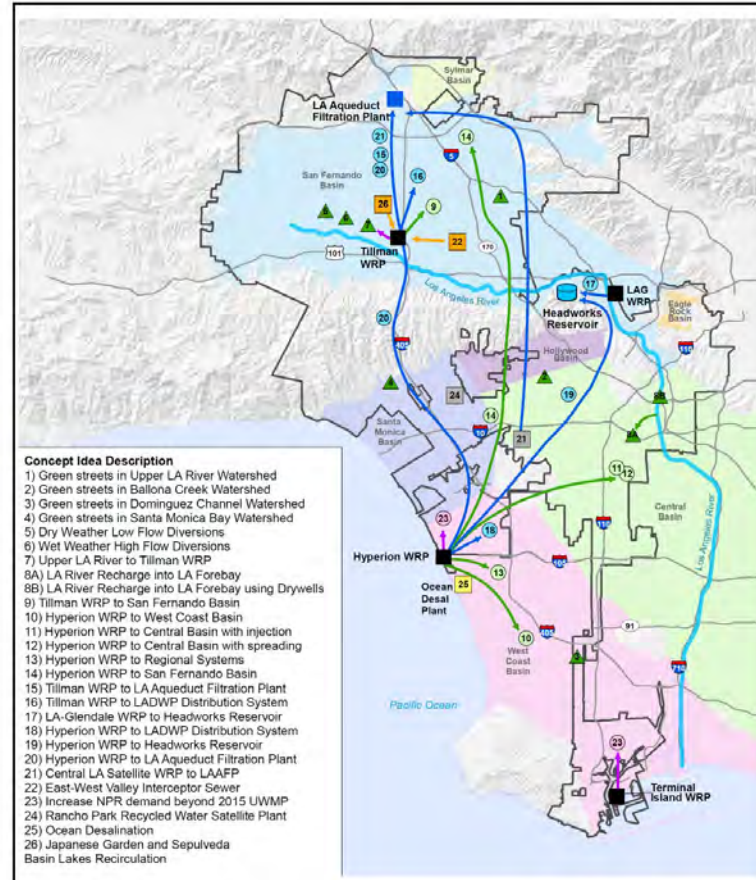
- Reduce Department of Water & Power (DWP) purchases of imported water by 50% by 2025, and source 50% of water locally by 2035, including 150,000 acre-feet per year (AFY) of storm water capture.



441,871 acre-feet purchased from the Metropolitan Water District between July 2013 and June 2014.
 Source: City of Los Angeles, Department of Water and Power



From 27 to 6 Long-term Concepts
 (incl. 90 mgd recycling at Hyperion)



From 90 to 220 mgd recycling at Hyperion



Operation NEXT & Hyperion 2035
 Increasing L.A.'s Local Water Supply



One Water LA 2040 Plan Stakeholder Engagement

// Stakeholder Engagement

Bold leadership - setting the stage for integration, collaboration, and innovation



Adel Hagekhalil (LASAN's Assistant Director) and **Marty Adams** (LADWP's Chief Operating Officer) provided strong visionary leadership for One Water LA

// Stakeholder Engagement

Multi-level Institutional and Stakeholder Collaboration

Over 30 representatives from City departments & regional agencies



// One Water Steering Committee

New Vehicle for Institutional Collaboration

Steering Committee Members

- 14 City Departments
- 6 Regional Agencies

Key Accomplishments

- Developed Vision, Objectives, & Guiding Principles
- Identified existing integration opportunities
- Identified policies to streamline integration between departments & agencies
- Created awareness to integrate water elements in projects & programs

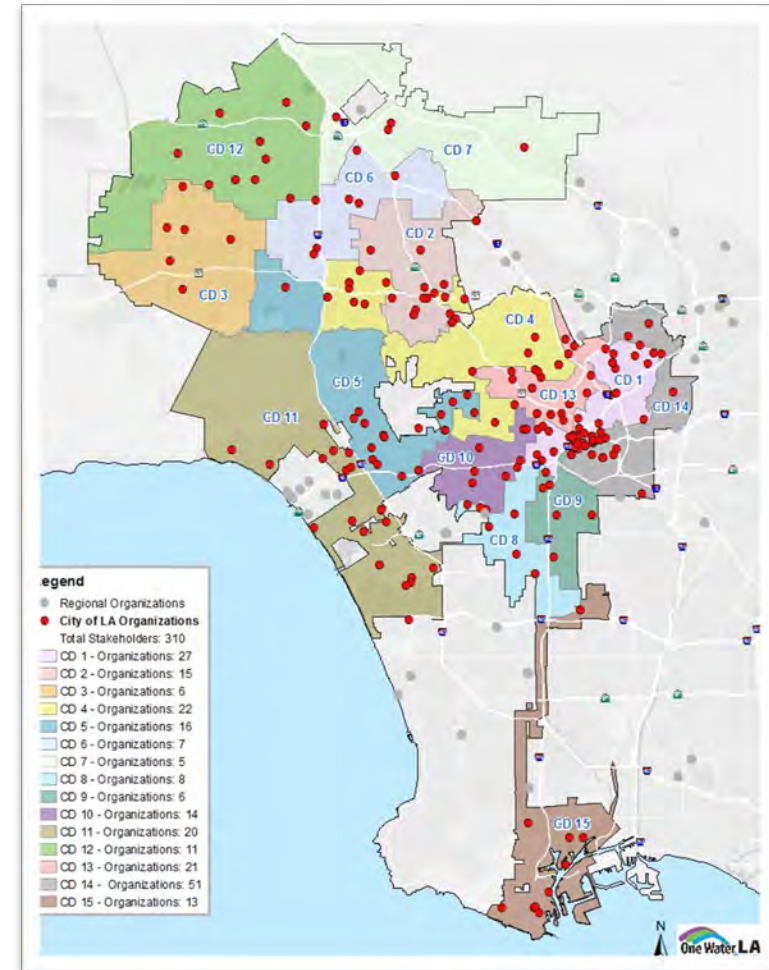


// Stakeholder Engagement

Broad engagement from start to finish and beyond

500+
Stakeholders

200+
Organizations

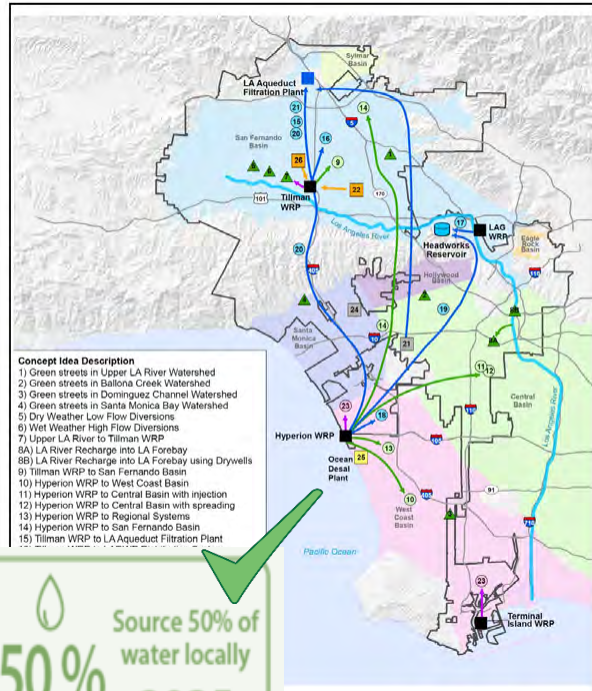




One Water LA 2040 Plan
Some Key Project Benefits

// One Water LA 2040 Plan Project Benefits

Long-Term Climate Resilient Water Supply Strategy



Source 50% of water locally
50%
2035

Proactive Climate Resilience Improvements Save Hundreds of Millions



Improved Institutional Collaboration & Community Support



Cost Sharing and Funding Opportunities



LA COUNTY'S
Safe Clean Water Program
1 — 2
Measure W
\$300 M/year

One Water, Setting the Stage for a Sustainable Future.

Q&A



INGE WIERSEMA, P.E., ENV SP

Vice President, Water Resources Practice Lead
& National One Water Director



iwiersema@carollo.com

(626) 393-7427



Palo Alto's One Water Plan

Catch rain for irrigation

Don't water when it rains

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
Service of the San Francisco Public Utilities Commission

bawasca.org/conserve



Palo Alto's One Water Plan

BAWSCA Reliability Roundtable

May 24, 2022

www.cityofpaloalto.org

Palo Alto Council Policies



Goals and Key Actions in 7 areas including Water

Commitment to developing alternative water supplies to preserve and protect Tuolumne River



Key Action: One Water Plan

- Develop a “One Water” Portfolio for Palo Alto
 - Water supply and conservation options
 - Mindset that all water has value
 - More resilient to impacts of climate change
 - Managing water in ways that respect and respond to natural flows of watersheds and natural ecosystem, geology and hydrology
 - Economic, environmental and social benefits
 - Stakeholder engagement



“One Water” Goal

Council adoption of a One Water supply plan that is a 20-year adaptable roadmap for implementation of prioritized water supply and conservation portfolio alternatives.



One Water Role in Palo Alto Planning



Northwest County Recycled Water Strategic Plan (in Partnership with Valley Water)



- How best to expand RWQCP Recycled Water Program
 - Feasibility of various potable and non-potable water reuse opportunities
 - Ranked by cost and non-cost criteria
- Study Area:
 - RWQCP service area
 - Additional areas within Menlo Park & East Palo Alto
- Time Period
 - Through 2030



Green Stormwater Infrastructure (GSI) Plan



- GSI can slow and clean stormwater runoff
- GSI Plan describes how Palo Alto will gradually integrate GSI features
- One Water Plan will consider GSI also as a water supply option



Demand Management/Conservation

- Rebates, Surveys and Devices
(In partnership with Valley Water)
 - Landscape replacement
 - Irrigation system controllers
 - Grey water system rebate
 - Indoor and outdoor Surveys
 - Free showerheads, faucet aerators and toilet flappers
- Green Buildings and Landscaping
- Education and Outreach
 - Workshops
 - Bill inserts, e-blasts, social media



One Water RFP – Key Tasks



- Develop evaluation criteria for Assessing Water Supply and Conservation Portfolio Alternatives
- Develop and Evaluate Future Water Supply and Conservation Portfolio Alternatives
- Stakeholder Input
- Final Report and Excel-based tool



Timeline and Next Steps

- Scope Input from Utilities Advisory Commission at June 2021 meeting
- RFP issued November 17, 2021
- Intent to Award issued February 28, 2022
- Contract review by Council scheduled June 20, 2022
- Develop plan with lots of stakeholder input
- Council approval of One Water Plan mid 2023

- One Water email distribution list
 - 1) google “Palo Alto GovDelivery”
 - 2) create account
 - 3) click on “One Water Plan”

https://public.govdelivery.com/accounts/CAPALO/subscriber/new?topic_id=CAPALO_282



Breakout Session and Report Out

Keep your showers short

Every minute uses a gallon more

START

TIMER DONE

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy Regional Water System**
Services of the San Francisco Public Utilities Commission

bawsca.org/conserve

Session Format

- You each will be assigned and moved to a breakout room at random
- The BAWSCA/EKI team will facilitate each breakout room discussion
- The session will be interactive, utilizing an approach that asks each participant to type directly onto the screen / slides shown as we move through the discussion
- At the conclusion of the breakout session, we will regroup and report out
- 45 minutes is reserved for the breakout session

Plan for Next Roundtable Workshop



Turn off the faucet while you brush

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
Service of the San Francisco Public Utilities Commission

bawasca.org/conserve

Roundtable Workshop 2

- How to fund projects and programs is a critical in the planning and development process
- Our region can benefit by learning how others have approached this topic
- Speakers will discuss regional funding models they've identified or contemplated
- Do attendees have particular questions or requests as we finalize plans for the coming workshop?



Workshop 2

Regional Partnerships Mean Regional Funding

- Date: June 28, 2022; 10AM – 12PM, Zoom Meeting
- We will focus on how regional partnerships can be leveraged for a variety of regional funding solutions. Speakers will discuss regional funding models that have been employed in the Bay Area and Southern California to bring projects into reality.

Adjournment to Next Meeting

Next Roundtable Workshop

June 28

10 am - noon

Format: Zoom

Introduce yourself and your organization

HELLO
Kim Springer
City/County Association
of Governments of San
Mateo County

HELLO
Cathleen Brennan
Coastside County
Water District

HELLO
Steven Salazar
City of San Bruno

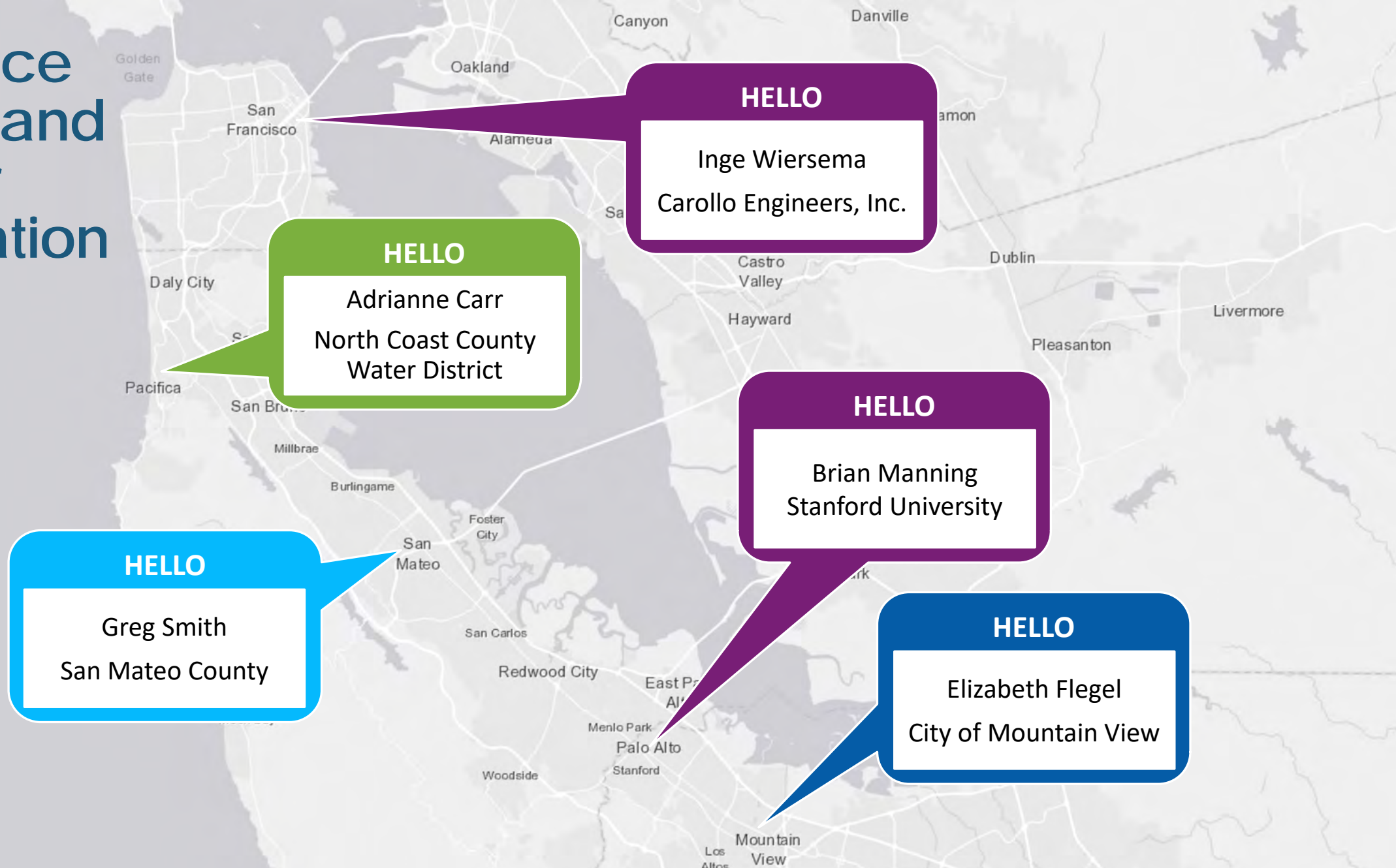
HELLO
Kirsten Struve
Valley Water

HELLO
Thomas Niesar
Alameda County
Water District

HELLO
Lisa Bilir
City of Palo Alto
Utilities Department



Introduce yourself and your organization



Introduce yourself and your organization

HELLO
Jennifer Lee
City of Burlingame

HELLO
Susan Wright
County of San Mateo

HELLO
Azalea Mitch
City of San Mateo

HELLO
Karla Dailey
City of Palo Alto

HELLO
Peter Drekmeier
Tuolumne River Trust

HELLO
Justin Chapel
City of Redwood City

HELLO
Julia Nussbaum
Stanford University



Introduce yourself and your organization

HELLO
Reid Boger
City/County Association
of Governments of San
Mateo County

HELLO
Scott Jaw
City of Menlo Park

HELLO
Carol Steinfeld
Loma Prieta Chapter
of the Sierra Club

HELLO
Mansour Nasser
City of Sunnyvale

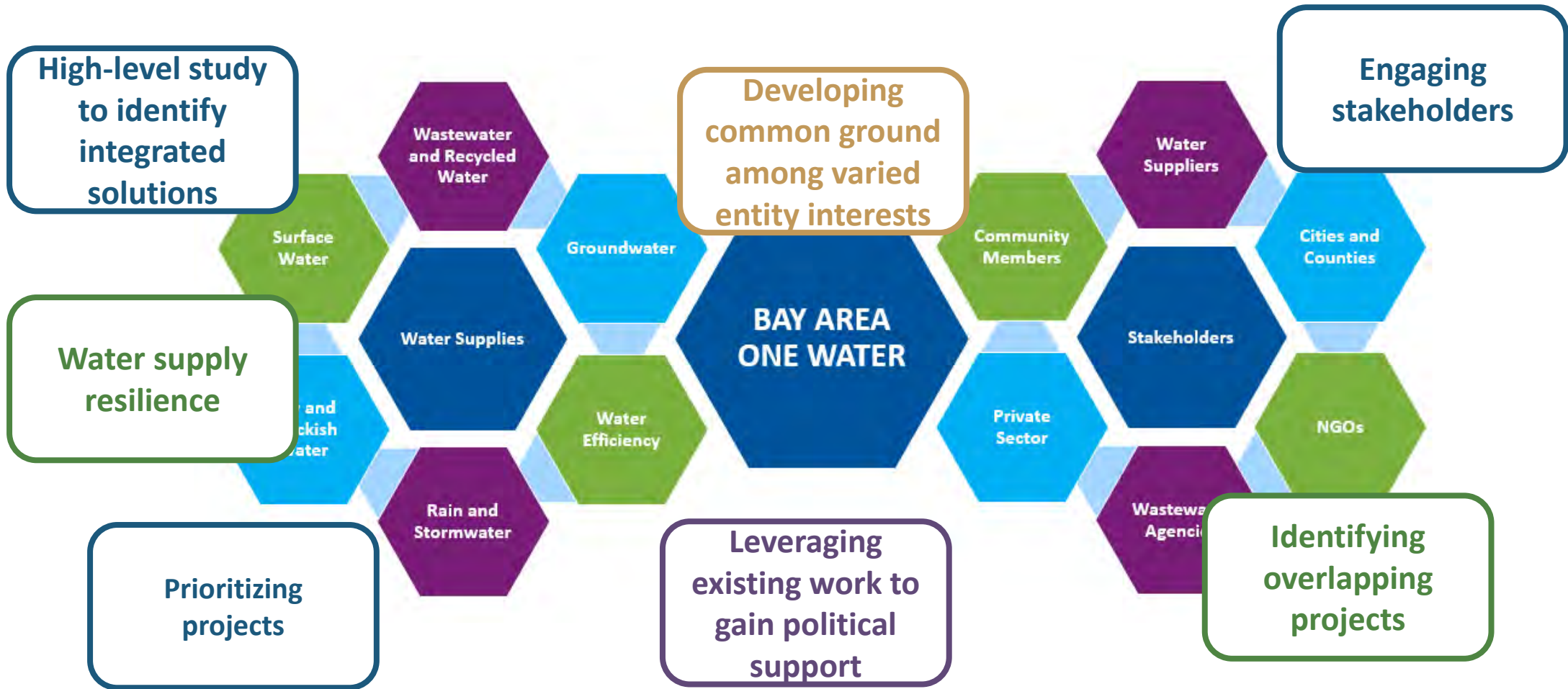
HELLO
Sal Navarro
City of Hayward

HELLO
Shilpa Mehta
City of Santa Clara

HELLO
Jeff Provenzano
City of San Jose



What opportunities can One Water offer?



What opportunities can One Water offer?

Education with Building Officials, working with member systems around issues of re-use, backflow prevention

Health & Safety part of the considerations

Groundwater (reducing it because demand & take or pay) – longer term trajectory of demand may rebound

On-site septic; groundwater recharge

Small recycled water system

Water Conservation

Stormwater diversions and storage w/ groundwater wells as back up

Wastewater, Stormwater capture, Drinking water

Recycled water; wastewater sale to Valley Water – source of Pure Water program

Non potable system for irrigation

Partner with Pacific on recycled water (RW); would like to increase use of RW on golf course, but issue with permitting and piping; potable reuse?? Maybe if there was an option to do augment groundwater recharge, but limited opportunity

Feel reactive to requests for distributed systems / understanding interaction between on-site vs centralized; what is understanding on intersection; may really reduce demand – conversion to recycled water use reduces demand by 75%

historic water diversion on a creek, been using it for conservation (Water Right); focused on conservation

Harvesting fog? Starting research with UC Santa Cruz and Virginia Tech as fog catcher project

Pursuing groundwater as a resource to blend with Hetch Hetchy supply



What opportunities can One Water offer?

Recycled Water Partnerships (regional group)

Opportunity for funding

Stormwater Capture

Recycled water for habitat enhancement

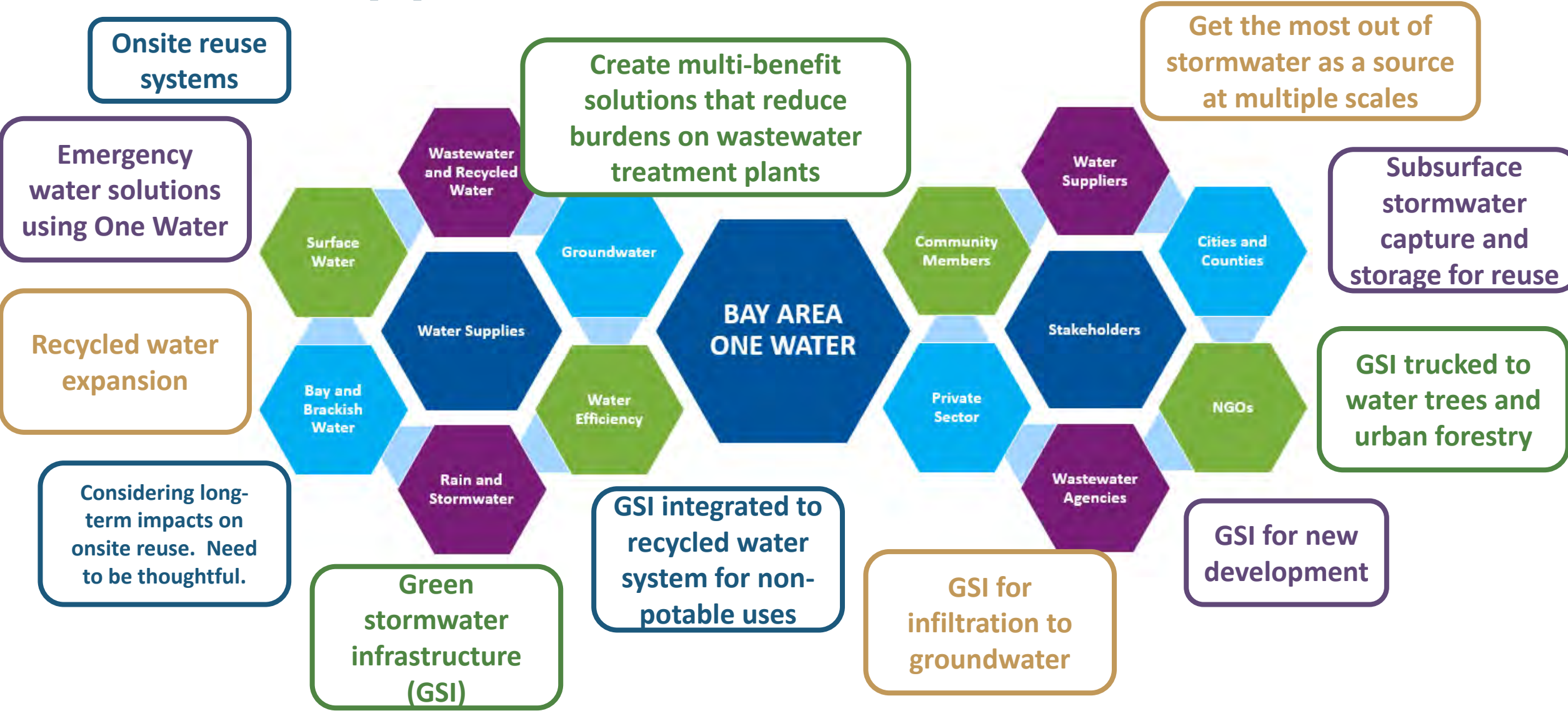
Comprehensive communication – connected to the sources



Plant more trees

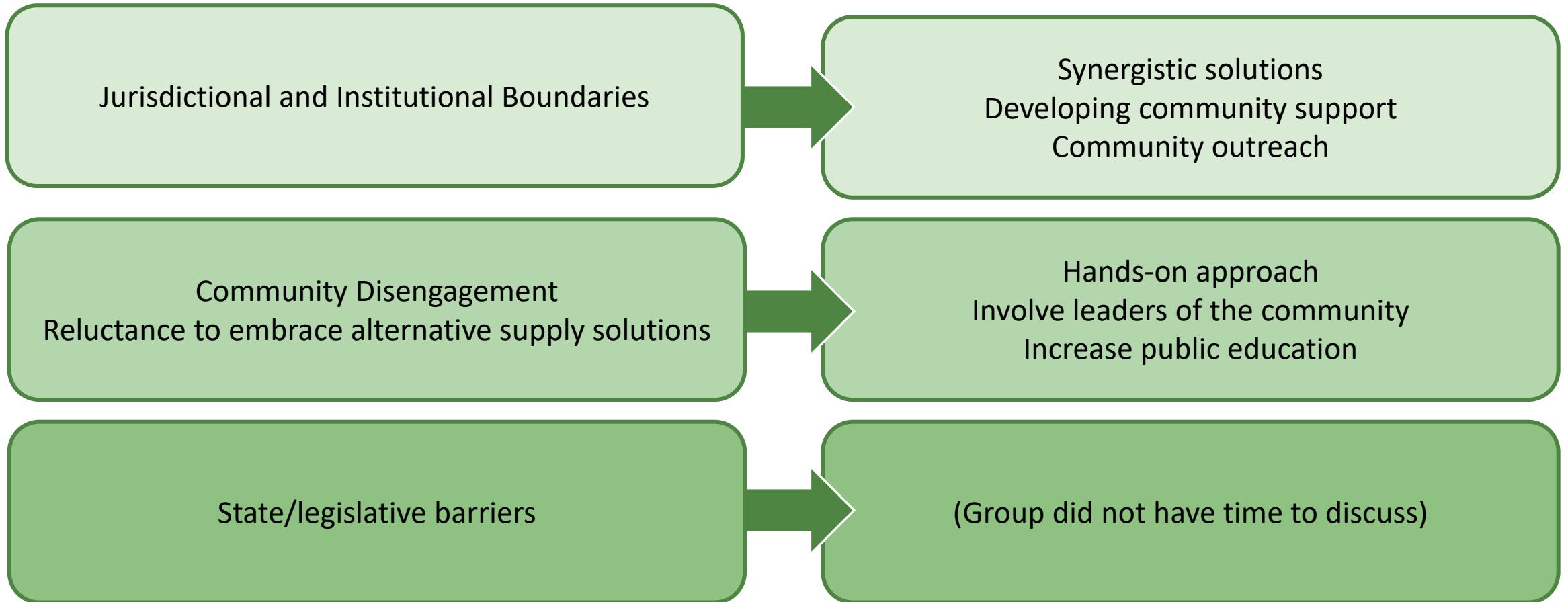


What opportunities can One Water offer?



What are 3 obstacles to One Water planning?

What can be done to overcome those obstacles?



What are 3 obstacles to One Water planning?

What can be done to overcome those obstacles?

Regulatory hurdles for permitting projects because of water quality issues; timeframe, etc.

Engage regulator in process of planning; urgency, practicability

Funding across multiple organizations for planning or projects – who pays how much?

Start having discussions early; negotiate cost-sharing;
Target funding that is multi-benefit

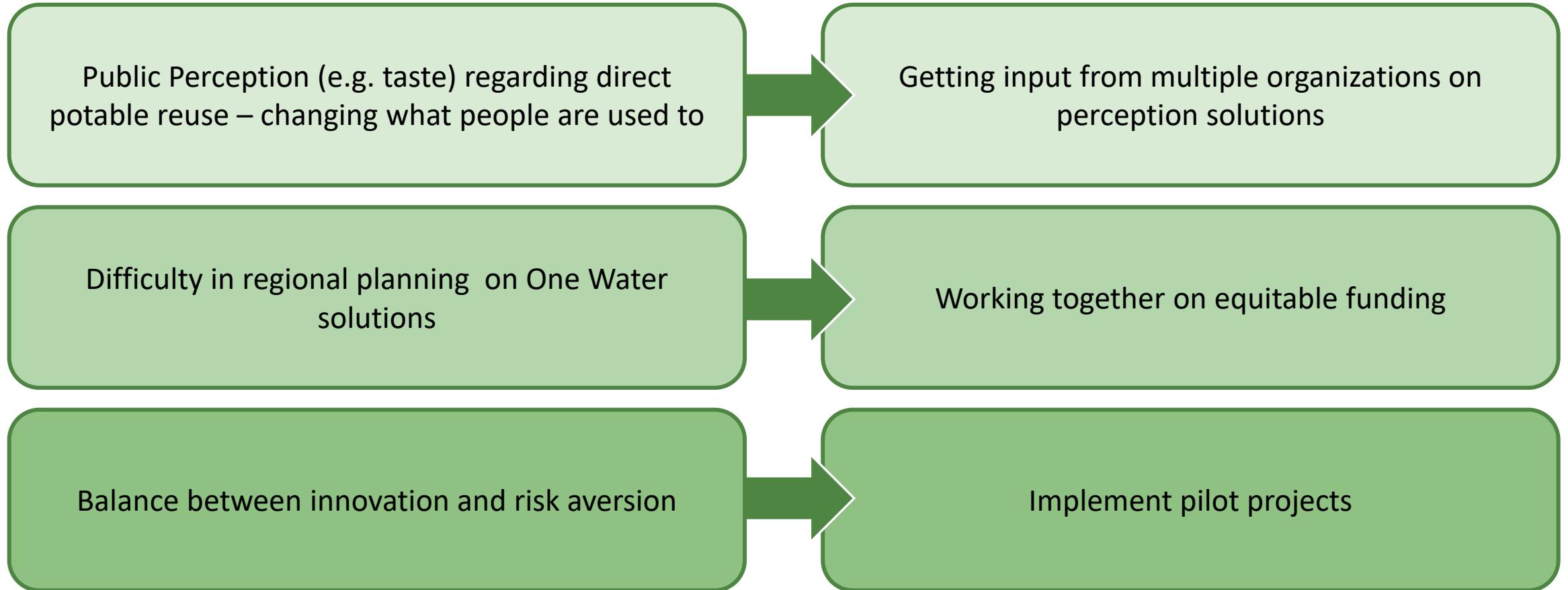
Working across agencies/organizations can be a challenge

Identify common objectives to work more effectively together
“Safe space” for discussion



What are 3 obstacles to One Water planning?

What can be done to overcome those obstacles?



What are 3 obstacles to One Water planning?

What can be done to overcome those obstacles?

Lack of knowledge of solutions

Roundtables, knowledge sharing, technical expertise. Sharing examples of what has been done. Lesson learned. Ideas of what can be done. Culture of learning and listening.

Resource gap (e.g., personnel, funding, etc.)

Grants (Fed or State).

Silos of water sectors. Interagency collaboration. Developing a collaborative plan with multiple agencies. Interdepartmental silos.

Getting groups together in one room. Describe the future. Getting the leaders in the room.



If there were absolutely no barriers, what water projects would you like to see in the Bay Area?

Regional Desalination

Integrated purple-pipe network

Direct potable reuse

Utility-owned supply

Water conservation

More greywater reuse

Non-potable fill stations

Indirect potable reuse

Consistent Statewide messaging



Direct Potable Re-use
– put it in Crystal Springs or put it in the pipe

Diversity between supplies (e.g., 4 supplies + conservation)

Desal, but too much energy; public perception & environmental concerns

you don't always know when you start where you will end up

Diversity decreases risk

If there were absolutely no barriers, what water projects would you like to see in the Bay Area?



Direct potable reuse

Indirect potable reuse (Crystal Springs)

Graywater opportunities

Stormwater capture and reuse

If there were absolutely no barriers, what water projects would you like to see in the Bay Area?

Energy positive process producing materials in wastewater plant and recycled water



If there were absolutely no barriers, what water projects would you like to see in the Bay Area?

Onsite reuse
residential scale

District
scale/cluster
onsite system

GIS hub to track
flow
opportunity

Diversified water
supply

All water
projects are
evaluated for
possible
integration

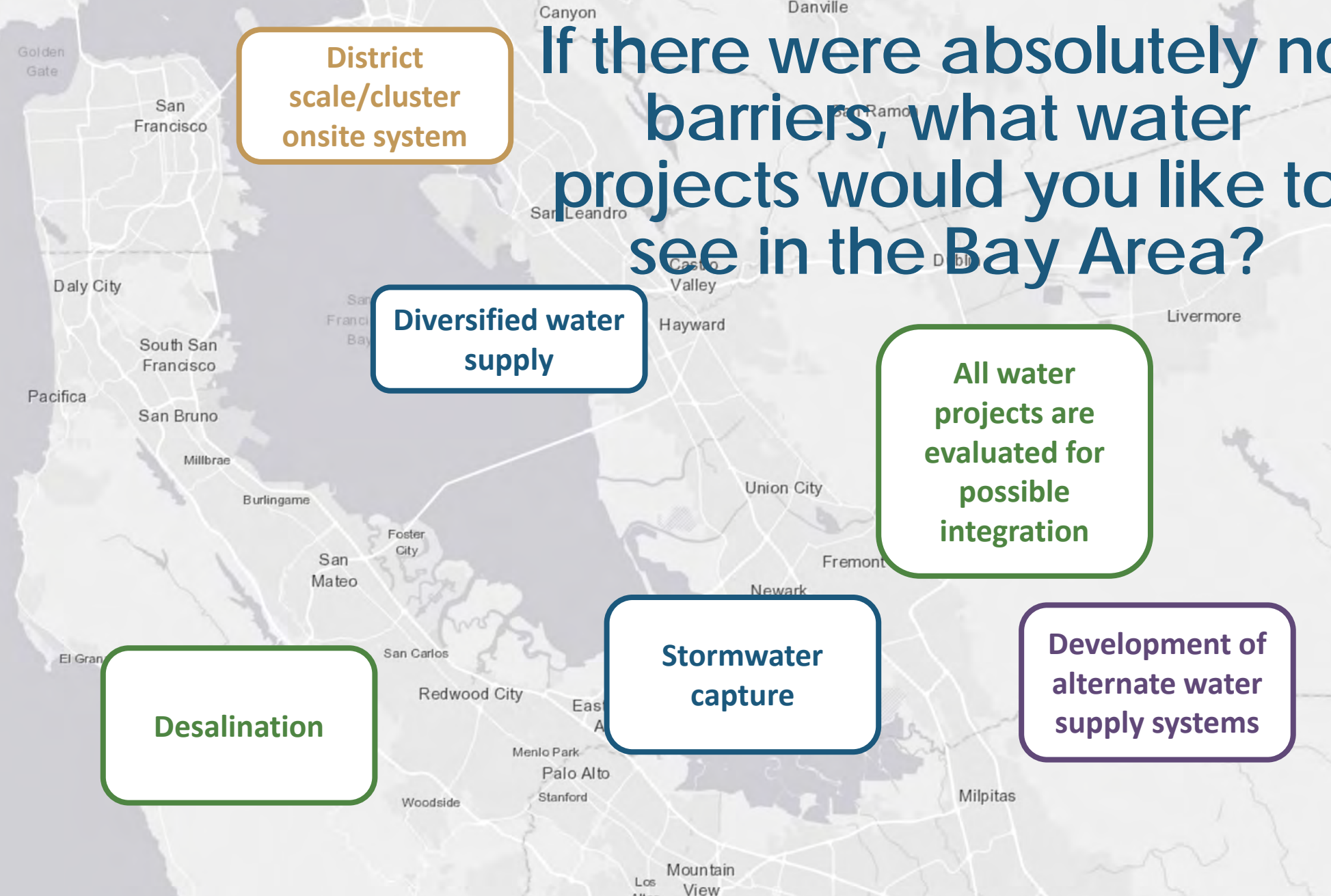
Direct and
indirect potable
reuse

Stormwater
capture

Development of
alternate water
supply systems

Producing own
potable water

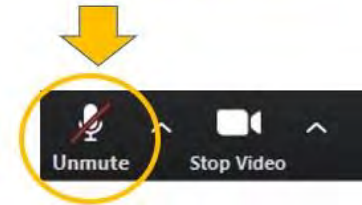
Desalination



Meeting Instructions While We Gather

- You have been muted upon entry
- Please feel free to **Unmute** yourself to say “Hi” and test your sound connection
- Please **Mute** yourself during meeting when you are not talking
- **During the meeting, BAWSCA staff will mute your sound and video if necessary**
- The **Raise Hand** feature will be used for questions
- ***NEW*** To get the **Raise Hand** button, Click on **Reactions** button at the bottom of your screen and Select **Raise Hand**
- The **Chat** function is enabled
- If you have technical difficulties, please text Kyle Ramey at 650-787-1793

Bottom left corner
of your screen





“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

[BAWSCA Act, AB2058 (Papan-2002)]


Water Supply Reliability Roundtable

Workshop 2: Regional Partnerships Mean Regional Funding

June 28, 2022


Call to Order & Welcome



 **Replace your lawn with a water-wise landscape**

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
Service of the San Francisco Public Utilities Commission

bawasca.org/conserves

Introduction & Purpose of Meeting Two

😊 Water plants no more than twice a week

😞 Never when it's raining

We're in a drought, cut waste out.

BAWSCA | **Hetch Hetchy Regional Water System** | **bawsca.org/conserve**
Bay Area Water Supply & Conservation Agency | Services of the San Francisco Public Utilities Commission

Roundtable Workshop Series



Workshop 1

Demystifying the One Water Concept

- Date: May 24, 2022; 10AM-12PM, Zoom Meeting
- We will demystify the One Water Concept and explore how it can be applied to the BAWSCA region. Speakers will provide an overview of the One Water Concept and examples of successful implementation.



Workshop 2

Regional Partnerships Mean Regional Funding

- Date: June 28, 2022; 10AM – 12PM, Zoom Meeting
- We will focus on how regional partnerships can be leveraged for a variety of regional funding solutions. Speakers will discuss regional funding models that have been employed in the Bay Area and Southern California to bring projects into reality.



Workshop 3

Identifying Local “One Water” Projects

- Date: September 20, 2022; 1PM -3PM, Zoom meeting (although may be in-person if conditions warrant)
- Share your organization’s planned or potential One Water projects with the group, whether they're in the early stages of planning, or a mere twinkle in your eye. With all local projects on the table, we can begin to identify real and meaningful opportunities for One Water collaborations and funding opportunities. If conditions allow, a networking mixer will follow the Roundtable Workshop.



Workshop 4

Moving Forward!

- Date: TBD October 2022, In-Person
- We will spend some more time exploring and summarizing local and regional One Water projects and concepts, as well as discuss potential next steps. If conditions allow, a networking mixer will follow the Roundtable Workshop.

One Water Roundtable Series

Hosted by



with support from



Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- Goal:
 - Understanding of how projects can fit within the one-water concept
 - Identification of collaborative opportunities
 - Identify how entities can best support, help finance, permit/approve, and/or expand projects or programs that have the potential to offer multiple benefits

Purpose of Workshop 2 Discussions

- Explore how the development of successful regional projects requires regional funding options
- Identify approaches to regional funding by:
 - Learning how BAWSCA funds its operations
 - Sharing how participants fund their current projects
 - Hearing from two agencies regarding their approach to regional funding
 - Discussing options to explore for future regional efforts
- Review the approach to collecting information on local water-one projects (in preparation for workshop 3)

BAWSCA is a Special District Created by the California State Legislature to Represent the Water Users in Three Counties that Rely on RWS

- BAWSCA was enabled in 2002 by Assembly Bill (AB) 2058
- BAWSCA represents the interests of 24 cities and water districts and two private utilities in Alameda, San Mateo and Santa Clara counties that purchase water on a wholesale basis from San Francisco's Regional (Hetch Hetchy) Water System (RWS).
- BAWSCA is governed by a 26-member Board of Directors comprised of representatives from each member agency
- BAWSCA is the only entity having the authority to directly represent the needs of the cities, water districts and private utilities (wholesale customers) that depend on the RWS
- BAWSCA has the authority to coordinate water conservation, supply and recycling activities for its agencies; acquire water and make it available to other agencies on a wholesale basis; finance projects, including improvements to the regional water system; and build facilities jointly with other local public agencies or on its own to carry out the agency's purposes

BAWSCA Work Plan Designed to Deliver Results and Achieve BAWSCA's Goal

- BAWSCA's Goal: A Reliable Supply of High-Quality Water at a Fair Price
- Fail Price work efforts go toward:
 - Activities required by BAWSCA's revenue bonds
 - Management of the Water Supply Agreement between the San Francisco and the Wholesale Customers to protect members' and their customers' interests
- Reliable Water Supply work efforts go toward:
 - Implementation of BAWSCA's Long-Term Water Supply Strategy
 - Participation in and support of projects and programs that have a regional water supply benefit
 - Monitoring and evaluation of SFPUC's efforts to rebuild (WSIP) and Maintain (CIP) the RWS
 - Representation and protection of members' and their water customers' interests in regulatory actions impacting RWS
 - Provide support to member agencies in State required water supply planning efforts
 - Development and implementation of core and subscription-based water conservation programs
 - Maintaining a close relationships with BAWSCA's allies
 - Maintaining a dialogue with responsible environmental and other groups/organizations
- High Quality Water work efforts go toward:
 - Coordinating with member agencies in their discussions with the SFPUC regarding water quality topics and concerns

BAWSCA's Primary Source of Funding Authorized Through Its Enabling Legislation (AB 2058)

- **Primary Funding: Annual assessments on member agencies**
 - AB 2058 authorizes the BAWSCA Board to impose assessments sufficient to pay the agency's operating expenses included in the annual budget
 - Assessments shall be based on, and proportional to, BAWSCA member agencies' water delivery amounts described in Section 81460 of AB 2058
- WSA provides two other potential funding sources for BAWSCA that are available only under special circumstances or special reasons
- **Potential source: Use of excess funds from WSA Balancing Account**
 - Balancing Account (BA) records the difference between the actual SFPUC costs attributable to the Wholesale Customers and the amount billed to the Wholesale Customers in each year
 - When a positive balance is maintained for three successive years and represents 10% or more of the Wholesale Revenue Requirement for the most recent fiscal year, the fund may be used for the Wholesale Customers' preferred application, exercised through BAWSCA, for six purposes that include water conservation or supply projects administered by or through BAWSCA
 - A positive balance in the BA is occasionally used to fund BAWSCA's water conservation or water supply project expenses under limited circumstances (Section 6.05.B.2.a of the WSA)
- **Potential source: Water Management Charge – a special assessment on member agencies**
 - Used to collect funding for a specific project or program of regional benefit
 - This funding source has only been used once

Outside Funding and Financing Opportunities

- **Federal Grants and Loans**
 - U.S. Bureau of Reclamation WaterSMART Program Grants
 - Clean Water Act State Revolving Fund (SRF) Loans (States provide 20% match)
 - Water Infrastructure Finance and Innovation Act (WIFIA) Loans (low, fixed interest rates) to supplement SRF Loans
 - Other grants and loans sometimes flows through State Revolving Funds (e.g., Infrastructure Investment and Jobs Act)
- **State Grants and Loans**
 - Clean Water State Revolving Fund (SRF) Loans (low, fixed interest rates) to supplement WIFIA Loans
 - Voter approved grants (e.g., Proposition 84: California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access for All Act of 2018, and Proposition 1: Water Quality, Supply, and Infrastructure Improvement Act of 2014)
- **Local Funding and Financing**
 - Revenue bonds (common for traditional, centralized infrastructure)
 - Property-related stormwater fee and/or parcel tax
 - Tax increment revenues
 - Water and Wastewater rates

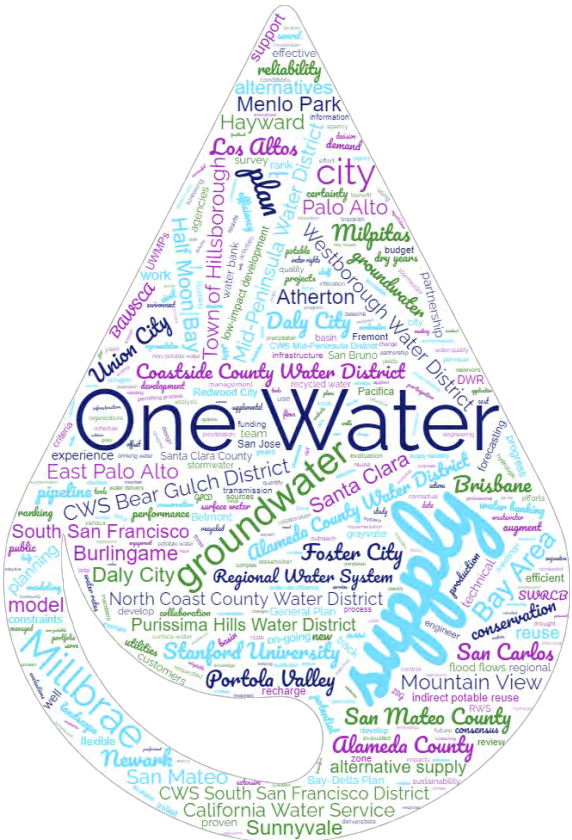
What funding sources/models has your organization used to develop One Water Projects?



Type your message into the chat.



After 1 minute, everyone will hit "send" together.



San Bernardino Valley Municipal Water District's Approach to Regional Funding

 **Only wash when the hamper's full**

 **Not full? Not today**

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy Regional Water System**
Service of the San Francisco Public Utilities Commission

bawsca.org/conserve

Maximizing Water Resources through Collaborative Opportunities: Partnerships and Funding

Heather Dyer, MBA, MS

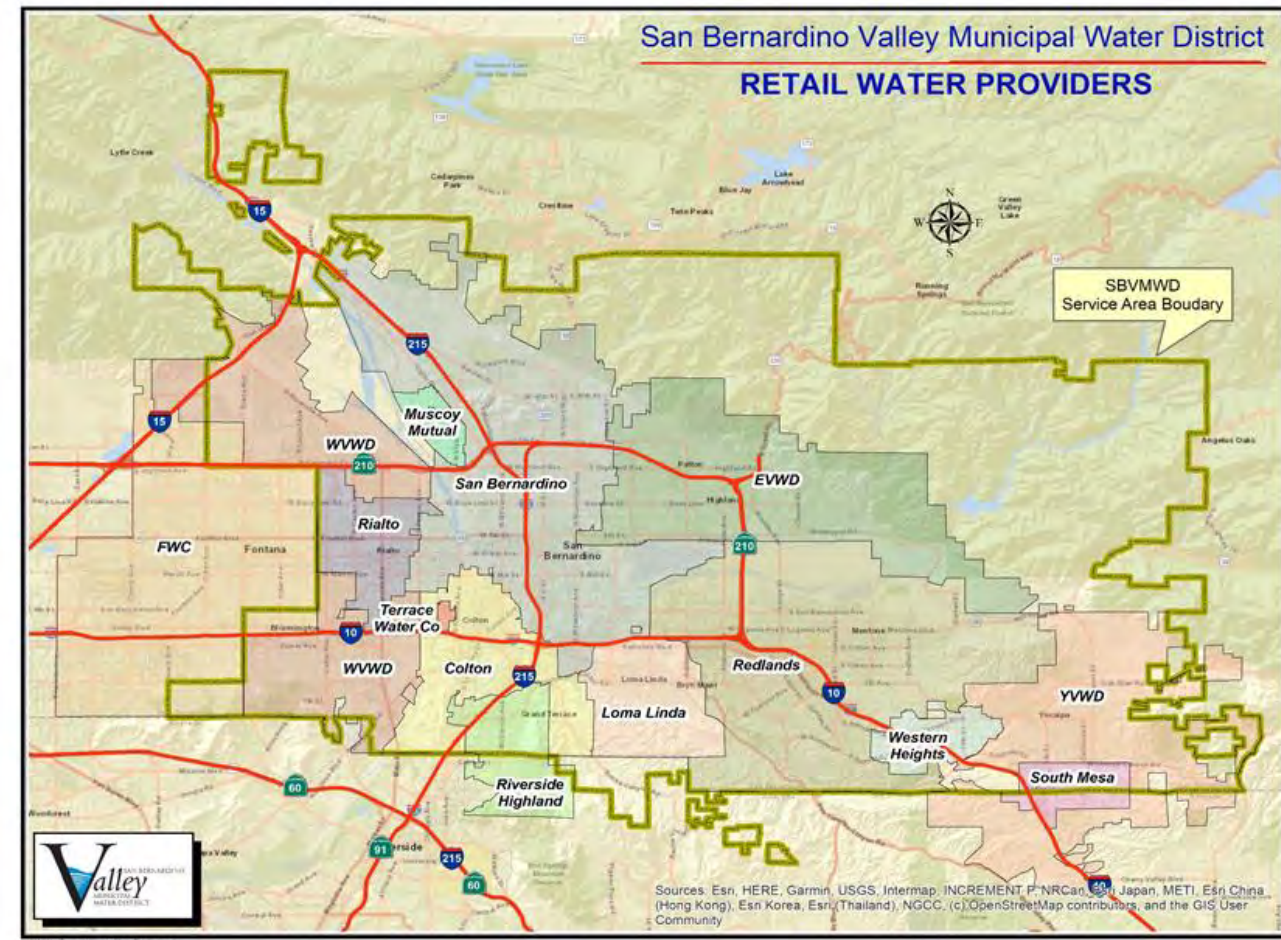
Chief Executive Officer/General Manager

heatherd@sبvmwd.com



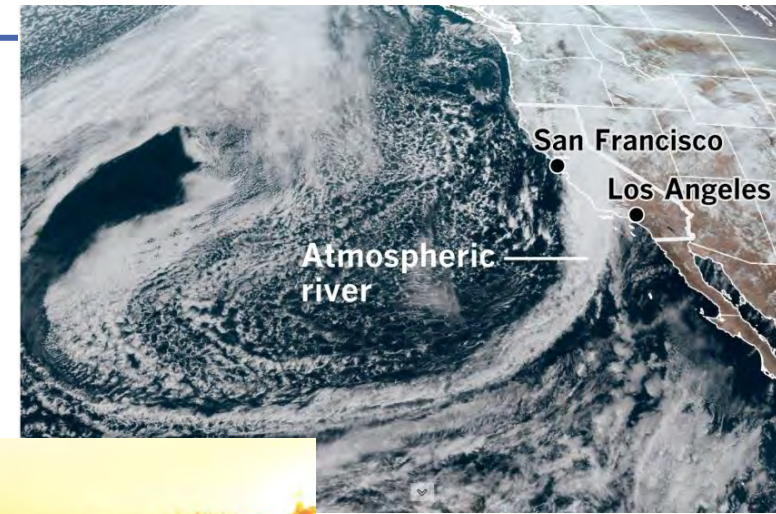
Who is Valley District?

- Water wholesaler, State Water Contractor
- Provide for the supplemental water needs of 710,000 people
- Governed by a five-member Board of Directors
- 31 staff; diverse technical specialists planning for future watershed resilience

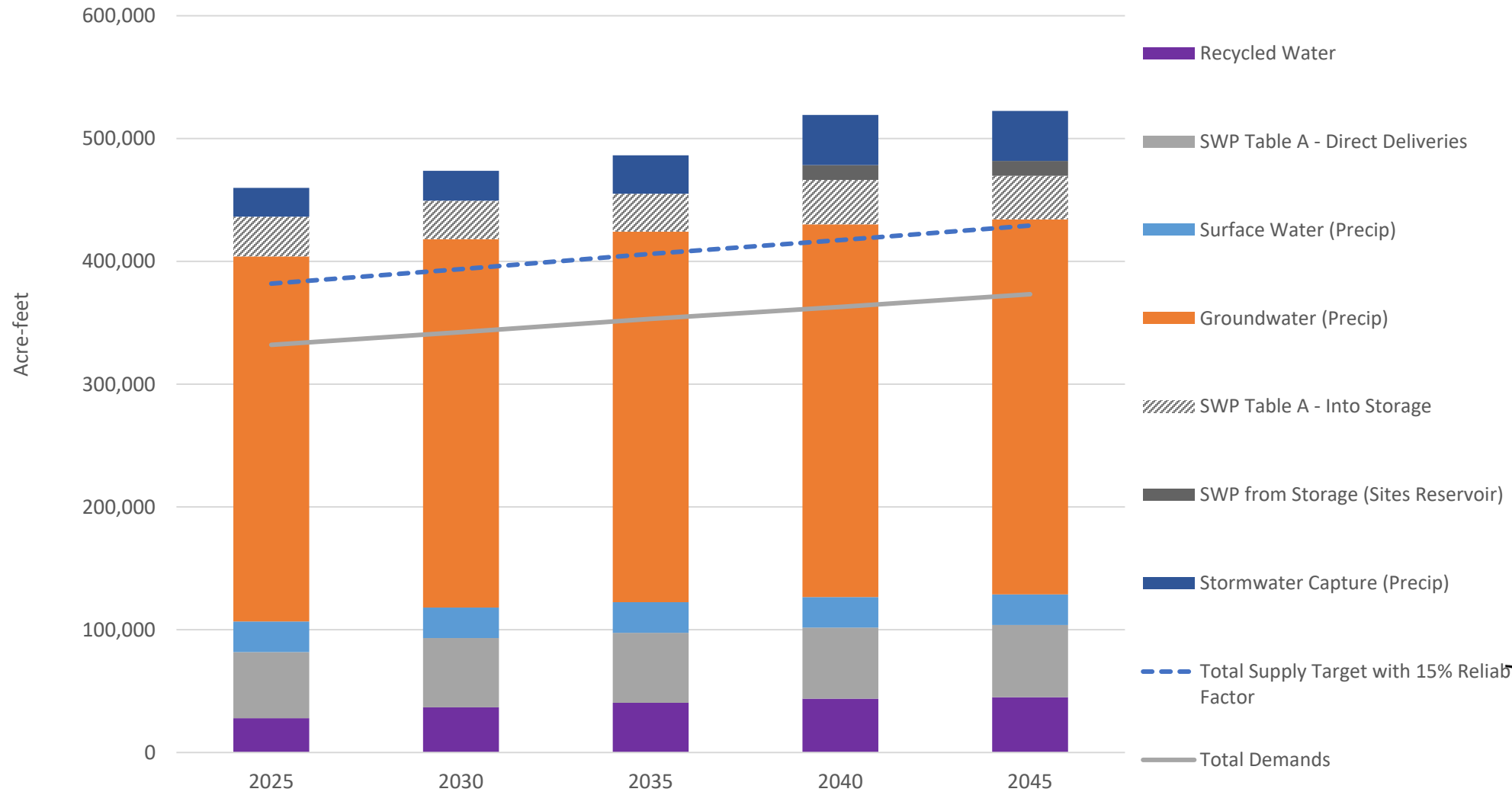


What we do...

- Ensure a reliable water supply to the region we serve, forever.
 - Resilience
 - Stewardship
 - Vision
 - Foresight
 - Strategy



Reliable Water Supply Portfolio



Proactive Water Resources Planning

- Stormwater capture – maximizing local resources
- Recycled Water – drought proof supply
- Conjunctive Use Projects – shared infrastructure/ shared resources
- Groundwater management – Proactive & adaptive



Current Collaborations

- **Enhanced Stormwater Capture/
Recharge Project**
- **Cooperative Groundwater
Recharge (Groundwater Council)**
- **Hydroelectric Facilities**
- **Local Resources Investment
Program**



Example 1: Local Resources Investment Program

- Financial incentive to retailers
 - New sources of supplemental water
- Projects include recycled water and stormwater capture
- Project I: East Valley Water District's Sterling Natural Resources Center
 - Up to 11,000-acre feet per year of recycled water
 - Demand Management Incentive: \$173/acre-foot of water saved



Future Collaborations

- Watershed Connect
- Regional Recycled Water System

Watershed
Connect



*Achieving resilience through
integrated infrastructure*



WATERSHED CONNECT

Achieving resilience through integrated infrastructure

- Interconnected and integrated funding opportunity
- A long-term funding tool for water infrastructure
 - ~\$600M worth of water infrastructure over decades
 - Capture, recharge, storage, treatment, and conveyance projects
 - Maximize use and reuse of local water resources
- Maximize value, offer synergistic benefits

Watershed
Connect

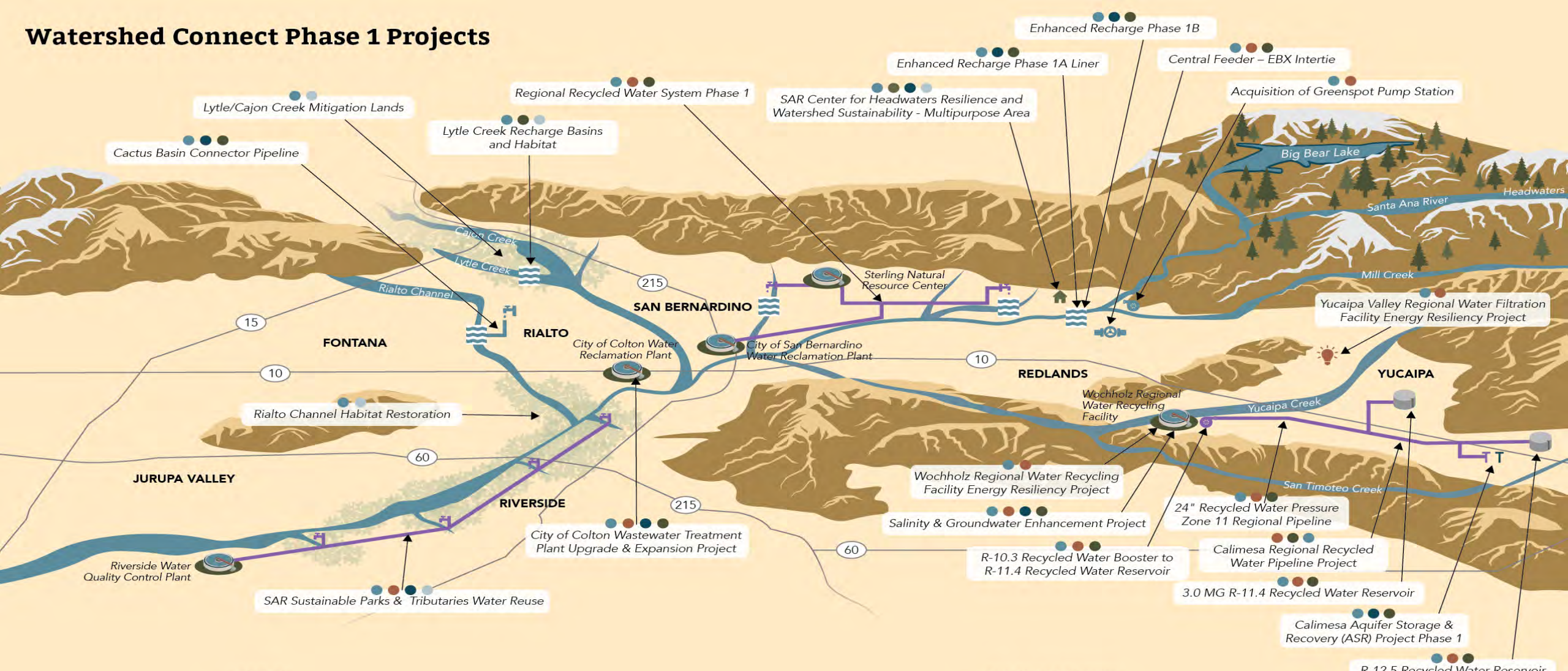


*Achieving resilience through
integrated infrastructure*



SAN BERNARDINO
Valley
MUNICIPAL
WATER DISTRICT

Watershed Connect Phase 1 Projects



LEGEND

- | | | | | | | | |
|--|-----------------------------|--|-----------------------------|--|-----------------------------|--|-------------------------------|
| | Wastewater Treatment Plant | | Natural Waterway or Channel | | Groundwater Recharge Basin | | Habitat Restoration Area |
| | Recycled Water Turnout | | Recycled Water Pipeline | | Recycled Water Pump Station | | Recycled Water Reservoir |
| | State Water Project Turnout | | Raw Water Pipeline | | Raw Water Pump Station | | Injection and Extraction Well |

PROGRAM BENEFITS

- | | | | | | |
|--|--|--|-----------------------------|--|--------------------|
| | Resilience in the Face of Climate Change | | Infrastructure Enhancements | | Drought Resiliency |
| | Improved Water Quality | | Ecological Health | | |



Benefits



Resiliency in the face of climate change: The collection of forward-looking recycled water, stormwater capture, groundwater storage, alternative energy, and ecosystem restoration projects will improve water supply security. Investments in alternative water supplies, emergency storage, and system redundancies enhance the regions' resilience to climate threats.



Infrastructure Enhancements: Modernization of existing infrastructure combined with new conveyance systems are planned to create enhanced water resources. Upgrades, including pipeline protection initiatives and solar energy projects, will reduce climate-related vulnerabilities and ensure reliable services during natural disasters.



Drought Resiliency: The program's ambitious stormwater capture, groundwater recharge, and water reuse projects position the region to sustain short and long-term droughts.

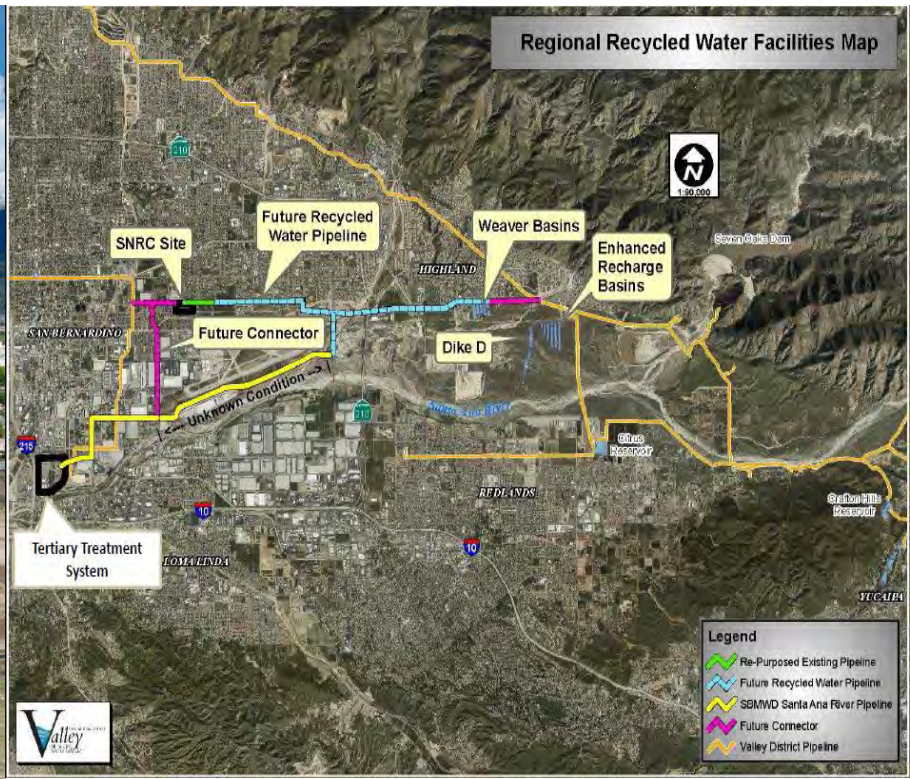


Improved Water Quality: Advanced treatment upgrades will improve regional water quality by reducing the amount of salt, nutrients, and emerging contaminants introduced to surface waters and groundwater basins. Proposed stormwater capture and treatments projects will produce high-quality water for blending with groundwater supplies high in total dissolved solids.



Ecological Health: The proposed habitat mitigation and restoration initiatives enhance the health of the Upper SAR Watershed, supporting the region's urban, environmental, recreational, and economic needs.

Future Collaborations - Regional Recycled Water System



Questions?

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909-387-9200

SBVMWD.com

Facebook.com/SBValleyDistrict

Twitter.com/SBVMWD

LinkedIn



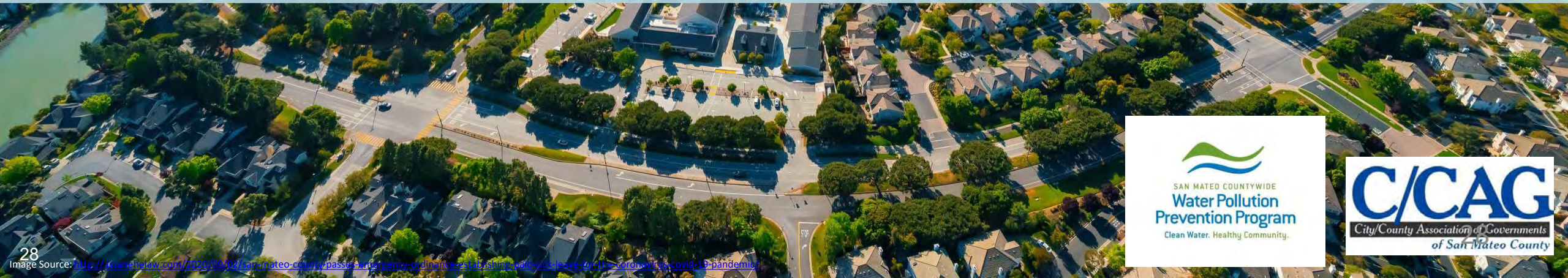
City/County Association of Government's Countywide Green Infrastructure Funding Evaluation





Advancing Regional-Scale Stormwater Management in San Mateo County

BAWSCA WATER SUPPLY RELIABILITY ROUNDTABLE – June 28, 2022





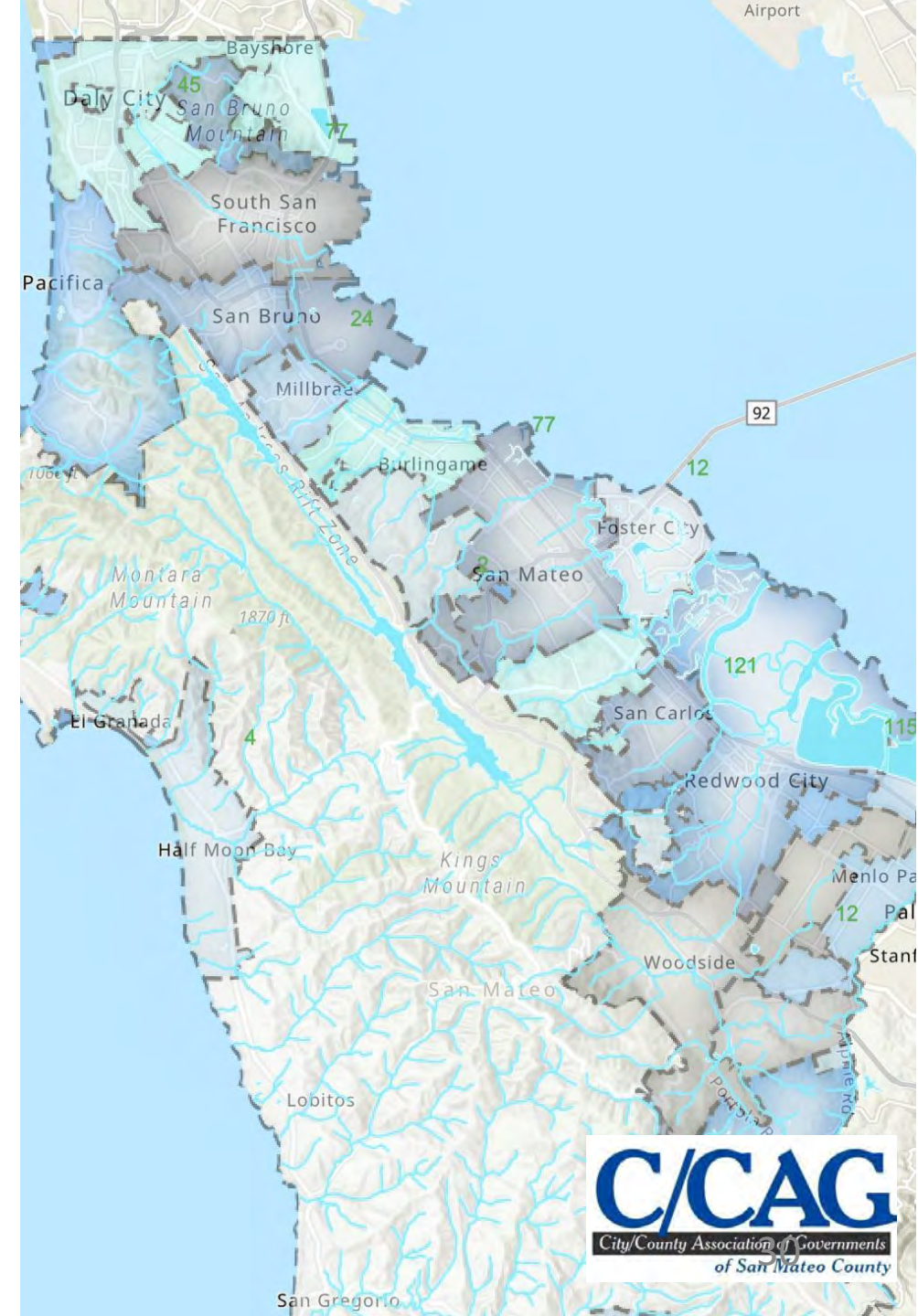
1. SMC Regional Collaborative Program Development
2. Funding and Financing Options
3. Pilot Program – South San Francisco Regional SW Project
4. Q&A

SMCWPPP Background

The Countywide Stormwater Program has provided technical assistance to C/CAG's 21 member agencies and One Shoreline in compliance with state-mandated municipal stormwater regulations since the early 1990s

Focus Areas:

- Local, countywide and regional compliance support
- Funded by countywide property fee (\$1.5M) and \$10 vehicle registration fee (\$1M)
- Focus on key pollutants:
 - Trash
 - PCBs/mercury
 - Pesticides
 - Emerging Contaminants



Stormwater Management Scales

Parcel-Scale

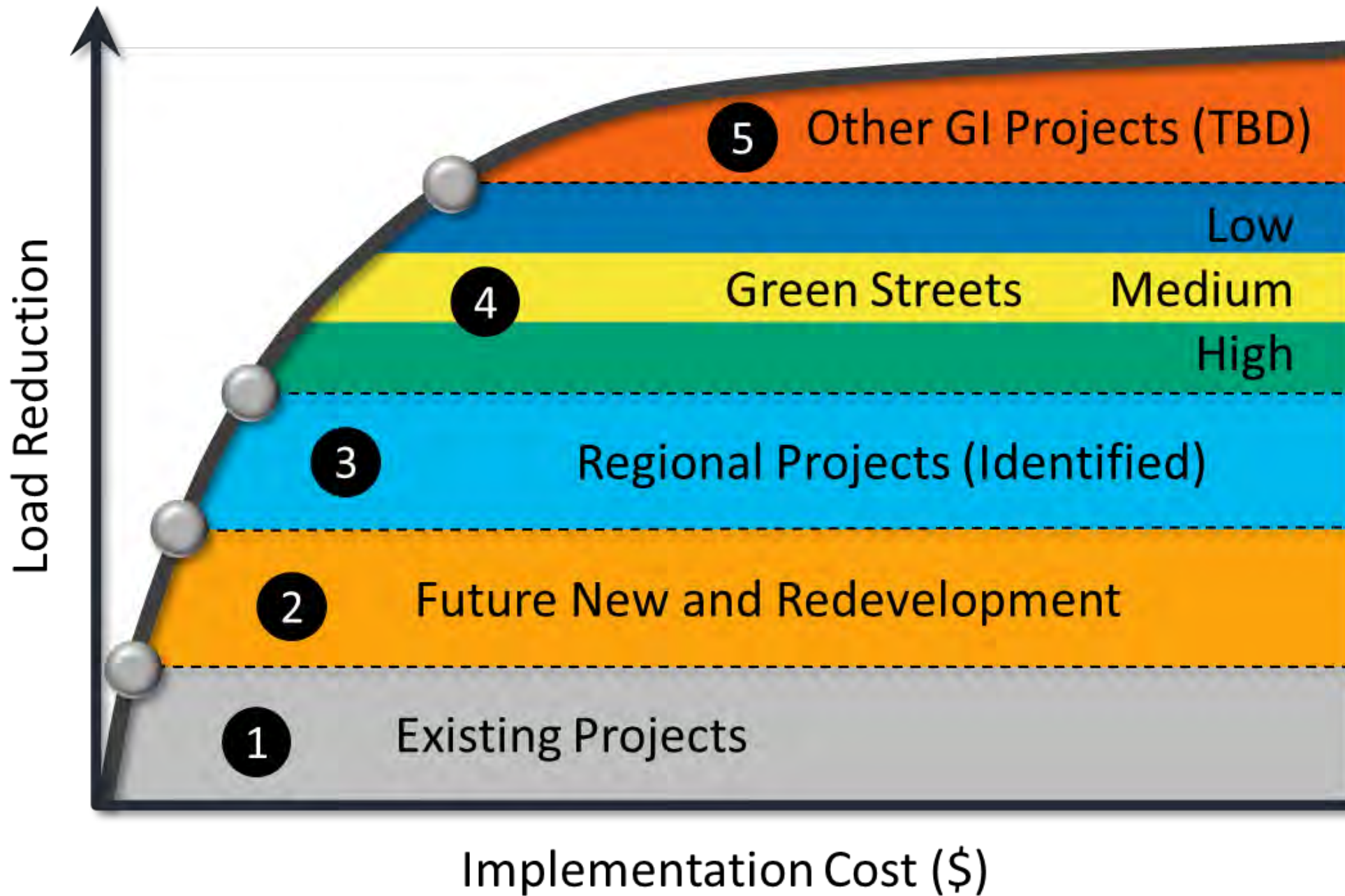


Green Streets



Regional Projects





Modeling Towards Collaboration

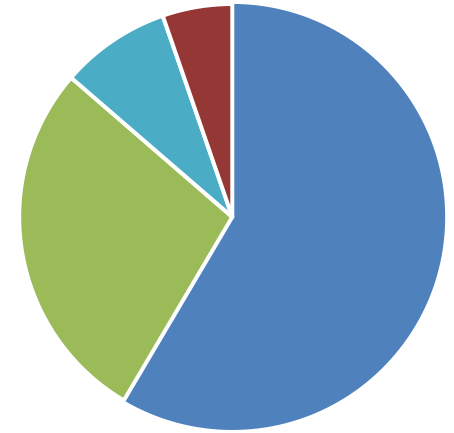
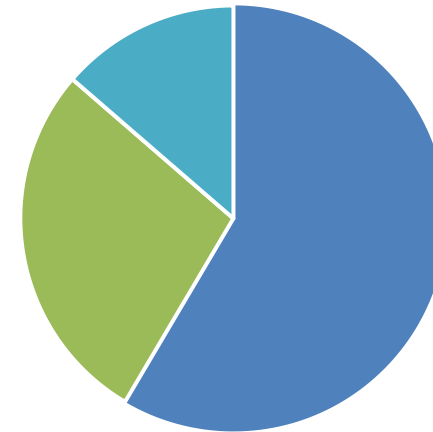
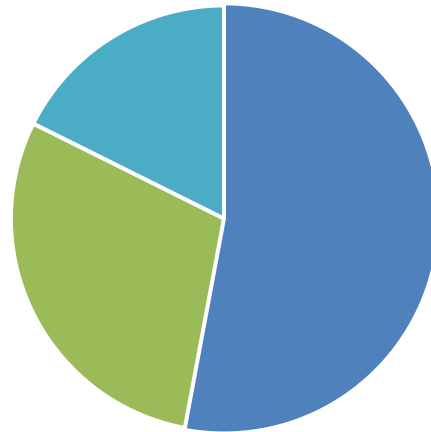
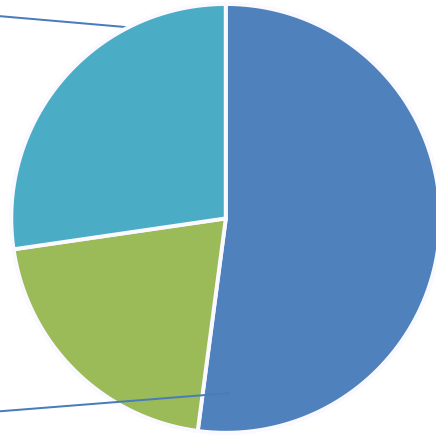
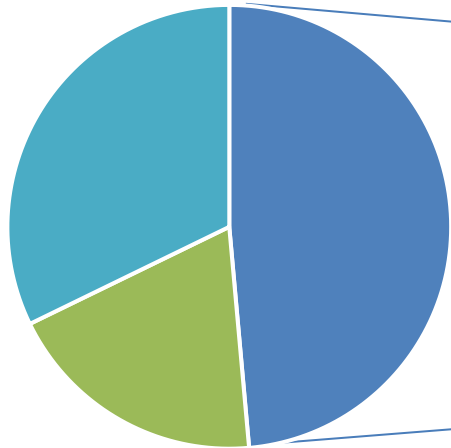
All for One
(Each Agency does share)

One for All
(Target efforts
countywide)

Advance Regional
Projects (OneShoreline)

More Parcel GI
(Require more projects
do GI)

Green Streets with
Parcel GI (projects do
green streets)



- Parcel GI
- Regional Projects
- Green Streets

- Parcel GI
- Regional Projects
- Green Streets

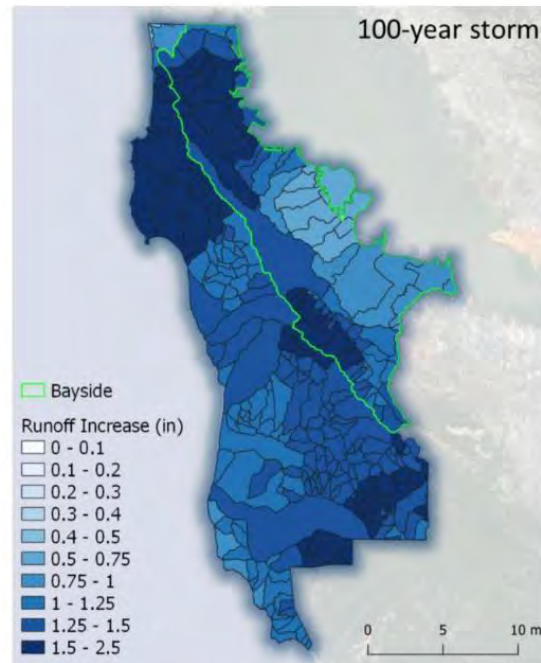
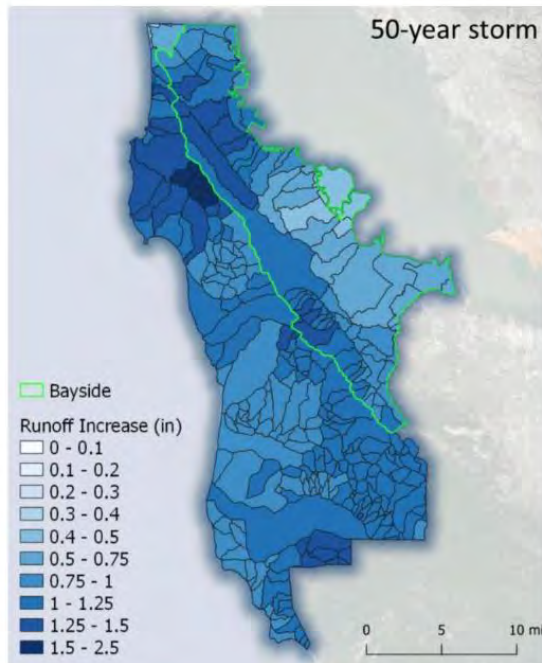
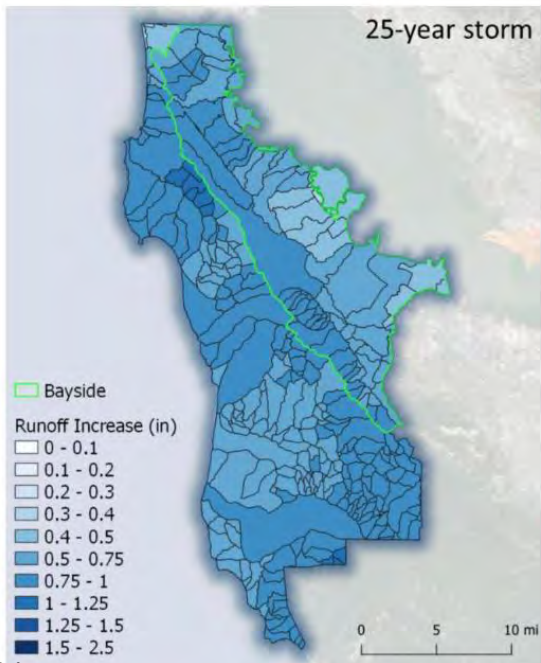
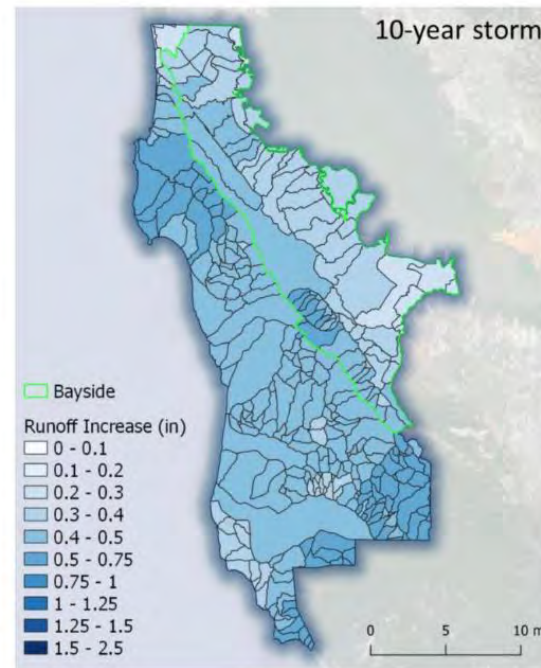
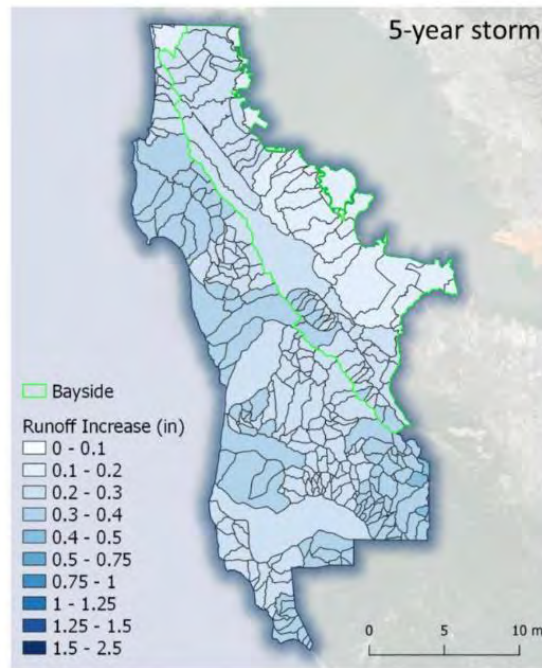
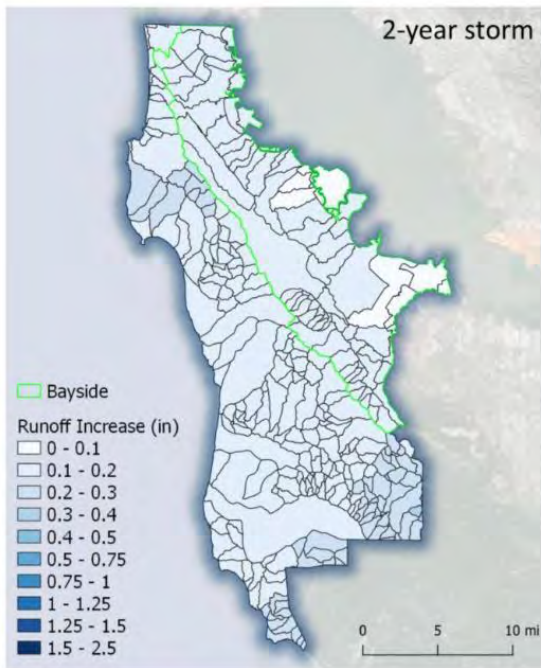
- Parcel GI
- Regional Projects
- Green Streets

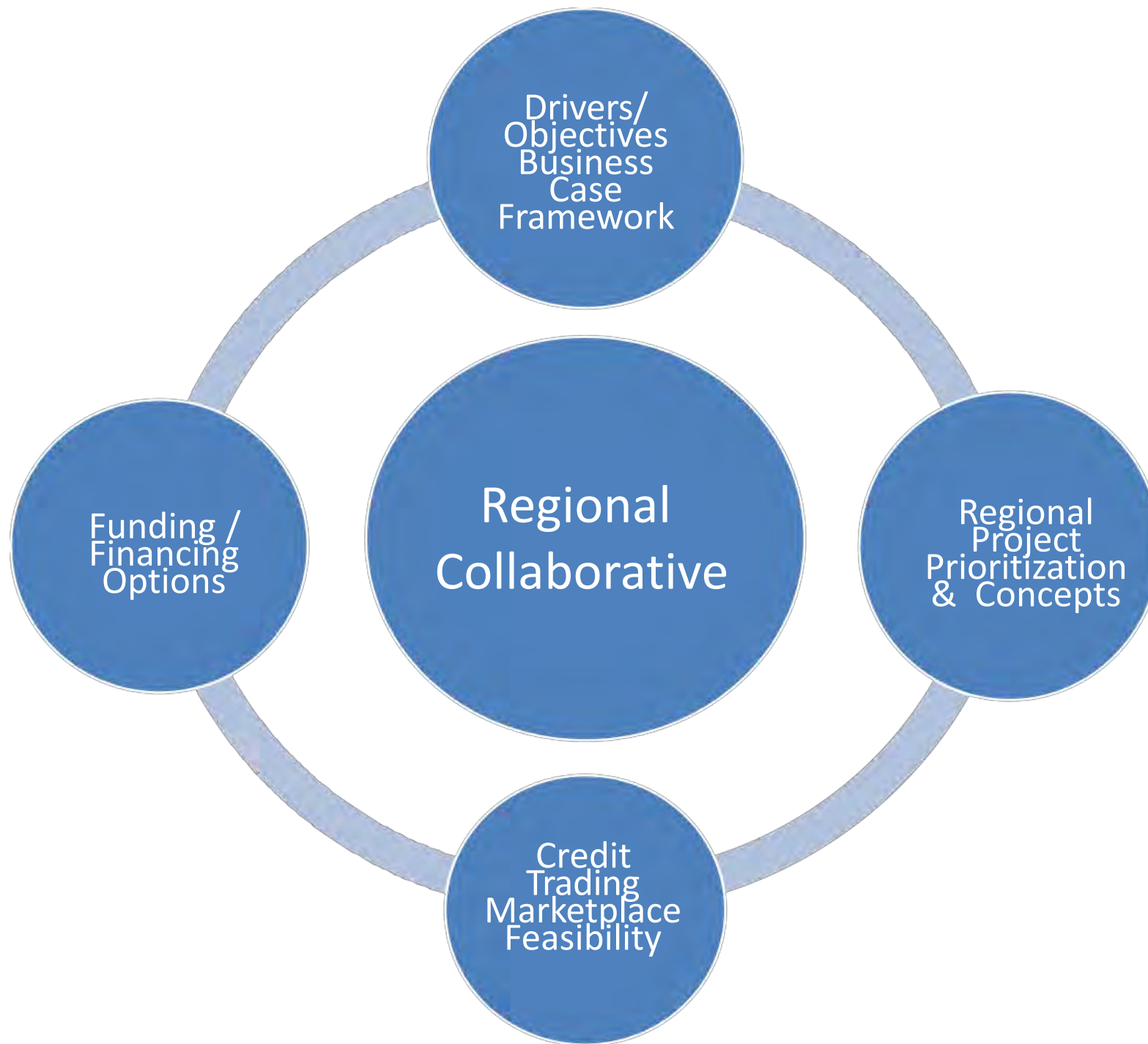
- Parcel GI
- Regional Projects
- Green Streets

- Parcel GI
- Regional Projects
- Public Green Streets
- Privately-Funded Green Streets

Climate Change

- Modeled countywide changes in precipitation using 10 Climate Change Models from CalAdapt at an 8.5 RCP and downscaled to countygrid
- 24% increase in storm depth for a future 10-year storm on bayside





Advancing Regional-Scale SW Management in SMC Project Partners

Broad group of stakeholders who likely represents the overall program development in future years

TAC Members:

- C/CAG, San Mateo County Office of Sustainability
- C/CAG Stormwater Committee (Member Agencies)
- Flood and Sea Level Rise Resiliency District
- Bay Area Water Supply & Conservation Agency
- Silicon Valley CleanWater
- Regional Water Quality Control Board
- Consultant Team Members





Drivers and Objectives for Regional Stormwater Management

Multi-benefit with a focus on cost-efficiency

D1 – Limited Resources

D2 – Existing Stormwater Infrastructure Deficiencies

D3 – Water Quality



















D4 – Climate Resiliency

D5 – Beneficial Use of Stormwater

D6 – Equity and Community Engagement

PROJECT OBJECTIVE

BUSINESS CASE FINDINGS FOR REGIONAL COLLABORATIVE SCENARIO

 More efficiently use limited resources	 Average cost savings of approximately 60% to 75% per acre greened
 Support improvements to alleviate strain on existing stormwater infrastructures	 Additional opportunities for projects to provide flooding alleviation
 Cost effectively comply with water quality regulatory requirements PCBs	 Estimated cost savings of 75% to 95+% to achieve equivalent PCBs load reduction through GSI
 Cost effectively comply with water quality regulatory requirements ACRES GREENED	 Estimated cost savings of approximately 70% to 75% to provide equivalent acres greened along with reduced ongoing inspection costs
 Cost effectively comply with water quality regulatory requirements TRASH	 Roughly equivalent to jurisdiction-by-jurisdiction scenario based on available data and analysis
 Supplement county water supply portfolio with stormwater, where feasible	 Opportunities for water supply to offset project costs
 Consider and, where appropriate, design for projected future impacts resulting from climate change	 Estimated cost savings of 60% to 70% for equivalent climate change impact offset
 Consider local community benefits and concerns in project implementation	 Qualitative analysis, equivalent or better to jurisdiction-by-jurisdiction based on assessment
 Site and design projects to equitably serve and protect communities	 Qualitative analysis, equivalent or better to jurisdiction-by-jurisdiction based on assessment
 Maximize other benefits , where possible	 Qualitative analysis, equivalent or better to jurisdiction-by-jurisdiction based on assessment

Regional Project Identification Process

Project Identification & Characterization

Model & Size

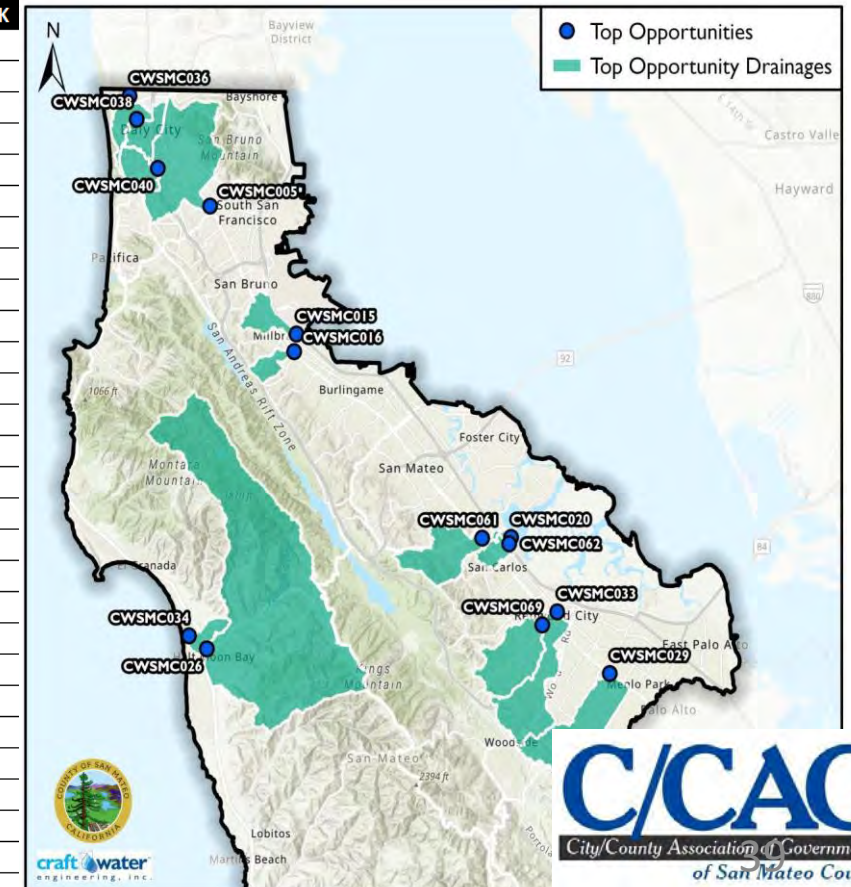
Calculate Stats & Metrics

Rank & Prioritize

Project Screening & Engineering Review

Project Performance & Prioritization

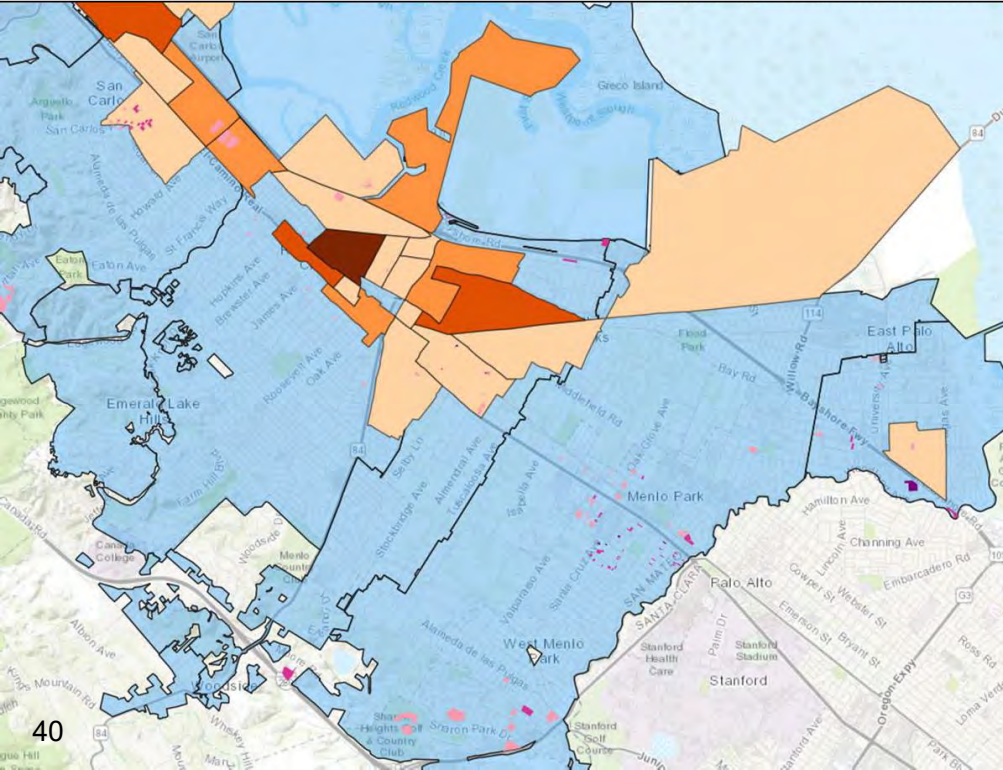
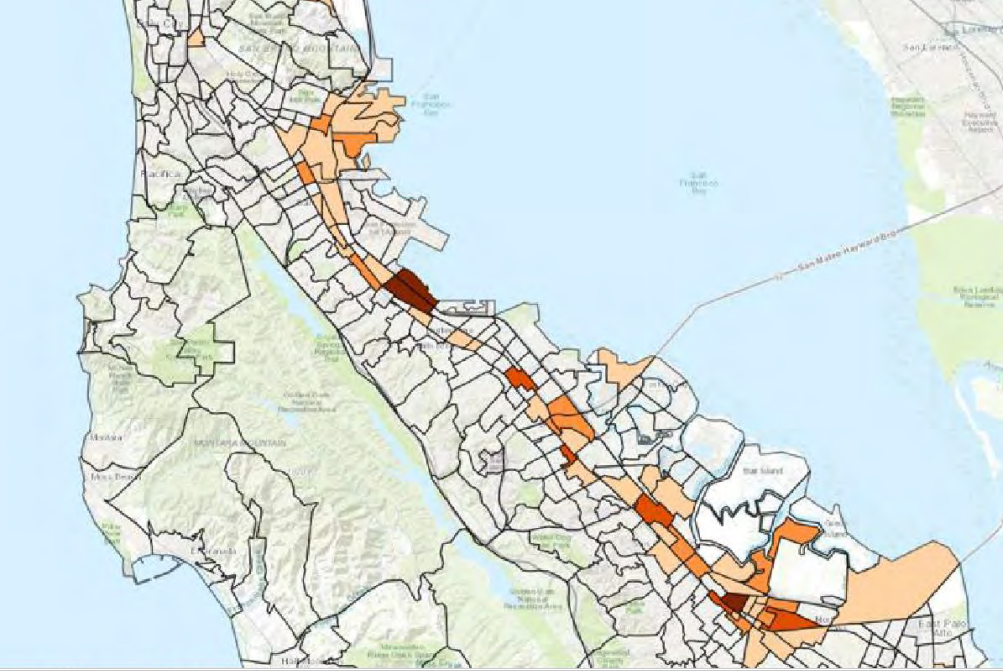
PEAKRDX_RANK	VOLRDX_RANK	PCBRDX_RANK	GRNAC_RANK	VOLMAN_RANK
40	1	1	2	4
40	28	2	20	34
19	22	3	23	42
40	8	4	29	18
40	2	5	1	3
40	3	6	3	5
40	9	7	5	7
40	6	8	17	11
40	4	9	7	9
40	12	10	4	6
40	11	11	26	19
13	27	12	30	31
40	7	13	10	10
40	35	14	35	33
40	14	15	15	12
30	32	16	49	37
29	31	17	46	32
40	10	18	13	14
40	13	19	21	22
4	46	20	42	29
31	43	21	52	41
40	16	22	27	24
40	30	23	6	8
40	24	24	8	13
40	20	25	12	17
40	15	26	11	16
40	18	27	9	23



Credit Trading Feasibility Analysis

Is there demand for a credit trading program in San Mateo County?

- Demand – New/Redevelopment projections +feasibility/constraints
- Supply – Non-residential sites with some amount of pervious area/space for GI + co-benefits (non-regional project drainage, good soil drainage, flood prone areas, potential to recharge, etc.)





Funding and Financing Green Stormwater Investments

Evaluating innovative approaches

- Non-balloted approaches
- Enhanced Infrastructure Financing Districts

Looking to leverage C/CAG and/or Partners

- C/CAG as a JPA
- One Shoreline
- BAWSCA and/or member agencies

HYPOTHETICAL: investing in Countywide GSI

Hypothetical spending plan over the next 20 years

- \$150M in regional-scale
- \$28.5M in parcel-scale
- \$71M in O&M

Total = \$250M

Exploring PayGo vs. Debt based on \$10M annual revenue

- PayGo - shortfall to meet spending plan until year 12
- Debt – financing \$178.5M in capital costs meets spending plan in year 1 and could save \$64 million over the first 20 years

Non-Balloted Stormwater Fees



- Property-related stormwater fee to fund
 - ✓ Capital improvements
 - ✓ Ongoing O&M
- A novel fee type supported by SB 231
- Legal authority may include ability to fund regional- and parcel-scale GSI
- Can serve as security for debt-financing options to pay for capital projects

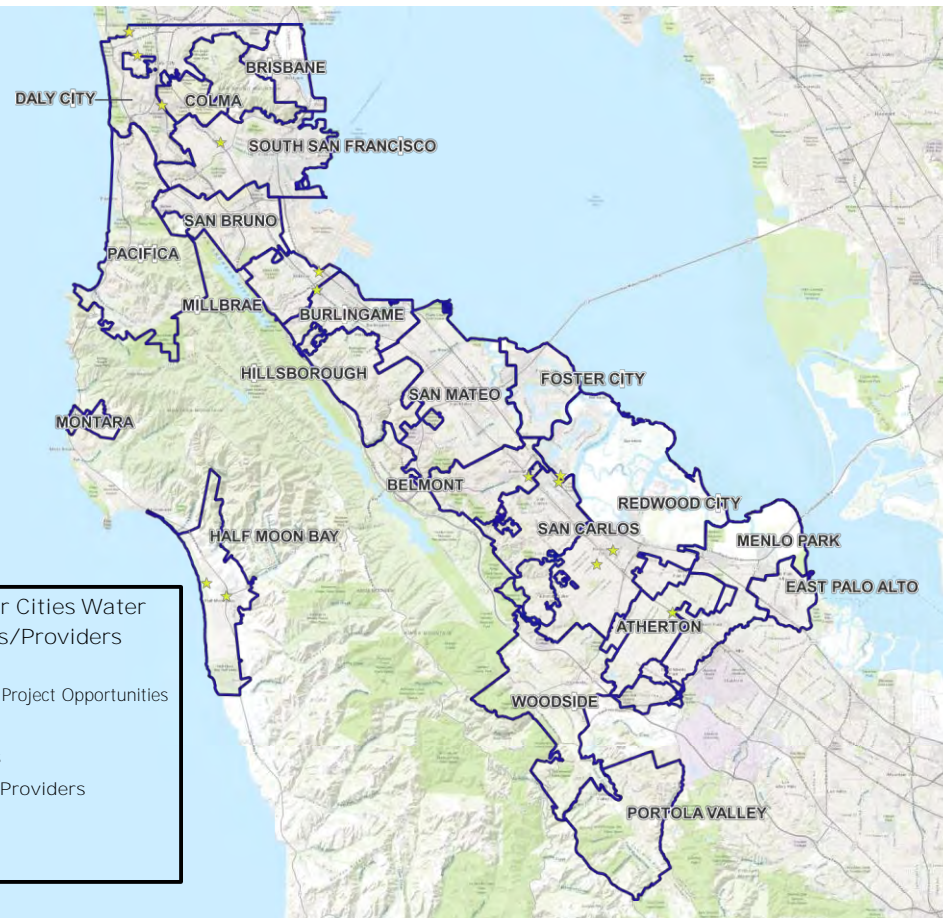
Enhanced Infrastructure Financing District

- Establishes a multi-jurisdictional district to capture property tax increment revenues within the district
 - ✓ \$61M estimated for San Mateo County over the next 20 years based on 1% tax increment
- Revenues for capital improvements only
- Legal authority may include ability to fund regional- and parcel-scale GSI
- Can serve as security for debt-financing options to pay for capital projects



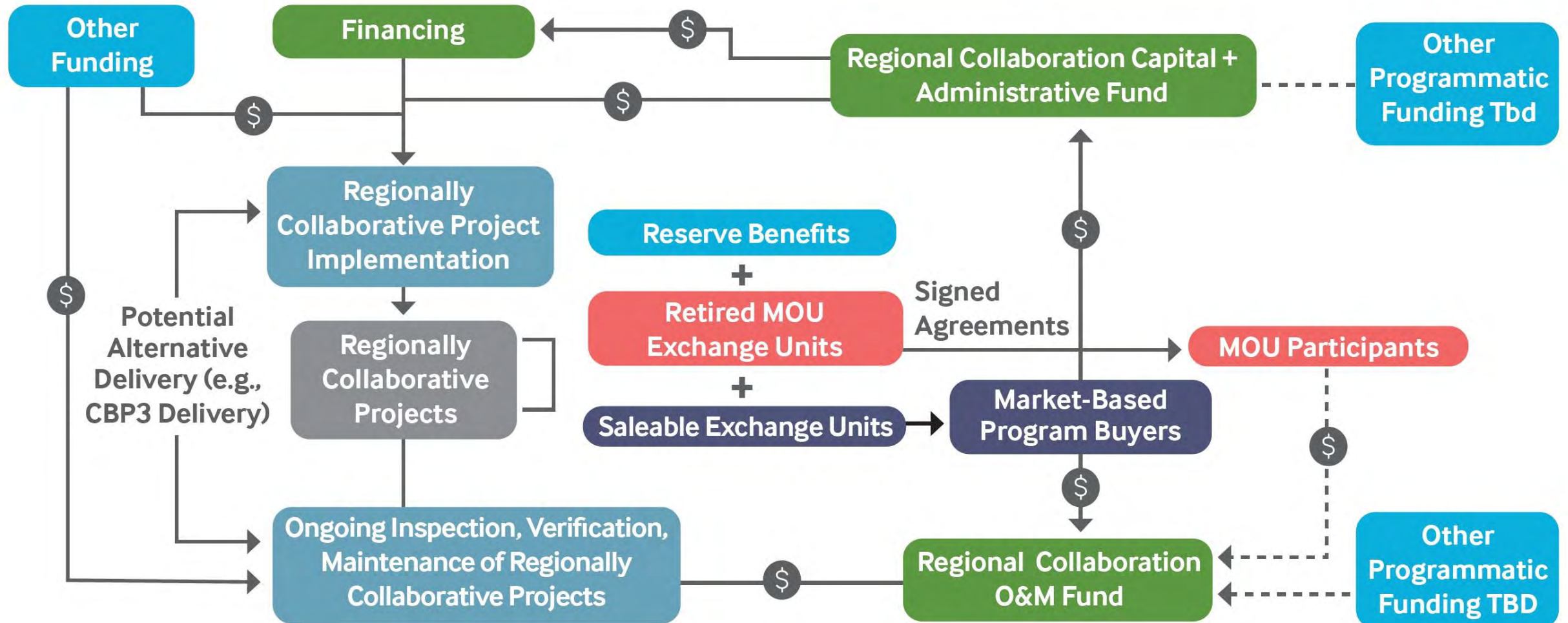
Water and Wastewater Rates

- Co-fund multiple benefit GSI projects with water and wastewater rates
- Potential GSI projects identified provide water supply and wastewater/sewer benefits
- Depending on agency type legal authority may include ability to fund regional- and parcel-scale GSI projects
- Can serve as security for debt-financing options to pay for capital projects



REGIONAL COLLABORATIVE

Geosyntec developed a Countywide Regional Collaborative framework with input from the project Technical Advisory Committee, which highlights the project's findings:



Regional Scale



Orange Memorial Park Regional Project (SSF)

- Completed June 2022
- 7 jurisdictions/6,500 acres
- First in the region
- \$15.5M from Caltrans

Benefits

- 640 acre-feet/year volume managed
- 240 acre-feet/year recharged
- 15MG/year non-potable reuse
- New athletic field



Groundbreaking ceremony



Pretreatment structure



Ultrafiltration system



Underground storage excavation



Underground storage module assembly

Concrete at Grit Chamber



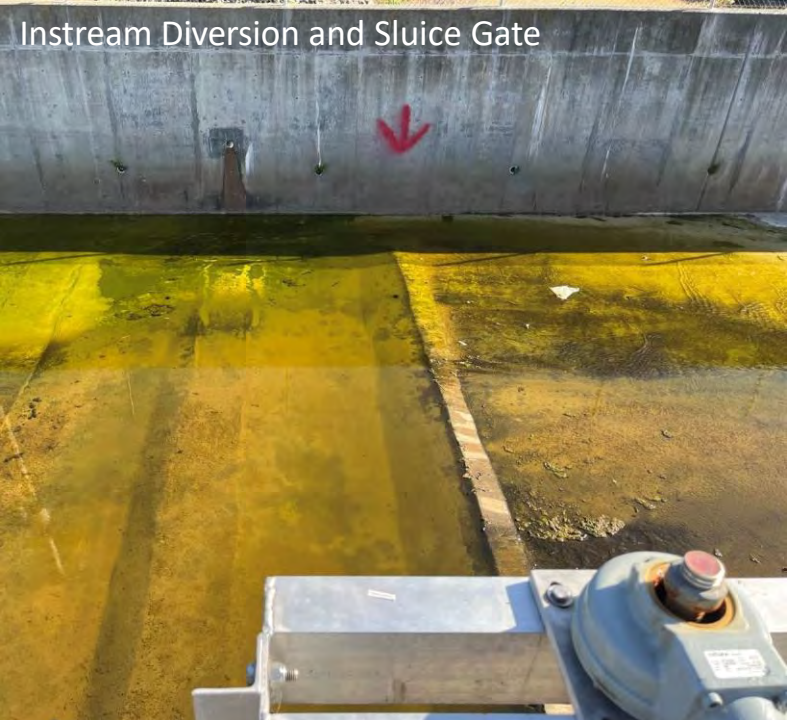
Instream Water Diversion
at Grit Chamber



Concrete Forms at Flow Splitter



Sawcut at Sluice Gate



Instream Diversion and Sluce Gate



Vents over Pretreatment Structure



Restored Picnic Area with Signage



Water Reuse Treatment Building



UV Disinfection System



Storage under Future Ballfield

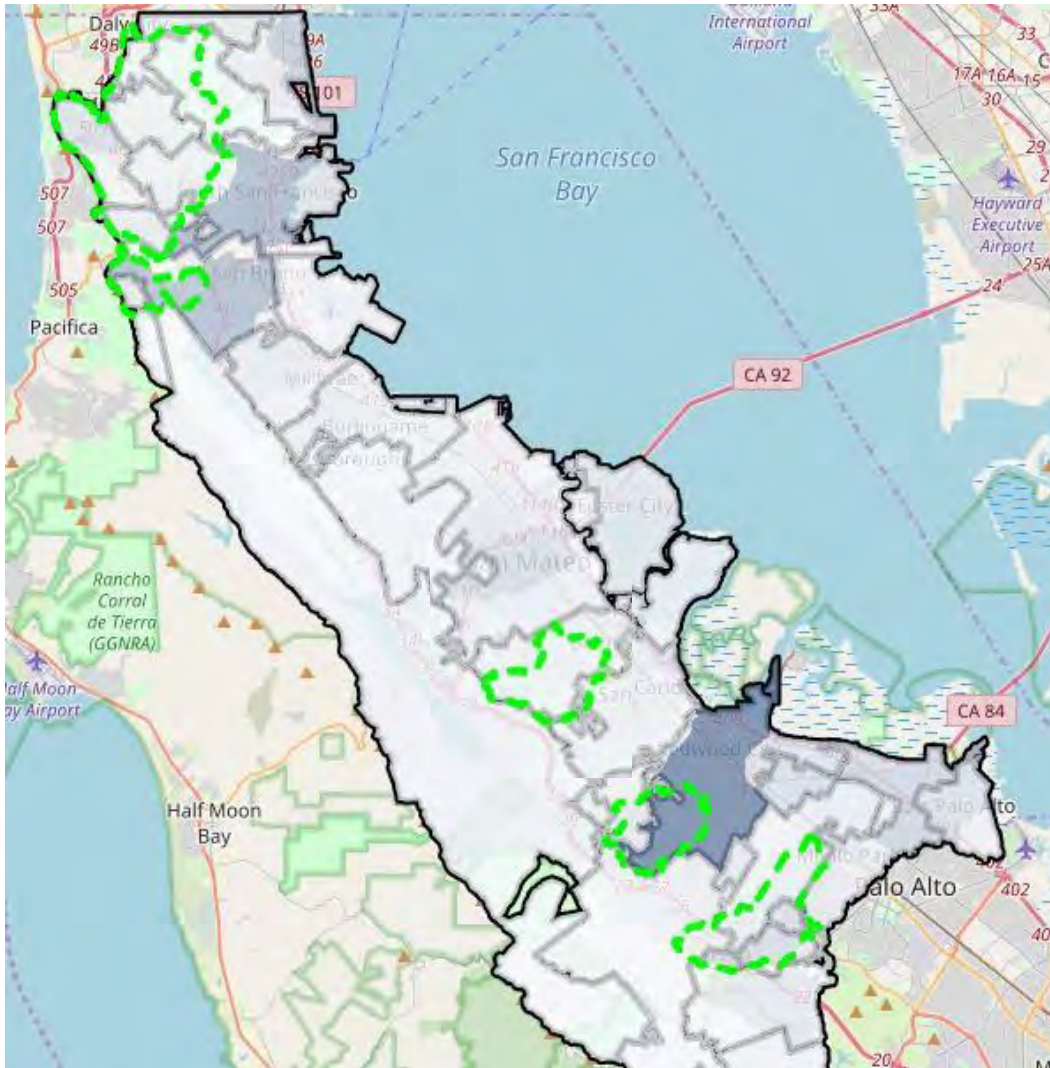
Model for Collaboration and Cost-sharing

GSI Retrofit Requirements

- Each Permittee **“shall** implement, or cause to be **implemented”** green stormwater infrastructure (GSI) based on population.
- Table H-1 in the MRP shows the **“greened acres”** requirement by city and countywide.

Table H-1 from the Tentative Order

Permittee	2019 US Census Bureau Population Estimate	MRP 3 GSI Retrofit Assignment (acres)	% of Total	County Total (acres)
Atherton	7,137	0.43	1.0%	43.30
Belmont	26,941	1.62	3.7%	
Brisbane	4,671	0.28	0.6%	
Burlingame	30,889	1.85	4.3%	
Colma	1,489	0.20	0.5%	
Daly City	106,280	5.00	11.5%	
East Palo Alto	29,314	1.76	4.1%	
Foster City	33,901	2.03	4.7%	
Half Moon Bay	12,932	0.78	1.8%	
Hillsborough	11,387	0.68	1.6%	
Menlo Park	34,698	2.08	4.8%	
Millbrae	22,394	1.34	3.1%	
Pacifica	38,546	2.31	5.3%	
Portola Valley	4,568	0.27	0.6%	
Redwood City	85,925	5.00	11.5%	
San Bruno	42,807	2.57	5.9%	
San Carlos	30,185	1.81	4.2%	
San Mateo	104,430	5.00	11.5%	
San Mateo County	64,832	3.89	9.0%	
South San Francisco	67,789	4.07	9.4%	
Woodside	5,458	0.33	0.8%	



How to Scale-Up?

Once we have a pilot phase of a Collaborative Program in place, the next phase will be to expand project opportunities and partners

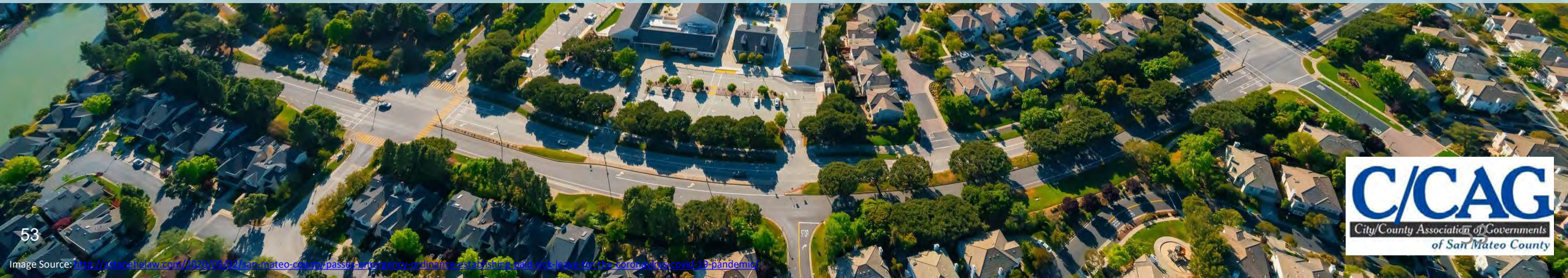
Projects currently in design/completed

- Orange Memorial Park (SSF) – completed
- I-280/I-380 Interchange (San Bruno)
- Twin Pines Park (Belmont)
- Red Morton Park (Redwood City)
- Menlo Collage (Atherton/not pursued)



Any Questions?

Reid Bogert, Senior Stormwater Program Specialist, rbogert@smcgov.org



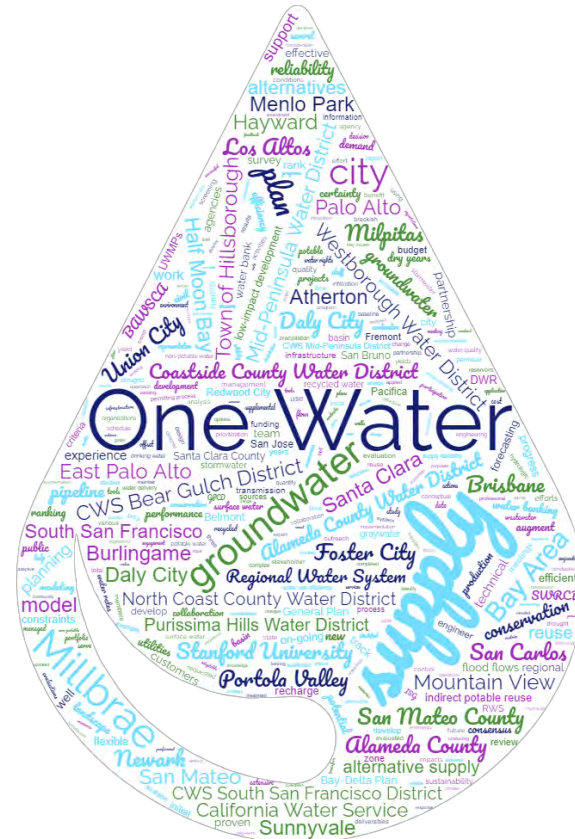
What funding sources/models are you excited to learn more about in support of One Water projects?



Type your message into the chat.



After 1 minute, everyone will hit "send" together.



Breakout Session and Report Out

Keep your showers short

Every minute uses a gallon more

START

TIMER DONE

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy**
Regional Water System
Services of the San Francisco Public Utilities Commission

bawsca.org/conserve

Session Format

- You each will be assigned and moved to a breakout room at random
- The BAWSCA/EKI team will facilitate each breakout room discussion
- The session will be interactive, utilizing an approach that asks each participant to type directly onto the screen / slides shown as we move through the discussion
- At the conclusion of the breakout session, we will regroup and report out
- 30 minutes is reserved for the breakout session

Plan for Next Roundtable Workshop



Turn off the faucet while you brush

We're in a drought, cut waste out.

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Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
Service of the San Francisco Public Utilities Commission

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Roundtable Workshop 3

- What projects and programs is your agency developing and/or implementing
- Project and program information sharing is critical for developing partnerships and identifying multi-benefits
- Our region can benefit by learning what One Water projects are in the works locally



Workshop 3 Identifying Local “One Water” Projects

- Date: September 20, 2022; 1PM - 3PM, Zoom meeting (although may be in-person if conditions warrant)
- Share your organization’s planned or potential One Water projects with the group, whether they’re in the early stages of planning, or a mere twinkle in your eye. With all local projects on the table, we can begin to identify real and meaningful opportunities for One Water collaborations and funding opportunities. If conditions allow, a networking mixer will follow the Roundtable Workshop.

Project Information Form Overview





Workshop 1

Demystifying the One Water Concept

- Date: May 24, 2022; 10AM-12PM, Zoom Meeting
- We will demystify the One Water Concept and explore how it can be applied to the BAWSCA region. Speakers will provide an overview of the One Water Concept and examples of successful implementation.



Workshop 2

Regional Partnerships Mean Regional Funding

- Date: June 28, 2022; 10AM – 12PM, Zoom Meeting
- We will focus on how regional partnerships can be leveraged for a variety of regional funding solutions. Speakers will discuss regional funding models that have been employed in the Bay Area and Southern California to bring projects into reality.



Workshop 3

Identifying Local One Water Projects

- Date: September 20, 2022; 1PM - 3PM, Zoom meeting (although may be in-person if conditions warrant)
- Share your planned or potential One Water projects with the group, whether they're in the early stages of planning, or a mere twinkle in your eye. With all local projects on the table, we can begin to identify real and meaningful opportunities for collaborations and funding opportunities. If conditions allow, a networking mixer will follow the Roundtable Workshop.



Workshop 4

Moving Forward!

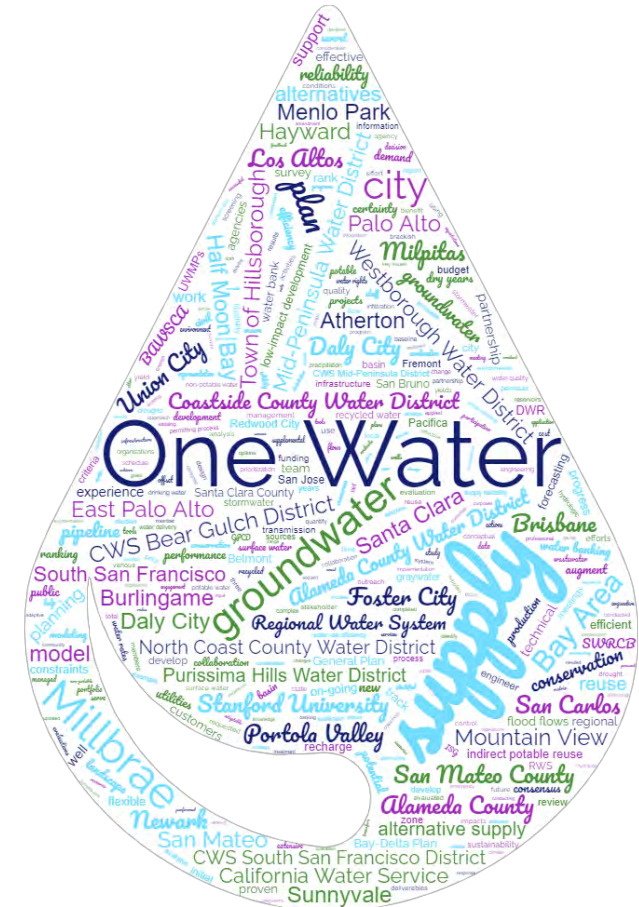
- Date: TBD Oct. 2022, In-Person
- We will spend some more time exploring and summarizing local and regional One Water projects and concepts, as well as discuss potential next steps. If conditions allow, a networking mixer will follow the Roundtable Workshop.



One Water Roundtable Series

Project Information Form (PIF) Purpose

- Identify local and/or regional One Water projects/programs in planning or development
- Potentially identify opportunities to support or expand implementation



PIF Components

- 1 Contact Details
- 2 Detailed Description of Project
- 3 Cost / Funding Information
- 4 Scheduling Information
- 5 Additional Details



1. Contact Details

What is the name of your project?

Project Name

Click or tap here to enter text.

Agency

Click or tap here to enter text.

Agency Primary/Lead Name & Contact Information

Enter name and credentials here.

Enter phone number here.

Enter email address here.

Tell us what agency you are from

Give the contact information of the primary point of contact for the project



2. Detailed Description of Project

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>Click or tap here to enter text.</p>
<p>Provide the location, if applicable.</p> <p>Click or tap here to enter text.</p>
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>Click or tap here to enter text.</p>

The more details the better!

Are the outcomes of this project going to be felt agency/county/region wide? Or have a more local impact?

Quantify the beneficial outcome of this project in terms of acre-feet per year or MGD, whether that be from reduced demand, or added supply



2. Detailed Description of Project

PROJECT DESCRIPTION	
Project type (check all that apply).	
<input type="checkbox"/> Surface Water	Water Demand Reduction
<input type="checkbox"/> Transfer	<input type="checkbox"/> Conservation
<input type="checkbox"/> Groundwater (Recharge)	<input type="checkbox"/> Land/Water Use Changes
<input type="checkbox"/> Stormwater	<input type="checkbox"/> Infrastructure/Capital Project
<input type="checkbox"/> Recycled Water (potable)	<input type="checkbox"/> Data Gap Filling/Monitoring
<input type="checkbox"/> Indirect potable reuse	<input type="checkbox"/> Policy Project
<input type="checkbox"/> Direct potable reuse	<input type="checkbox"/> Water Quality Improvement
<input type="checkbox"/> Recycled Water (non-potable)	<input type="checkbox"/> Other: Click or tap here to enter text.
<input type="checkbox"/> Other: Click or tap here to enter text.	
Source of Outside Water (if applicable):	
Click or tap here to enter text.	
Provide regulatory/legal authority requirements (describe all that apply).	
Permits (name of authority, type of permit):	
Click or tap here to enter text.	
California Environmental Quality Act (CEQA):	
Click or tap here to enter text.	
Other:	
Click or tap here to enter text.	

Give specifics on the type of supply augmentation and/or demand reduction involved in the project

Identify regulatory/legal authority requirements



3. Cost Information

What will be the capital and/or upfront cost of the project?

What sources will fund those capital and/or upfront costs?

How much will the annual operations and maintenance (O&M) cost be per year?

How will those O&M costs be funded?

COST INFORMATION
Provide capital/up-front cost (\$). Click or tap here to enter text.
Provide source(s) of funding for above capital/up-front cost. Click or tap here to enter text.
Provide Operations and Maintenance (O&M)/on-going cost (\$ per year). Click or tap here to enter text.
Provide source(s) of funding for above O&M/on-going cost. Click or tap here to enter text.



4. Scheduling and Timing Information

When is the project expected to be implemented?

When will expected supply and/or demand benefits be realized?

SCHEDULE/TIMING INFORMATION
<p>Provide expected kickoff/start date.</p> <p>Click or tap here to enter text.</p>
<p>Provide timeframe to accrue expected supply/demand/other quantifiable benefits.</p> <p>Click or tap here to enter text.</p> <p>Or, <input type="checkbox"/> Add as an attachment</p>



5. Additional Details

ADDITIONAL DETAILS
<p>Provide as necessary.</p> <p>Click or tap here to enter text.</p>

Opportunity to give any information you think would be important to know, wasn't asked of in the form, or would help clarify other responses in the form



PIF Process and Schedule

Fillable PIF will be sent out by BAWSCA after this Workshop and posted on its website

Form will be due by August 26th

BAWSCA and EKI will compile the responses

Workshop #3 will focus on sharing out project and program information



Adjournment to Next Meeting

Next Roundtable Workshop

September 20, 2022

1 pm – 3 pm

Format: Zoom (although may
be in person if conditions
warrant)

Introduce yourself and your organization

HELLO
Carol Steinfeld
Sierra Club

HELLO
Nicole Sandkulla
BAWSCA

HELLO
Louis Sun
Foster City

HELLO
Christophe LaBelle
Silicon Valley
Leadership Group

HELLO
Nicole Harvie
City of San Jose



Introduce yourself and your organization

HELLO

Sal Navarro
Hayward

HELLO

Dennis Murphy
Sus SV

HELLO

Kim Springer
CCAG

HELLO

Natalie Semersky
Palo Alto

HELLO

Kirsten Struve
Valley Water



Introduce yourself and your organization

HELLO

Greg Smith, SMC Env Health

HELLO

Susan Wright, SMC Office of Sustainability (Manager of Climate protection and resilience)

HELLO

Devon Becker, ACWD

HELLO

Lisa Bilir, Palo Alto

HELLO

Shilpa Mehta, City of Santa Clara



Introduce yourself and your organization

Golden Gate

San Francisco

Oakland

Alameda

Canyon

Danville

San Ramon

San

Dublin

Livermore

Pleasanton

HELLO

Krista McDonald
San Mateo County

HELLO

Reid Bogert
CCAG

HELLO

Rene R
MPWD

HELLO

Julia Nussbaum
Stanford University

Burlingame

Foster City

San Mateo

Union City

Fremont

Newark

San Carlos

City

East Palo Alto

Menlo Park

Palo Alto

Stanford

Milpitas

Mountain View
Los Altos



What funding sources/models could better incentivize the development of local/regional One Water projects?

Ability to secure outside funding

Incentivizing local projects

Requiring water offset for new construction

Requiring onsite capture of stormwater

Collaboration between private and public entities



What funding sources/models could better incentivize the development of local/regional One Water projects?

“Flows to Bay”
EIFDs

Issues,
opportunities,
constraints need to
be better defined;
define best fit and
then ID projects

Identifying benefits to
various interests;
combining sources

Local funds/rates
can't pay for
anything

Missing “Gap Plan” for water needs
and opportunity for conservation,
housing and what that means,
geographic look at options – what
capacity building we need



What funding sources/models could better incentivize the development of local/regional One Water projects?

Fee based (typical from regulatory perspective) (covers direct costs)

Looking at where water customers benefit from stormwater projects

Grants to cover multi-benefit projects

Regional approach, collaboration, benefits, etc. is interesting

Collaboration within own department

Learning from peers about what they're doing

Customer rates

Parcel tax for stormwater projects



What funding sources/models could better incentivize the development of local/regional One Water projects?

State and government funding (no matching requirement- major constraint)

Debt tool for capital projects

Habitat restoration funds

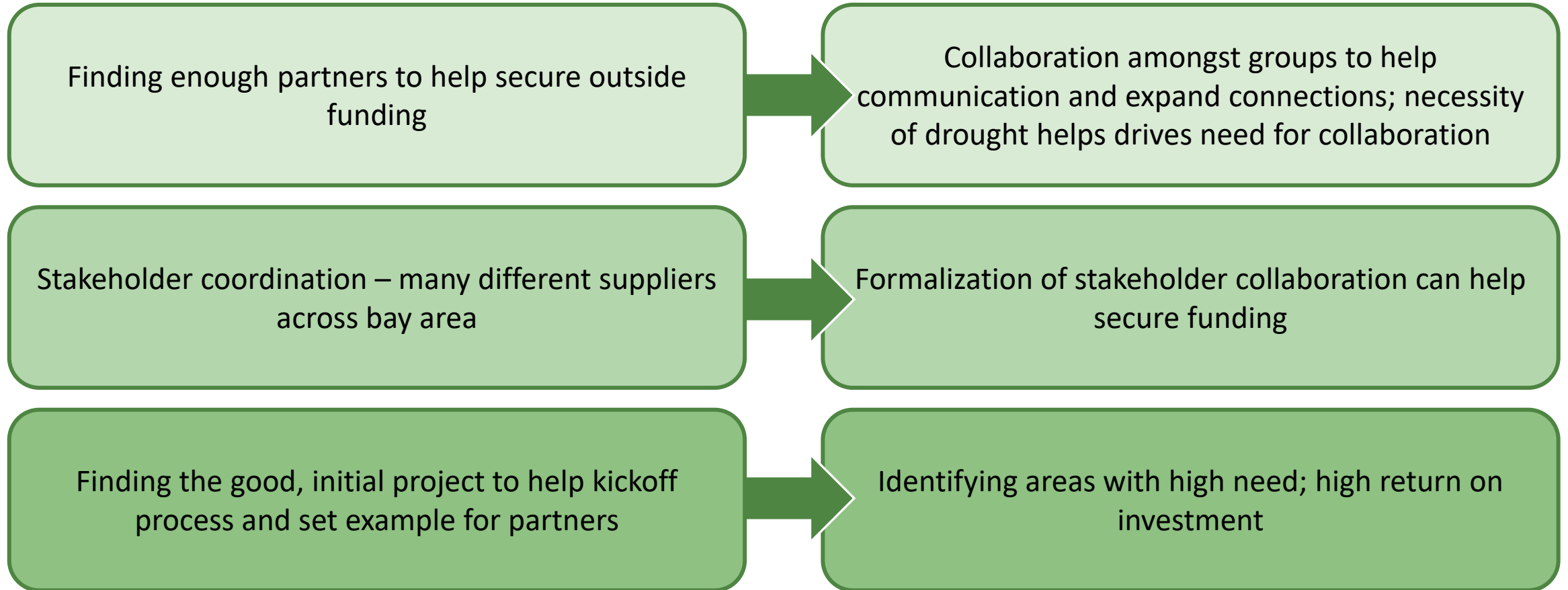
Regional collaboration (wastewater, or even outside of the water agencies and water quality)

Local revenue (i.e. property tax)



What are 3 challenges to securing funding for One Water projects?

What can be done to overcome those obstacles?



What are 3 challenges to securing funding for One Water projects?

What can be done to overcome those obstacles?

Prop 218 – impacts funding for stormwater, because money needs to only be used for purpose of rate proposed, practically disallows stormwater

Repeal Prop 218? Look at WaterNow/CCAG for alternative funding mechanisms for stormwater; regional approach; maybe JPA approach for funding scale, etc.

Perhaps lack of knowledge on the funding process and/or costs basis – regulators, public and governing boards, decisions makers;

Increased education and transparency

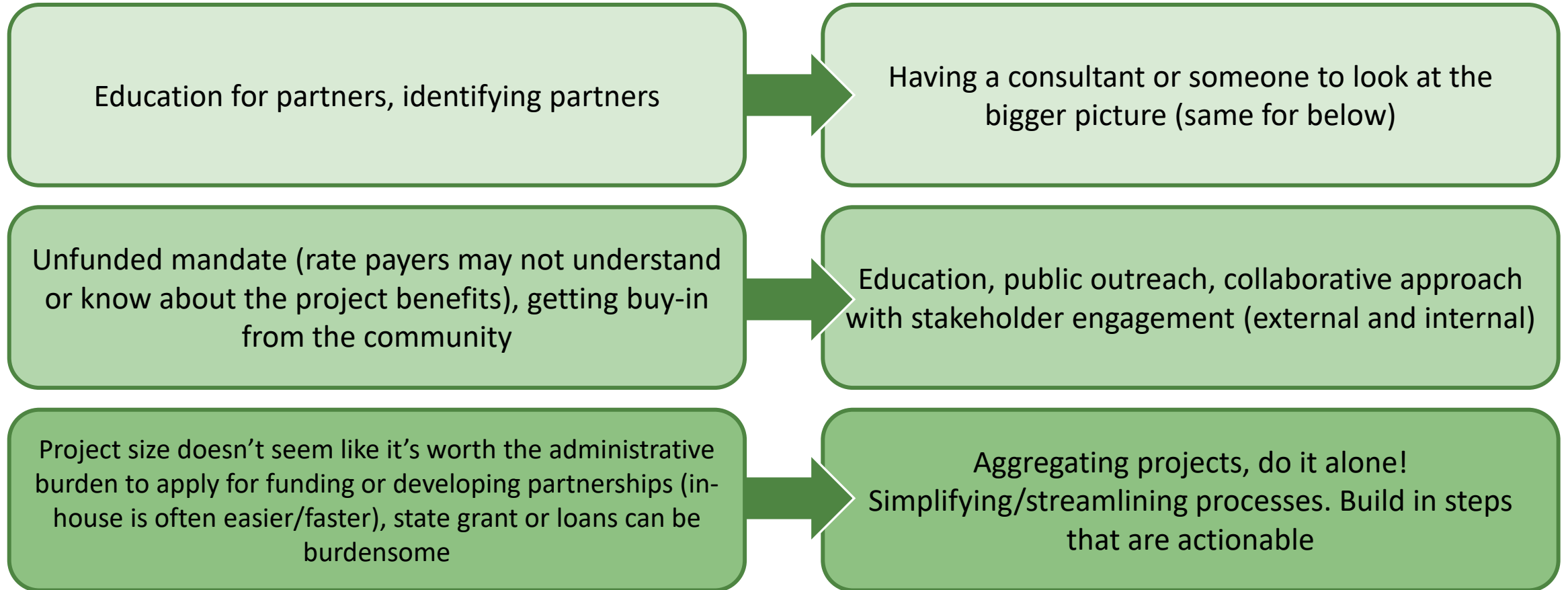
Combining funding sounds great – but each have all their own requirements, reporting, legal, agreements, administrative requirements

Staff and resources to facilitate



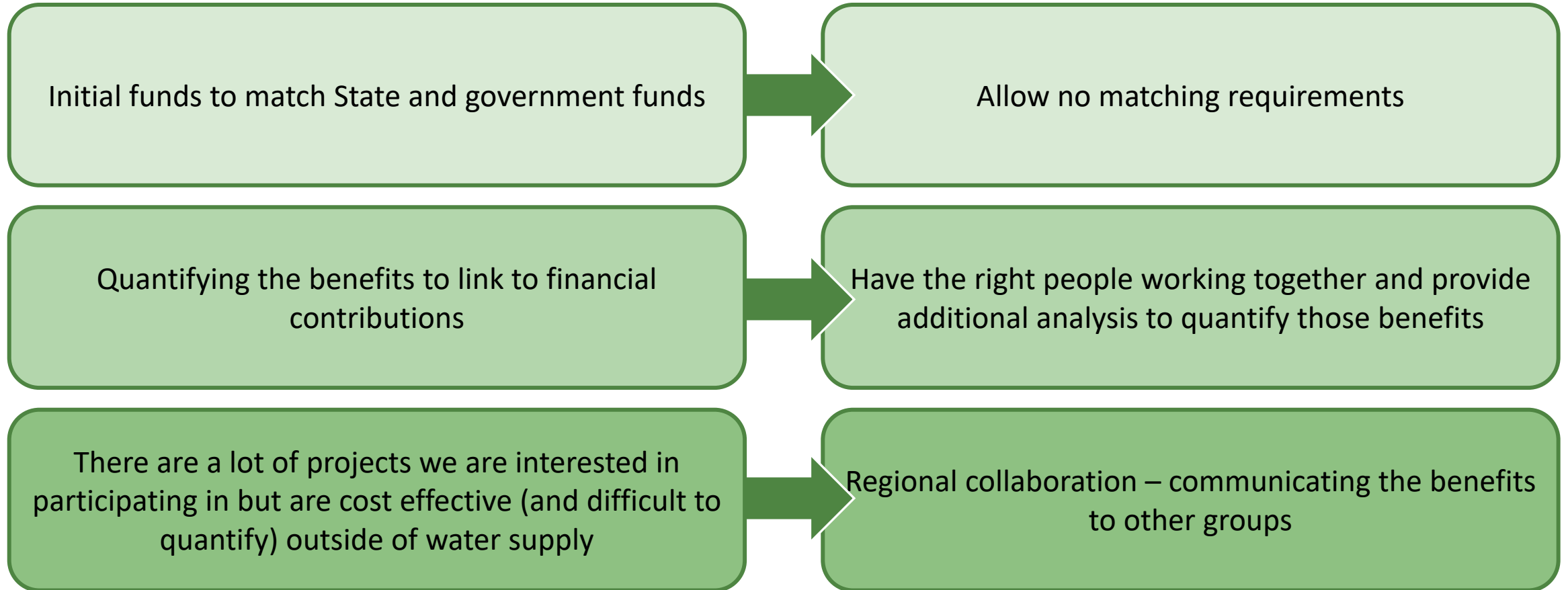
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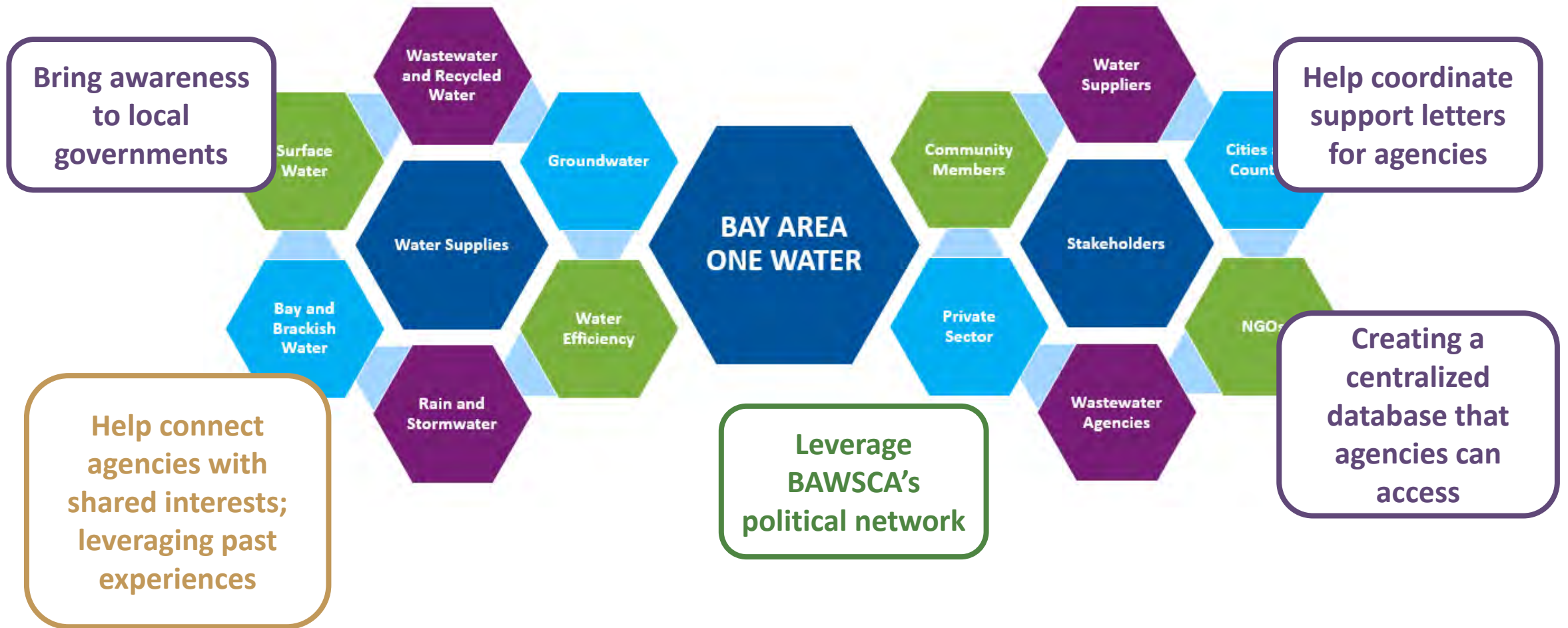


What are 3 challenges to securing funding for One Water projects?

What can be done to overcome those obstacles?



What role could BAWSCA or other local/regional organizations play in securing or facilitating funding for One Water Projects?



What role could BAWSCA or other local/regional organizations play in securing or facilitating funding for One Water Projects?

Increase awareness and education of funding opportunities; help smaller agencies know what is available

Letters of support

For the public – need to establish a need – present the issues so we can generate support

One Shoreline Model, advocating for funding (external facing), education (internal facing)

Water Suppliers

As an intern, I've just started learning about BAWSCA and the One Water project, but a role I think BAWSCA could play is outreach to agencies and giving opportunities for them to learn in depth the decisions and progress being made, whether through workshops, newsletters, or other.

Valley water has multiple funding sources; provides grants to local agencies and community organizations and partner with retailers; links back to mission

“don't waste a good emergency”

Information sharing – opportunities, eligibility, grant requirements

Really need increased awareness and education to increase public interpretation of the value of the water resource

BAY AREA ONE WATER

Stakeholders

Cities/Counties

Surface Water

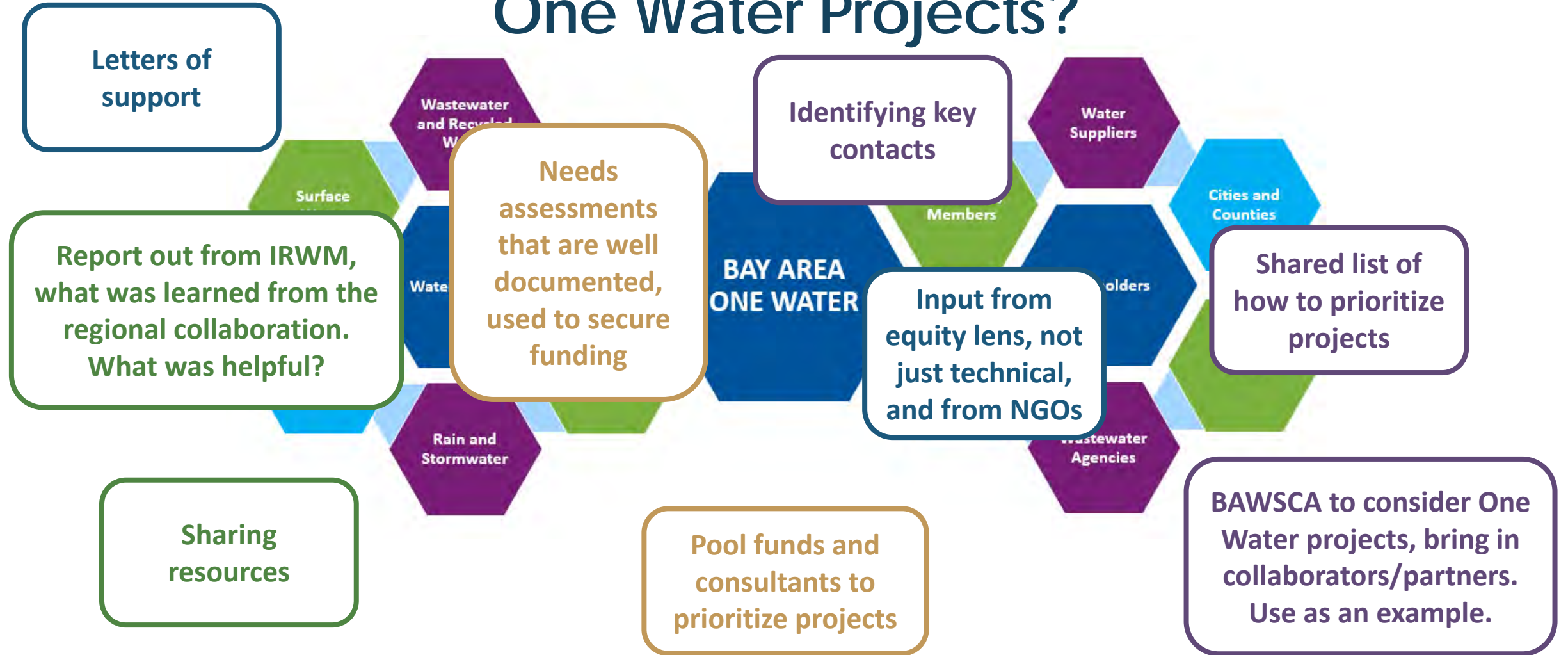
Bay and Brackish Water

Stormwater

NGOs



What role could BAWSCA or other local/regional organizations play in securing or facilitating funding for One Water Projects?



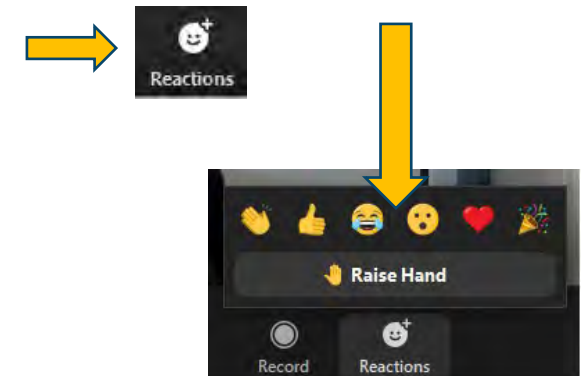
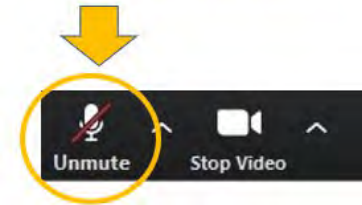
What role could BAWSCA or other local/regional organizations play in securing or facilitating funding for One Water Projects?



Meeting Instructions While We Gather

- You have been muted upon entry
- Please feel free to **Unmute** yourself to say “Hi” and test your sound connection
- Please **Mute** yourself during meeting when you are not talking
- **During the meeting, BAWSCA staff will mute your sound and video if necessary**
- The **Raise Hand** feature will be used for questions
- ***NEW*** To get the **Raise Hand** button, Click on **Reactions** button at the bottom of your screen and Select **Raise Hand**
- The **Chat** function is enabled
- If you have technical difficulties, please text Kyle Ramey at 650-787-1793

Bottom left corner
of your screen





“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

[BAWSCA Act, AB2058 (Papan-2002)]


Water Supply Reliability Roundtable

Workshop 3: Identifying Local One-Water Projects

November 8, 2022

Call to Order & Welcome



 **Replace your lawn with a water-wise landscape**

We're in a drought, cut waste out.

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Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
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Introduction & Purpose of Workshop Three

😊 Water plants no more than twice a week

😞 Never when it's raining

We're in a drought, cut waste out.

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Bay Area Water Supply & Conservation Agency | Services of the San Francisco Public Utilities Commission

Roundtable Workshop Series



Workshop 1

Demystifying the One Water Concept

- Date: May 24, 2022; 10AM-12PM, Zoom Meeting
- We will demystify the One Water Concept and explore how it can be applied to the BAWSCA region. Speakers will provide an overview of the One Water Concept and examples of successful implementation.



Workshop 2

Regional Partnerships Mean Regional Funding

- Date: June 28, 2022; 10AM – 12PM, Zoom Meeting
- We will focus on how regional partnerships can be leveraged for a variety of regional funding solutions. Speakers will discuss regional funding models that have been employed in the Bay Area and Southern California to bring projects into reality.



Workshop 3

Identifying Local “One Water” Projects

- Date: November 8, 2022; 10AM -12PM, Zoom Meeting
- Share your organization’s planned or potential One Water projects with the group, whether they're in the early stages of planning, or a mere twinkle in your eye. With all local projects on the table, we can begin to identify real and meaningful opportunities for One Water collaborations and funding opportunities. If conditions allow, a networking mixer will follow the Roundtable Workshop.



Workshop 4

Moving Forward!

- Date: TBD Early 2023, In-Person
- We will spend some more time exploring and summarizing local and regional One Water projects and concepts, as well as discuss potential next steps. If conditions allow, a networking mixer will follow the Roundtable Workshop.

One Water Roundtable Series

Hosted by



with support from



Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- Goal:
 - Understanding of how projects can fit within the one-water concept
 - Identification of collaborative opportunities
 - Identify how entities can best support, help finance, permit/approve, and/or expand projects or programs that have the potential to offer multiple benefits

Workshops 1 and 2 – Discussion That Took Place

- This first workshop (May 24, 2022) introduced the concept of “One Water”
 - Participants were asked to share their view / opinion as to what “One Water” means to them
 - A presentation on the Los Angeles (LA) 2040 Plan
 - A presentation summarizing Palo Alto’s upcoming One Water Plan development
- The second workshop (June 28, 2022) discussed how others have approached the financing of multi-benefit projects
 - One Water projects funding options
 - A presentation on San Bernadino Valley Municipal Water District’s approach to project funding
 - A presentation on the City/County Association of Government’s (C/CAG) on their Countywide Green Infrastructure Funding Evaluation

Purpose of Workshop 3 Discussions

- Share the results of the “Project Information Form” gathering effort, and point to specific examples of the projects envisioned
 - Are there opportunities for regional collaboration or assistance?
- Present an inventory grant/funding opportunities for one-water projects
 - What are the current and upcoming grant opportunities?
 - How can BAWSCA (or other participant agencies) assist in applying for and or securing grant funding?
- Learn about SFPUC’s efforts, as part of their Alternative Water Supply Program, to partner on potable reuse project opportunities within the BAWSCA service area
- Plan for the fourth Regional Water Supply Reliability Roundtable

How Today's Workshop Fits into the Roundtable Effort

- Today's workshop will serve as a means to
 - Allow participants to learn more about the myriad of water supply reliability projects that agencies are contemplating
 - Identify if there is regional synergy present that could lead to partnership possibilities or, at a minimum, opportunities to support multi-agency funding requests

What One Water project did you submit with the Project Information Form?



Type your message into the chat.



After 1 minute, everyone will hit “send” together.



Summary of Project Information Forms Submitted

 **Only wash when the hamper's full**

 **Not full? Not today**

We're in a drought, cut waste out.

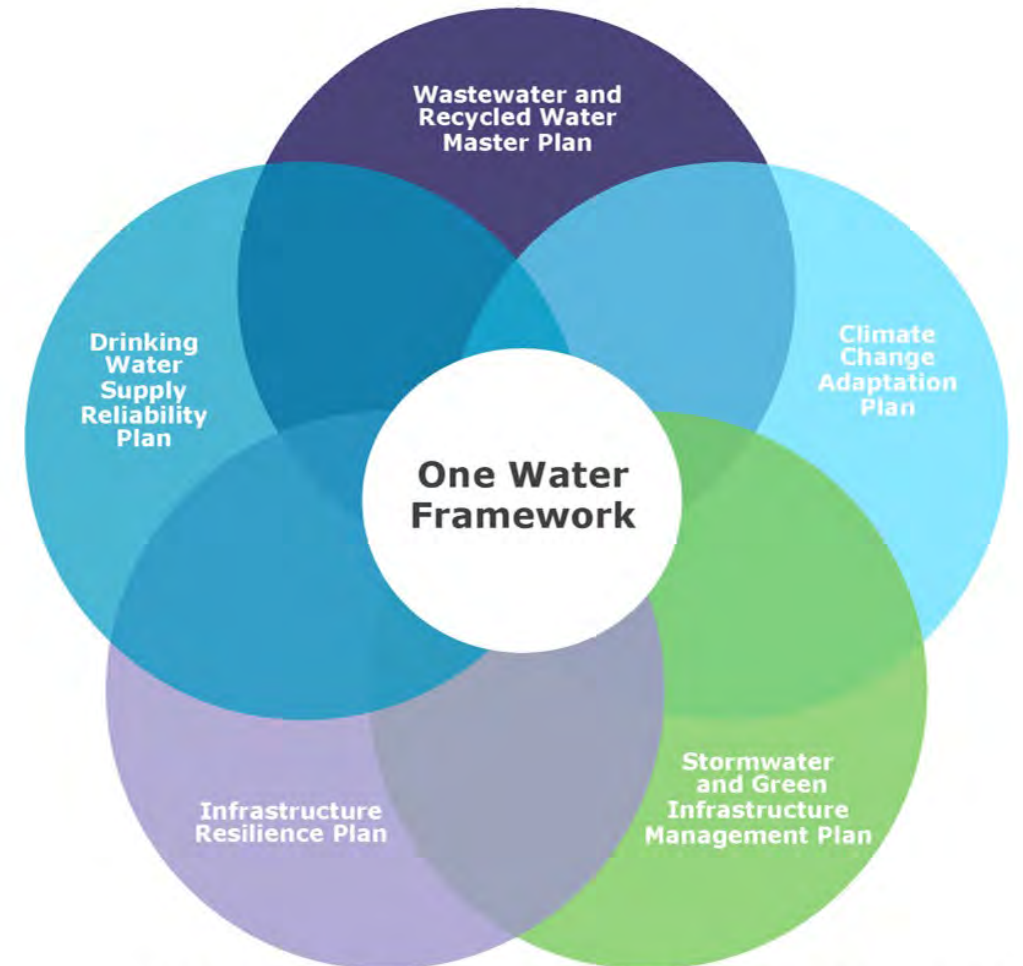
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Project Information Form (PIF) Purpose

- Identify local and/or regional One Water projects/programs in planning or development
- Identify opportunities to support or expand implementation
- Quantify water supply benefits collectively



PIF Components

- 1 Contact Details
- 2 Detailed Description of Project
- 3 Cost / Funding Information
- 4 Scheduling Information
- 5 Additional Details

PIF Forms Received to Date – BAWSCA Member Agencies

- BAWSCA/EKI have met (via Zoom) with most BAWSCA member agency to discuss PIFs and encourage participation
- Forms received to date from BAWSCA agencies
 - Brisbane
 - CCWD
 - East Palo Alto
 - Foster City
 - Hayward
 - Menlo Park
 - Mid Peninsula Water District
 - Millbrae
 - Palo Alto
 - Purissima Hills Water District
 - Santa Clara
 - Stanford
 - Sunnyvale

PIF Forms Received to Date – Other Agencies / Organizations

- BAWSCA has received forms from these non-water agencies:
 - Stanford University (Faculty / Research Project)
 - C/CAG
 - San Mateo County
- BAWSCA intends to reach out to wastewater agencies as well as select NGOs in an effort to gather additional PIFs
- SFPUC's Alternative Water Supply Plan projects will not have PIFs

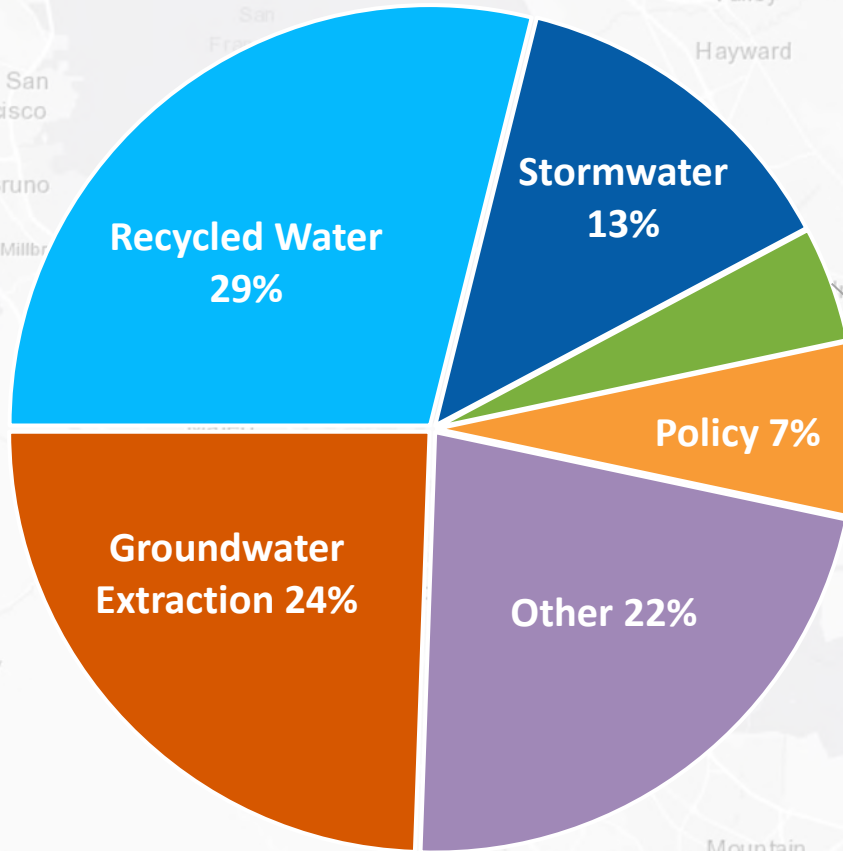
Summary of Project Information Forms



Project Information Form Statistics

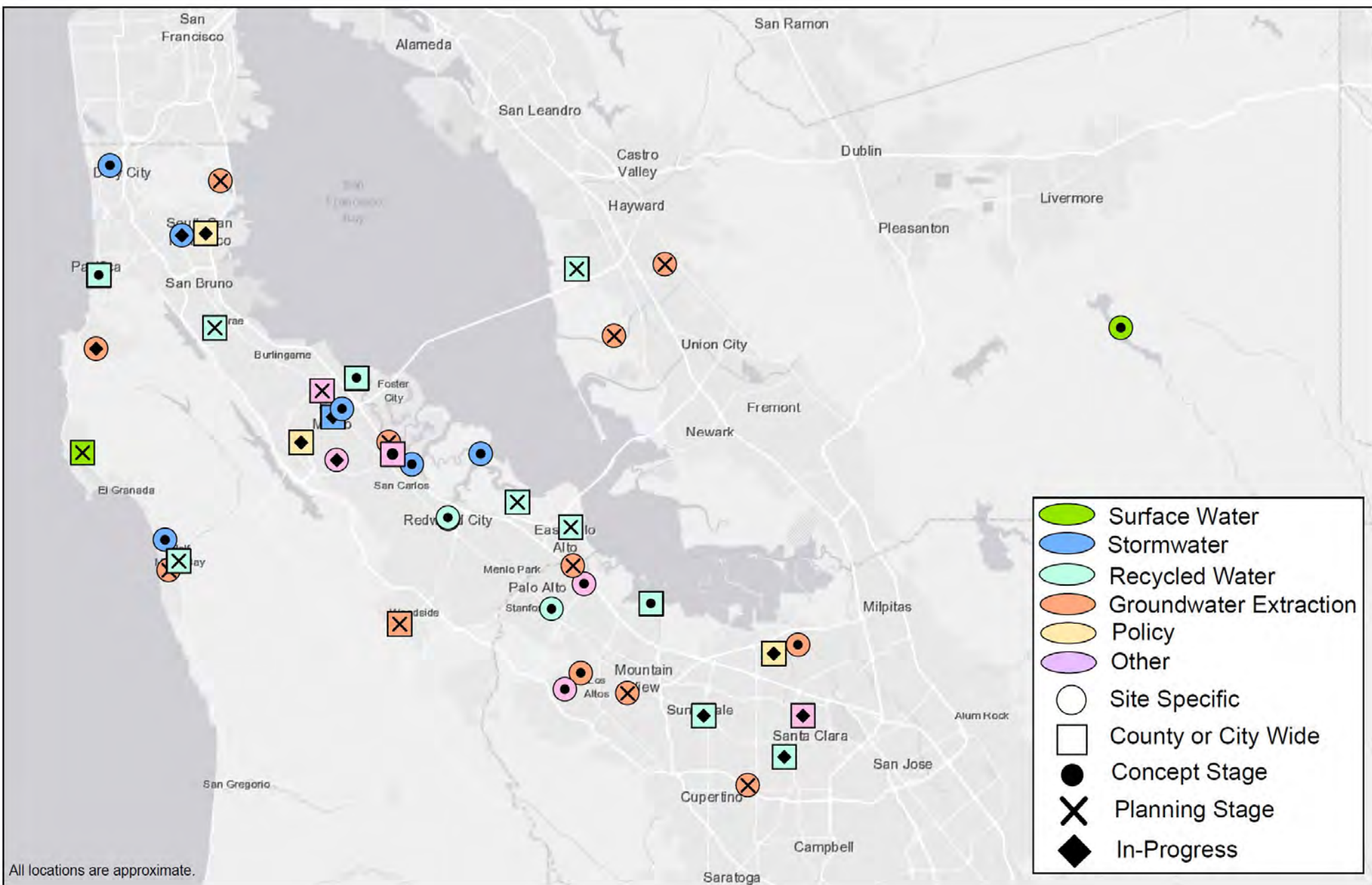
Total Estimated Yield ranging 17-33 million gallons per day (MGD)

Project Type



Concept Stage	30%
Planning Stage	52%
In-Progress	19%





Examples of PIFs Submitted (1 of 3)

- Brisbane
 - Brisbane recently completed a groundwater assessment study and is investigating an option to install an irrigation supply well
- Foster City
 - Conceptually the City is considering options to bring recycled water to select areas of the City. This concept requires cooperation from partner agencies and could be further reviewed as part of a future recycled water feasibility study
- Hayward
 - The City began delivery of recycled water in March 2022. The estimated average deliveries are expected to be about 260,000 gallons per day to 31 customers. Hayward constructed 8.5 miles of pipeline, a 0.5 million gallons per day (mgd) membrane treatment facility, and a 500,000 gallon storage tank.
 - The City is planning to prepare a Recycled Water Master Plan to evaluate the feasibility of expanding the recently constructed system

Examples of PIFs Submitted (2 of 3)

- Mid Peninsula Water District
 - MPWD is planning a potable groundwater supply development project. A new groundwater well would be installed for dry year supply purposes with an anticipated capacity at 200 gallons per minute (gpm). A potential site for this well has been identified. The project planning will include conducting the necessary engineering design, permitting, environmental documentation, construction, startup and testing
- Sunnyvale
 - The City will be conducting a comprehensive update of their 2013 Feasibility Study for Recycled Water expansion. The updated study will review a potential / planned expansion of recycled water service areas and include sales projection scenarios, plus consider connections to other regional recycled water systems and neighboring cities. It will also make recommendations as to long-term Capital Improvement Program (CIP) inclusion of future work

Examples of PIFs Submitted (3 of 3)

- San Mateo County
 - The SMC Office of Sustainability (OOS) is developing a sea level rise mapping tool and risk assessment checklists that will support facility and capital projects managers in identifying whether a proposed facility is in a sea level rise risk area, and if so, guide the development of adaptation strategies for that facility
- Stanford University (Prof. Luthy)
 - A study is underway regarding the region's water supply needs in light of recent amendments to the Bay-Delta Plan that will require more flow to be left in-stream for ecosystem use. The study includes the development of a model of Tuolumne River water supply. The model will allow for simulation of long-term water supply performance under various climate, policy, and coping scenarios. Solutions will be proposed via the evaluating how future water supply investments (e.g., storage, interties, regional desalination) might contribute to resilient water supply performance in the face of climate and policy stresses

What One Water project are you most excited to learn about?



Type your message into the chat.



After 1 minute, everyone will hit “send” together.



Inventory of Grant / Financing Opportunities

 **Replace your lawn with a water-wise landscape**

We're in a drought, cut waste out.

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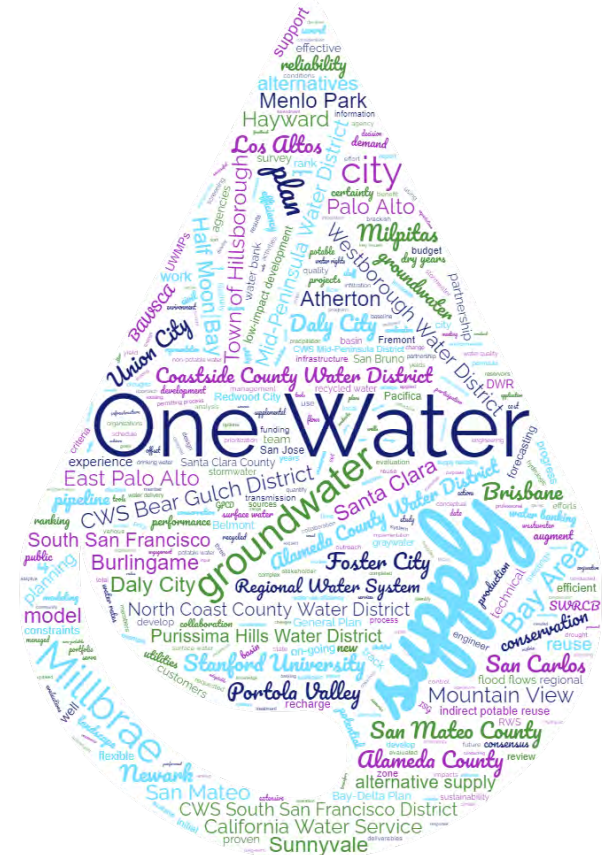
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San Francisco Public Utilities Commission

Current and Upcoming Funding and Financing Opportunities



Overview

- Current and ongoing funding/financing programs
- Peninsula Drought Resiliency Program Case Study
- What can BAWSCA do to help?



Summary of Active Funding Opportunities

- Table summarizing the currently available funding options from the following sources:
 - California Department of Water Resources
 - United States Environmental Protection Agency
 - United States Bureau of Reclamation
 - California State Water Resources Control Board
- Table will be provided via email following the workshop



Funding Programs from the California Department of Water Resources (DWR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Solicitation opened 10/4/2022. Deadline extended to 12/16/2022.	Sustainable Groundwater Management (SGM) Grant Program - Prop 68 Implementation Round 2	<ul style="list-style-type: none"> Grant award amounts per basin range from \$1 million to \$20 million 	<ul style="list-style-type: none"> Funding for Medium and High Priority Basins Only ONE application per Basin Goal is to achieve water balance in California where GSAs and other responsible entities work cooperatively and innovatively to manage surface and groundwater together in a holistic and integrated manner 	<ul style="list-style-type: none"> GSAs Member agencies of GSAs An entity that represents a GSA Agencies with an alternative to a GSP Entities that have adjudicated with or without a Watermaster 	<ul style="list-style-type: none"> Development of groundwater recharge projects Projects that prevent or clean up contamination of drinking water Projects that support water supply reliability, water conservation, and water use efficiency and water banking Geophysical investigation Early implementation of existing regional flood management plans Revisions & updates to a GSP Project must fill known data gaps and address comments received from DWR on submitted GSP
Solicitation opened 10/10/2022. Applications close 1/31/2023.	Urban Community Drought Relief Funding	<ul style="list-style-type: none"> \$300 million (split between urban community drought relief, turf replacement, conservation for urban suppliers, and program administration) 	<ul style="list-style-type: none"> Intended to provide water to communities that face contaminated or reduced water supplies, to address immediate impacts on human health and safety, and to protect fish and wildlife resources Minimum award amount of \$5 million per award. Smaller projects may be bundled together in a single application to meet the minimum grant award requirement. 	<ul style="list-style-type: none"> Public agencies Public utilities Special districts Colleges and universities Mutual water companies Non-profit organizations Regional water management groups California Native American Tribes 	<ul style="list-style-type: none"> Emergency water interties New wells or rehabilitation of existing wells Construction or installation of permanent connection to adjacent water systems Recycled water projects that provide immediate relief to potable water supplies Drought resilience planning Other projects that support immediate drought response Projects (e.g., groundwater recharge and ecosystem restoration) not explicitly identified may still be eligible if projects satisfy the criteria and eligibility outlines in the GL/PSP and address a drought impact
Released 5/17/2022. First deadline of applications 8/19/2022. Second deadline of applications 2/1/2023.	Integrated Regional Water Management Grant Programs	<ul style="list-style-type: none"> \$193 million total, \$29 million for San Francisco Bay Funding Area Local cost share of 50% but can be waived or reduced for projects that directly benefit the water management needs of a DAC or EDA 	<ul style="list-style-type: none"> Designed to encourage integrated regional water resource management strategies by providing funding for projects and programs that support integrated water management Funding areas can choose to apply by either deadline, but All Regions in a Funding Area must submit applications by the same deadline. 	<ul style="list-style-type: none"> Public agencies Non-profit organizations Public utilities Federally recognized Indian tribes State Indian tribes listed on the Native American Heritage Commission's Tribal Consultation list Mutual water companies 	<ul style="list-style-type: none"> Water reuse and recycling for non-potable reuse and direct and indirect potable reuse Water-use efficiency and water conservation Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects Regional water conveyance facilities that improve integration of separate water systems Watershed protection, restoration, and management projects, including projects that reduce risk of wildfire or improve water supply reliability

Funding Programs from DWR (con't)					
Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served basis until all funds have been expended or until 12/29/2023	Small Community Drought Program	<ul style="list-style-type: none"> \$305 million 	<ul style="list-style-type: none"> Intended to offer immediate and near-term financial and technical assistance to small communities facing water supply challenges due to current drought 	<ul style="list-style-type: none"> Small communities not served by an Urban Water Supplier (UWS is a public or privately owned supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually) 	<ul style="list-style-type: none"> Provide reliable water storage Improve water system storage Replace aging and leaking water system infrastructure Replace aging and leaking water system infrastructure Provide backup power sources for water systems Hauled water Temporary community water tanks Water vending machines Emergency water interties

Funding Programs from the United States Environmental Protection Agency (EPA)					
Since September 6, Letters of Interest can be submitted	Water Infrastructure Finance and Innovation Act (WIFIA)	<ul style="list-style-type: none"> \$20 million is minimum project size for large communities \$5 million is minimum project size for small communities Maximum portion of eligible cost that WIFIA can fund is 49% 	<ul style="list-style-type: none"> Accelerated investment in nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects In a Letter of Interest, the prospective borrower provides information to demonstrate its projects eligibility, financial creditworthiness, engineering feasibility, and alignment with EPA's policy priorities. If EPA selects the projects, then the prospective borrower is invited to submit an application. 	<ul style="list-style-type: none"> Local, state, tribal, and federal government entities Partnerships and joint ventures Corporations and trusts Clean Water and Drinking Water State Revolving Fund programs 	<ul style="list-style-type: none"> Wastewater conveyance and treatment projects Drinking water treatment and distribution Enhanced energy efficiency projects at drinking water and wastewater facilities Brackish or seawater desalination, aquifer recharge, alternative water supply, and water recycling projects Drought prevention, reduction, or mitigation projects Desalination/aquifer recharge and water recycling projects Acquisition of property if it's integral to the project or will mitigate the environmental impact of a project

Funding Programs from the U.S Bureau of Reclamation (USBR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
WaterSMART Programs			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
Next funding opportunity is expected in Winter 2022	<u>Water Marketing Strategy Grants</u>	<ul style="list-style-type: none"> - Up to \$200k for projects to be completed in 2 years with a smaller project scope (Few partners involved, smaller geographic area, builds on prior work, etc.) - Up to \$400k for projects to be completed in 3 years with a larger project scope (more partners, larger geographic area, more complex water markets, etc.) - Non-federal cost share: 50% or greater 	<ul style="list-style-type: none"> - Funded through Bipartisan Infrastructure Law - Program objective: Water markets between willing buyers and sellers can be used to help water users meet demands efficiently in times of shortages, thereby helping prevent conflicts 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts - State, regional, or local authorities, which include one or more organizations with water or power delivery authority as members - Other organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Collaborative planning efforts to develop water markets to address water supply reliability and increase water management flexibility - Planning activities to develop water marketing strategies that establish or expand water markets or water marketing activities between willing participants - Planning activities that support the development of a water marketing strategy, this can include pilot activities if applicable - Projects must address the three required project components: Outreach, Scoping and planning, and Develop a strategy
Next funding opportunity is expected in Winter 2022	<u>Environmental Water Resources Projects</u>	<ul style="list-style-type: none"> - Up to \$5M for a large project to be completed within 3 years - Non-Federal Cost Share: 25-50% 	<ul style="list-style-type: none"> - Funding to support projects focused on environmental benefits that have been developed as part of a collaborative process to increase the reliability of water resources 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts, or other organizations with water or power delivery authority - State, regional, or local authorities, whose members include one or more organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values - Water management or infrastructure improvements to mitigate drought-related impacts to ecological values - Watershed management or restoration projects benefitting ecological values that have a nexus to water resources or water resources management - Broad project eligibility, but focus is on water management projects with environmental and ecological benefits and multi-benefit projects
Schedule for the FY23 funding opportunity is currently under development	<u>Cooperative Watershed Management Program</u>	<ul style="list-style-type: none"> - Up to \$200,000 may be awarded to an applicant per year, for a period of up to two years - No non-federal cost-share required 	<ul style="list-style-type: none"> - Funding to encourage diverse stakeholders to form local solutions to address their water management needs 	<ul style="list-style-type: none"> - States - Native American tribes - Local irrigation and water districts - Local government entities - Non-profit organizations 	<ul style="list-style-type: none"> - Funding for watershed group development, watershed restoration planning, and watershed management project design - Applicants could use funding to develop bylaws, a mission statement, complete stakeholder outreach, develop a watershed restoration plan, and watershed management project design

Funding Programs from the California State Water Resources Control Board (SWRCB)

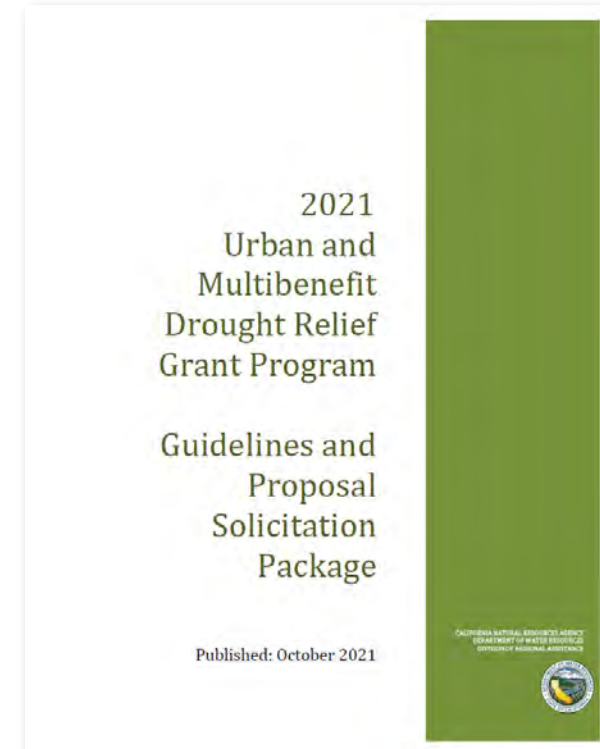
Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served	<u>Water Recycling Funding Program (WRFP) - Planning Grant Application</u>	<ul style="list-style-type: none"> - Prop 1 provides \$625 million for recycled water projects - Prop 13 provided financial assistance through loans and grants for planning and construction activities - Prop 68 provided \$72 million in loans and grants for recycled water planning and construction 	<ul style="list-style-type: none"> - Goal of program is to promote the beneficial use of treated municipal wastewater (water recycling) in order to augment fresh water supplies in California by providing technical and financial assistance to agencies and other stakeholders in support of water recycling projects and research. 	<ul style="list-style-type: none"> - Local public agencies 	<ul style="list-style-type: none"> - Recycled wastewater feasibility studies - Planning for water recycling projects
First-come, first-served	<u>Water Recycling Funding Program (WRFP) - Construction Grant Application</u>			<ul style="list-style-type: none"> - Depending on the type of project, eligible groups include: <ul style="list-style-type: none"> - local public agencies - Non-profit organizations - Public utilities - Native American tribes - Mutual water companies 	<ul style="list-style-type: none"> - Construction of recycled water treatment facilities, storage facilities, pumping facilities, and groundwater recharge facilities - Construction of recycled water distribution systems, including onsite improvements - Development, Construction, and monitoring of a pilot-scale or demonstration-scale plant as part of the Construction of a full-scale treatment facility
First-come, first-served	<u>County-Wide and Regional Funding Programs</u>	<ul style="list-style-type: none"> - \$55 million 	<ul style="list-style-type: none"> - Need for regional programs that address drought-related and contamination issues for state small water systems and domestic well serving disadvantaged communities and low-income households. These needs are the primary focus for this funding, but proposals may also include work to address specific needs of public water systems 	<ul style="list-style-type: none"> - Counties - Non-governmental organization on behalf of one or more counties - Other public agencies on behalf of one or more counties - Grant recipients aid: <ul style="list-style-type: none"> - State smalls (<15 connections) serving a DAC - Domestic wells (<5 connections) serving low-income households - Potentially some services can be provided regardless of income (well sampling and bottled/hailed water for emergency drought response while longer-term solutions are implemented) 	<ul style="list-style-type: none"> - Assessment (community outreach, domestic well testing) - Interim solutions (bottled water, tanks and hauled water, kiosk filling stations) - Long-term solutions (well repairs and/or replacements, limited scale consolidation)

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<u>Site Cleanup Subaccount Program</u>	<ul style="list-style-type: none"> - Annual appropriation of \$34 million through 2025 	<ul style="list-style-type: none"> - Funding for projects that investigate the source of surface or groundwater contamination and/or remediate the harm or threat of harm to human health, safety, or the environment caused by existing or threatened surface or groundwater contamination 	<ul style="list-style-type: none"> - Applicants with eligible projects - Regulatory agency has issued a directive (unless this is infeasible) - Responsible party lacks 	<ul style="list-style-type: none"> - Projects may include site characterization, source identification, or implementation of cleanup
Ongoing	<u>Drinking Water State Revolving Fund (DWSRF) Program</u>	<ul style="list-style-type: none"> - \$159 million 	<ul style="list-style-type: none"> - Assists public water systems in financing the cost of drinking water infrastructure projects needed to achieve or maintain compliance with the Safe Drinking Water Act (SDWA) requirements 	<ul style="list-style-type: none"> - Publicly-owned community water systems (e.g., counties, cities, districts) - Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) - Non-profit or publicly owned non-community water systems 	<ul style="list-style-type: none"> - Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> - Treatment systems - Distribution systems - Interconnections - Consolidations - Pipeline extensions - Water sources - Water meters - Water storages
Ongoing	<u>Clean Water State Revolving Fund (CWSRF)</u>	<ul style="list-style-type: none"> - \$127 million 	<ul style="list-style-type: none"> - Provides low-cost financing to protect California's waters from pollution - Offers below-market interest rates, 30-year financing, loan forgiveness, compatibility with other funding sources - Financing limits: No maximum, but depends on available funding and applicant's ability to repay - Repayment: Begins 1 year after completion of construction 	<ul style="list-style-type: none"> - Public agencies - Non-profit organizations - Private entities - Federally recognized tribes 	<ul style="list-style-type: none"> - Constructing of publicly owned treatment works (POTWs) - Nonpoint source projects - National estuary program projects - Decentralized wastewater treatment systems - Stormwater projects - Measures to reduce the demand for POTWs capacity through water conservation, efficiency, or reuse - Development and implementation of watershed projects - Measures to reduce the energy consumption needs for POTWs - Water reuse projects - Security measures at POTWs - Provide technical assistance to owners and operators of small and medium sized publicly owned treatment works to plan, develop, and obtain financing for CWSRF eligible projects and to assist each treatment works in achieving compliance with the Clean Water Act

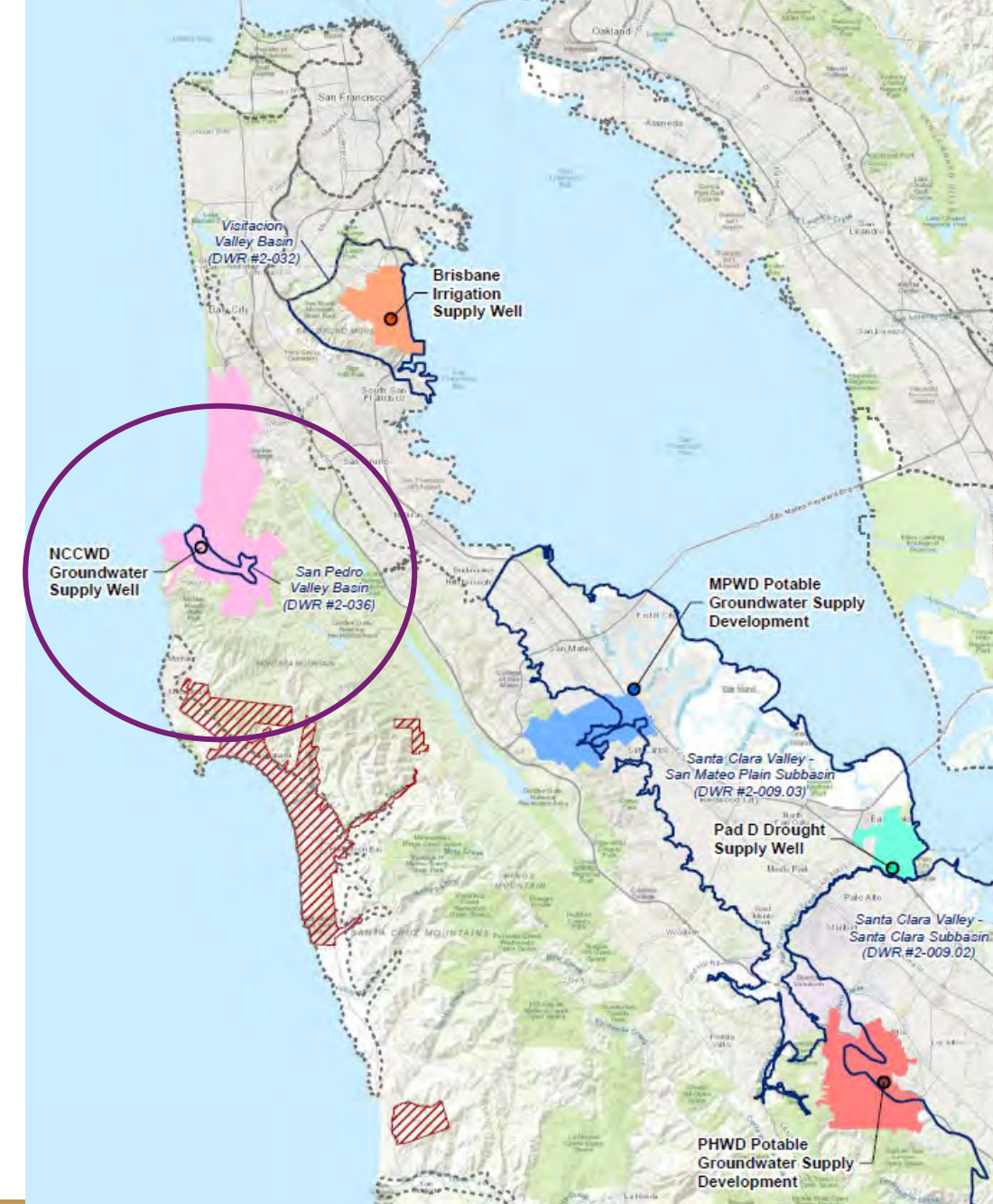
Case Study: DWR's 2021 Urban and Multibenefit Drought Relief Grant Program

- Grant for interim and immediate **drought relief** to urban communities and for **multibenefit projects**
- Intended to provide water
 - To communities that face the loss or contamination of their water supplies
 - To address immediate impacts on human health and safety
 - To protect fish and wildlife sources
- **\$190 million grant funds**
- Minimum award amount \$2 million
 - Smaller projects could be bundled together

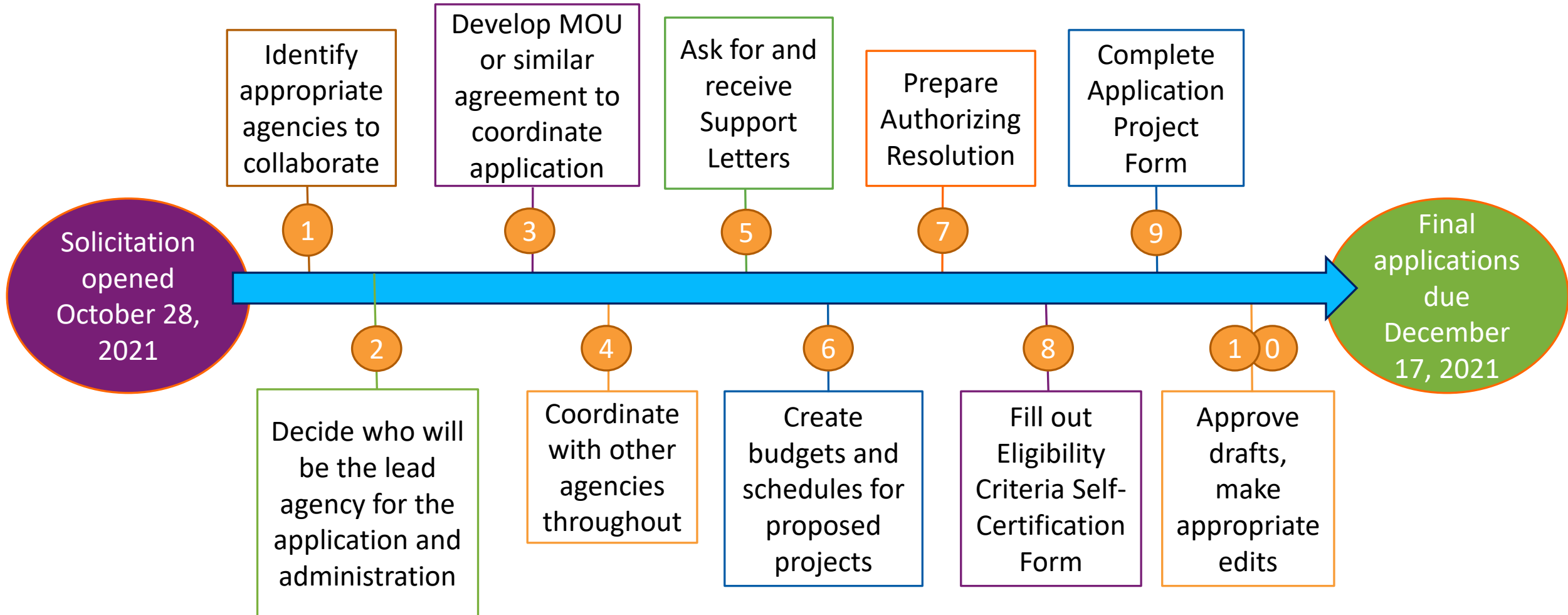


Case Study: Peninsula Drought Resiliency Program

- **Coordinated** effort to develop local groundwater supply sources on the San Francisco Bay Peninsula
 - North Coast County Water District (NCCWD)
 - Mid-Peninsula Water District (MPWD)
 - Purissima Hills Water District (PHWD)
 - City of Brisbane
 - City of East Palo Alto
- Applications **collectively** represented a **regional effort** to increase regional supply reliability through the development of local, drought resilient supplies and infrastructure

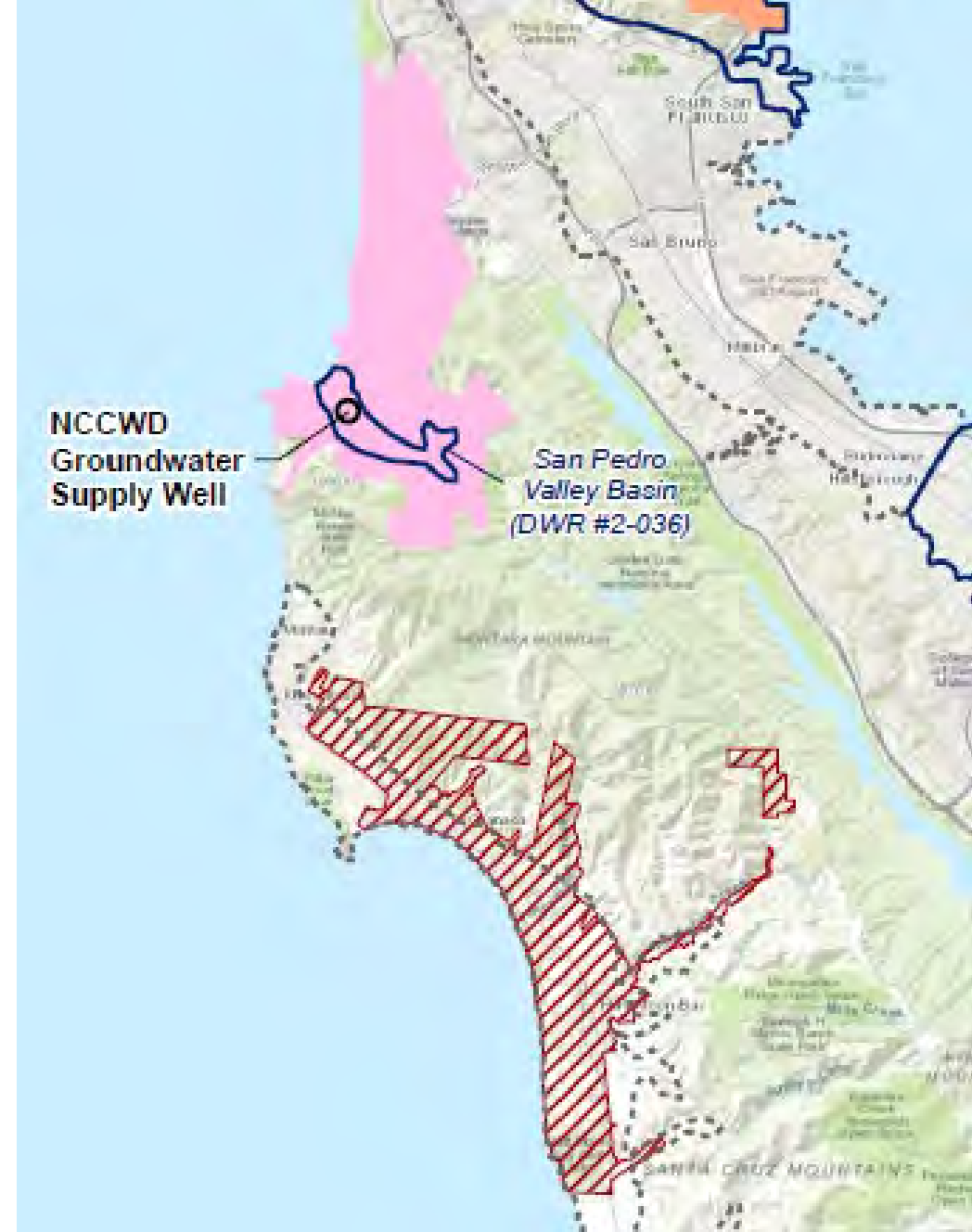


Case Study: Collaborative and Rapid Effort to Get Grant Package Ready in 7 Weeks



Case Study: NCCWD Potable Groundwater Supply Wellfield Development

- Awarded **\$6.6 million(!)** from the 2021 Urban and Multibenefit Drought Relief Grant Program
- Project is intended to diversify supply portfolio so not 100% reliant on SFPUC Regional Water System



Case Study: Lessons Learned...

- Example of **successful collaborative efforts** between project sponsors and agencies like BAWSCA to achieve project funding
- **Letters of support** from BAWSCA spoke to the critical need for these projects in the region
- Important to be aware of funding opportunities available and where **collaboration** with other agencies is possible
- Need to be able to react quickly when opportunities arise



How Can BAWSCA Potentially Help When it Comes to Funding?

- Offer Letters of Support for applications*
- Establish a grant tracking program (Information sharing – Opportunities, eligibility, requirements)*
- Develop subscription programs
 - Funding strategy (guidance on applicable upcoming opportunities, identify ways to improve competitiveness, proactively support project development)
 - Grant applications*
 - Grant administration*
- Help connect agencies with shared interests*
- Facilitate development of regional projects
- Increase public awareness and education*
- Creating a centralized database agencies can access*

*Suggestions from One Water Roundtable Participants



SFPUC's Potable Reuse Components in Their Alternative Water Supply Plan

😊 Water plants no more than twice a week

😞 Never when it's raining

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy Regional Water System**
Services of the San Francisco Public Utilities Commission

bawsca.org/conservate

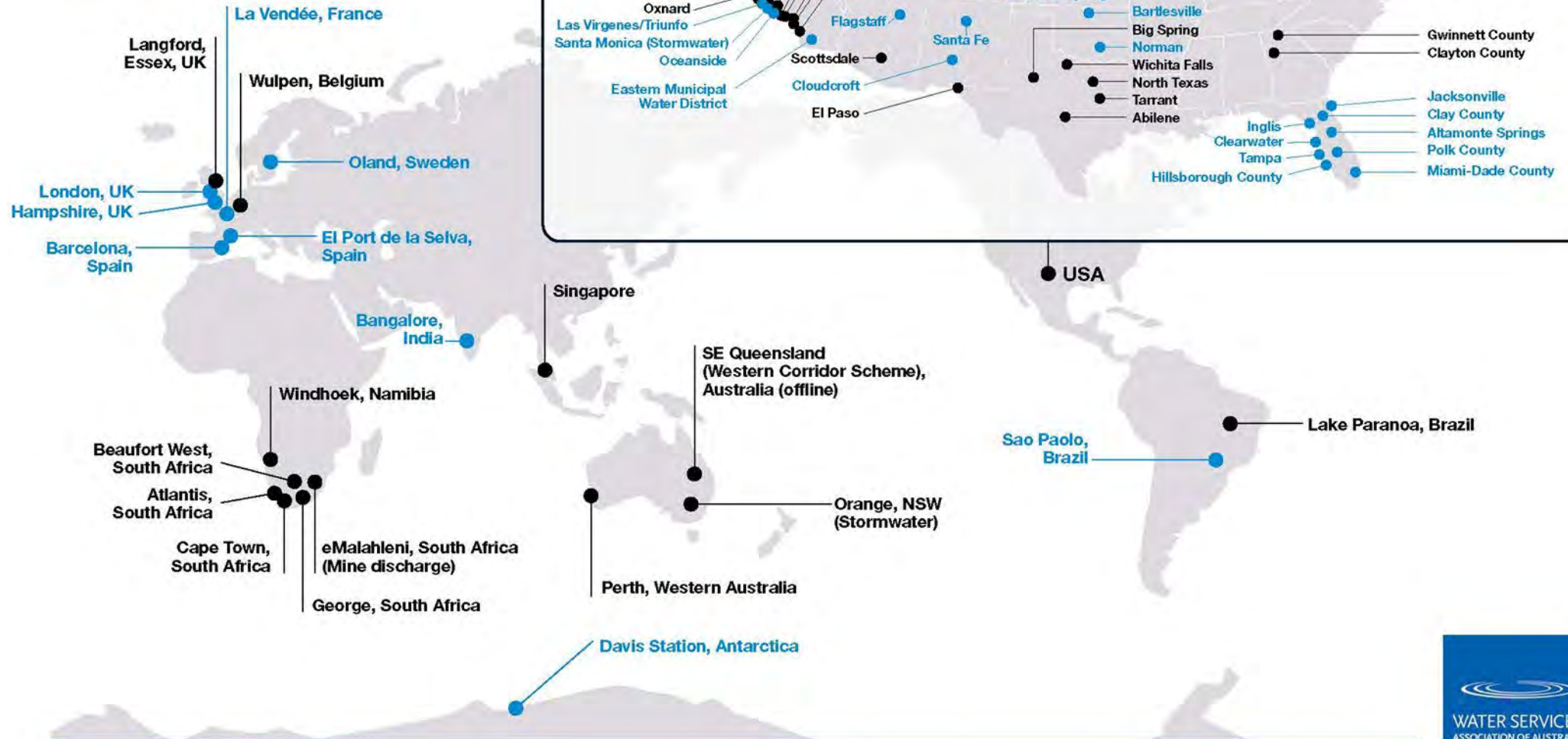
Purified Water Planning in SFPUC's Service Area

BAWSCA Water Supply Reliability Roundtable

Manisha Kothari, SFPUC

November 8, 2022

Global locations using purified recycled water for drinking



● Operating and planned ● Exploring or potential



Purified Water Projects in the Service Area

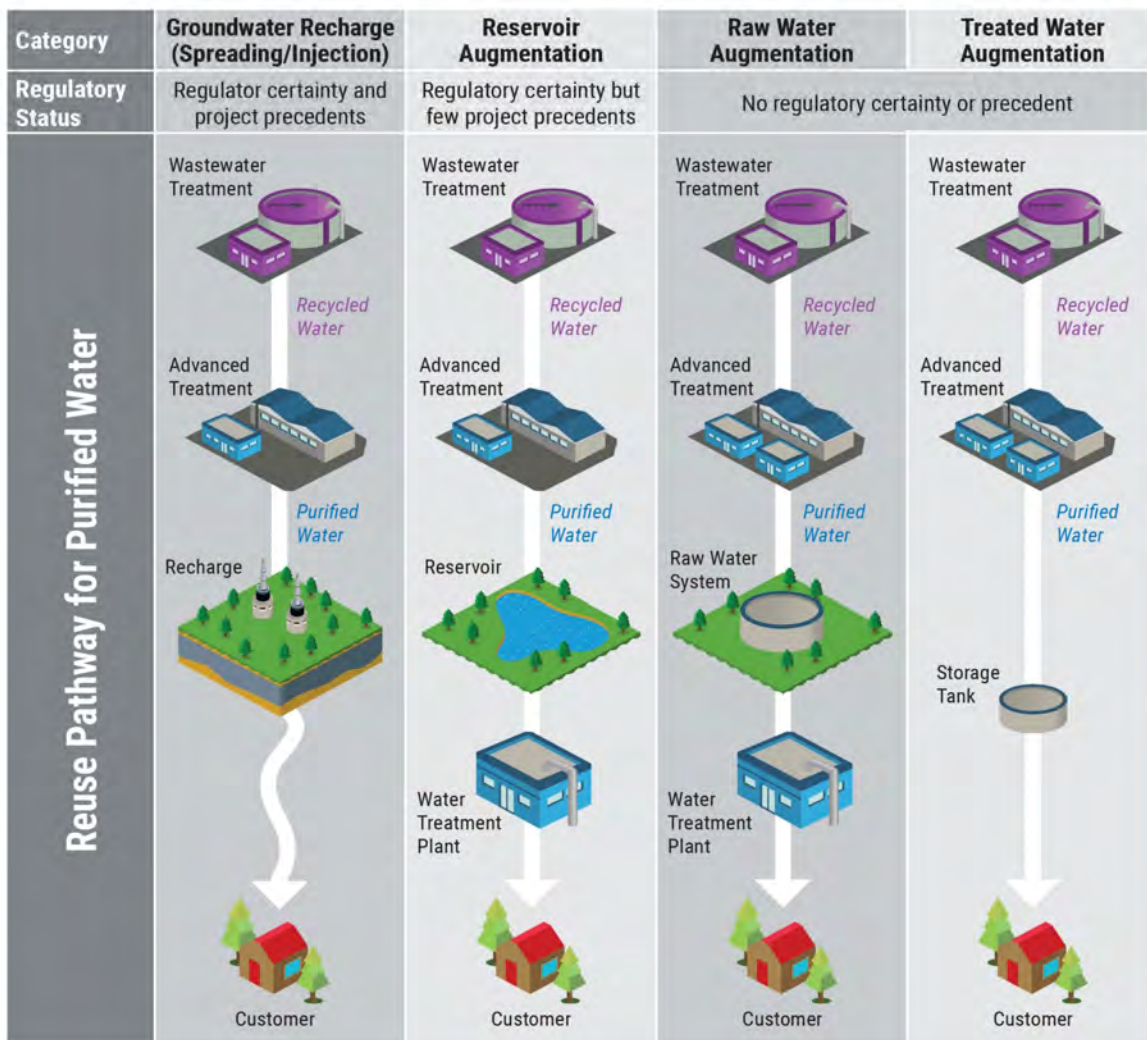


Types of Purified Water Projects Being Planned

Indirect Potable Reuse

Direct Potable Reuse

CA Potable Reuse Regulation Evolution



Indirect Potable Reuse

- SF-Peninsula Regional PureWater (Phase 1) (*Reservoir Augmentation*)
- ACWD-USD Purified Water (*Groundwater Recharge*)

Direct Potable Reuse

Treated Water Augmentation

- South Bay Purified Water
- SF Purified Water
- SF-Peninsula Regional PureWater (Phase 2) or 12 mgd alternative
- ACWD-USD Purified Water (possible Phase 2)

1. Public Acceptance

2. Treatment Needs (dependent on feed water quality, regulations)

- Secondary effluent quality
- Receiving water needs
- Anticipated discharge requirements
- Nutrients in brine

3. Operational Needs

- Ability to store and/or deliver
- Discharge requirements
- Operational readiness

4. Cost relative to other supply options

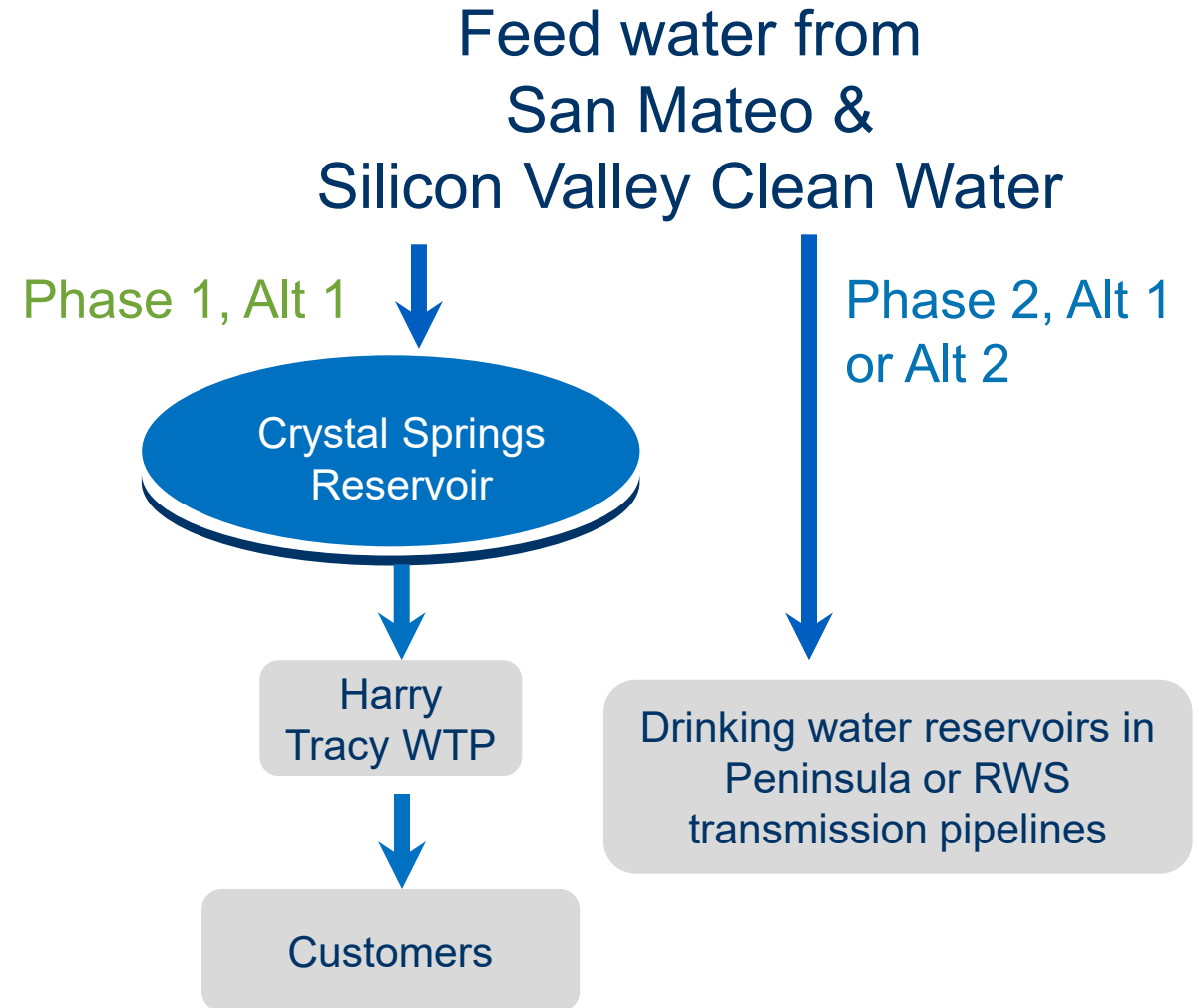
SF-Peninsula Regional PureWater (SPRP)

Planning Assumptions:

- 6-12 mgd of purified water can be produced from effluent from SVCW and San Mateo

Key Planning Considerations:

- Governance structure to be determined
- Potential DPR tie-in locations must be identified and evaluated

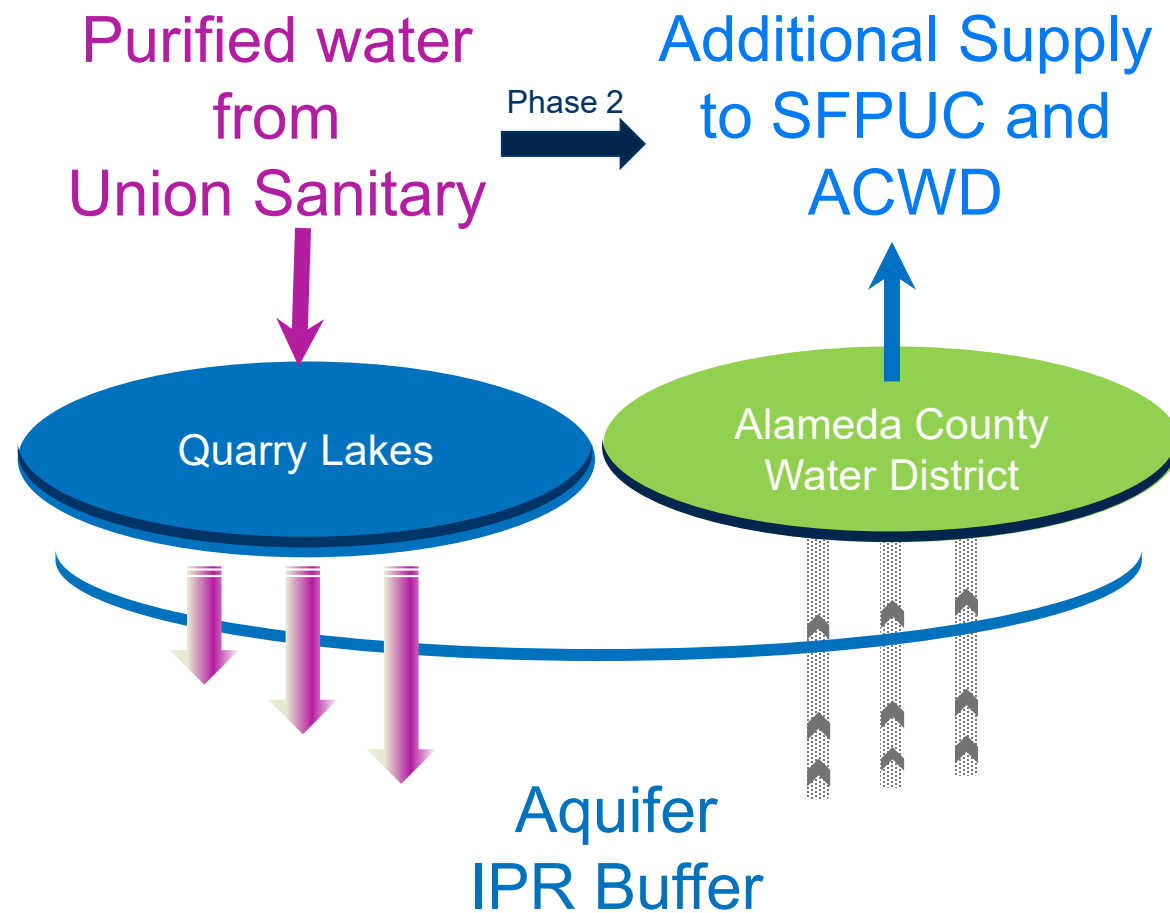


Planning Assumptions:

- Feed water from USD can produce up to ~10 mgd across two phases – 5.4 mgd in Phase 1 (IPR) and 4.9 mgd in Phase 2 (DPR)

Key Planning Considerations:

- Water quality from USD and associated advanced water treatment
- Water quality needs for Quarry Lakes
- Confirmation of plant siting



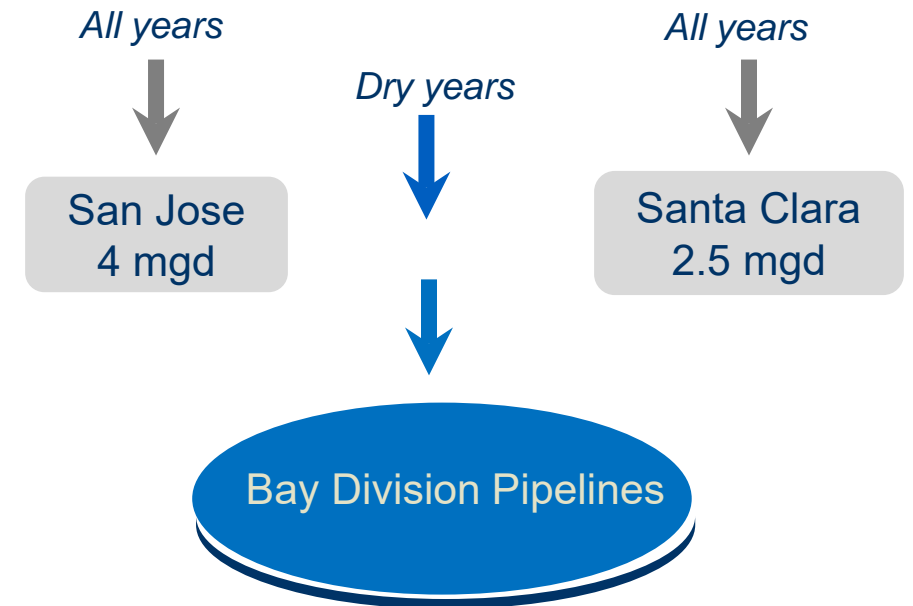
Planning Assumptions:

- 3.5 mgd of purified water available to the SFPUC in dry years only from a 10 mgd project with the Cities of San Jose and Santa Clara
- San Jose and Santa Clara to produce additional year-round supply of 6.5 mgd

Key Planning Considerations:

- Where and when deliveries enter RWS
- If there is more dry year supply available for additional benefit

Purified water from South Bay Purified Water near Regional Wastewater Facility

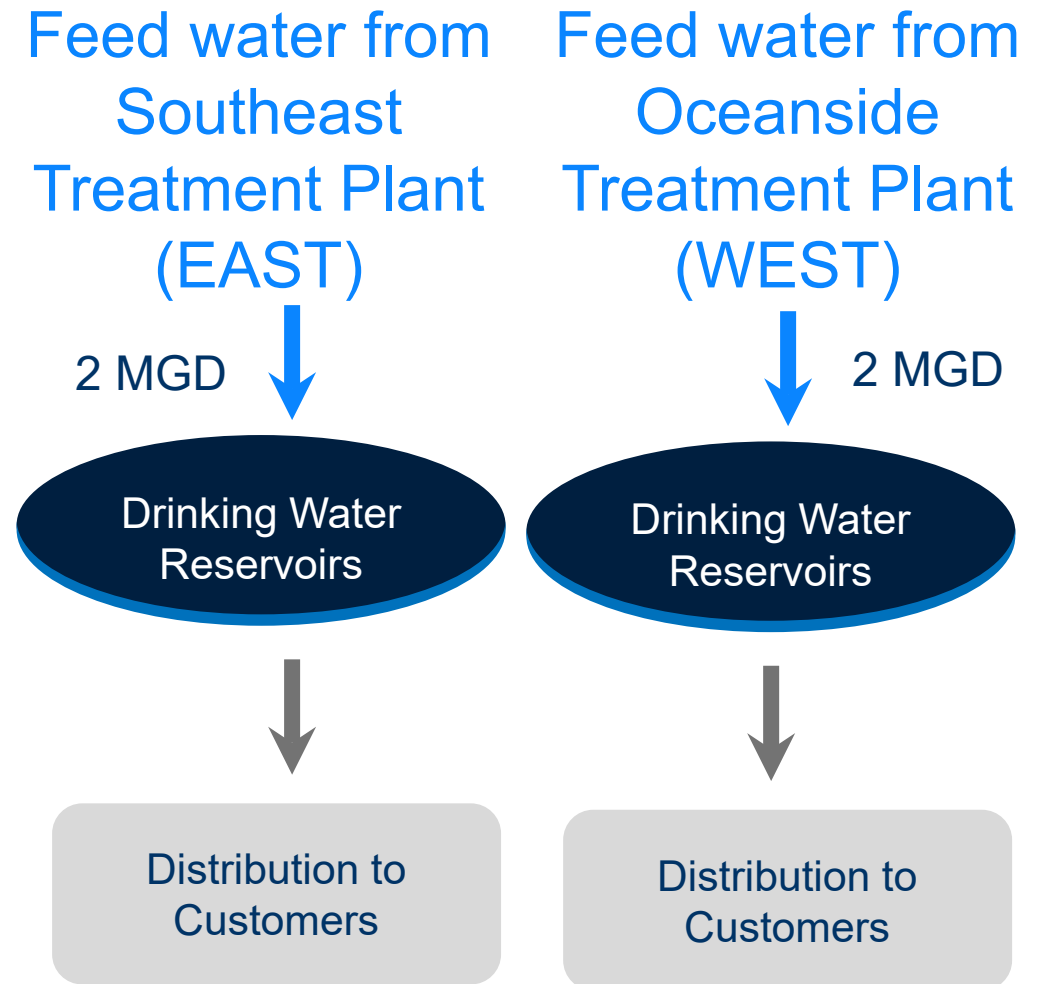


Planning Assumptions:

- Limitations on groundwater or surface water storage
- No water treatment plant within San Francisco

Planning Considerations:

- Equitable distribution throughout the city
- Need for new supplies locally despite downward trend on water supply needs



Sustained Engagement Critical for Purified Water

Building capacity and trust

Near-Term
(within < 2 years)

Mobile Purified Water Demonstration

- Introduce operators to advanced treatment that can be connected to their wastewater effluent
- Outreach to communities directly where they are

Medium-Term
(within 2-5 years)

Permanent Feature in SFPUC HQ Reuse

- Demonstrate commitment to reusing water (doing it ourselves)
- Outreach to SFPUC / City staff
- Outreach to decision-makers, public officials, others who come to 525GG

Long-Term
(in 5-10 years)

Full-scale demo widely accessible to public

- Building operational capacity, providing training and certification opportunities
- Building confidence of regulators
- Broad public engagement and education

Questions and Comments Regarding SFPUC's Purified Water Plans

Breakout Session and Report Out

Keep your showers short

Every minute uses a gallon more

START

TIMER DONE

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 **Hetch Hetchy Regional Water System**
Services of the San Francisco Public Utilities Commission

bawsca.org/conserve

Session Format

- You each will be assigned and moved to a breakout room at random
- The BAWSCA/EKI team will facilitate each breakout room discussion
- The session will be interactive, utilizing an approach that asks each participant to type directly onto the screen / slides shown as we move through the discussion
- At the conclusion of the breakout session, we will regroup and report out
- 30 minutes is reserved for the breakout session, with another 5 minutes reserved for the report out

Plan for Next Roundtable Workshop



Roundtable Workshop 4

- Summary of the Roundtable Workshops held (1 thru 3)
 - What did you find most informative from the Workshops?
 - What was missing?
- Discussion of the work product
 - Proposed contents of the report produced following the close of Workshop 4, which likely will include
 - Discussion of the work, including findings and recommendations from the experience
 - Appendices: workshop notes; PIFs
- Next steps
 - Should there be future workshops?
 - If so, what should the content be, and who should participate?
 - How best can engagement between the diverse group of participants be maintained?



Workshop 4 Moving Forward!

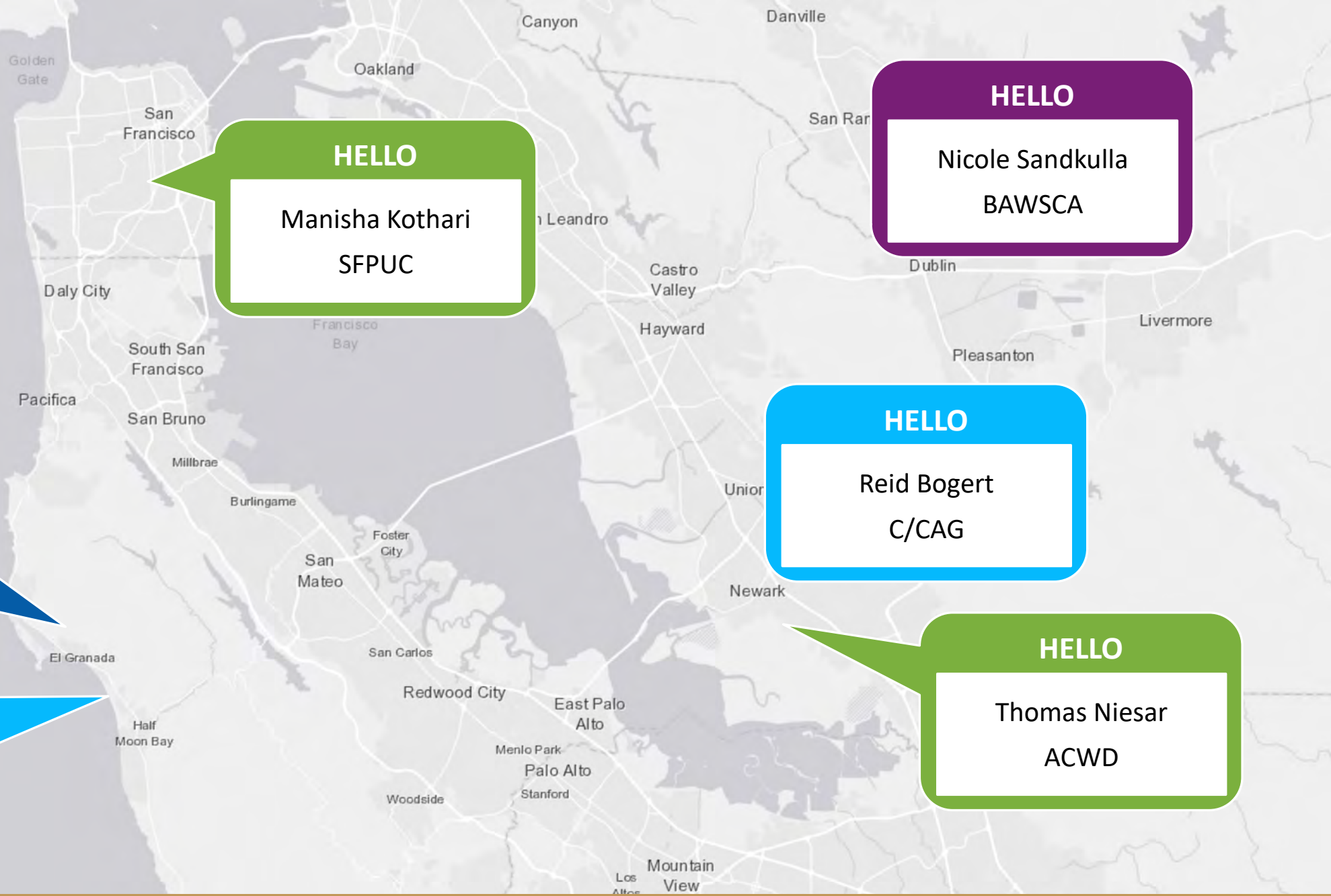
- Date: TBD Early 2023, In-Person
- We will spend some more time exploring and summarizing local and regional One Water projects and concepts, as well as discuss potential next steps. If conditions allow, a networking mixer will follow the Roundtable Workshop.

Adjournment to Next Meeting

Next Roundtable Workshop

Early 2023
Date and Time to be
Determined
Format: In Person

Introduce yourself and your organization



Introduce yourself and your organization

HELLO

Cathleen Brennan
Coastside CWD

HELLO

Stephanie MacDonald
RCD

HELLO

Phil Witt
Purissima Hills

HELLO

Kat Wuelfing
Mid-Pen WD

HELLO

Kim Springer
CCAG

HELLO

Linda Grand
City of Palo Alto

HELLO

Mansour Nasser
City of Sunnyvale



Introduce yourself and your organization

HELLO

Ed Cooney,
Hillsborough

HELLO

Azalea Mitch, San
Mateo

HELLO

Jarrold Fisher, San
Mateo Resource
Conservation District

HELLO

Carol Steinfeld, Sierra
Club

HELLO

Lisa Bilir, Palo Alto

HELLO

Rebeca Oliver, Palo
Alto



Introduce and discuss your projects identified by the Project Information Form

Resource Conservation District: water quality, water resources, stormwater, agriculture

ACWD: regional potable reuse project – purifying/discharging reuse into creek

CCWD: recycled water feasibility study (beginning early 2023)

C/CAG: countywide stormwater project; rain barrel program; sustainable streets master plan; subsurface stormwater capture



Introduce and discuss your projects identified by the Project Information Form

Purissima Hills WD: Wells – amount of groundwater isn't available – multiple yield wells. Located 3-4 locations. (300 gpm goal from multiple wells. Costs would be \$4 mil and \$60,000 operations and maintenance O&M

Mid-Pen WD: Groundwater well project (dry year supply) 200 gpm (160 AFY) \$4 mil

Sunnyvale: 7 wells not being used (6-7 mgd) – testing them on a regular basis

Purissima Hills WD: Abandoned quarry for emergency water basis (ex. Fire, earthquake) – not fed by surface water (groundwater fed) and might be privately owned currently – Option probably will not be used

Mid-Pen WD: Chlorine boosting station – limited storage facilities. Quantifying yields

Sunnyvale: recycled water (master plan) to identify where to expand the system and what customers to capture and treatment plan.

Resource Conservation District: grant funded agency – focus on habitat and human use – working with State parks and updating water lines. Water quality program

Mid-Pen: NO-DES trucks – clean out the system to not have to flush system - \$400,000 per truck. Potential for funding?

Palo Alto: One water plan – looking at different supply options – 1 year planning



Introduce and discuss your projects identified by the Project Information Form

SMC:

- Sea level rise planning tool
- Regional stormwater projects (5 project concepts)
- Benjamin Franklin School underground infiltration (Daly City)
- Half Moon Bay wetlands treatment near Pilarcitos Creek
- Redwood City City Hall, subsurface storage
- San Carlos; water treatment
- San Mateo Corp Yard Water treatment

Stanford:

- Academic study (Luthy)
- PI#2: “Sustainable Management Plan” – One Water Plan for the campus – demands through 2060 and how to meet them

Santa Clara:

- Request for Proposal for One Water Sustainability Water Master Plan
- Drilling of 2 groundwater wells in new part of City
- Rehabilitation of existing wells
- Recycled water expansion planned 50% of parks on recycled water, planning to serve more parks and schools
- Interested in grants



Introduce and discuss your projects identified by the Project Information Form

Palo Alto: Salt Removal Facility, remove salt from recycled water to improve quality of recycled water

Sierra Club Water Manifesto: Explains best practices. Promoted VW MWENDO. Sample regs and permitting path for onsite non-potable reuse (Spring 2023).

San Mateo Resource Conservation District: working with many suppliers on conservation and building water storage

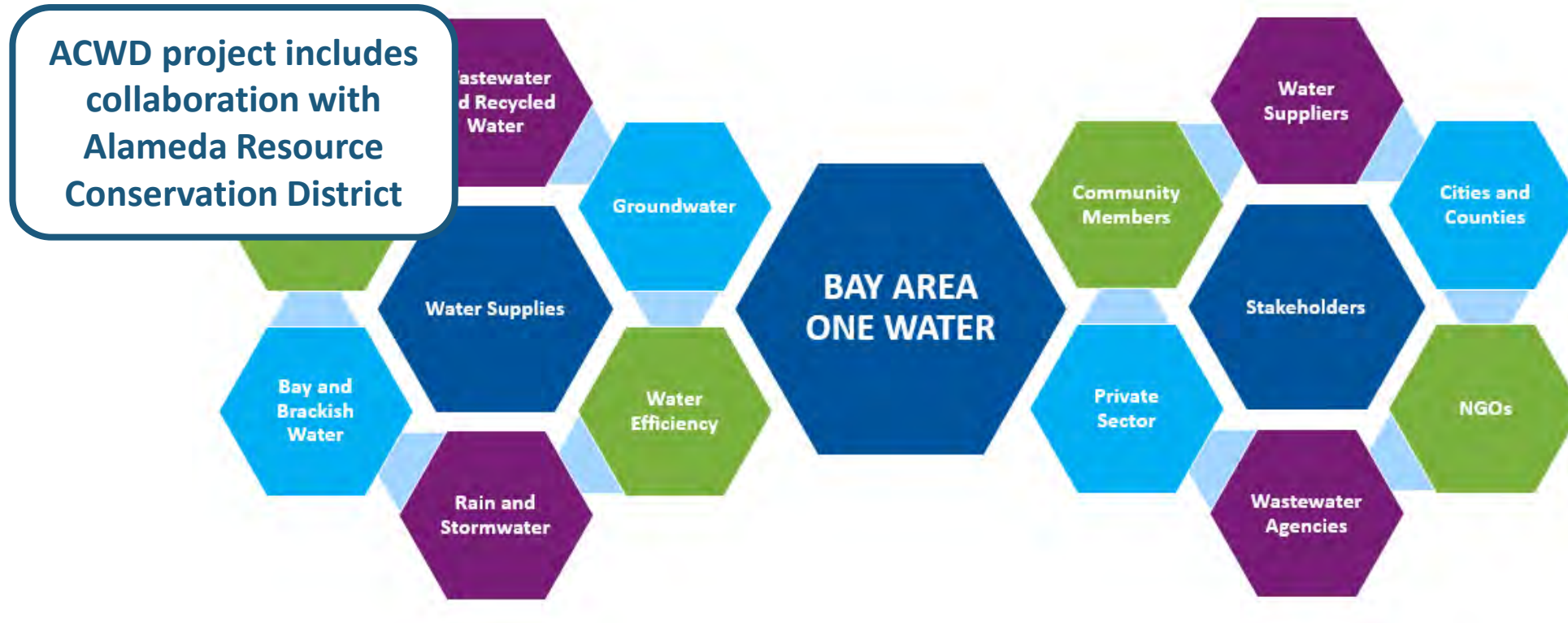
Hillsborough WD: Has looked at groundwater and stormwater opportunities but didn't find viable options.

City of San Mateo: Working with the SFPUC, Silicon Valley Clean Water, Redwood City, Mid-Pen. Treat effluent, send to Crystal Springs or for direct potable reuse. Biggest challenge is institutional barriers. WWTP, not a water supplier

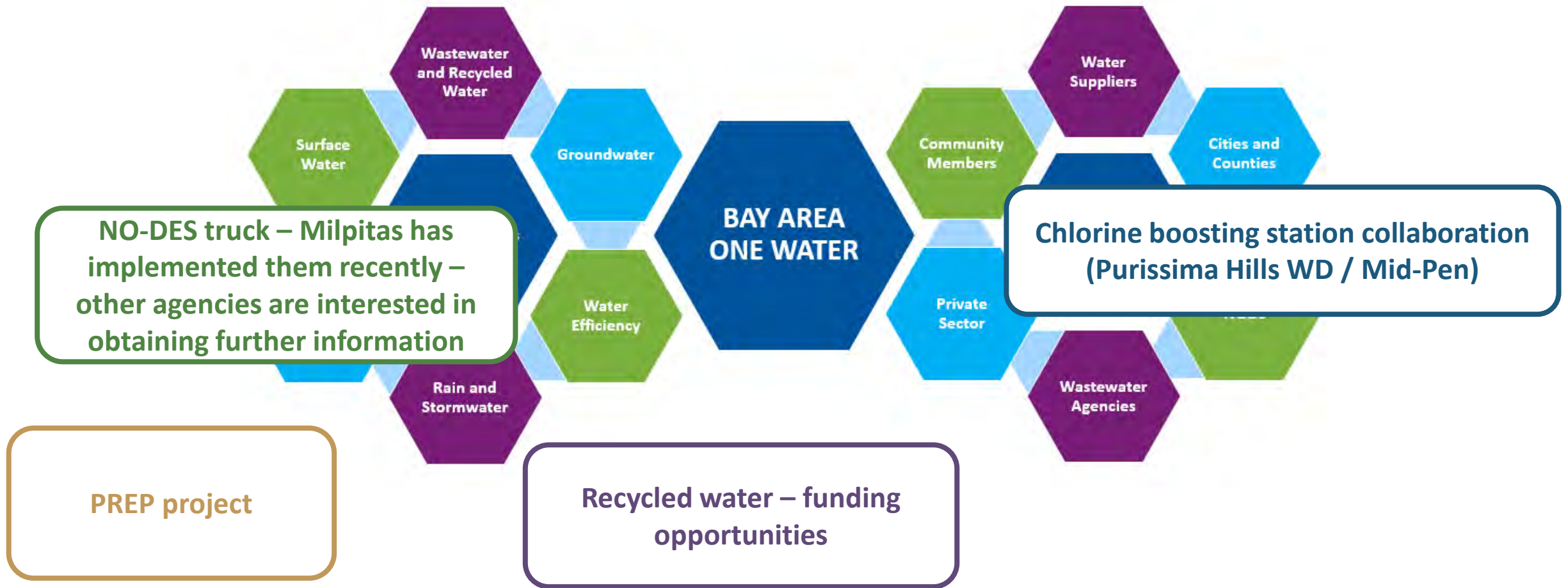
Palo Alto One Water Plan: Looking at all water supply options to reduce reliance on RWS. Recycled water, stormwater, groundwater.



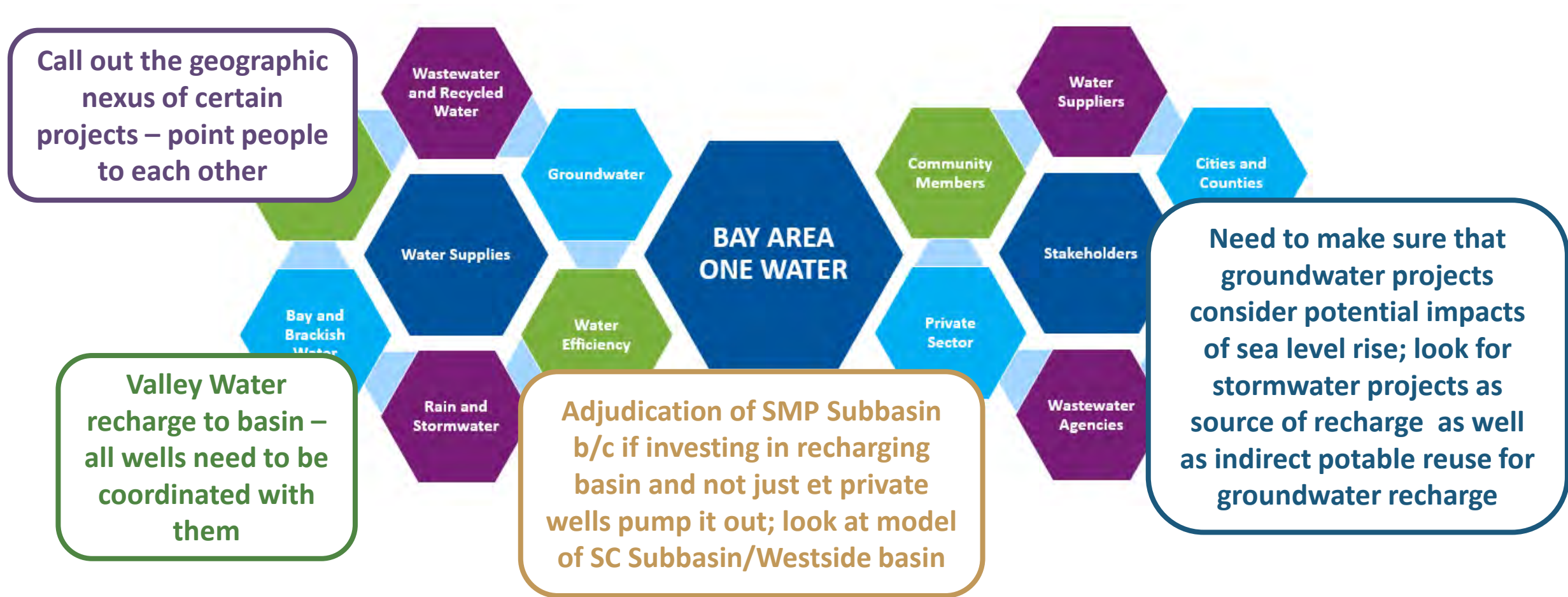
Notice any opportunities for collaboration? Inspired by any of the projects? If so, in what ways?



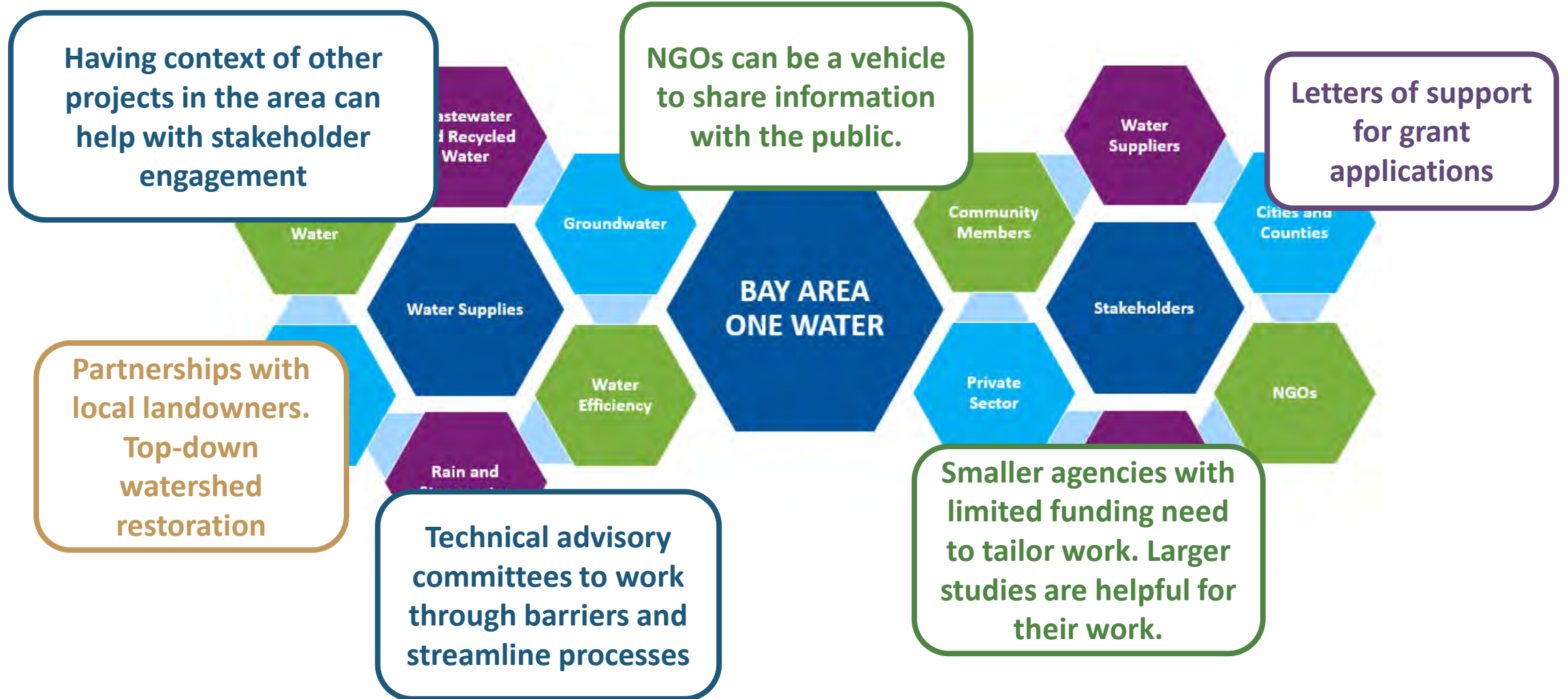
Notice any opportunities for collaboration? Inspired by any of the projects? If so, in what ways?



Notice any opportunities for collaboration? Inspired by any of the projects? If so, in what ways?



Notice any opportunities for collaboration? Inspired by any of the projects? If so, in what ways?



From these past 3 workshops, what has been most helpful to you and what would you have liked done differently?

Worked well

Helpful to know what other agencies are doing; very helpful for reaching out; more resources – not having to start from scratch; grant funding summary was very helpful

Want more of...

Group people according to region/sources, etc. – make it more of a working session to really kick start collaboration – maybe around funding



From these past 3 workshops, what has been most helpful to you and what would you have liked done differently?

Worked well

Breakout groups are helpful for smaller discussions. Facilitates information sharing. Creating a forum for bringing folks together to discuss One Water.

Information on grants and funding opportunities (x2).

One Water lens. Map of water supply concepts.

Want more of...

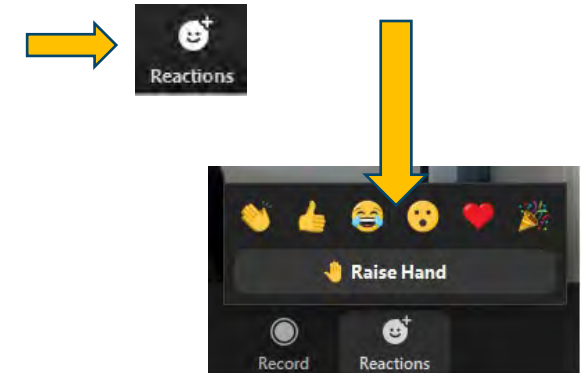
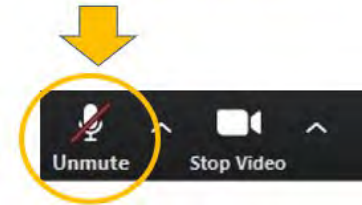
Ongoing forum or online discussion groups where folks can ask questions.



Meeting Instructions While We Gather

- You have been muted upon entry
- Please feel free to **Unmute** yourself to say “Hi” and test your sound connection
- Please **Mute** yourself during meeting when you are not talking
- **During the meeting, BAWSCA staff will mute your sound and video if necessary**
- The **Raise Hand** feature will be used for questions
- ***NEW*** To get the **Raise Hand** button, Click on **Reactions** button at the bottom of your screen and Select **Raise Hand**
- The **Chat** function is enabled
- If you have technical difficulties, please text Kyle Ramey at 650-787-1793

Bottom left corner
of your screen





“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

[BAWSCA Act, AB2058 (Papan-2002)]

Water Supply Reliability Roundtable

Workshop 4: Moving Forward!

February 14, 2023

Call to Order & Welcome



 **Replace your lawn with a water-wise landscape**

We're in a drought, cut waste out.

BAWSCA
Bay Area Water Supply & Conservation Agency

 Hetch Hetchy
Regional Water System
SERVICE OF THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION

bawasca.org/conserve

Introduction & Purpose of Workshop Four

😊 Water plants no more than twice a week

😞 Never when it's raining

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Roundtable Workshop Series



Workshop 1

Demystifying the One Water Concept

- Date: May 24, 2022; 10AM-12PM, Zoom Meeting
- We will demystify the One Water Concept and explore how it can be applied to the BAWSCA region. Speakers will provide an overview of the One Water Concept and examples of successful implementation.



Workshop 2

Regional Partnerships Mean Regional Funding

- Date: June 28, 2022; 10AM – 12PM, Zoom Meeting
- We will focus on how regional partnerships can be leveraged for a variety of regional funding solutions. Speakers will discuss regional funding models that have been employed in the Bay Area and Southern California to bring projects into reality.



Workshop 3

Identifying Local “One Water” Projects

- Date: November 8, 2022; 1PM -3PM, Zoom meeting (although may be in-person if conditions warrant)
- Share your organization’s planned or potential One Water projects with the group, whether they're in the early stages of planning, or a mere twinkle in your eye. With all local projects on the table, we can begin to identify real and meaningful opportunities for One Water collaborations and funding opportunities. If conditions allow, a networking mixer will follow the Roundtable Workshop.



Workshop 4

Moving Forward!

- Date: February 14, 2023; 10 AM-12 Noon
- We will spend time further exploring and summarizing local and regional One Water projects and concepts, as well as discuss potential next steps.

One Water Roundtable Series

Hosted by



with support from



Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- Goal:
 - Understanding of how projects can fit within the one-water concept
 - Identification of collaborative opportunities
 - Identify how entities can best support, help finance, permit/approve, and/or expand projects or programs that have the potential to offer multiple benefits

Workshops 1 and 2 – Discussion That Took Place

- This first workshop (May 24, 2022) introduced the concept of “One Water”
 - Participants were asked to share their view / opinion as to what “One Water” means to them
 - A presentation on the Los Angeles (LA) 2040 Plan
 - A presentation summarizing Palo Alto’s upcoming One Water Plan development
- The second workshop (June 28, 2022) discussed how others have approached the financing of multi-benefit projects
 - One Water projects funding options
 - A presentation on San Bernadino Valley Municipal Water District’s approach to project funding
 - A presentation on the City/County Association of Government’s (C/CAG) on their Countywide Green Infrastructure Funding Evaluation

Workshop 3 – Discussion That Took Place

- Shared the results of the “Project Information Form (PIF)” gathering effort, and pointed to specific examples of the projects envisioned
- Presented an inventory of grant/funding opportunities for one-water projects
 - A listing of current and upcoming grant opportunities
 - Discussed how BAWSCA (or other participant agencies) could assist in applying for and or securing grant funding
- Learned about SFPUC’s efforts, as part of their Alternative Water Supply Program, to partner on potable reuse project opportunities within the BAWSCA service area

Purpose of Workshop 4

- Today's workshop will serve as a means to
 - Receive an update as to projects being contemplated, or in development, by various agencies (as documented via PIFs received)
 - Receive updated information regarding pending funding (grant) opportunities
 - Learn more about Alameda County Water District's (ACWD's) potential potable reuse project
 - Discuss the proposed content of a report that will be produced summarizing the four Roundtable workshops
 - Plan for the future of the Roundtable

Roundtable Workshop Report and BAWSCA's Long-Term Reliable Water Supply Strategy

 **Only wash when the hamper's full**

 **Not full? Not today**

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Roundtable Report

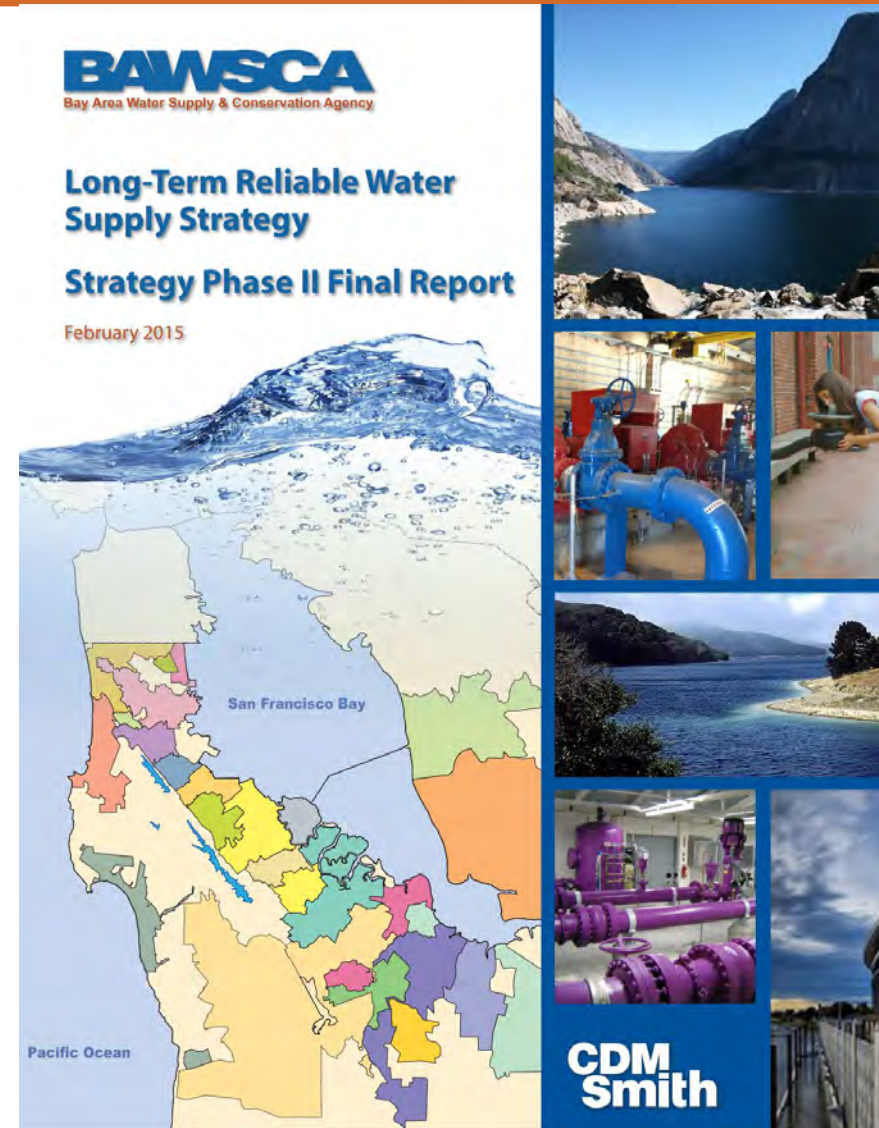
- BAWSCA committed to preparing a report detailing the work effort once the 4th Roundtable workshop was held
- This report will be made available to Roundtable participants and the public on the Roundtable website
 - BAWSCA will also provide the report to our Board
- BAWSCA anticipates that the BAWSCA Board as well as other interest groups will request presentations detailing the work effort
 - BAWSCA will use the report in presentation preparation
- BAWSCA anticipates that the report will be finalized by mid-April 2023

Roundtable Report Contents

- BAWSCA is in the process of finalizing the content / report outline
- The Roundtable Report will likely include the following sections
 - Introduction
 - Purpose and Goal of the Roundtable Workshops
 - Stakeholders Invited / Participants
 - Summary of each Roundtable Workshop, including meeting minutes
 - Project Information Forms summary, including a grouping by project type and geographic extent
 - Grant opportunities identified
 - Lessons learned
 - Next steps regarding future meetings
 - Appendix of PIFs submitted
 - Appendix of SFPUC's Alternative Water Supply Projects with BAWSCA agency partners
 - Appendix of presentations given at the Workshops (PPTs)
 - Appendix with support documents prepared (fact sheets, outreach materials, website developed, etc.)

BAWSCA's Long-Term Reliable Water Supply Strategy

- BAWSCA's Long-Term Reliable Water Supply Strategy (Strategy) was published in 2015
- The Strategy was a five-year effort by BAWSCA and its member agencies to identify appropriate water management actions that provide long-term water supply reliability for the region
- To prepare the Strategy, a comprehensive assessment of the regional water supply reliability needs through the year 2040
- Included in the work was an evaluation of potential water supply reliability projects that could be implemented
- It proposed a suite of actions by BAWSCA



Strategy – Suite of Recommend Actions (2015)

- Recommended Actions:
 - Lead water transfer development and implementation including identifying and evaluating water storage options
 - Facilitate desalination partnerships and pursue outside funding for related studies
 - Support agency-identified projects (i.e., recycled water and groundwater) and local capture and reuse
 - Participate in regional planning studies in cooperation with others
 - Continue monitoring regional water supply investments and policies
- For each recommended action, several work efforts to be performed by BAWSCA were proposed to further strategy implementation
- Since 2015, BAWSCA annual budget and work plan was aligned with the 2015 Strategy

Update of BAWSCA's Long-Term Reliable Water Supply Strategy

- Conditions have changed since 2015 such that an update of the Strategy is warranted
- Changes include the following:
 - BAWSCA has prepared updated demand studies
 - BAWSCA member agencies have prepared new Urban Water Management Plans (UWMPs)
 - BAWSCA is updating the Tier 2 Plan for SF RWS supply allocations during water shortage emergencies
 - Water supply projects at the member-agency specific level have come online and moreover agencies have future plans that were not envisioned in 2015
 - Regulatory pressures are mounting, some of which have the potential to impact existing supply reliability
 - Large regional water supply projects, such as the Los Vaqueros Reservoir Expansion Project, have advanced.
 - The SFPUC has embarked upon the preparation of an Alternative Water Supply Plan which informs BAWSCA and its member agencies regarding their future plans toward water supply reliability

Multi-Phased Approach to Strategy Update

- Phase 1 – Scope the update of the Strategy
 - BAWSCA will be issuing a-Request for Proposal (RFP) to secure consulting assistance with the Scoping of the Strategy
 - Tentatively the RFP will be released in February of 2023
 - BAWSCA anticipates the scoping work to begin in the Spring of 2023 and extend into the Fall of the coming fiscal year
 - BAWSCA has written the RFP such that the selected consultant could be used to craft the updated Strategy, although BAWSCA has the option to issue a subsequent RFP for the work effort
 - BAWSCA's current fiscal year (FY) budget and proposed FY 2023-24 budget includes monies for the scoping effort
- Phase 2 – Strategy update
 - BAWSCA anticipates that the update of the Strategy will commence in FY 2023-24
 - Update efforts are anticipated to extend into FY 2024-25

Strategy Update – Phase I (Scoping Effort)

- Task 1 – Document Review
 - BAWSCA’s existing Strategy Final Reports
 - BAWSCA’s most recent Demand Study and Annual Report
 - BAWSCA’s Pilot Water Transfer Report
 - BAWSCA Member Agency PIFs collected by BAWSCA detailing future agency-specific water supply development plans
 - SFPUC’s recent quarterly report(s) as prepared for its Alternative Water Supply Program
 - Member Agency UWMPs, and in particular sections of said UWMPs that detail future water supply development
 - Consultant will be tasked with identifying similar “plans” as prepared by other water agencies for their Strategies / long-term water supply planning efforts
- Task 2 – Stakeholder Engagement
 - BAWSCA member agency representatives
 - BAWSCA Board
- Task 3 – Meeting Attendance and Technical Support
 - Various technical memorandums will be produced to facilitate the development of a Scope of Work for the update
 - Materials as needed to gather stakeholder input

Long Term Reliable Water Supply Strategy Update (Phase 2 Work Effort)

- To develop the Strategy update, BAWSCA envisions that a stakeholder task force, separate from a member agency tasks force, is likely to be needed
- Engagement with the task force, and the public at large, is likely to include workshops and presentations
- Those workshops and presentations may be held separately, or could be conducted via any future Roundtable Workshops
 - Much will depend on the scope of the update as well as on how such a scope aligns with the focus of the Roundtable

PIF Forms and Funding Opportunities

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Updates to the Project Information Forms and Funding Opportunities

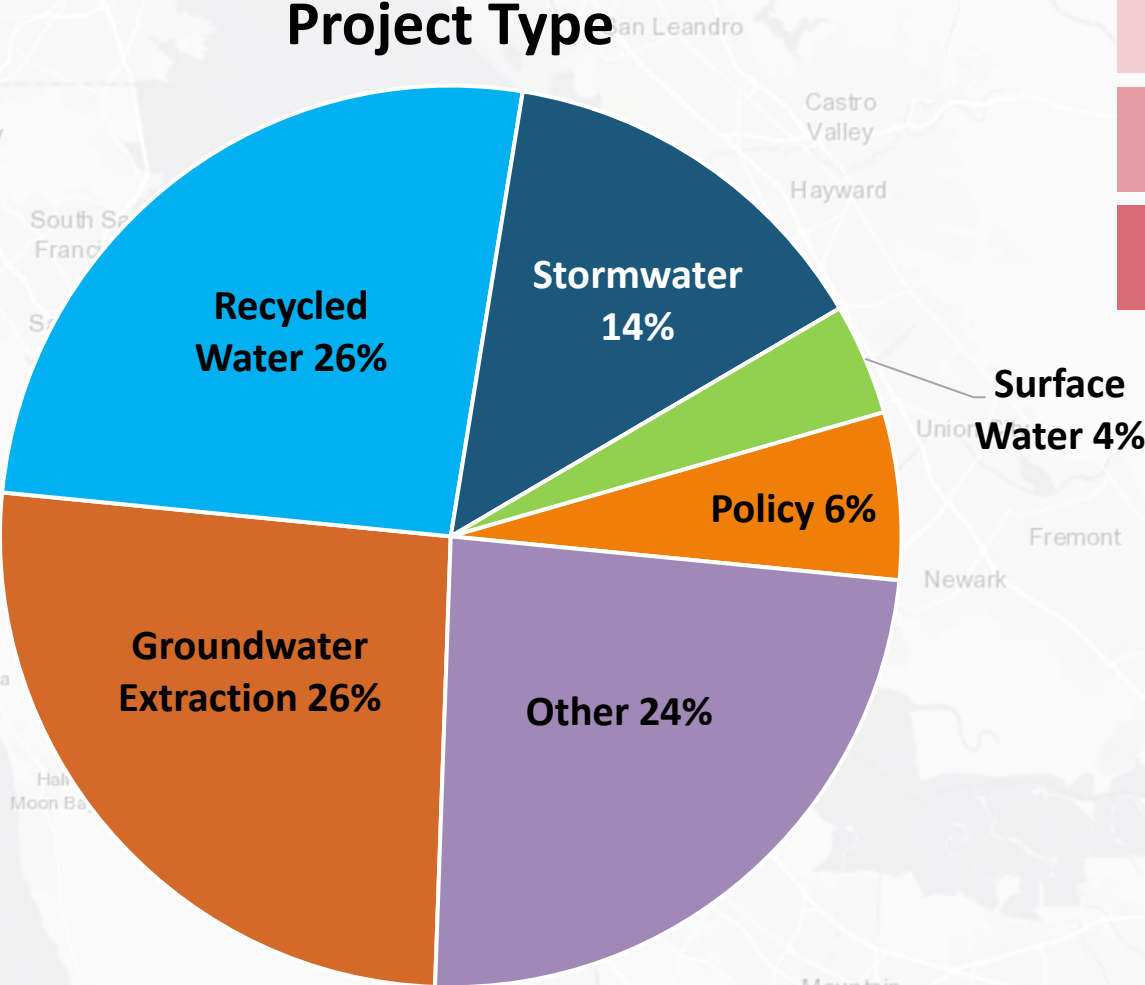


Updated Summary of Project Information Forms



Project Information Forms – By the Numbers

Total Estimated Yield ranging **21-40 MGD**

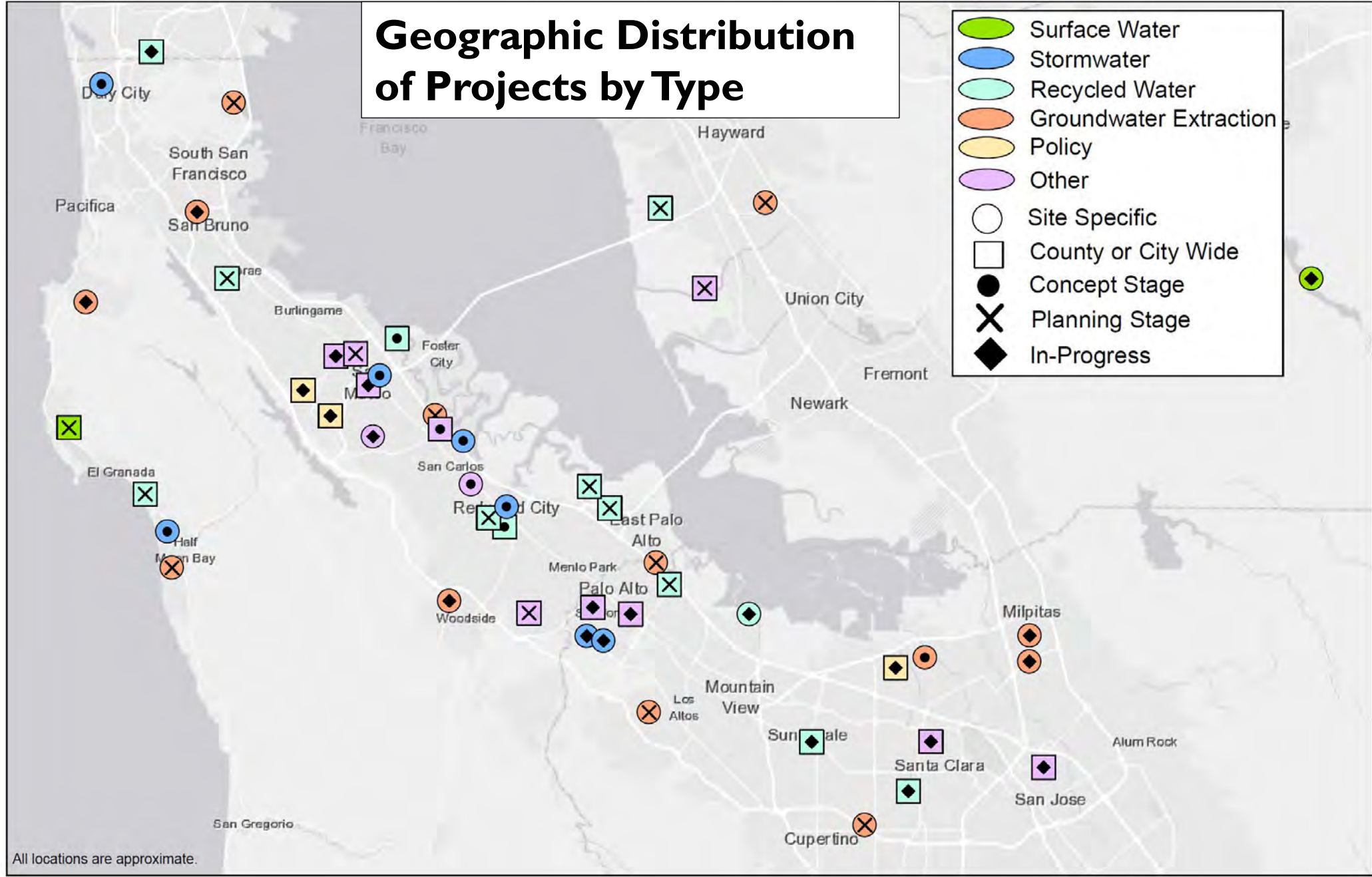


Concept Stage	20%
Planning Stage	38%
In-Progress	42%



Geographic Distribution of Projects by Type

- Surface Water
- Stormwater
- Recycled Water
- Groundwater Extraction
- Policy
- Other
- Site Specific
- County or City Wide
- Concept Stage
- Planning Stage
- In-Progress



All locations are approximate.

Summary of Active Funding Opportunities

- Table summarizing the current and upcoming available funding options from the following sources:
 - California Department of Water Resources
 - United States Bureau of Reclamation
 - California State Water Resources Control Board
 - United States Environmental Protection Agency
 - California Infrastructure and Economic Development Bank
- Table will be provided via email following the workshop



Funding Programs from the California Department of Water Resources (DWR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
<p>Released on 6/1/2022. Ongoing until all funds are awarded</p>	<p><u>DWR: Riverine Stewardship Program</u></p>	<ul style="list-style-type: none"> - Funded by Prop 13, \$13 million 	<ul style="list-style-type: none"> - Program supports fish passage improvements, and other similar projects to accomplish increased ecological, stream management, climate, and community improvement benefits - Program goals include: (1) protecting, restoring, and enhancing the natural environment of riparian systems. (2) supporting innovations in green infrastructure that support fish migration improvements, and habitat enhancement that benefit aquatic species, by reconnecting aquatic habitat to help fish and wildlife endure drought and adapt to climate change 	<ul style="list-style-type: none"> - Tribes, local public agencies, and certified nonprofits - Geographic limit of the “Delta export service area” and Counties within the Association of Bay Area Governments (Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma) - Areas of the state outside the Delta that receive water from the State Water Project or the Central Valley Project, either directly or by exchange, by means of diversions from the Delta 	<ul style="list-style-type: none"> - Eligible projects must support water quality and may include: - Innovative green infrastructure solutions that enhance water availability, groundwater storage, fish and wildlife habitat restoration, creation of cool water refugia, and address sedimentation or other water quality or water supply issues affecting fish and wildlife. - Fish-friendly intakes for agriculture diversions that can provide for fish passage while allowing for agricultural drainage and systems for better instream water quality benefits for fish. - Restore, conserve, or increase habitat and restore water flow through aquatic habitat to provide physical water quality and supply benefits to support fish and wildlife and restore ecological function. - Innovative fish passage solutions that remove barriers to fish migration or improve passage. - Innovative solutions to improve water conveyance and water loss within agricultural diversions to assist with increasing water supply needed to support native fishes and habitat. Increase or improve floodplain availability. - Habitat enhancement projects that benefit aquatic species, including reconnecting aquatic habitat to help fish and wildlife endure drought and adapt to climate change. - Gravel injection projects that support native fish populations. - Installation of green infrastructure that improve water quality from leachates that are lethal to threatened or endangered aquatic species
<p>First-come, first-served basis until all funds have been expended or until 12/29/2023</p>	<p><u>Small Community Drought Program</u></p>	<ul style="list-style-type: none"> - \$305 million 	<ul style="list-style-type: none"> - Intended to offer immediate and near-term financial and technical assistance to small communities facing water supply challenges due to current drought 	<ul style="list-style-type: none"> - Small communities not served by an Urban Water Supplier (UWS is a public or privately owned supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually) 	<ul style="list-style-type: none"> - Provide reliable water storage - Improve water system storage - Replace aging and leaking water system infrastructure - Replace aging and leaking water system infrastructure - Provide backup power sources for water systems - Hauled water - Temporary community water tanks - Water vending machines - Emergency water interties

Funding Programs from the U.S Bureau of Reclamation (USBR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
<p>WaterSMART Programs</p>			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
<p>Opened on 12/23/2022, due on 2/28/2023</p>	<p><u>Water Recycling and Desalination Planning</u></p>	<ul style="list-style-type: none"> - Total program funding: \$30 million - Max award: \$5 million - Min award: \$100,000 	<ul style="list-style-type: none"> - Water recycling and desalination are essential tools for stretching the limited water supplies in the Western United States - Water recycling projects develop and supplement urban and irrigation water supplies through water reuse—thereby improving efficiency, providing flexibility during water shortages, and diversifying the water supply 	<ul style="list-style-type: none"> - Special district governments - County governments - State governments - City or township governments - Native American tribal governments (Federally recognized) 	<ul style="list-style-type: none"> - Feasibility studies, planning activities, preliminary design and environmental compliance activities that support the development of water recycling and desalination projects that will supplement existing fresh water supplies in urban and agricultural areas in the Western United States
<p>New funding opportunity anticipated in April 2023</p>	<p><u>Drought Response Program</u></p>		<ul style="list-style-type: none"> - Program supports a proactive approach to drought by providing assistance to water managers to develop and update comprehensive drought plans and implement projects that will build long-term resiliency to drought 	<ul style="list-style-type: none"> - Native American tribal governments (Federally recognized) - State governments - City or township governments - Special district governments - County governments - Non-profits 	<ul style="list-style-type: none"> - Drought contingency planning: <ul style="list-style-type: none"> - Projects that develop a drought contingency plan or update an existing plan to meet the required elements described in the Drought Response Program Framework - Drought Resiliency Projects: <ul style="list-style-type: none"> - Projects that help communities prepare for and respond to drought. Typically, these types of projects are referred to as "mitigation actions" in a drought contingency plan. Eligible project types include: <ul style="list-style-type: none"> - Infrastructure improvements, modifying surface water intakes, and recharge, treatment, and storage facilities - Decision support tools, including drought forecasting tools, and water measurement and monitoring equipment - Emergency Response Actions: <ul style="list-style-type: none"> - Eligible actions are limited to temporary construction activities and other actions authorized under Title I that do not involve construction of permanent facilities, including water purchases and use of USBR facilities to convey and store water
<p>FY23 funding opportunity expected in Spring 2023</p>	<p><u>Applied Science Grants</u></p>	<ul style="list-style-type: none"> - Up to \$200,000 for projects to be completed within two years - Non-federal cost share of 50% or more of the total project cost 	<ul style="list-style-type: none"> - Program to provide financial assistance for projects to develop hydrologic information and water management tools and improve modeling and forecasting capabilities. 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts, or other organizations with water or power delivery authority - Universities - Non-profits 	<ul style="list-style-type: none"> - Improved hydrologic modeling, forecasting tools, and/or GIS and data management - Projects to enhance modeling capabilities to improve water supply reliability and increase flexibility in water operations - Projects to improve or adapt forecasting tools and technologies to enhance management of water supplies and reservoir operations - Projects to improve access to and use of water resources data, or to develop new types of data to inform water management decisions

Funding Programs from USBR cont'd

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
WaterSMART Programs			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
Next funding opportunity is expected in Winter 2023	<u>Water Marketing Strategy Grants</u>	<ul style="list-style-type: none"> - Up to \$200k for projects to be completed in 2 years with a smaller project scope (Few partners involved, smaller geographic area, builds on prior work, etc.) - Up to \$400k for projects to be completed in 3 years with a larger project scope (more partners, larger geographic area, more complex water markets, etc.) - Non-federal cost share: 50% or greater 	<ul style="list-style-type: none"> - Funded through Bipartisan Infrastructure Law - Program objective: Water markets between willing buyers and sellers can be used to help water users meet demands efficiently in times of shortages, thereby helping prevent conflicts 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts - State, regional, or local authorities, which include one or more organizations with water or power delivery authority as members - Other organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Collaborative planning efforts to develop water markets to address water supply reliability and increase water management flexibility - Planning activities to develop water marketing strategies that establish or expand water markets or water marketing activities between willing participants - Planning activities that support the development of a water marketing strategy, this can include pilot activities if applicable - Projects must address the three required project components: Outreach, Scoping and planning, and Develop a strategy
Opened on 1/24/2023. Applications due 3/28/2023	<u>Environmental Water Resources Projects</u>	<ul style="list-style-type: none"> - Program funding is allocated through a competitive processes - Applicants may request federal funding up to \$3 million for projects with total project costs of \$6 million or less to be completed within 3 years. - Projects that increase water supply reliability for ecological value and developed as part of a collaborative process may be eligible to receive up to 75% Federal cost share contribution 	<ul style="list-style-type: none"> - Funding to support projects focused on environmental benefits that have been developed as part of a collaborative process to increase the reliability of water resources - Projects that provide benefits to multiple sectors, including projects that benefit ecological values or watershed health and agricultural, municipal, tribal, or recreation water uses, are encouraged and prioritized. 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts, or other organizations with water or power delivery authority - State, regional, or local authorities, whose members include one or more organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values - Water management or infrastructure improvements to mitigate drought-related impacts to ecological values - Watershed management or restoration projects benefitting ecological values that have a nexus to water resources or water resources management - Broad project eligibility, but focus is on water management projects with environmental and ecological benefits and multi-benefit projects
FY23 funding opportunity is scheduled for Summer 2023	<u>Cooperative Watershed Management Program – Phase I</u>	<ul style="list-style-type: none"> - Up to \$200,000 may be awarded to an applicant per year, for a period of up to two years - No non-federal cost-share required 	<ul style="list-style-type: none"> - Funding to encourage diverse stakeholders to form local solutions to address their water management needs 	<ul style="list-style-type: none"> - States - Native American tribes - Local irrigation and water districts - Local government entities - Non-profit organizations 	<ul style="list-style-type: none"> - Funding for watershed group development, watershed restoration planning, and watershed management project design - Applicants could use funding to develop bylaws, a mission statement, complete stakeholder outreach, develop a watershed restoration plan, and watershed management project design

Funding Programs from USBR cont'd

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
WaterSMART Programs			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
Next funding opportunity is expected in Summer 2023	<u>Desalination Construction</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost, up to \$30 million - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Funding for planning, design, and construction of Water Infrastructure Improvements for the Nation (WIIN) Act brackish groundwater and ocean desalination projects 	<ul style="list-style-type: none"> - Sponsors of desalination with completed feasibility studies that have been submitted to Reclamation for review 	<ul style="list-style-type: none"> - Planning, design, and construction of ocean or brackish water desalination projects
Next funding opportunity is expected in Spring 2023	<u>Large-Scale Water Recycling Projects</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Funding for planning, design, and construction of Large-Scale Water Recycling Projects with a total project cost greater than \$500 million 	<ul style="list-style-type: none"> - Sponsors of water recycling projects with a total project cost greater than \$500 million with completed feasibility studies that have been submitted to Reclamation for review. 	<ul style="list-style-type: none"> - Projects will become eligible to compete for funding once Reclamation has reviewed a feasibility study submitted by the non-Federal project sponsor and has informed Congress that the project meets Reclamation's requirements
Next funding opportunity is expected in Summer 2023	<u>Title XVI Authorized Projects</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost, up to \$20 million, unless otherwise specified by Congress - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Program includes funding for the planning, design, and construction of water recycling and reuse projects in partnership with local government entities 	<ul style="list-style-type: none"> - Sponsors of water reclamation and reuse projects specifically authorized for funding under Title XVI of P.L. 102-575 	<ul style="list-style-type: none"> - Planning, design, and construction of water recycling and reuse projects
Next funding opportunity is expected in Summer 2023	<u>Title XVI WIIN Act Water Reclamation and Reuse Projects</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost, up to \$30 million - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Funding for planning, design, and construction of Water Infrastructure Improvement for the Nation (WIIN) Act water recycling and reuse projects 	<ul style="list-style-type: none"> - Sponsors of water reclamation and reuse projects with completed feasibility studies that have been submitted to Reclamation for review 	<ul style="list-style-type: none"> - Planning, design, and construction of water recycling and reuse projects

Funding Programs from the California State Water Resources Control Board (SWRCB)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served	Water Recycling Funding Program (WRFP) - Planning Grant Application	<ul style="list-style-type: none"> - Prop 1 provides \$625 million for recycled water projects - Prop 13 provided financial assistance through loans and grants for planning and construction activities 	<ul style="list-style-type: none"> - Program purpose is for local public agencies to investigate the feasibility of recycling wastewater and assist them with completing planning for water recycling projects by supplementing local funds 	<ul style="list-style-type: none"> - Local public agencies 	<ul style="list-style-type: none"> - Recycled wastewater feasibility studies - Planning for water recycling projects - Generally, all costs necessary to determine the feasibility of using recycled water and to select an alternative to offset or augment the use of fresh/potable water from state or local supplies may be eligible for the planning grant. The Plan of Study will be used to determine the costs eligible for grant funding - Each proposed study must be distinct from previous WRFP grant funded studies. The applicant should confer with Division staff before applying for additional planning grants to ensure that new studies are distinct and eligible
First-come, first-served	Water Recycling Funding Program (WRFP) - Construction Grant Application	<ul style="list-style-type: none"> - Prop 68 provided \$72 million in loans and grants for recycled water planning and construction - Maximum grant amount per project: <ul style="list-style-type: none"> - Planning grant - \$500,000 - Construction grant - \$15 million 	<ul style="list-style-type: none"> - Water recycling construction projects must offset or augment state or local fresh water supplies - A water recycling construction project may receive any combination of grant and loan financing available to the State Water Board for which it is eligible - The applicant must separate the eligible and ineligible costs in application documents and its disbursement requests, as appropriate. 	Depending on the type of project, eligible groups include: <ul style="list-style-type: none"> - local public agencies - Non-profit organizations - Public utilities - Native American tribes - Mutual water companies 	<ul style="list-style-type: none"> - Construction of recycled water treatment facilities, storage facilities, pumping facilities, and groundwater recharge facilities - Construction of recycled water distribution systems, including onsite improvements - Development, construction, and monitoring of a pilot-scale or demonstration-scale plant as part of the Construction of a full-scale treatment facility - Construction of recycled water distribution systems, including onsite improvements - Planning, design, construction management, value engineering, and administration directly related to project implementation - Reasonable costs to provide an emergency backup water supply for the recycled water system. - Contingency for change orders approved by the Division for increased costs, provided the costs are eligible and consistent with the original scope of the project

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served	<u>County-Wide and Regional Funding Programs (Safe and Affordable Funding for Equity and Resilience [SAFER])</u>	<ul style="list-style-type: none"> - \$55 million 	<ul style="list-style-type: none"> - Need for regional programs that address drought-related and contamination issues for state small water systems and domestic well serving disadvantaged communities and low-income households. These needs are the primary focus for this funding, but proposals may also include work to address specific needs of public water systems 	<ul style="list-style-type: none"> - Counties - Non-governmental organization on behalf of one or more counties - Other public agencies on behalf of one or more counties - Grant recipients aid: <ul style="list-style-type: none"> - State smalls (<15 connections) serving a DAC - Domestic wells (<5 connections) serving low-income households - Potentially some services can be provided regardless of income (well sampling and bottled/hailed water for emergency drought response while longer-term solutions are implemented) 	<ul style="list-style-type: none"> - Assessment (community outreach, domestic well testing) - Interim solutions (bottled water, tanks and hauled water, kiosk filing stations) - Long-term solutions (well repairs and/or replacements, limited scale consolidation)
Ongoing	<u>Groundwater: Site Cleanup Subaccount Program</u>	<ul style="list-style-type: none"> - Annual appropriation of \$34 million through 2025 	<ul style="list-style-type: none"> - Funding for projects that investigate the source of surface or groundwater contamination and/or remediate the harm or threat of harm to human health, safety, or the environment caused by existing or threatened surface or groundwater contamination - No cost match requirement 	<ul style="list-style-type: none"> - Applicants with eligible projects - Regulatory agency has issued a directive (unless this is infeasible) - Responsible party lacks financial resources 	<ul style="list-style-type: none"> - Projects may include site characterization, source identification, or implementation of cleanup

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<u>Small Community Wastewater (SCWW) Funding</u>	<ul style="list-style-type: none"> - \$600 million as part of the Clean Water State Revolving Fund 	<ul style="list-style-type: none"> - Grants available through the Small Community Grant Wastewater program - Grants and principal forgiveness may be available to eligible applicants serving disadvantaged communities - Interest rate may vary each calendar year; it is 50% of the average interest rate paid by the state on general obligation bonds issued in the prior calendar year. Lower interest rates may be available to facility's serving small, disadvantaged communities through the Clean Water State Revolving Fund (CWSRF) - Loan Repayment Term: up to 30 years or useful life of the project - Loan Repayment: Begins within one year after project completion 	<ul style="list-style-type: none"> - Nonprofits, public agencies, tribal governments - Applicants must serve small (less than 20,000) communities qualifying as a DAC or SDAC 	<ul style="list-style-type: none"> - Planning/design and construction of wastewater infrastructure projects including: <ul style="list-style-type: none"> - Wastewater treatment - Septic to sewer conversions - Regionalization - Local sewers - Sewer interceptors - Wastewater reclamation and distribution - Stormwater treatment - Combined sewers - Landfill leachate treatment
First-come, first-served	<u>Small Community Drinking Water Funding</u>	<ul style="list-style-type: none"> - \$300 million as part of the Drinking Water State Revolving Fund 	<ul style="list-style-type: none"> - To help small DACs, providing service to less than 10,000 people and having a median household income (MHI) of less than 80% the statewide MHI, implement eligible drinking water capital improvement projects 	<ul style="list-style-type: none"> - Publicly-owned community water systems (e.g., counties, cities and districts) - Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) - Non-profit or publicly-owned non-community water systems (e.g., public school districts) - Community water systems created by the project 	<ul style="list-style-type: none"> - Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> - Treatment systems - Distribution systems - Interconnections - Consolidations - Pipeline extensions - Water sources - Water meters - Water storage tanks

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<u>Drinking Water State Revolving Fund (DWSRF) Program</u>	- \$650 million	<ul style="list-style-type: none"> - Assists public water systems in financing the cost of drinking water infrastructure projects needed to achieve or maintain compliance with the Safe Drinking Water Act (SDWA) requirements 	<ul style="list-style-type: none"> - Publicly-owned community water systems (e.g., counties, cities, districts) - Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) - Non-profit or publicly owned non-community water systems 	<ul style="list-style-type: none"> - Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> - Treatment systems - Distribution systems - Interconnections - Consolidations - Pipeline extensions - Water sources - Water meters - Water storages
Ongoing	<u>Clean Water State Revolving Fund (CWSRF)</u>	- \$650 million	<ul style="list-style-type: none"> - Provides low-cost financing to protect California's waters from pollution - Offers below-market interest rates, 30-year financing, loan forgiveness, compatibility with other funding sources - Financing limits: No maximum, but depends on available funding and applicant's ability to repay - Repayment: Begins 1 year after completion of construction 	<ul style="list-style-type: none"> - Public agencies - Non-profit organizations - Private entities - Federally recognized tribes 	<ul style="list-style-type: none"> - Constructing of publicly owned treatment works (POTWs) - Nonpoint source projects - National estuary program projects - Decentralized wastewater treatment systems - Stormwater projects - Measures to reduce the demand for POTWs capacity through water conservation, efficiency, or reuse - Development and implementation of watershed projects - Measures to reduce the energy consumption needs for POTWs - Water reuse projects - Security measures at POTWs - Provide technical assistance to owners and operators of small and medium sized publicly owned treatment works to plan, develop, and obtain financing for CWSRF eligible projects and to assist each treatment works in achieving compliance with the Clean Water Act

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<p><u>Technical Assistance (TA) Funding Program</u></p>	<ul style="list-style-type: none"> - Prop 1 is funding source 	<ul style="list-style-type: none"> - TA is available to help small DACs develop, fund, and implement eligible drinking water, wastewater, stormwater, or groundwater needs. - Stormwater resources are limited, not currently accepting new communities for stormwater TA, but can submit a request for future consideration as resources allow 	<ul style="list-style-type: none"> - Small DACS <ul style="list-style-type: none"> - Small community is defined as having a population less than 10,000 people - Disadvantaged community is defined as median household income (MHI) < 80% of the statewide MHI - Requests relating to one or more of the following will generally be given priority: <ul style="list-style-type: none"> - Systems that are out of compliance or experiencing insufficient water delivery capabilities; extension of service for drought/contamination impacted communities; - Consolidation projects - Systems serving less than 200 connections - Applicants with small or relatively low-cost needs that will enable an otherwise complete funding application to move forward 	<ul style="list-style-type: none"> - Coordination and development of capital improvement projects - Facilitation of operation and maintenance - Engineering and environmental analysis - Legal assistance - Leak detection/water audits - Compliance audits - Financial analysis - Technical managerial and financial (TMF) assessments - Board or operator training

Funding Programs from the United States Environmental Protection Agency (EPA)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Since September 6, Letters of Interest can be submitted	Water Infrastructure Finance and Innovation Act (WIFIA)	<ul style="list-style-type: none"> – \$20 million is minimum project size for large communities – \$5 million is minimum project size for small communities – Maximum portion of eligible cost that WIFIA can fund is 49% 	<ul style="list-style-type: none"> – Accelerated investment in nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects – In a Letter of Interest, the prospective borrower provides information to demonstrate its projects eligibility, financial creditworthiness, engineering feasibility, and alignment with EPA's policy priorities. If EPA selects the projects, then the prospective borrower is invited to submit an application. 	<ul style="list-style-type: none"> – Local, state, tribal, and federal government entities – Partnerships and joint ventures – Corporations and trusts – Clean Water and Drinking Water State Revolving Fund programs 	<ul style="list-style-type: none"> – Wastewater conveyance and treatment projects – Drinking water treatment and distribution – Enhanced energy efficiency projects at drinking water and wastewater facilities – Brackish or seawater desalination, aquifer recharge, alternative water supply, and water recycling projects – Drought prevention, reduction, or mitigation projects – Desalination/aquifer recharge and water recycling projects – Acquisition of property if it's integral to the project or will mitigate the environmental impact of a project

Funding Programs from the California Infrastructure and Economic Development Bank (IBank)

Ongoing	Infrastructure State Revolving Fund (ISRF) Program	<ul style="list-style-type: none"> – Ranging from \$1 million to \$65 million 	<ul style="list-style-type: none"> – Program provides low-cost, direct loans to local governments and nonprofits sponsored by public agencies for a wide variety of public infrastructure and economic expansion projects (excluding housing) that improve and sustain communities 	<ul style="list-style-type: none"> – Must be located in California and include any subdivision of a local government (including cities, counties, special districts, assessment districts, joint powers authorities, and nonprofits sponsored by a government entity 	<ul style="list-style-type: none"> – Eligible projects (including, but not limited to): <ul style="list-style-type: none"> – Streets, highways, and public transit – Water, sewage, and solid waste – Ports, parks, and recreational facilities – Organic-recycling projects – Zero emissions vehicle fleets, maintenance vehicles, school buses, charging stations – Infrastructure related to housing
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Alameda County Water District's Purified Water Project

Catch rain for irrigation

Don't water when it rains

We're in a drought, cut waste out.

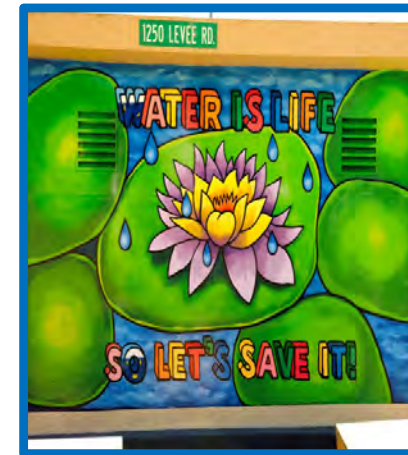
bawsca.org/conserves

BAWSCA
Bay Area Water Supply & Conservation Agency

Hetch Hetchy Regional Water System
Member of the San Francisco Public Utilities Commission

Alameda County Water District

Purified Water Feasibility Evaluation



February 14, 2023

Presenters: Kelsi Oshiro, ACWD, Water Resources Engineer

Acronyms, Abbreviations, and Definitions

- **AF** – acre-foot/feet
- **AWPF** – advanced water purification facility
- **BARR** – Bay Area Regional Reliability
- **BDWQCP** – Bay Delta Water Quality Control Plan
- **DPR** – Direct Potable Reuse
- **ETSU** – USD’s Enhanced Treatment & Site Upgrade
- **GSP** – Groundwater Sustainability Plan
- **GW** - Groundwater
- **GWR** – Groundwater Recharge (in IPR)
- **IPR** – Indirect Potable Reuse
- **IRP** – Integrated Resources Plan
- **MF** – microfiltration
- **mgd** – million gallons per day
- **PWFE** – Purified Water Feasibility Evaluation
- **RWA** – Raw Water Augmentation (in DPR)
- **SFPUC** – San Francisco Public Utilities Commission
- **SFBRWQCB** – San Francisco Bay Regional Water Quality Control Board
- **SWRCB WRFP** – State Water Resources Control Board Water Recycling Funding Program
- **SGMA** – Sustainable Groundwater Management Act
- **SWA** – Surface Water Augmentation (in IPR)
- **SWP** – State Water Project
- **TWA** – Treated Water Augmentation (in DPR)
- **USBR** – United States Bureau of Reclamations
- **USD** – Union Sanitary District
- **W&C** – Woodard & Curran, Inc.
- **Water Reuse** – Reclaimed water that is treated for beneficial reuse

Purified Water Feasibility Evaluation *Draft Results*

Background

- This current Purified Water Feasibility Evaluation (PWFE) is being completed with SFPUC and USD
- Woodard & Curran, Inc. (W&C) is the consultant with subconsultants, LimnoTech, Trussell Technologies, and Data Instincts
- This PWFE is based on previous purified water studies by ACWD and USD completed in 1993, 2000, 2003, 2010, and 2016.
- In 2017, the Bay Area Regional Reliability (BARR) study included creating an intertie with SFPUC

PWFE Scope of Work

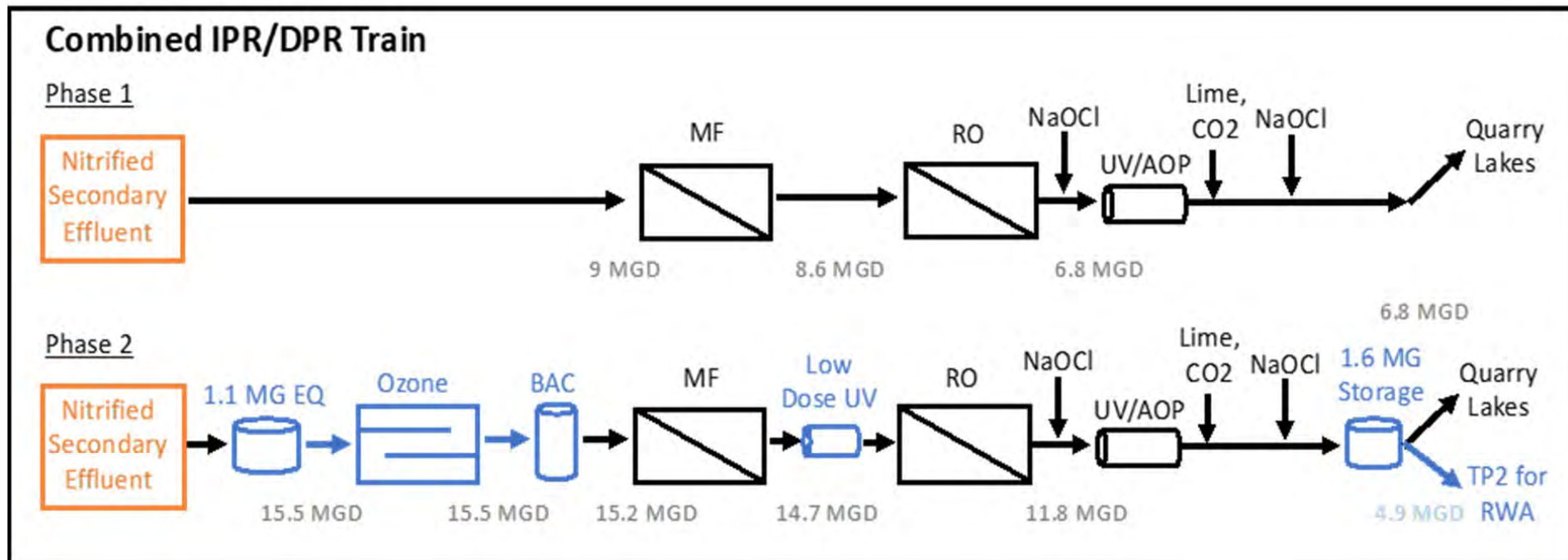
- Identify recommended purified water alternative, including high-level cost estimate
- Complete a draft report to be submitted to USBR Title XVI and future submittal to SWRCB WRFP

Assumptions and Decisions

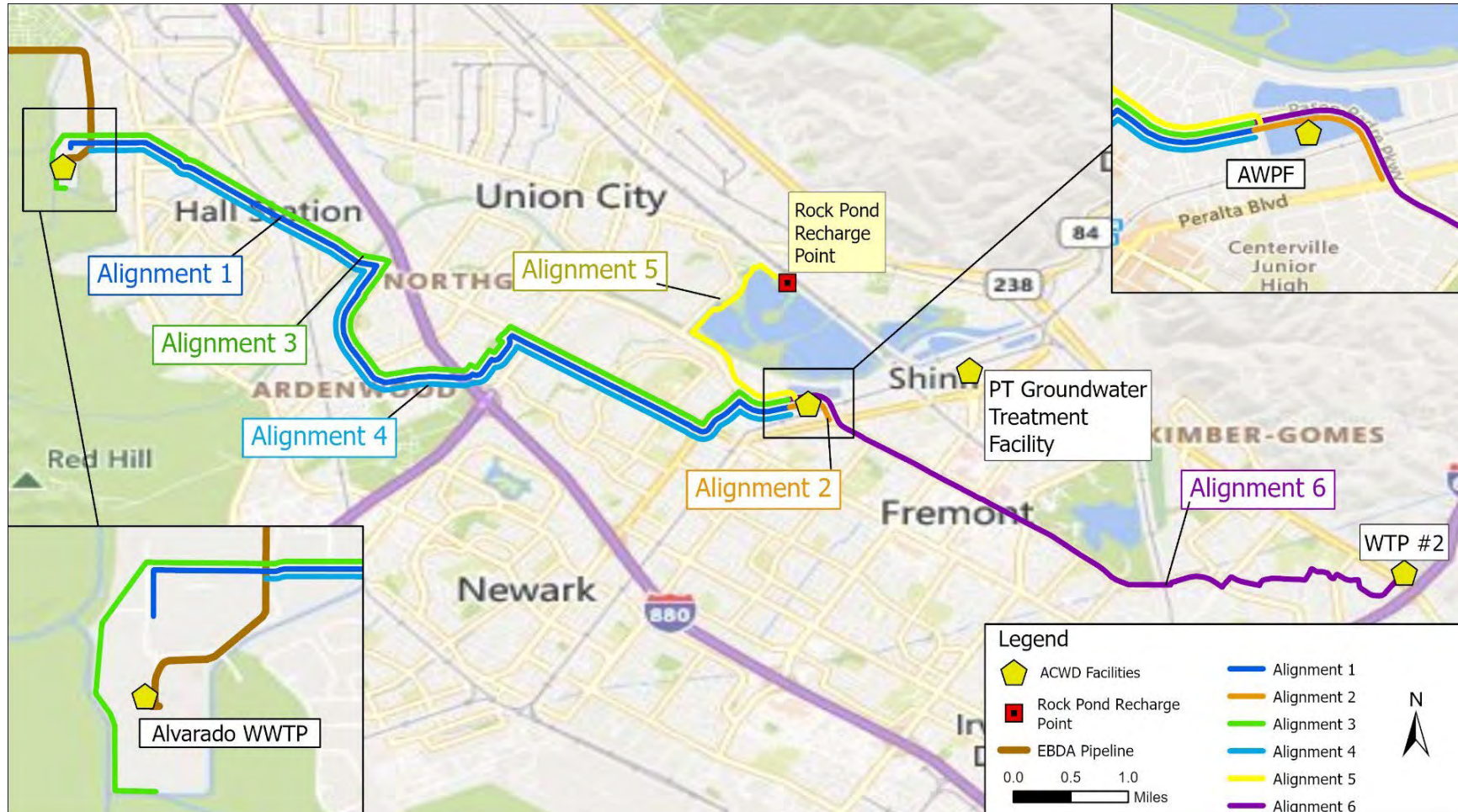
- Alternatives were evaluated with and without USD's Enhanced Treatment & Site Upgrade (ETSU) program
- Includes a Demineralization Plant
- This is a feasibility study, and no firm construction plans at this time

Draft Recommended Alternative

- Combined IPR/DPR train with IPR as Phase 1 and DPR as Phase 2
- Assumes ETSU Program is complete
- AWPf at ACWD's Pit T2



Schematic of Draft Recommended Alternative



Draft GW Demineralization Plant Concept

- The recommended alternative is anticipated to produce about 7,600 AFY of advanced treated purified water for recharge into Niles Cone GW Basin via Quarry Lakes
- Water would be pumped at ACWD's existing GW facilities and demineralized at a new RO facility to match Hetch Hetchy water quality
- This may provide ACWD an opportunity to increase use of local GW supply and decrease imported water from SFPUC in regard to hardness goals

Alternatives' Draft Costs

	Phase 1 (IPR)	Phase I & II (IPR & DPR)
Total Capital	\$369,296,000 - \$517,025,000	\$535,692,000 - \$695,722,000
Total Annual Cost (capital + O&M)	\$28,728,000 - \$37,111,000	\$44,729,000 – \$54,283,000
Average Yield (AFY)	6,048	11,536
Unit Cost (\$/AF)	\$4,750 - \$6,140	\$3,880 - \$4,710

Note: (1) Cost estimate ranges are Class 4 based on ENR CCI, San Francisco, February 2022. (2) These draft cost estimate ranges assumes USD's completion of ETSU. ETSU provides biological nutrient removal and reduces capital and operating needs. (3) Phase 1 costing includes substantial capacity cost consideration for Phase 2 Expansion

Draft Limnological Study and Results

- PWFE includes a limnological (lake science) study to characterize existing Quarry Lakes water quality (WQ) and the effect of addition of purified water
- Limnological study results:
 - WQ from the AWPf would improve WQ in Quarry Lakes
 - Short - and long-term WQ monitoring plans developed
 - Monitoring plans will help gather new WQ data for QuarryLakes, including understanding blue-green algae issues
- Next steps:
 - Complete a more detailed model
 - Continue to implement short-term WQ monitoring plan
 - Implement long-term WQ monitoring plan

Draft Recommended Next Steps

- Siting study: the final location of the AWPf to be confirmed at a later date by the partner agencies (ACWD, USD, SFPUC). Location of AWPf can impact project costs but does not restrict or change the primary project benefit of developing new regional water supplies
- Decision to pursue both the first (IPR) and second (DPR) phases of the alternative to be made a later date by the partner agencies and could be impacted by capital and operational costs, available grant and loan funding, and final DPR regulations
- Public outreach

PWFE Next Steps

- Partner agencies to review of last draft chapter and draft final report to be submitted to USBR

Thank you



Breakout Session and Report Out

Keep your showers short

Every minute uses a gallon more

START

TIMER DONE

We're in a drought, cut waste out.

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 **Hetch Hetchy Regional Water System**
Services of the San Francisco Public Utilities Commission

bawasca.org/conserve

Session Format

- You each will be assigned and moved to a breakout room at random
- The BAWSCA/EKI team will facilitate each breakout room discussion
- The session will be interactive, utilizing an approach that asks each participant to type directly onto the screen / slides shown as we move through the discussion
- At the conclusion of the breakout session, we will regroup and report out
- 30 minutes is reserved for the breakout session, with another 5 minutes reserved for the report out

Next Steps



Turn off the faucet while you brush

We're in a drought, cut waste out.

BAWSCA
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 Hetch Hetchy
Regional Water System
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bawasca.org/conserve

Future Roundtable Meetings

- Future Workshop Planning
 - What did you find most informative from the Workshops?
 - What was missing?
 - What frequency is desired?
 - How can we encourage better participation?
- If the Roundtable continue, is there a need for an annual work product?
 - What should the work product consist of?
- Next steps
 - BAWSCA has included future Roundtable meetings in its FY 2023-24 budget and workplan
 - Staff time and consulting assistance is proposed
 - BAWSCA is adding the development of a Grant Support program to its FY 2023-24 budget and workplan
 - Support would include both a core and subscription component
 - Support would be available to member agencies, yet not be a part of a Roundtable effort

Adjournment

Next Roundtable Workshop

If Roundtables Continue, the
next Workshop would take
place in the Fall of 2023

Introduce yourself and your organization

HELLO

Kim Springer, CCAG

Mary Rogren, CCWD

HELLO

Kat Wuelfing, Mid Pen

HELLO

Kelsi Oshiro, ACWD

HELLO

Rebecca Oliver, Palo Alto



Introduce yourself and your organization

HELLO

Kirsten Struve -
SCVWD

HELLO

Sal Navarro – City of
Hayward

HELLO

Julia Nussbaum –
Stanford University
water
planning/stewardship

HELLO

Thomas Niesar -
ACWD

HELLO

Jarrad Fisher - San
Mateo Resources
Conservation District



organization

HELLO

Nicole BAWSCA

HELLO

Azalea San Mateo

HELLO

Reid Bogart SMC
CCAG

HELLO

Shilpa Santa Clara

HELLO

Cathleen CCWD



Mapping of projects.
Value in understanding
proximity to water assets

Bringing folks
together to discuss
opportunities

Helpful not just to think of
what the project is planned
for but what it isn't, so
agencies can think of multi-
benefits

Is there an opportunity to
combine this event with
another already
scheduled event?

Funding list. Agencies
don't have time to look for
opportunities. x2

For small agencies, hearing
about large projects are
interesting, especially given
funding requirements

Myriad of
projects

Hybrid/Zoom makes it easier for folks
to attend but in-person meetings
provide more opportunity for
connecting with other folks where
there's a nexus to create partnerships
(opportunity to do this going forward)

What concepts
covered in these
workshops stood out
the most to you? Any
memorable guest
speaker or
presentation? If so,
why?



Stormwater has funding issues, funding and outreach across the board; one water planning process underway and drivers for integration – local gov and public perspective – want to find linkages for those multi-driver options; overlapping value and risk is important

What concepts covered in these workshops stood out the most to you? Any memorable guest speaker or presentation? If so, why?

Loved Palo Alto and LA case studies; wanted to do WSMP with One Water Approaches – inspired the approach to that process; b/c not permanent customer interested in developing new supplies; feasibility studies for recycled water; 19-20% recycled water so would be happy to share learnings regarding development, outreach, expansion (IPR/DPR)

Hearing about other agency projects – great learning opportunity

Early-stage potable reuse project – interested in public outreach challenges and work on messaging; like case studies and hearing how public outreach and strategies has been helpful



Various local one water and case studies – hearing their challenges and experiences

Grant funding opportunities

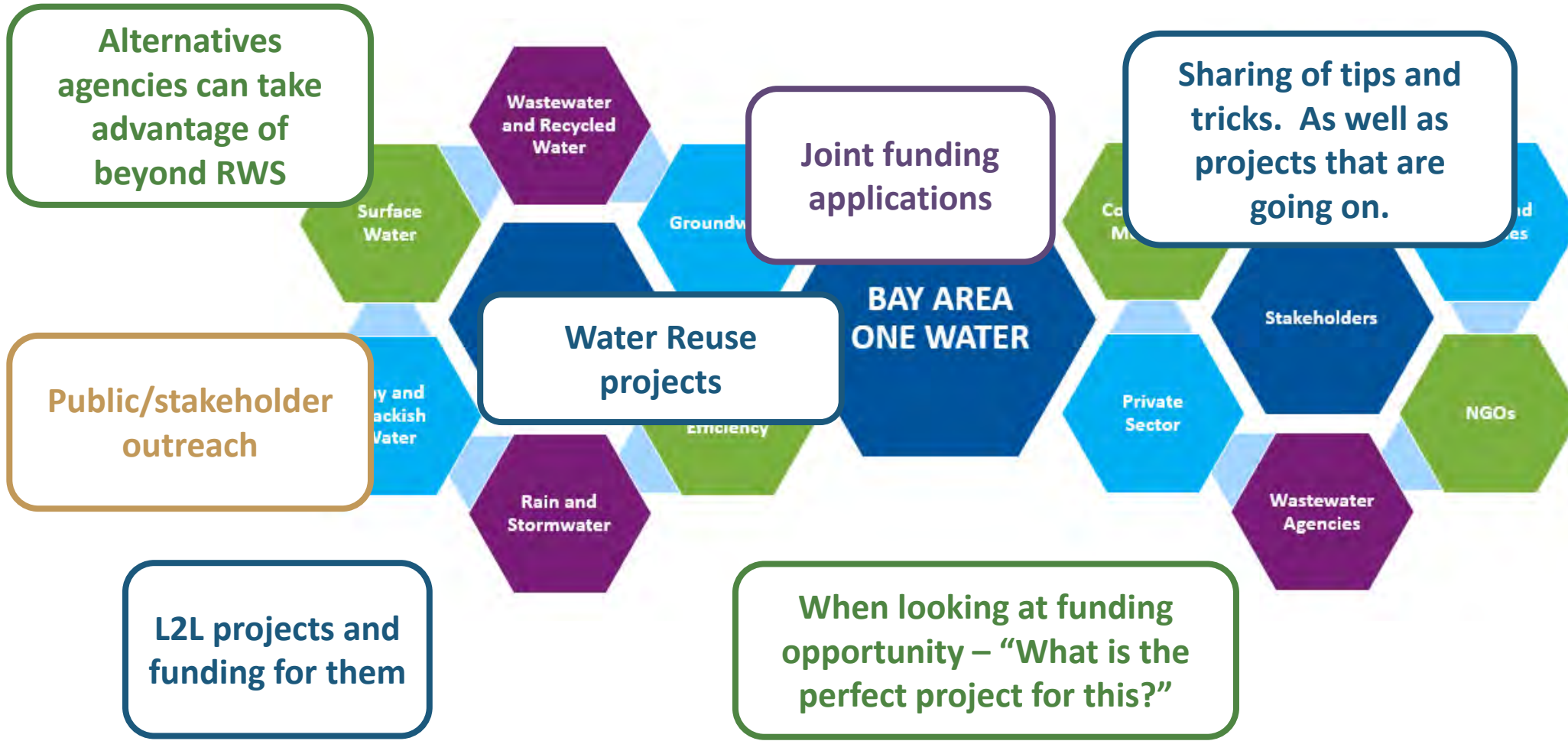
LA and other social presenters had much different situations and were not particularly relevant to BAWSCA agencies

PIF forms will be valuable to look at collectively – useful for SFPUC regional planning

What concepts covered in these workshops stood out the most to you? Any memorable guest speaker or presentation? If so, why?



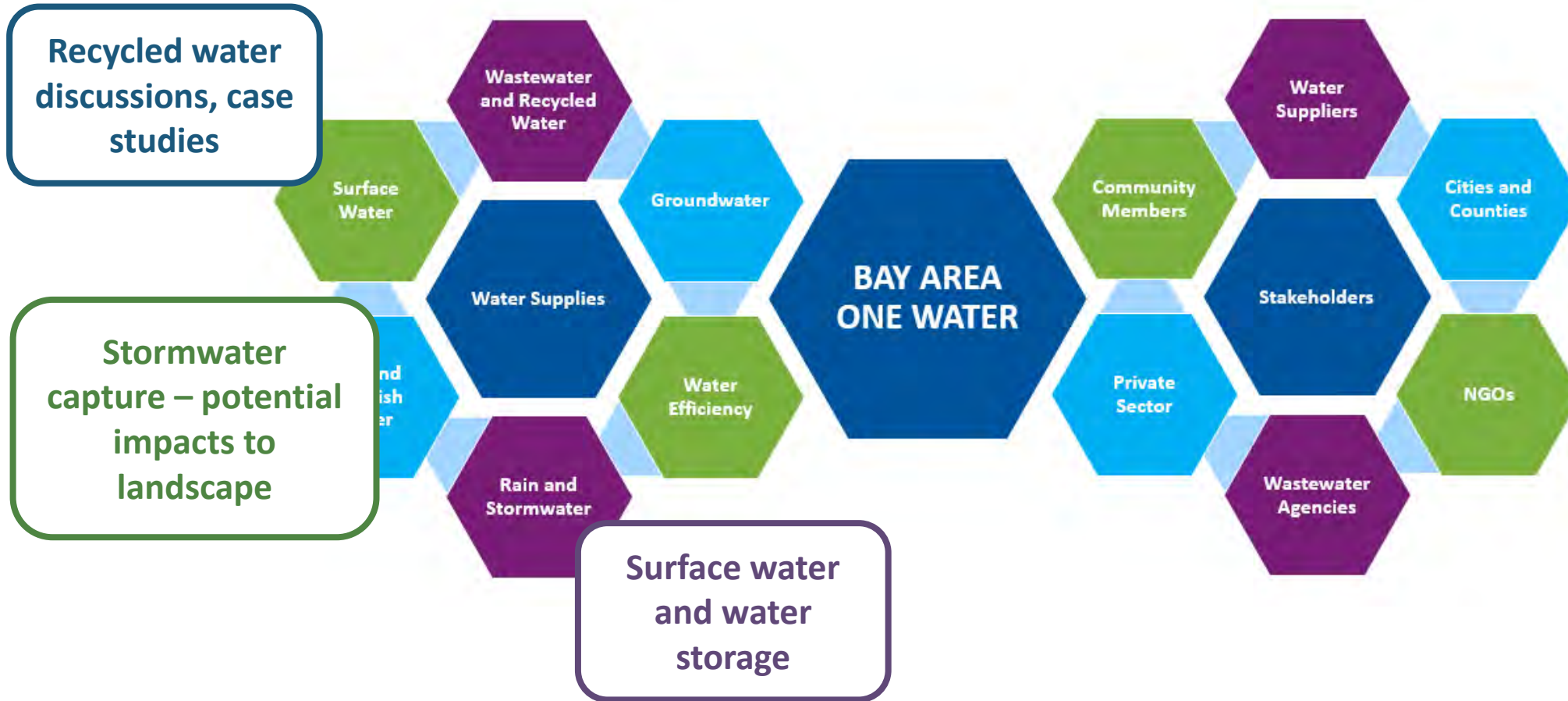
What topics/ideas would you like future Roundtable discussions to cover?



What topics/ideas would you like future Roundtable discussions to cover?



What topics/ideas would you like future Roundtable discussions to cover?



Challenging remembering past events since they're spaced out. Perhaps an email, survey or other outreach that can help them re-engage/remind them of what was discussed at the last roundtable.

Combine with existing in-person events

Roundtable could be a forum to announce new project (stakeholder outreach). Opportunity to find alliances, support, examples of other projects. Focused more on specific projects and opportunity for collaboration.

What Could the Roundtable Team Have Done Differently to Increase Outreach for the Workshops/Encourage More Participation?



What Could the Roundtable Team Have Done Differently to Increase Outreach for the Workshops/Encourage More Participation?

Ask people why they stopped coming? Did they know about it

Identify audience you want to target

Have to make topics compelling

Maybe make them shorter?

Make it more clear what the topics will be



Avoiding workshop overload – particular to certain sectors?

Working group with invested stakeholders vs stakeholders who you want buy in from. Different levels of honest conversation depending on who is in the room

Increase wastewater agency involvement

Santa Clara/Alameda county agency involvement

Involvement of recycled water groups can become pinholed or distracted. Difficulty getting beyond their own interests and thinking collectively.

What Could the Roundtable Team Have Done Differently to Increase Outreach for the Workshops/Encourage More Participation?



From these past 3 workshops, what has been most helpful to you and what would you have liked done differently?

Worked well

Different projects and speakers. Enjoyed hearing what other agencies are doing. Not just Bay Area, but around the State. x2

Surprised by total water supply opportunity represented by projects presented and submitted through PIFs

Want more of...

Would like more of a discussion of multi-benefits. Looking at where groundwater recharge is available, location of watersheds, assets, etc. to see where there's opportunities for more collaboration. Could help bring the public along.

More NGO/non-water agencies (e.g. wastewater and storm water agencies) participation

Equity component could be explored. Conservation programs that target lower income folks.



From these past 3 workshops, what has been most helpful to you and what would you have liked done differently?

Worked well

Virtual is helpful because easier to fit in

Liked the focus topic areas for each meeting/clear outcome for each session

Liked the breakout rooms as an important part of the process

Want more of...

Keep it to 90 minutes max

Make it clearer what the objectives were/are; here is what is relevant to everyone; how do we advance things not just retrospective

Make sure people don't feel lost if they haven't participated previously, so encourage on-going participation; website links, etc.; hard to find info on the BAWSCA site



From these past 3 workshops, what has been most helpful to you and what would you have liked done differently?

Worked well

Hybrid format can be beneficial to improve engagement; if quarterly, can have 1 in person

Want more of...

More involvement with non-water individuals or agencies to show them the types of discussions being conducted regarding water planning

Tracking offline collaboration post-workshop to track effects



Attachment B

Workshop Meeting Minutes

14 July 2022

MEMORANDUM

To: Bay Area Water Supply & Conservation Agency (BAWSCA)

From: EKI Environment & Water, Inc. (EKI)

Subject: **Meeting Minutes - Water Supply Reliability Roundtable Workshop 1: Demystifying the One Water Concept**
Tuesday May 24, 2022, 10AM – 12PM
Zoom Meeting

1. Call to Order & Welcome

2. Introduction & Purpose of Water Supply Reliability Roundtable (Presented by Tom Francis, BAWSCA):

Meeting Attendees

- Thomas Niesar – Alameda County Water District (ACWD)
- Negin Ashoori – BAWSCA
- Lourdes Enriquez – BAWSCA
- Tom Francis – BAWSCA
- Danielle McPherson – BAWSCA
- Drew Bost – EKI
- Anona Dutton – EKI
- Kat Wuelfing – EKI
- Inge Wiersema – Carollo
- Reid Boger – City/County Association of Governments of San Mateo County (C/CAG)
- Kim Springer – C/CAG
- Jennifer Lee – City of Burlingame
- Sal Navarro – City of Hayward
- Scott Jaw – City of Menlo Park
- Elizabeth Flegel – City of Mountain View
- Lisa Bilir – City of Palo Alto
- Karla Dailey – City of Palo Alto
- Justin Chapel – City of Redwood City
- Steven Salazar – City of San Bruno
- Jeff Provenzano – City of San Jose
- Azalea Mitch – City of San Mateo
- Shilpa Mehta – City of Santa Clara
- Mansour Nasser – City of Sunnyvale
- Cathleen Brennan – Coastside County Water District
- Carol Steinfeld – Loma Prieta Chapter of the Sierra Club
- Adrienne Carr – North Coast County Water District (NCCWD)
- Greg Smith – San Mateo County
- Susan Wright – San Mateo County
- Brian Manning – Stanford University
- Julia Nussbaum – Stanford University
- Peter Drekmeier – Tuolumne River Trust
- Kirsten Struve – Valley Water

Introduction & Purpose of Water Supply Reliability Roundtable

- Brief overview of the schedule and purposes of today's and future roundtable discussions:
 - Workshop 2: Regional Partnerships Mean Regional Funding
 - Workshop 3: Identifying Local "One Water" Projects
 - Workshop 4: Moving Forward!
- List of all the organizations that were invited to participate in the Workshop:
 - All BAWSCA member agencies/Cities
 - Wastewater agencies (located in San Mateo, Santa Clara and Alameda Counties)
 - San Mateo County Agencies
 - C/CAG
 - San Mateo County Office of the Environment
 - SMC Office of Sustainability
 - SMC Flood and Seal Level Rise Resiliency District
 - Resource Conservation District
 - Valley Water (representing a subset of Santa Clara County interests)
 - Non-government organizations (NGOs)
 - Multiple environmental NGOs
 - Multiple business NGOs
 - ReNUIT
 - Complete list of those invited is provided at: <https://bawasca.org/water/reliability/Roundtable>
- Discussion about the format of the Roundtable discussions, the work products, and outcomes:
 - Work Products:
 - A document summarizing the Roundtable discussions
 - A technical memorandum detailing current funding/grant opportunities
 - A website resource for providing updates as to projects and programs underway by the parties: <https://bawasca.org/water/reliability/Roundtable>
 - Outcomes:
 - For BAWSCA, input from the Roundtable discussions to help scope the next update of its Long-Term Reliable Water Supply Strategy
 - For other participating agencies and organizations, can have their own use and expectations of the Roundtable

3. Demystifying the One Water Concept (Presented by Anona Dutton, EKI):

- Instructed participants to define “One Water” planning and to put their answers in the chat (see Attachment A for responses)
- One Water is a planning strategy that considers the whole picture and breaks down barriers between different agencies, with the partnerships and collaborations of agencies like the ones present in the Roundtable meeting, to see if there is a more optimal approach to handling and utilizing water resources.
- Benefits of the One Water Process:
 - Greater resilience and reliability
 - Opportunities to optimize regional infrastructure
 - Sustainable community development
 - New regulatory flexibility or opportunity
 - Economic growth opportunity
 - Increased coordination among agencies/departments
- One Water concept is flexible, adaptable, and tailored to meet current and future needs of entities participating
- Framework can be adaptively managed and implemented overtime
- One Water goes by different names, attendees are likely already involved in One Water-type planning
- Results depend on entities involved, their needs, and opportunities
- Steps to One Water Planning
 - Step 1 Setting the Foundation: bringing people together, identifying partnerships, assessing needs and opportunities
 - Step 2 Establishing Direction: establishing vision and objectives
 - Step 3 Developing the Framework: establishing leadership and financing strategies
 - Step 4: Implementation
- All steps are scalable, can happen regionally or locally, framework is adaptable.
- Poll: How is your organization currently doing One Water Planning? (see Attachment A for responses)

4. One Water Los Angeles (LA) 2040 Plan (Presented by Inge Wiersema, Carollo):

- Project Background
 - City of LA faces challenges such as population growth, aging infrastructure, climate change threats, heavy dependence on water, more stringent stormwater regulations, limited resources

- Plan developed in two phases: First phase, focused on developing vision, guiding principles and objectives bringing stakeholders together and advising panel. Second phase: Roadmap for integration opportunities.
- Near-Term Integration Opportunities
 - LA Zoo Master Plan:
 - Integrated recycled water, stormwater, and water conservation
 - Shows how entities not necessarily responsible for water can participate in win-win situation
- Long-Term Integration Opportunities
 - From sustainability plan goals to plan recommendations
 - Increase local water supply from 15% to 50% by 2035 by utilizing eight water supply strategies: indirect potable reuse, regional or centralized stormwater BMPs, distributed stormwater BMPs, low flow diversions, ocean water desalination, LA river storage and use, non-potable reuse, direct potable reuse
 - Developed concept options incorporating the eight water supply strategies
 - The Plan recommendations reflect the community priorities
 - Actively engage stakeholders for priorities and input on relative importance of the eight management strategies (IPR and BMPs most favored, ocean desalination least favored)
 - Had stakeholders weigh in on evaluation criteria and weighting factors
 - One Water LA 2040 Plan
 - Helped use input to narrow down 27 concepts to six long-term concepts
- Stakeholder Engagement
 - Takes bold leadership
 - Multi-level institutional and stakeholder collaboration: steering committee, strategic planning group, special topic groups, stakeholder workshops, focused meetings, advisory group
 - Cross-sector collaboration (14 city departments, six regional agencies)
 - 500+ stakeholders, 200+ organizations
- Some Key Project Benefits
 - Long-term climate resilient water supply strategy
 - Proactive climate resilience improvements save hundreds of millions of dollars
 - Improved institutional collaboration and community support
 - Cost sharing and funding opportunities

5. Palo Alto's One Water Plan (Presented by Lisa Bilir, City of Palo Alto):

Palo Alto's Sustainability and Climate Action Plan (SCAP)

- Reduce city and community's greenhouse gas emissions 80% below 1990 levels by 2030, and guide land use and natural resources in sustainable ways
- Seven chapters of SCAP, one is water, key action is to develop a plan to implement One Water portfolio
- Commitment to alternative water supplies to protect Tuolumne River
- Key Action: One Water Plan
 - Series of water supply and conservation options
 - One water approach, all water has value, not just traditional water sources, more resilient to climate change
 - Inclusive process and invite participation from internal and external stakeholders
- "One Water" Goal
 - Council to adopt a One Water supply plan by next summer with planning horizon of 20-years, and it needs to provide an adaptable roadmap because future is uncertain
- One Water Role in Palo Alto Planning
 - Internal and external stakeholders:
 - Public works department and other staff internally
 - Engage stakeholders in community: interested residents, companies, environmentalists
 - Northwest County Recycled Water Strategic Plan
 - Effluent Transfer Agreement: transfer around half of effluent to Valley Water for reuse in southern parts of Santa Clara County
 - Pull information, refreshing it in order to recommend a One Water plan to bring to Council
- Northwest County Recycled Water Strategic Plan (in Partnership with Valley Water)
 - Study that looked at how to best expand Palo Alto's recycled water program in the service area of the Regional Water Quality Control Plant, developed series of potable and non-potable water reuse opportunities
 - Ranked options by cost and non- cost criteria
 - Study did not recommend one concept be implemented
- Green Stormwater Infrastructure (GSI) plan
 - GSI can slow and clean stormwater runoff
 - GSI plan described how Pal Alto will gradually integrate GSI features
 - One Water Plan will consider GSI as a water supply option
- Demand Management/Conservation

- Rebates, surveys, and devices that save water and are efficient with water (in partnership with Valley Water)
- Green buildings and landscaping
- Education and outreach through workshops, bill inserts, e-blasts, social media
- One Water Request for Proposal (RFP) – Key Tasks
 - Scope: working together to engage stakeholders developing and evaluating criteria for assessing current and future water supply and conservation portfolio alternatives
 - Final product will be a report and an Excel-based tool
 - Need to consider uncertainties and external factors: regulatory changes, climate change, and Effluent Transfer Agreement
- Timeline and Next Steps
 - Contract review by Council scheduled June 20, 2022
 - Develop plan with lots of stakeholder input
 - Council approval of One Water Plan mid 2023

Small Q&A Session for Inge Wiersema, Carollo and Lisa Bilir, City of Palo Alto:

- Q: Within the LA One Water Plan, how different are the stormwater and water supply groups? Are they within one parent city structure, separate entities?
- A (Wiersema): All within same city family, Los Angeles Department of Water and Power (LADWP) is responsible for potable water and recycled water, LA sanitation is responsible for wastewater collection treatment, which after treatment goes back to LADWP as recycled water. Stormwater is under Watershed Management Division under LA Sanitation.
- Q: Even within one organization, it still took the higher tier at the mayor level to bring these departments together?
- A (Wiersema): The Mayor's office was involved, along with their sustainability office, but mostly all the way up to General Manager at LADWP and Director level at LA sanitation were overseeing these different groups and departments. Stormwater never had a funding mechanism, so different money flows for the different entities and different interests so planning process was helpful in people understanding other perspectives.
- Q: LA county is also preparing a One Water plan, wondering if a broader One Water umbrella at the county level will be any different.
- A (Wiersema): The county is more complex, 99 cities in LA, dealing with the governance of so many different agencies will be even more complex. Conveyance, projects, and players are different.
- Q: Are your One Water Plans only focused on centralized plans and solutions? Or also looking at on-site water sources from private development?
- A (Bilir): Looking at all different options right now, including on-site reuse.

- A (Wiersema): On-site reuse is of interest from stakeholders and large industrial users, biggest push came on stormwater side where stakeholders want to emphasize green infrastructure and green streets, and distributed stormwater management rather than green infrastructure. Made planning process rethink certain solutions. In the end, two-thirds of solutions ended up being distributed solutions. Stakeholder process shifted balance.

6. Roundtable Breakout Session and Report Outs

Chat responses from the beginning of the meeting for the question: “How would you define ‘One Water’ planning?” were organized and put into visual boxes and a word cloud (See Attachment A).

Common points and themes:

- Common words from word cloud: water, planning, approach, supply, together, approach, community, management
- Use of all available water types, water is water
- Working together to address water issues and achieve more optimal and unified solutions
- Coming up with solutions that solve more than just water issues
- Observation from Anona Dutton (EKI): Responses on various supply sources, stakeholder engagement, broad collaboration efforts, beneficial use, being proactive, considering intersectionality

Chat response from the beginning of the meeting for the question: “How is your organization currently doing One Water planning?” were organized and put into visual boxes and a word cloud (See Attachment A).

Common points and themes:

- Common words from word cloud: program, stormwater, planning, participating, infrastructure, recycling, recharge, green, capture, developing
- Sustainable planning, green infrastructure, water recycling, stormwater capture, groundwater recharge

Common points and themes from breakout room discussions

Q#1: What opportunities can One Water offer?

- Water supply resilience
- Recycled water for different purposes (habitat enhancement, irrigation)
- Groundwater resources and how to protect them, stormwater capture for reuse or groundwater recharge, GSI
- New partnerships, engaging stakeholders, greater collaboration among different entities
- Integrated solutions

Q#2: What are 3 obstacles to One Water Planning?

- Jurisdictional and institutional boundaries, regulatory hurdles
- Reluctance to embrace alternative supply solutions due to public perception and community disengagement
- Resource gap due to lack of personnel and funding opportunities
- Balance between innovation and risk aversion, lack of knowledge of solutions

Q#3: What can be done to overcome those obstacles?

- Developing community outreach and support, increase public education
- Getting input from multiple organizations, knowledge sharing among different entities and technical experts
- Work together on equitable funding, cost-sharing negotiation, target funding that benefits multiple entities

Q#4: If there were absolutely no barriers, what water projects would you like to see in the Bay Area?

- Indirect and direct potable reuse
- Diversity of supplies
- Greywater opportunities
- Stormwater capture and reuse
- Desalination

7. Plan for Next Roundtable Meeting

- How to fund projects and programs that could possibly fall under One Water umbrella
- Learn from what others have done/how they approach it (speakers attending)
- Different funding concepts BAWSCA and EKI have implemented
- Breakout rooms and hear directly what you or your agencies suggest, or how you want BAWSCA to prioritize an approach or two

Questions

- Suggestion from attendee to create a discussion list or forum
- Extend invite to East Bay or North Bay folks? A: Maybe to East Bay, probably not for North Bay

8. Adjournment to Next Meeting: June 28, 2022

Attachments and References

Attachments

Attachment A: Poll and chat results

Attachment B: Combined results from breakout sessions

Attachment C: Workshop #1 slides

References

- Blueprint for One Water – Water Research Foundation ([link](#))
- One Water Plan – Valley Water ([link](#))
- One Water LA 2040 Plan – City of Los Angeles ([link](#))
- One Water Roadmap – US Water Alliance ([link](#))
- One Water SF – SFPUC ([link](#))
- Sign up link for City of Palo Alto One Water email distribution list ([link](#))

30 June 2022

MEMORANDUM

To: Bay Area Water Supply & Conservation Agency (BAWSCA)

From: EKI Environment & Water, Inc. (EKI)

Subject: **Meeting Minutes - Water Supply Reliability Roundtable Workshop 1: Demystifying the One Water Concept**
Tuesday June 28, 2022, 10AM – 12PM
Zoom Meeting

1. Call to Order & Welcome

2. Introduction & Purpose of Water Supply Reliability Roundtable Workshop #2 (Presented by Tom Francis, BAWSCA):

Meeting Attendees

- Negin Ashoori – BAWSCA
- Tom Francis – BAWSCA
- Danielle McPherson – BAWSCA
- Kyle Ramey – BAWSCA
- Nicole Sandkulla – BAWSCA
- Drew Bost – EKI
- Anona Dutton – EKI
- Jean Hirayama – EKI
- Devon Becker – Alameda County Water District
- Reid Boger – City/County Association of Governments of San Mateo County (C/CAG)
- Kim Springer – C/CAG
- Sal Navarro – City of Hayward
- Lisa Bilir – City of Palo Alto
- Natalie Semersky – City of Palo Alto
- Steven Salazar – City of San Bruno
- Nicole Harvie – City of San Jose
- Shilpa Mehta – City of Santa Clara
- Cathleen Brennan – Coastside County Water District
- Mary Rogren – Coastside County Water District
- Allen Smith – Foster City
- Louis Sun – Foster City
- Rene R. – Mid-Peninsula Water District (MPWD)
- Matt Lamber – Milpitas
- Heather Dyer – San Bernardino Valley Municipal Water District (SBVMWD)
- Kristeen Farlow – SBVMWD
- Krista McDonald – San Mateo County (SMC)
- Susan Wright – SMC Office of Sustainability

- Greg Smith – SMC Office of Environmental Health
- Kirsten Struve – Santa Clara Valley Water
- Caroline Steinfeld – Sierra Club
- Christophe LaBelle – Silicon Valley Leadership Group
- Christina Fernandez – South San Francisco (SSF)
- Dennis Murphy – Sustainable Silicon Valley
- Julia Nussbaum – Stanford University
- Caroline Koch – WaterNow Alliance

Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- If projects can be regional, collaboration can benefit all involved
- Main takeaways:
 - How to best support those types of projects, finance them, get the permitted, or expand projects and programs

Purpose of Workshop 2 Discussions

- Explore how the development of successful regional projects requires regional funding options
- Identify approaches to regional funding by
 - Learning how BAWSCA is funded
 - Sharing how participants fund their current projects
 - Hearing from two agencies regarding their approach to regional funding
 - Discussing options to explore for future regional efforts
- Review the approach to collecting info on local One Water projects

BAWSCA Background and Information

- Enabled through legislation in 2002
- Represents 24 cities and water districts and two private utilities
- 26-member board of directors
- Only entity with authority to directly represent the needs of member agencies that depend on the San Francisco Regional Water System (RWS)
- Coordinate water conservation, supply, and recycling activities for its agencies
 - Can acquire water through water transfer and make it available to other agencies
 - Finance projects
 - Propose improvements to regional water system
 - Build facilities jointly with other agencies

BAWSCA Work Plan

- Develop a work plan each year
 - Aligns with BAWSCA's goal to provide reliable supply of high-quality water at a fair price
 - From their yearly budget, can see activities fall under either fair price (primarily related to revenue bonds) and Water Supply Agreements (WSAs) between wholesalers and customers
 - Reliable water supply work
 - Long term water supply strategy
 - Monitor San Francisco's efforts to rebuild its water systems
- Maintain close relationship with allies and member agencies
- Have dialogs with environmental groups
- High quality water work efforts go toward:
 - Coordinating with member agencies in their discussions with the San Francisco Public Utilities Commission (SFPUC) regarding water quality topics and concerns

How BAWSCA is funded

- Annual assessments on member agencies and assessments applied each year
 - Bill shared with BAWSCA member agencies, pays roughly \$4 to \$5 million of operating expenses for BAWSCA each year
- Water use based on delivery amounts from prior years for each agency
- If there are excess funds from WSA, they go into a Balancing Account (BA)
 - BA is the difference between SFPUC cost attributed to the wholesale customers, and the amount billed to those customers each year
 - In other words, customers pay SFPUC based on projected use and cost
 - If there is money left over from what customers paid vs. actually use, that money goes to a BA
- If positive BA, BAWSCA has access to that money, but only for specific uses (could include water supply and conservation projects), recently been used because of COVID-19 and drought, there likely won't be a BA for the next few years
- Can apply water management charge – a special assessment on member agencies
 - Used to collect funding for a specific project or program of regional benefit
 - Needs to have a regional benefit that all member agencies receive
 - This funding source has only been used once

Outside Funding and Financing Opportunities for Public Water Suppliers

- Federal grants and loans

- U.S. Bureau of Reclamation WaterSMART Program Grants
- Clean Water Act State Revolving Fund (SRF) Loans
 - o State provides 20% match
- Water Infrastructure Finance and Innovation Act (WIFIA) loans
 - o Low, fixed interest rates to supplement SRF loans
- Other grants and loans sometimes flow through State Revolving Funds
- States Grants and Loans
 - SRF loans to supplement WIFIA loans
 - Voter approved grants, usually for large projects
- Local Funding and Financing
 - Revenue bonds (common for traditional, centralized infrastructure)
 - Property-related stormwater fee and/or parcel tax
 - Tax increment revenues
 - Water and wastewater rates

3. First poll questions (Presented by Tom Francis, BAWSCA):

Instructed participants to answer the question “What funding sources/models has your organization used to develop One Water Projects?” After a minute, everyone put their answers into the chat at the same time.

Common points and themes:

- Grants and general state and federal funds
- Project partnerships
- Debt financing and issuance
- Green infrastructure bonds
- Private clients

4. Maximizing Water Resources through Collaborative Opportunities: Partnerships and Funding (Presented by Heather Dyer, SBVMWD):

Who is Valley District?

- Wholesale state water contractor located in southern California
- Supply about 710,000 people, serve 15 retail agencies
- Through partnerships, serve water from groundwater basin and other supplies
- Property tax related to the State Water Project

- Create large revenue reserve fund for projects
- 31 staff, diverse technical specialists planning for future watershed resilience

What we do

- Constantly thinking how to ensure a reliable water supply to the region we serve, forever
 - Includes resilience, stewardship, vision, foresight, and strategy

Reliability Water Supply Portfolio

- Have a reliable water supply
- Do watershed planning at regional level
- Have mostly groundwater supply
- Need diverse local supply when purchased water not as reliable
- Looked into own resources
 - Recycled water for groundwater recharge
 - Stormwater capture

Proactive Water Resources Planning

- Stormwater capture – maximizing local resources
- Recycled water – drought proof supply
- Conjunctive Use Projects – shared infrastructure/shared resources
 - Developed partnerships where they share infrastructure, all involved put water into groundwater basin and everyone can pull from that in future drought times
- Groundwater management – Proactive and adaptive

Current Collaborations

- Cost share of partnerships is what you put into it, been helpful in building these collaborations
- Enhanced stormwater capture/recharge project
- Cooperative groundwater recharge (Groundwater Council)
- Hydroelectric facilities
- Local resource investment program
 - Investment in incentivizing partner agencies (retailers, neighbor agencies) to build projects that either put recycled water in the ground, increase stormwater capture, or encourage conservation (leave water in the ground)

Example 1: Local Resources Investment Program

- Financial incentive to retailers
 - New sources of supplemental water
 - Projects include recycled water and stormwater capture
 - Project 1: East Valley Water District's Sterling Natural Resources Center
 - Up to 11,000-acre feet per year of recycled water
 - Demand management incentive:
 - Pay \$173 for each acre-foot of water not taken out of groundwater or each acre-foot of recycled water recharging the groundwater basin
 - Makes economic sense, because SBVMWD would pay more to buy supplies

Future Collaborations – Watershed Connect

- Spent 10 years permitting for recycled and stormwater capture water projects
 - Made them write down all the infrastructure they needed in next 10 years to be resilient
 - Came in handy for looking for money to finance projects
- Interconnected and integrated funding opportunity
- Long-term funding tool for water infrastructure
 - ~\$600 million worth of water infrastructure over decades
 - How to fund this?
 - Capture, recharge, storage, treatment, and conveyance project
 - Maximize use and reuse of local water resources
 - Maximize values, offer synergistic benefits
 - Phase 1 projects:
 - Showed Environmental Protection Agency (EPA) the connectedness of projects (projects ranging from all parts of the county)
 - Benefits: Resiliency in the face of climate changes, infrastructure enhancements, drought resilience, improved water quality, ecological health

Future Collaborations – Regional Recycled Water System

- Building basins that will receive treated wastewater from wholesale agencies
- Bought the land, paid for infrastructure, everything they paid for is for regional benefit
- Final thoughts: Can use everyone's money that they are spending anyways as matching funds to get EPA loans/grants and finding what they are spending as a region, and how they can use that money to leverage for more funding sources. Band together as a region, figure out what you all need, how you can all help each other, and then ask state to come in and supplement.

Questions for Heather Dyer, SBVMWD

- Q: How did you sell it to the communities? I imagine there was some sort of effects on their rates and property taxes. And what kind of pushback, if any, from the community did you all support?
- A: For this first round of \$436 million worth of infrastructure projects, they were happy because the retail agencies have rates that they have to pass onto their customers, whereas as a wholesaler, we have our general fund reserves. So, when we looked at everything people wanted to build, what we found as the wholesaler was that we needed to build these projects anyways this year, so we figured out we would spend \$100 million no matter what. But by banding together, we could use that \$100 million as matching funds for the whole program costs, which then was used as a matching fund for retail agencies to finance 100% of their projects and are actually financing their WIFIA for 100% of their projects. That was important because some of the retail agencies on our projects need to build the cost of projects in over time. So, with them being able to finance 100% of their projects, they now have 35 years of a WIFIA loan payback term to build that cost in. So, it was really advantageous for them.

The reality is that all water projects costs money. One of my biggest messages is that if you think about California water, the entire state benefits in terms of economics. We are all tied together by our economies so if I can somehow help the urban costal centers have a more reliable water supply and they are an economic engine sending money to Sacramento, or the agriculture sector in California, we can all help each other be more resilient over time, and that makes our economy resilient, so we all benefit. I try to advocate that water projects do cost a ton of money, so let's be creative in thinking about what the state's role is in having a reliable water system. Water is connected throughout California and our economy.

- Q: Could you tell us more on how water use efficiency or conservation on a distributed, household, or commercial scale, fits into the integrated planning as a piece of that work?
- A: We are an adjudicated basin, every year we prepare a report and this year are reporting 30,000 acre-feet less than last year. We are producing less than 20% of the safe yield for our adjudication, so clearly our retailers and citizens are doing their part. We never rebounded after the 2016/2017 drought responses; we kept our production low. We layered on top of this this new local resources investment program. One of the challenges we have is that our retailers don't have a strong conservation program because they don't have the funding needed to get that going. So, by creating this incentive where we've made a commitment to "buy back" 5,000 acre-feet from our retailers by them not producing it in the first place, they can use that funding to get their customers less water.

5. Advancing Regional-Scale Stormwater Management in San Mateo County (Presented by Reid Bogert, C/CAG):

SMC Regional Collaborative Program Development

- San Mateo County Wide Water Pollution Prevention Program (SMCWPPP) Background
 - C/CAG collective of 21 municipalities in San Mateo County
 - Focus areas: local, countywide, and regional compliance support

- Funded by countywide property fee (\$1.5 million) and \$10 vehicle registration fees (\$1 million)
 - Focus on key pollutants: trash, polychlorinated biphenyls (PCBs)/mercury, pesticides, emerging contaminants
 - Short on funding for capital projects and operations and maintenance (O&M)
- Stormwater Management Scales
 - Heavy focus on green stormwater infrastructure
 - Some parts required by stormwater permits
 - Other aspects support multi benefit improvements
 - Operate at three different scales for planning and implementation
 - Parcel scale, green streets, regional projects (looking at capturing much larger watershed areas, and storing and using water in different ways)
 - Through modeling, we have identified higher priority type projects to reduce costs countywide and looked at implementation scenarios of green infrastructure of different types and different scales, looking across jurisdictions and across watershed boundaries
- Modeling Towards Collaboration
 - County wide modeling, found can achieve cost savings
 - Looking to reduce cost of implementation of green infrastructure for permit requirements for primarily water quality benefit
 - Whole goal for program is to reduce burden of municipalities of implementing greens stormwater infrastructure at the street scale since it costs a lot to build and maintain and don't have the revenue
 - Want to build more regional projects
 - Advancing local policies to require cities to have new and redevelopment projects to build green infrastructure
- Climate Change
 - Model different greenhouse gas emission scenarios
 - Maps showing different storm return frequencies and storm water runoff depths
 - Seeing significant increase, up to 24% increase in stormwater depth for 10-year storm
 - Need to upgrade stormwater management system or managing excess flow in different ways
- Regional Collaborative
 - Got funding from the state and receive \$3 million to develop a business case, additional analysis, and design work
 - Got pro bono advice from WaterNow Alliance to do some additional funding and financing work

- Drivers and objectives for regional stormwater management, developing business case for that approach, developing an opportunities analysis, credit trading marketplace feasibility analysis (looking at stormwater credit trading), funding/financing options for green stormwater investments
- Advancing Regional-Scale Stormwater (SW) Management in SMC Project Partners
 - Partnerships included:
 - C/CAG, San Mateo County Office of Sustainability
 - C/CAG Stormwater Committee (Member agencies)
 - Flood and Seas Level Rise Resiliency District
 - BAWSCA
 - Silicon Valley Clean Water
 - Regional Water Quality Control Board
 - Consultant Team Members
- Drivers and Objectives for Regional Stormwater Management
 - Water quality is a main driver
 - Also looked at drivers that bring in external stakeholders
 - Based on cost-benefit analysis, seeing significant cost savings at the regional scale, 60% to upwards of 95% of savings
- Regional Project Identification Process
 - Used analysis to identify opportunities for regional SW projects
 - Looked at city parks, parking lots, vacant spaces
- Credit Trading Feasibility Analysis
 - Very preliminary
 - Potential demand and supply for green infrastructure projects
 - Demand – New redevelopment projection and feasibility/site constraints
 - Supply – Non-residential sites with some amount of pervious area/space for green infrastructure and co-benefits (non-regional project drainage, good soil drainage, flood prone areas, potential to recharge, etc.)
- Funding and Financing Green Stormwater Investments
 - Evaluating innovative approaches to funding and creating additional revenue
 - Non-balloted approaches
 - Enhanced infrastructure financing districts
 - Looked at C/CAG to help fund, finance, and leverage support from partners
 - OneShoreline

- BAWSCA and/or member agencies
- Hypothetical: Investing in Countywide Green Stormwater Infrastructure
 - Hypothetical spending plan over next 20 years
 - Identifies \$150 million for regional scale projects
 - \$28.5 million in parcel scale
 - \$71 million in O&M
 - How to pay for that?
 - PayGo, paying with revenue brought in, found there would be a shortfall until year 12
 - Debt financing, would work and could save \$64 million over first 20 years
- Non-Balloted Stormwater Fees
 - Options for revenue they are exploring are:
 - Property-related stormwater fee to fund (Capital improvements, ongoing O&M)
 - Novel fee type supported by SB 231
 - Legal authority may include ability to fund regional and parcel scale stormwater infrastructure
 - Can serve as security for debt-financing options to pay for capital projects
 - Includes stormwater as sewer type utility fee
 - Exploring option county wide
 - Valid approach, not been pursued yet
- Enhanced Infrastructure Financing District
 - Could be viable option for significant funding
 - Many jurisdictions are leveraging the fund for other uses
 - Not full support on this option, but still exploring it
- Water and Wastewater Rates
 - Would be ongoing discussion with partner agencies
 - Regional collaborative graphic:
 - Have units of exchange and could have separate funds for capital and O&M
 - Requires initial funding to get projects built
 - Need to build infrastructure to administer the program to track compliance credits or units of exchange
 - Headed this direction in future years
- Orange Memorial Park Regional Project (South San Francisco) (Regional Scale)
 - Completed June 2022

- Involved 7 jurisdictions
- Storage basin and infiltration gallery
- Significant portion of water infiltrated 240 acre-feet/year that could potential recharge an active groundwater basin
- Potentially 15 million gallons for non-potable reuse
- Great example of what projects can do with multi-benefits
- Got funding from California Department of Transportation (\$15.5 million)
- Model for Collaboration and Cost Sharing
 - Requirements for permits to “implement, or cause to be implemented” green stormwater infrastructure based on population
 - Can achieve goal better at a regional scale
 - Need to set up a process to cost share, can be tricky with O&M, how long credits last, paying in perpetuity or only as long as the permit is in place?

6. Second poll question (Presented by Tom Francis, BAWSCA):

The whole group had one minute to think about and respond to the question, “What funding sources/models are you excited to learn more about in support of One Water projects?” After a minute, everyone put their answers into the chat at the same time.

Common points and themes:

- Credit trading
- Infrastructure loans
- Regional/collaborative opportunities
- Community based public and private partnerships
- Models like the “acre-foot” initiative Heather Dyer described
- Funding initiatives
- Direct payment for local projects

7. Second Roundtable Breakout Session and Report Outs

Common points and themes from breakout room discussions

Q1: What funding sources/models could better incentivize the development of local/regional One Water projects?

- Ability to secure outside funding
- Collaborations between private and public entities

- Benefits to various other interests
- Local funds/rates that could be a source of funding
- Missing “Gap Plan” Work needs to be done to see where funding is already being used/where the gap is in funding

Q2a: What are 3 challenges to securing funding for One Water projects?

- Finding enough partners to help secure outside funding
- Collaboration is key, among different water agencies
- Lack of knowledge on the funding project
- Project size
- Educations for partners, identifying partners
- Quantifying the benefits to link to financial contributions

Q2b: What can be done to overcome those obstacles?

- Collaboration and communication amongst groups
- Increase education and transparency
- Staff and resources to facilitate
- External and internal stakeholder engagement

Q3: What role could BAWSCA or other local/regional organizations play in securing or facilitating funding for One Water projects?

- Leverage BAWSCAs political network
- Centralized database that all agencies can access/sharing resources
- Letters of support
- Identifying grants and bring interested parties together, connect with other agencies
- BAWSCA being an advocate for water agencies in Sacramento

8. Plan for Next Roundtable Meeting

- What projects and programs are your agency developing and/or implementing?
- Project and program information sharing is critical for developing partnerships and identifying multi-benefits
- Our region can benefit by learning what One Water projects are in the works locally

9. Project Information Form Overview (Presented by Anona Dutton, EKI):

- Idea is to continue this collaboration process, bring more education and information forward, need to identify what opportunities are out there
- Work with you with an interactive form that BAWSCA will send out
- Could be local/regional projects, in the works/conceptual
- Components
 - Contact details
 - Detailed description of project
 - Cost/funding information
 - Scheduling information
 - Additional details
- What is the benefit? Could be quantified in terms of water, habitat benefit, ecosystem benefit
- What sort of permitting or other regulatory processes are involved?
- What is cost effectiveness of it, are there others that want to partner with you?
- Will be sent out by BAWSCA and posted on One Water website

10. Adjournment to Next Meeting: 20 September 2022

- Next meeting 20 September 2022, from 1:00 – 3:00 PM
- Will be through Zoom, though if conditions permit could be in-person

Attachments and References

Attachments

Attachment A: Poll and chat results

Attachment B: Combined results from breakout sessions

Attachment C: Workshop #2 slides

22 November 2022

MEMORANDUM

To: Bay Area Water Supply & Conservation Agency (BAWSCA)

From: EKI Environment & Water, Inc. (EKI)

Subject: **Meeting Minutes - Water Supply Reliability Roundtable Workshop 3: Identifying Local One Water Projects**
Tuesday November 8, 2022, 10AM – 12PM
Zoom Meeting

1. Call to Order & Welcome

2. Introduction & Purpose of Water Supply Reliability Roundtable Workshop #3 (Presented by Tom Francis, BAWSCA):

Meeting Attendees

- Thomas Niesar – Alameda County Water District (ACWD)
- Negin Ashoori – BAWSCA
- Tom Francis – BAWSCA
- Danielle McPherson – BAWSCA
- Kyle Ramey – BAWSCA
- Nicole Sandkulla – BAWSCA
- Drew Bost – EKI
- Anona Dutton – EKI
- Jean Hirayama – EKI
- Kim Springer – City/County Association of Governments of San Mateo County (C/CAG)
- Reid Bogert – C/CAG
- Sal Navarro – City of Hayward
- Pam Lowe – City of Menlo Park
- Samantha Vergara – City of Milpitas
- Lisa Bilir – City of Palo Alto
- Linda Grand – City of Palo Alto
- Linda Grand – City of Palo Alto
- Rebecca Oliver – City of Palo Alto
- Steven Salazar – City of San Bruno
- Shilpa Mehta – City of Santa Clara
- Azalea Mitch – City of San Mateo
- Mansour Nasser – City of Sunnyvale
- Cathleen Brennan – Coastside County Water District (CCWD)
- Mary Rogren – CCWD
- Sultan Henson – County of San Mateo
- Krista McDonald – County of San Mateo
- Susan Wright – County of San Mateo
- Ed Cooney – Hillsborough Water District
- Rene Ramirez – Mid-Peninsula Water District (MPWD)
- Kat Wuelfing – MPWD

- Phil Witt – Purissima Hills Water District (PHWD)
- Manisha Kothari – San Francisco Public Utilities Commission (SFPUC)
- Jarrod Fisher – San Mateo Resource Conservation District (San Mateo RCD)
- Stephanie MacDonald – San Mateo RCD
- Kellyx Nelson – San Mateo RCD
- Kirsten Struve – Santa Clara Valley Water
- Carol Steinfeld – Sierra Club
- Arvind Akela – Silicon Valley Clean Water
- Julia Nussbaum – Stanford University
- Dennis Murphy – Sustainable Silicon Valley
- Peter Drekmeier – Tuolumne River Trust

Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- Goals:
 - Understanding of how projects can fit within the one-water concept
 - Identification of collaborative opportunities (with either neighboring agencies or potentially non-government organizations [NGOs])
 - Identify how entities can best support, help finance, permit/approve, and/or expand projects or programs that have the potential to offer multiple benefits

Purpose of Workshops 1 and 2

- Workshop 1: Introduced the concept of “One Water”
 - Conducted in May 2022
 - Participants were asked to share their view / opinion as to what “One Water” means to them, everyone has own concept of what it might mean
 - Presentation on the Los Angeles (LA) 2040 Plan, One Water type projects on large regional scale
 - Presentation summarizing Palo Alto’s upcoming One Water Plan development
- Workshop 2: How others have approached the financing of multi-benefit projects
 - Funding options for One Water projects
 - Presentation on San Bernadino Valley Municipal Water District’s approach to project funding, successful funding mechanism for One Water type projects
 - Presentation on the C/CAG on their Countywide Green Infrastructure Funding Evaluation

Purpose of Workshop 3

- Share the results from the “Project Information Form (PIF)” and specific examples of projects envisioned
 - Are there opportunities for regional collaboration or assistance?

- Want to identify what projects are happening so when PIFs are shared, can look at what opportunities for regional collaboration exist
- Present an inventory of grant/funding opportunities for one-water projects
 - What are the current and upcoming grant opportunities?
 - How can BAWSCA (or other participant agencies) assist in applying for and or securing grant funding?
- Learn about SFPUC’s efforts, as part of their Alternative Water Supply Program, to partner on potable reuse project opportunities within the BAWSCA service area
- Plan for the fourth Regional Water Supply Reliability Roundtable Workshop

How Today’s Workshop Fits into the Roundtable Effort

- Allow participants to learn more about the myriad of water supply reliability projects that BAWSCA agencies are contemplating
- Identify if there is regional synergy present that could lead to partnership possibilities or opportunities to support multi-agency funding requests

First poll question (Presented by Tom Francis, BAWSCA):

Instructed participants to answer the question “What One Water project did you submit with the Project Information Form?” After a minute, everyone put their answers into the chat at the same time.

Common points and themes:

- Groundwater supply projects
- Master Planning/One Water Plan
- Recycled water expansion
- Regional potable reuse projects

3. Summary of Project Information Forms (Presented by Tom Francis, BAWSCA and Anona Dutton, EKI):

Project Information Form Purpose

- Identify local and/or regional One Water projects/programs in planning or development
- Identify opportunities to support or expand implementation
- Quantify water supply benefits collectively

PIF Components

- Contact details
- Detailed description of project
- Cost/funding information

- Would be nice to find out how much money we are investing as a region when it comes to water supply reliability
- Scheduling information
- Additional details

PIF Forms Received to Date – BAWSCA Member Agencies

- BAWSCA/EKI have met (via Zoom) with most BAWSCA member agency to discuss PIFs and encourage participation
- Forms received to date from BAWSCA agencies
 - Brisbane
 - CCWD
 - East Palo Alto
 - Foster City
 - Hayward
 - Menlo Park
 - MPWD
 - Millbrae
 - Palo Alto
 - PHWD
 - Santa Clara
 - Stanford
 - Sunnyvale

PIF Forms Received to Date – Non-Water Agencies/Organizations

- Stanford University (Faculty/Research project)
- C/CAG
- San Mateo County
- BAWSCA intends to reach out to wastewater agencies as well as select NGOs to gather additional PIFs
- SFPUC's Alternative Water Supply Plan projects will not have PIFs, but are important and will be included in final report

Summary Statistics of Project Information Forms (Presented by Anona Dutton, EKI):

- 45 total projects
- Total estimated yield ranging from 17 to 33 million gallons per day (MGD)
- Project type breakdown
 - Recycled water (29%)
 - Groundwater extraction (24%)
 - Other (22%)
 - Stormwater (13%)

- Policy (7%)
- Surface water (4%)
- Stage of projects
 - Concept stage (30%)
 - Planning stage (52%)
 - In-progress (19%)
- Summary map
 - Shows broad distribution of different project types and shows investments each agency is putting into increasing their water supply reliability
 - Individually, projects may seem small from the yield perspective, but when combined, can have significant yield and water supply benefit to the region

Examples of PIFs Submitted (Presented by Tom Francis, BAWSCA):

- City of Brisbane
 - Recently completed a groundwater assessment study, investigating an option to install an irrigation supply well
- Foster City
 - Conceptually considering options to bring recycled water to select areas of the City, have large customers that are interested in recycled water
 - Concept requires cooperation from partner agencies (Redwood City and wastewater agencies) and could be further reviewed as part of a future recycled water feasibility study
- City of Hayward
 - Began delivery of recycled water in March 2022. The estimated average deliveries are expected to be about 260,000 gallons per day (gpd) to 31 customers. Hayward constructed 8.5 miles of pipeline, a 0.5 MGD membrane treatment facility, and a 500,000 gallon storage tank, very successful recent effort
 - Planning to prepare a Recycled Water Master Plan to evaluate the feasibility of expanding the recently constructed system
- MPWD
 - Planning a potable groundwater supply development project, new groundwater well would be installed for dry year supply purposes with an anticipated capacity at 200 gallons per minute (gpm), potential site for this well has been identified
 - Project planning will include conducting the necessary engineering design, permitting, environmental documentation, construction, startup and testing
- Sunnyvale

- Will be conducting a comprehensive update of their 2013 Feasibility Study for Recycled Water expansion
- Updated study will review a potential / planned expansion of recycled water service areas and include sales projection scenarios, plus consider connections to other regional recycled water systems and neighboring cities
- Update will also make recommendations as to long-term Capital Improvement Program (CIP) inclusion of future work
- San Mateo County
 - Office of Sustainability (OOS) is developing a sea level rise mapping tool and risk assessment checklists that will support facility and capital projects managers in identifying whether a proposed facility is in a sea level rise risk area, and if so, guide the development of adaptation strategies for that facility
- Stanford University (Prof. Luthy)
 - Study is underway regarding the region’s water supply needs in light of recent amendments to the Bay-Delta Plan that will require more flow to be left in-stream for ecosystem use
 - Study includes the development of a model of Tuolumne River water supply, the model will allow for simulation of long-term water supply performance under various climate, policy, and coping scenarios
 - Solutions will be proposed via the evaluating how future water supply investments (e.g., storage, interties, regional desalination) might contribute to resilient water supply performance in the face of climate and policy stresses

Second poll question (Presented by Tom Francis, BAWSCA):

Instructed participants to answer the question “What One Water project are you most excited to learn about?” After a minute, everyone put their answers into the chat at the same time.

Common points and themes:

- All of them
- Groundwater projects
- Stanford study
- Model ordinance and regulation language
- Water reuse
- Recycled water projects
- Integrated stormwater projects, recycled water, ground water supply

4. Presentation on Current and Upcoming Funding and Financing Opportunities (Presented by Anona Dutton, EKI):

Overview

- Current and ongoing funding/financing programs
- Peninsula Drought Resiliency Program Case Study
- What can BAWSCA do to help?

Summary of Active Funding Opportunities

- Table summarizing the currently available funding options from the following sources:
 - California Department of Water Resources
 - United States Environmental Protection Agency
 - United States Bureau of Reclamation
 - California State Water Resources Control Board
- Table will be provided via email following the workshop

Funding Tables

- Sustainable Groundwater Management (SGM) Prop 68 Implementation Round 2
 - Deadline was extended to December 16th
- Urban Community Drought Relief
 - Opened 10/10/2022, applications close on 1/31/2023
 - All BAWSCA agencies eligible to apply
- Integrated Regional Water Management Grant Programs
 - Opened 5/17/2022, second deadline for applications 2/1/2023
 - Really a place where regional coordination and collaboration comes into play
 - Very competitive, but projects in this region have historically been successful
- Small Community Drought Program
 - Rolling submission, first-come, first-served basis
 - Storage, infrastructure improvements to deal with drought
- Water Infrastructure Finance and Innovation Act
 - If have significant capital projects, big pot of money will be available, exact timing is unclear
- WaterSMART programs
 - Centered around water supply reliability and water conservation
 - Lot of communities have been successful with innovative water conservation projects/programs
 - Water Marketing Strategy Grants
 - Planning efforts to develop water markets

- Environmental Water Resources Projects
 - Projects for water conservation and efficiency
 - Opportunity for agencies with ecological values within their service area (creek restoration, stormwater management, etc.)
- Cooperative Watershed Management Program
 - Integrated water management and One Water projects, multibenefit projects
- Water Recycling Funding Program
 - First-come, first-served
 - Lot of agencies have been successful
 - Huge interest in reuse, lot of investment in that direction
- Site Cleanup Subaccount Program
 - Impacted groundwater
 - Recent PFAS regulations, money to help address groundwater cleanup
- Drinking Water State Revolving Funds
- Clean Water State Revolving Funds

Case Study: DWR's 2021 Urban and Multibenefit Drought Relief Grant Program

- Grant for interim and immediate drought relief to urban communities and for multibenefit projects
- Intended to provide water
 - To communities that face the loss or contamination of their water supplies
 - To address immediate impacts on human health and safety
 - To protect fish and wildlife sources
- \$190 million grant funds
 - Minimum award amount \$2 million; smaller projects could be bundled together

Case Study: Peninsula Drought Resiliency Program

- Several BAWSCA agencies jointly submitted an application; more cost effective and told a story of how collectively their projects and programs are supporting the diversification of the supply portfolios and increasing resiliency of supplies in the face of drought
- Lots of economies of scale, but each agency got to tell its story
- Coordinated effort to develop local groundwater supply sources on the San Francisco Bay Peninsula
 - North Coast County Water District (NCCWD), MPWD, PHWD, City of Brisbane, City of East Palo Alto

- Applications collectively represented a regional effort to increase regional supply reliability through the development of local, drought resilient supplies and infrastructure

Case Study: Collaborative and Rapid Effort to Get Grant Package Ready in 7 Weeks

- Grant announcement to submission was 7-week period
- Five agencies had to get together, decide they wanted to do it, get contracts in place, get resolutions adopted by their boards, get projects described including the work plan, budget, schedule, get letters of support, self-certification for eligibility, and fill out the grant application

Case Study: NCCWD Potable Groundwater Supply Wellfield Development

- Awarded \$6.6 million(!) from the 2021 Urban and Multibenefit Drought Relief Grant Program to develop local groundwater supply project
- Project is intended to diversify supply portfolio so not 100% reliant on SFPUC Regional Water System (RWS)

Case Study: Lessons Learned...

- Example of successful collaborative efforts between project sponsors and agencies like BAWSCA to achieve project funding
- Letters of support from BAWSCA spoke to the critical need for these projects in the region
- Important to be aware of funding opportunities available and where collaboration with other agencies is possible, need to know and anticipate that these opportunities are coming in order to mobilize and organize in time for the application
- Need to be able to react quickly when opportunities arise

How Can BAWSCA Potentially Help When it Comes to Funding? (*suggestions from One Water Roundtable Participants)

- Offer Letters of Support for applications*
 - DWR indicated that if they have two equal project applications, they will support a project with support letters
- Establish a grant tracking program (Information sharing – Opportunities, eligibility, requirements)*
- Develop subscription programs
 - Funding strategy (guidance on applicable upcoming opportunities, identify ways to improve competitiveness, proactively support project development)
 - Grant applications*
 - Grant administration*
- Help connect agencies with shared interests*

- Facilitate development of regional projects
- Increase public awareness and education*
- Creating a centralized database agencies can access*

5. SFPUC's Potable Reuse Exploratory Plan (PREP) (Presented by Manisha Kothari, SFPUC):

Global locations using purified recycled water for drinking

- SFUC is not alone in doing purified water projects
- Lot of examples in California to learn from

Purified Water Projects in the Service Area

- Currently working to understand how purified water could work with the RWS and be used in dry years in the future to have sustainable water supplies

Types of Purified Water Projects Being Planned

- Indirect Potable Reuse (IPR)
 - San Francisco (SF)-Peninsula Regional PureWater (Phase 1) (Reservoir Augmentation)
 - ACWD-Union Sanitary District (USD) Purified Water (Groundwater Recharge)
 - What's been done most of the time
- Direct Potable Reuse (DPR) (Treated Water Augmentation)
 - Regulations from State Board not finalized yet, expected in December 2023
 - In meantime, been following drought recommendations and recommendations from the panel
- Thinking about both IPR and DPR in the SFPUC service area
 - South Bay Purified Water
 - SF Purified Water
 - SF-Peninsula Regional PureWater (Phase 2) or 12 MGD alternative
 - ACWD-USD Purified Water (possible Phase 2)

Overarching Considerations for Purified Water Implementation

- Public Acceptance
 - Need for demonstration and gaining trust of public
- Treatment Needs (dependent on feed water quality, regulations)
 - Secondary effluent quality
 - Receiving water needs

- Anticipated discharge requirements (expecting those will change and be more stringent)
- Nutrients in brine
- Operational Needs
 - Ability to store and/or deliver
 - A lot of needs will be dry year needs, but needs to be operated year-round to keep membranes wet, so what to do with water during normal and wet years
 - Discharge requirements
 - Operational readiness
 - Upcoming new requirements for staffing and having staff be certified so ready for operation
- Cost relative to other supply options
 - Expensive and lots of moving parts, both on operation and maintenance (O&M) and capital front, grants talked about earlier will be needed

SF-Peninsula Regional PureWater (SPRP)

- Planning Assumptions:
 - Max 6-12 MGD of purified water can be produced from all available effluent from Silicon Valley Clean Water (SVCW) and San Mateo
 - Don't know who will be credited for how much water yet
 - Phase 1, Alternative 1:
 - Feed water from San Mateo and SVCW → Crystal Springs Reservoir → Harry Tracy Water Treatment Plant (WTP) → Customers (IDP)
 - Phase 2, Alternative 1 or Alternative 2:
 - Feed water from San Mateo and SVCW → Drinking water reservoirs in Peninsula or RWS transmission pipelines
 - Still deciding between these two alternatives, in final stages of evaluating feasibility, environmental review sometime next year
- Key Planning Considerations:
 - Governance structure to be determined
 - Potential direct potable reuse (DPR) tie-in locations must be identified and evaluated

SFPUC-ACWD-USD Purified Water

- Purified water from USD → Quarry Lakes (recharge groundwater) → treated by ACWD → additional supply to SFPUC and ACWD
- Working on feasibility study now based on flow data from USD

- Planning Assumptions:
 - Feed water from USD can produce up to ~10 MGD across two phases – 5.4 MGD in Phase 1 (IPR) and 4.9 MGD in Phase 2 (DPR)
- Key Planning Considerations:
 - Water quality from USD and associated advanced water treatment
 - Water quality needs for Quarry Lakes
 - Confirmation of plant siting

South Bay Purified Water

- DPR project In concept stage, just kicking off feasibility study
- Purified water from South Bay Purified Water near Regional Wastewater facility →
 - (all years) San Jose and Santa Clara
 - (dry years) Bay Division pipelines
- Planning Assumptions:
 - 3.5 MGD of purified water available to the SFPUC in dry years only from a 10 MGD project with the Cities of San Jose and Santa Clara
 - San Jose and Santa Clara to produce additional year-round supply of 6.5 MGD
- Key Planning Considerations:
 - Where and when deliveries enter RWS
 - If there is more dry year supply available for additional benefit

San Francisco Purified Water

- San Francisco doesn't have any place for IPR, so only option is treated water augmentation or DPR
- SFPUC did small successful research pilot in headquarters building from 2018-2020
 - Took own wastewater from building and treated it
- Options: Two plants (equitable distribution) with advanced treatment followed by direct distribution to customers
 - Feed water from Southeast Treatment Plant → Drinking water reservoirs → Distribution to customers
 - Feed water from Oceanside Treatment Plant → Drinking water reservoirs → Distribution to customers
- Planning Assumptions:
 - Limitations on groundwater or surface water storage
 - No water treatment plant within San Francisco

- Planning Considerations:
 - Equitable distribution throughout the city
 - Need for new supplies locally despite downward trend on water supply needs

Sustained Engagement Critical for Purified Water

- Mobile Purified Water Demonstration (near-term [within < 2 years])
 - Introduce operators to advanced treatment that can be connected to their wastewater effluent
 - Outreach to communities directly where they are
- Permanent Feature in SFPUC headquarter building Reuse (medium-term [within 2-5 years])
 - Demonstrate commitment to reusing water (doing it ourselves)
 - Outreach to SFPUC / City staff
 - Outreach to decision-makers, public officials, others who come to 525 Golden Gate Avenue
- Full-scale demo widely accessible to public (long-term [in 5-10 years])
 - Building operational capacity, providing training and certification opportunities
 - Building confidence of regulators
 - Broad public engagement and education

Question from Tom Francis, BAWSCA: Is SFPUC concerned about equitability in BAWSCA service area? If there is a potable reuse project in the center of San Mateo county, would your other wholesale customers be concerned they would be getting “poorer” quality water?

Answer (Manisha Kothari, SFPUC): In short term, yes. In long-term, I hope not. At the end of the day, purified water is water and I hope we get to the point to where we can lose some of these adjectives (such as recycled) and focus on the end product which is water. I think it is our job as utilities to make sure we are able to convey that and that it is trustworthy and convincing and to do that we need to do our homework and be transparent. That’s why it takes longer to build these projects because you need to make sure you are doing all the steps correctly, safe, conscientious, and transparent. So if you do all the right steps, hopefully in the long run, it won’t be an issue, but of course in the short term people are going to be nervous about anything that’s new, it is a new supply source. Anytime you introduce a change it’s hard and we need to be mindful of that.

6. Second Roundtable Breakout Session and Report Outs

Did not have time to go over responses and discussions from breakout sessions

7. Plan for Next Roundtable Meeting

- Summary of the Roundtable Workshops held (1 through 3)
 - What did you find most informative from the Workshops?

- What was missing?
- Discussion of the work product
 - Proposed contents of the report produced following the close of Workshop 4, which likely will include
 - Discussion of the work, including findings and recommendations from the experience
 - Appendices: workshop notes; PIFs
- Next steps
 - Should there be future workshops?
 - If so, what should the content be, and who should participate?
 - How best can engagement between the diverse group of participants be maintained?

8. Adjournment to Next Meeting

- Next meeting early 2023
- Date and time to be determined
- Format: In-person if COVID conditions allow

Attachments and References

Attachments

Attachment A: Workshop #3 Poll and Chat Results

Attachment B: Workshop #3 Breakout Sessions

Attachment C: Workshop #3 Presentation Slides

Attachment D: Current and Upcoming Funding Opportunities

02 March 2023

MEMORANDUM

To: Bay Area Water Supply & Conservation Agency (BAWSCA)

From: EKI Environment & Water, Inc. (EKI)

Subject: **Meeting Minutes - Water Supply Reliability Roundtable Workshop 4: Moving Forward!**
Tuesday February 14, 2023, 10AM – 12PM
Zoom Meeting

1. Call to Order & Welcome

2. Introduction & Purpose of Water Supply Reliability Roundtable Workshop #4 (Presented by Tom Francis, BAWSCA):

Meeting Attendees

- Thomas Niesar – Alameda County Water District (ACWD)
- Kelsi Oshiro – ACWD
- Tom Francis – BAWSCA
- Danielle McPherson – BAWSCA
- Kyle Ramey – BAWSCA
- Nicole Sandkulla – BAWSCA
- Drew Bost – EKI
- Anona Dutton – EKI
- Jean Hirayama – EKI
- Kim Springer – City/County Association of Governments of San Mateo County (C/CAG)
- Reid Bogert – C/CAG
- Sal Navarro – City of Hayward
- Rebecca Oliver – City of Palo Alto
- Steven Salazar – City of San Bruno
- Shilpa Mehta – City of Santa Clara
- Azalea Mitch – City of San Mateo
- Cathleen Brennan – Coastside County Water District (CCWD)
- Mary Rogren – CCWD
- Ed Cooney – Hillsborough Water District
- Kat Wuelfing – Mid-Peninsula Water District
- Jarrod Fisher – San Mateo Resource Conservation District
- Kirsten Struve – Santa Clara Valley Water
- Arvind Akela – Silicon Valley Clean Water
- Julia Nussbaum – Stanford University

Purpose and Goals of Roundtable Discussions

- Purpose: Provide an opportunity for collaboration among interested stakeholders
- Goals:

- Understanding of how projects can fit within the one-water concept
- Identification of collaborative opportunities (with either neighboring agencies or potentially non-government organizations [NGOs])
- Identify how entities can best support, help finance, permit/approve, and/or expand projects or programs that have the potential to offer multiple benefits

Interactive Poll #1, presented by Tom Francis, BAWSCA

After discussing the goals of the Roundtables, Francis polled the group on if they would like the Roundtable Series to continue in the future, and if so meeting at what frequency by asking: Would you like to see more One Water Roundtable Workshops in the future? If so, at what frequency (quarterly, twice a year, etc.)?

A majority of the answers were twice a year, and the rest of the response are illustrated in **Appendix A**.

3. Summary of Reliability Roundtable Series and Introduction to BAWSCA's Long-Term Reliable Water Supply Strategy (Strategy)

Workshops 1 and 2 – Discussion That Took Place

- Workshop 1: Introduced the concept of “One Water” (24 May 2022)
 - Participants were asked to share their view / opinion as to what “One Water” means to them
 - A presentation on the Los Angeles (LA) 2040 Plan, and extensive LA project
 - A presentation summarizing Palo Alto's upcoming One Water Plan development
- Workshop 2: How others have approached the financing of multi-benefit projects (28 June 2022)
 - Pretty important topics for our region in the future
 - One Water projects funding options
 - A presentation on San Bernadino Valley Municipal Water Districts' approach to project funding
 - A presentation on the C/CAG on their Countywide Green Infrastructure Funding Evaluation

Workshop 3 – Discussion That Took Place

- Shared the results of the “Project Information Form (PIF)” gathering effort, and pointed to specific examples of the projects envisioned
 - o Got forms from other agencies as well besides member agencies
 - o Forms were very informative, impressed by the types of projects being planned
- Presented an inventory of grant/funding opportunities for one-water projects
 - o A listing of current and upcoming grant opportunities
 - o Discussed how BAWSCA (or other participant agencies) could assist in applying for and or securing grant funding

- BAWSCA will be doing a program in upcoming fiscal year (grant support program), listening to what participants want
- Learned about SFPUC's efforts, as part of their Alternative Water Supply Program, to partner on potable reuse project opportunities within the BAWSCA service area

Purpose of Workshop 4

- Receive an update as to projects being contemplated, or in development, by various agencies (as documented via PIFs received)
- Receive updated information regarding pending funding (grant) opportunities
- Learn more about Alameda County Water District's (ACWD's) potential potable reuse project
- Discuss the proposed content of a report that will be produced summarizing the four Roundtable workshops
- Plan for the future of the Roundtable

Interactive Poll #2, presented by Tom Francis, BAWSCA

Further inquiring about the format of future Roundtables, Francis posed the poll question: For possible future One Water Roundtable Workshops, would you prefer them to be virtual, hybrid, or in-person, and why?

A majority of the answers were for virtual or hybrid, and the complete responses can be found in **Appendix A**.

Roundtable Report

- BAWSCA committed to preparing a report detailing the work effort once the 4th Roundtable workshop was held
 - Before the workshops started, there was a lot of outside interest, so BAWSCA documented the workshops
- This report will be made available to Roundtable participants and the public on the Roundtable website to be broadly shared
 - BAWSCA will also provide the report to their Board
- BAWSCA anticipates that the BAWSCA Board as well as other interest groups will request presentations detailing the work effort
 - BAWSCA will use the report in presentation preparation
- BAWSCA anticipates that the report will be finalized by mid-April 2023

Roundtable Report Contents

- BAWSCA is in the process of finalizing the content / report outline
- The Roundtable Report will likely include the following sections

- Introduction
- Purpose and Goal of the Roundtable Workshops
- Stakeholders Invited / Participants
- Summary of each Roundtable Workshop, including meeting minutes
- PIF summary, including a grouping by project type and geographic extent, will be large part of the report
- Grant opportunities identified
- Lessons learned
- Next steps regarding future meetings
- Appendix of PIFs submitted
- Appendix of SFPUC's Alternative Water Supply Projects with BAWSCA agency partners
- Appendix of presentations given at the Workshops (PPTs)
- Appendix with support documents prepared (fact sheets, outreach materials, website developed, etc.)

BAWSCA's Long-Term Reliable Water Supply Strategy

- BAWSCA's Long-Term Reliable Water Supply Strategy (Strategy) was published in 2015
- The Strategy was a five-year effort by BAWSCA and its member agencies to identify appropriate water management actions that provide long-term water supply reliability for the region
- To prepare the Strategy, a comprehensive assessment of the regional water supply reliability needs through the year 2040
- Included in the work was an evaluation of potential water supply reliability projects that could be implemented
- It proposed a suite of actions by BAWSCA
- BAWSCA uses this document as a guideline for future work

Strategy – Suite of Recommend Actions (2015)

- Recommended Actions:
 - Lead water transfer development and implementation including identifying and evaluating water storage options
 - Facilitate desalination partnerships and pursue outside funding for related studies
 - Support agency-identified projects (i.e., recycled water and groundwater) and local capture and reuse
 - Participate in regional planning studies in cooperation with others
 - Continue monitoring regional water supply investments and policies

- For each recommended action, several work efforts to be performed by BAWSCA were proposed to further strategy implementation
- Since 2015, BAWSCA annual budget and work plan was aligned with the 2015 Strategy

Update of BAWSCA's Long-Term Reliable Water Supply Strategy

- Conditions have changed since 2015 such that an update of the Strategy is warranted
- Changes include the following:
 - BAWSCA has prepared updated demand studies
 - BAWSCA member agencies have prepared new Urban Water Management Plans (UWMPs)
 - BAWSCA is updating the Tier 2 Plan for SF RWS supply allocations during water shortage emergencies
 - Water supply projects at the member-agency specific level have come online and moreover agencies have future plans that were not envisioned in 2015
 - Regulatory pressures are mounting, some of which have the potential to impact existing supply reliability
 - Large regional water supply projects, such as the Los Vaqueros Reservoir Expansion Project, have advanced.
 - The SFPUC has embarked upon the preparation of an Alternative Water Supply Plan which informs BAWSCA and its member agencies regarding their future plans toward water supply reliability

Multi-Phased Approach to Strategy Update

- Phase 1 – Scope the update of the Strategy
 - BAWSCA will be issuing a Request for Proposal (RFP) to secure consulting assistance with the Scoping of the Strategy
 - Tentatively the RFP will be released in February of 2023
 - BAWSCA anticipates the scoping work to begin in the Spring of 2023 and extend into the Fall of the coming fiscal year
 - BAWSCA has written the RFP such that the selected consultant could be used to craft the updated Strategy, although BAWSCA has the option to issue a subsequent RFP for the work effort
 - BAWSCA's current fiscal year (FY) budget and proposed FY 2023-24 budget includes monies for the scoping effort
- Phase 2 – Strategy update
 - BAWSCA anticipates that the update of the Strategy will commence in FY 2023-24
 - Update efforts are anticipated to extend into FY 2024-25

Strategy Update – Phase 1 (Scoping Effort)

- Task 1 – Document Review
 - BAWSCA’s existing Strategy Final Reports
 - BAWSCA’s most recent Demand Study and Annual Report
 - BAWSCA’s Pilot Water Transfer Report
 - BAWSCA Member Agency PIFs collected by BAWSCA detailing future agency-specific water supply development plans
 - SFPUC’s recent quarterly report(s) as prepared for its Alternative Water Supply Program
 - Member Agency UWMPs, and in particular sections of said UWMPs that detail future water supply development
 - Consultant will be tasked with identifying similar “plans” as prepared by other water agencies for their Strategies / long-term water supply planning efforts
- Task 2 – Stakeholder Engagement
 - BAWSCA member agency representatives
 - BAWSCA Board
- Task 3 – Meeting Attendance and Technical Support
 - Various technical memorandums will be produced to facilitate the development of a Scope of Work for the update
 - Materials as needed to gather stakeholder input

Long Term Reliable Water Supply Strategy Update (Phase 2 Work Effort)

- To develop the Strategy update, BAWSCA envisions that a stakeholder task force, separate from a member agency tasks force, is likely to be needed
- Engagement with the task force, and the public at large, is likely to include workshops and presentations
- Those workshops and presentations may be held separately, or could be conducted via any future Roundtable Workshops
 - Much will depend on the scope of the update as well as on how such a scope aligns with the focus of the Roundtable

4. Updated Presentation on Project Information Forms and Inventory of Grant Funding/Financing Opportunities, Presented by Anona Dutton, EKI

- Updated PIF statistics/values
 - Total estimated yield form all the PIF projects ranging 21-40 million gallons per day (MGD)
 - Project type breakdown:

- Recycled water :26%
- Groundwater extraction: 26%
- Other: 24%
- Stormwater 14%
- Policy: 6%
- Surface water: 4%
- Project stages:
 - Concept stage: 20%
 - Planning stage: 38%
 - In-progress stage: 42%
- Geographic Distribution of Projects by Type Image
 - Great to see so many local agencies participating in many types of local projects
 - Can see spatially variability in types of projects
 - Benefits the whole region if agencies get grants for recycled water, groundwater work, etc.

Summary of Active Funding Opportunities

- Would be good for agencies to use BAWSCA as resource for knowing who can contact to learn what worked and didn't work in the grant application process
- With PFAS/emerging contaminants continue, there will be need to address groundwater contamination, Groundwater: Site Clean Subaccount Program from State Water Resources Control Board (SWRCB) would be useful
- Funding table slides will be available after the workshop

5. ACWD's Regional Purified Water Project, Presented by Kelsi Oshiro, ACWD

Purified Water Feasibility Evaluation Draft Results

Background

- This current Purified Water Feasibility Evaluation (PWFE) is being completed with San Francisco Public Utilities Commission (SFPUC) and Union Sanitary District (USD)
- Woodard & Curran, Inc. (W&C) is the consultant with subconsultants, LimnoTech, Trussell Technologies, and Data Instincts
- This PWFE is based on previous purified water studies by ACWD and USD completed in 1993, 2000, 2003, 2010, and 2016.
- In 2017, the Bay Area Regional Reliability (BARR) study included creating an intertie with SFPUC

PWFE Scope of Work

- Identify recommended purified water alternative, including high-level cost estimate
- Complete a draft report to be submitted to United States Bureau of Reclamation (USBR) Title XVI and future submittal to SWRCB Water Recycling Funding Program (WRFPP)

Assumptions and Decisions

- Alternatives were evaluated with and without USD's Enhanced Treatment & Site Upgrade (ETSU) program
- Includes a Demineralization Plant
- This is a feasibility study, and no firm construction plans at this time

Draft Recommended Alternatives

- Combined indirect potable reuse (IPR)/direct potable reuse (DPR) train with IPR as Phase 1 and DPR as Phase 2
- Assumes ETSU Program is complete
- Advanced water purification facility (AWPF) at ACWD's Pit T2

Schematic of Draft Recommended Alternative

- Secondary effluent from Alavardo Wastewater Treatment Plant (WWTP), piped to Pit T2 at ACWD facility
- Complex piping through busy and urban area so piping everything to ASCW does add a lot of cost
- Some water is piped to Quarry Lakes for recharge to groundwater basin, and rest of water sent to treatment, also through urbanized area

Draft Groundwater (GW) Demineralization Plant Concept

- The recommended alternative is anticipated to produce about 7,600 acre-feet per year (AFY) of advanced treated purified water for recharge into Niles Cone GW Basin via Quarry Lakes
- Water would be pumped at ACWD's existing GW facilities and demineralized at a new reverse osmosis (RO) facility to match Hetch Hetchy water quality (WQ; in terms of hardness)
- This may provide ACWD an opportunity to increase use of local GW supply and decrease imported water from SFPUC in regard to hardness goals

Alternatives' Draft Costs

- Phase I (PIR):
 - Total capital: \$369,296,000 - \$517,025,000
 - Total Annual Cost (capital + operations and maintenance [O&M]): \$28,728,000 - \$37,111,000

- Average Yield (AFY): 6,048
- Unit Cost (\$/acre-foot [AF]): \$4,750 - \$6,140
- Phase I & II (IPR & DPR):
 - Total capital: \$535,692,000 - \$695,722,000
 - Total Annual Cost (capital + O&M): \$44,729,000 - \$54,283,000
 - Average Yield (AFY): 11,536
 - Unit Cost (\$/AF): \$3,880 - \$4,710

Draft Limnological Study and Results

- PWFE includes a limnological (lake science) study to characterize existing Quarry Lakes WQ and the effect of addition of purified water
- Limnological study results:
 - WQ from the AWPf would improve WQ in Quarry Lakes
 - Short - and long-term WQ monitoring plans developed
 - Monitoring plans will help gather new WQ data for Quarry Lakes, including understanding blue-green algae issues
- Next steps:
 - Complete a more detailed model
 - Continue to implement short-term WQ monitoring plan
 - Implement long-term WQ monitoring plan

Draft Recommended Next Steps

- Siting study: the final location of the AWPf to be confirmed at a later date by the partner agencies (ACWD, USD, SFPUC). Location of AWPf can impact project costs but does not restrict or change the primary project benefit of developing new regional water supplies
- Decision to pursue both the first (IPR) and second (DPR) phases of the alternative to be made at a later date by the partner agencies and could be impacted by capital and operational costs, available grant and loan funding, and final DPR regulations
- Public outreach

PWFE Next Steps

- Partner agencies to review of last draft chapter and draft final report to be submitted to USBR

Q/A Session:

Question #1: Has any of the entities, either you or SFPUC or USD, taken the lead on this project? From the government's perspective, is ACWD the lead?

Answer #1: Currently being discussed once report is completed, has not yet been decided

Comment from ACWD: There is not a streamline permitting process because of special considerations needed to be made. The project involved the Quarry Lakes, a recreational area, and a groundwater basin so project is operating in a gray area and there is not a clear path forward if wanted to do project right now. However, met with regional board and they were excited about looking at a project like this in the bay area, which is a good sign and helpful with other regional efforts with other partners.

Question #2: You guys looked at the best practices for this project, what did that study show? What interesting things came out of it?

Answer #2: From the draft results and based on discussions, it seems like water utilities would typically be taking the lead role as they normally do for the California Environmental Quality Act (CEQA).

Comment from Roundtable Participant: Water agencies are going to need to have operators, maintenance, and other things you need to run a water supply, unfortunately with USBR and others they want one agency to raise their hand and lead

ACWD Response: From Woodard and Curran, there is no prevailing best practice, the consensus would be a Joint Powers Authority (JPA) to lead, ACWD is not a municipal enterprise so adds degree of complexity.

6. Second Roundtable Breakout Session and Report Outs, Presented by Tom Francis, BAWSCA

Francis hopped between breakout rooms and reported his main takeaways:

- The most helpful and influential takeaways Roundtable participants had was the PIF maps and the funding opportunity tables/resources, especially for smaller agencies
- Just a good learning opportunity overall, having all these different presentations from speakers was very helpful
- Knowing what works/doesn't work would be helpful in future (grant opportunities)
- Smaller agencies are concerned on how to incorporate One Water into their agencies, so knowing more in the future and collaborating together to bring projects forward would be very important,
- Talking about climate change and different stressors in future workshops (drought, flooding, water supply opportunity and how to address)
- Workshop overload could, be affecting participation
- There were only a handful of wastewater agencies and NGOs, how to get more of them to come will a be focus of future workshops
- Worked well, educational for those who don't work normally with water/wastewater side and in One Water world and opening up experience in one water world

7. Next Steps and Future Roundtable Meetings, Presented by Tom Francis, BAWSCA

- Future Workshop Planning

- What did you find most informative from the Workshops?
- What was missing?
- What frequency is desired?
- How can we encourage better participation?
- If the Roundtable continue, is there a need for an annual work product?
 - What should the work product consist of?
 - Tom Francis asked the group if there is a need for an annual work product, responses are listed below:
 - No annual work product needed, but sharing workshop slides would be helpful
 - Annual work product would be too much work, slides are just fine
 - One thing brought up in a breakout room was that it would be helpful for participants to have access to previous workshop resources so they could be better prepared for the next workshop, maybe something like a pre-workshop newsletter summarizing past workshop topics.
 - A participant suggested that updating the project map periodically would be helpful to watch for partnerships that exist/can be developed
- Next steps
 - BAWSCA has included future Roundtable meetings in its FY 2023-24 budget and workplan
 - Staff time and consulting assistance is proposed
 - BAWSCA is adding the development of a Grant Support program to its FY 2023-24 budget and workplan
 - Support would include both a core and subscription component
 - Subscription includes the ability to directly contact consultants for help with grant info and for writing grants
 - Support would be available to member agencies, yet not be a part of a Roundtable effort

8. Adjournment

- If the Roundtables continue, the next workshop will take place in Fall of 2023

Attachments and References

Attachments

Attachment A: Workshop #4 Poll and Chat Results

Attachment B: Workshop #4 Breakout Sessions

Attachment C: Workshop #4 Presentation Slides

Attachment D: Current and Upcoming Funding Opportunities

Attachment C

Submitted Project Information Forms

Project Information Forms Summary Table

Date Received	Agency	Project Name	Project Type	Brief Description	Project Stage	Yield (given)	Location
11/22/2022	Alameda County Water District (ACWD)	Del Valle Reservoir Water Supply Storage Expansion Project	Surface Water	Modernizing the flood management rules at Del Valle Reservoir to use a greater portion of existing reservoir capacity to capture additional local supply and store additional emergency water supply while maintaining necessary flood protection.	In-progress	Between 1.4 million gallons per day (MGD) and 3.4 MGD	Del Valle Reservoir
11/22/2022	ACWD	Regional Purified Water Pilot Project	Groundwater Recharge	Pilot project would purify treated wastewater through a multi-step advanced treatment process and deliver that water to a nearby canal that would supplement flows in Alameda Creek and be diverted 15 miles downstream for groundwater recharge.	Planning	0.2 MGD	District Wide
9/6/2022	City/County Association of Governments of San Mateo County (C/CAG)	Residential Laundry to Landscape Program - Gray Water Capture as Conservation	Gray Water Capture	Educational program for residential gray water capture-to-landscape opportunities, already allowed, without residential permitting requirements based on the current California plumbing code. Program to fulfill a need to develop consistent understanding across city building departments, contractors, and residents about potential for water supply savings.	Planning	-	County wide
9/6/2022	C/CAG	Advancing Regional-scale Stormwater Management in San Mateo County	Surface Water, Groundwater Recharge, Stormwater, Recycled Water (potable and non-potable), Infrastructure/Capital Project, Water Quality Improvement, Community Benefit/Parks	The project goal was to catalyze countywide collaboration on regional-scale stormwater management to address key drivers, create a framework under which collaboration can take place and evaluate and prioritize opportunities for regional projects.	In-progress	-	Countywide
2/1/2023	California Water Service (Cal Water)	San Mateo Brackish Desal Aquifer Testing	Brackish Desalination	This study will determine project feasibility, intake selection, selection and acquisition of land, analysis of brine disposal options, and determination of the appropriate volume to be treated.	In-progress	-	San Mateo
2/1/2023	Cal Water	Water Transfer Study	Water Transfer	The water transfer option would allow Cal Water to purchase imported water supplies for use during droughts and other dry years. The water could be purchased from wholesalers or from State Water Project (SWP) or Central Valley Project (CVP) water rights holders outside of the area. During supply shortages, the supply would be wheeled through State/Federal and regional water conveyance systems to Cal Water districts. The purchased water could either be stored in a groundwater basin or used immediately.	Planning	-	Bear Gulch (BG), Mid-Peninsula (MPS), South San Francisco (SSF) Districts
2/1/2023	Cal Water	New Well in the Bear Gulch District	Groundwater Extraction	This project would construct a new well in the Bear Gulch District to pump water from the San Mateo Plain Subbasin of the Santa Clara Valley Basin. This option would provide direct benefit to the Bear Gulch District and indirect benefit to the Mid-Peninsula and South San Francisco Districts, especially during dry year and multi-dry year scenarios.	In-progress	-	BG District
2/1/2023	Cal Water	Development Offset Program	Policy	To account for projected delivery shortfalls during dry years and the need for new water supplies, the Developer Offset Program has been established to ensure continued water supply reliability. The Development Offset Program will implement a new, non-refundable special facilities fee of \$15,400 per acre-foot of net demand increase. The fee only applies to developments with a net demand increase of 50 acre-feet per year or more. Funds collected from the Development Offset Program will be used for water supply projects and expanded conservation programs designed to offset the net demand increase of the proposed development.	In-progress	-	BG, MPS, SSF Districts
11/1/2022	City of Brisbane	Brisbane Irrigation Supply Well	Groundwater Extraction	The project objective is to develop a new groundwater supply source to be used to meet the landscape irrigation demands of certain public landscaped areas within the City and thus reduce potable demand in the City. Development of this new local groundwater supply source will reduce demands on imported Regional Water System (RWS) water and will result in reduced dependence on surface water supplies that are conveyed through sensitive freshwater habitat.	Planning	21 acre-feet per year (AFY)	Site specific (Latitude: 37.6863, Longitude: -122.3988)
11/15/2022	City of Daly City	Recycled Water Expansion Project Update	Recycled Water	Recycled water project in collaboration with San Francisco Public Utilities Commission. Membrane filtration with completed membrane filtration pilot program, defined pipe alignment, and design 30% completed.	In-progress	-	City wide

Project Information Forms Summary Table

Date Received	Agency	Project Name	Project Type	Brief Description	Project Stage	Yield (given)	Location
11/3/2022	City of East Palo Alto	Pad D Groundwater Well	Groundwater Extraction	This project is for the construction of a groundwater well and associated iron-manganese treatment system to supplement the City's existing water supply. This project will create an emergency source of water supply for the City and would provide a secondary source of water in the event that the City's existing water supply is unable to meet demand during drought events or emergency conditions.	Planning	0.72 MGD	The City's property at East Bayshore and Clarke Avenue, known as Pad D, is the designated site for this well.
11/3/2022	City of East Palo Alto	New Recycled Water System	Recycled Water	Project will create recycled water system infrastructure to serve the City. The Palo Alto Regional Water Quality Control Plant (RWQCP) has the capability to produce approximately 4.5 million gallons per day (MGD) of recycled water. The RWQCP only produces 14% of its current capacity and it plans to expand the system to meet recycled water demands in the future.	Planning	0.06 MGD	City Wide
11/1/2022	City of Hayward	Recycled Water Master Plan	Recycled Water	The City is planning to prepare a Recycled Water Master Plan to evaluate the feasibility of expanding the system. Key components of this update will include a market survey and assessment determine future customers, conceptual expansion of the distribution and storage systems, and treatment options.	Planning	-	City Wide
11/1/2022	City of Hayward	Groundwater Wells	Groundwater Extraction	Emergency supply wells are planned for use as extraction-only wells to provide supplemental water supply to Hayward in the event of a short-term emergency, such as an earthquake that interrupts surface water supplies.	Planning	-	City wide
10/31/2022	City of Menlo Park (WBSD is purveyor of the project)	Bayfront Recycled Water Project	Recycled Water	West Bay Sanitary District (WBSD) to bring recycled water to Menlo Park, few years out to providing recycled water to the	Planning	220 AFY	Bayfront Area of the City
11/1/2022	City of Millbrae	Recycled Water Feasibility Study	Recycled Water	The City is preparing a Recycled Water Feasibility Study to evaluate implementation of a City-wide recycled water program. The City would produce and deliver recycled water for the irrigation of existing landscape sites and future development.	Planning	0.17 MGD	City wide
11/23/2022	City of Milpitas	Curtis Well	Groundwater Extraction	Project will install submersible pump(s), piping and treatment components to construct Curtis Well.	In-progress	0.58 MGD	Curtis Well (330 East Curtis Avenue)
11/23/2022	City of Milpitas	McCandless Well	Groundwater Extraction	Project includes the design and construction of a new Well at McCandless Park site to serve the Midtown and Metro Specific Plan areas.	In-progress	0.58 MGD	McCandless Well (near 1680 McCandless Drive)
2/2/2023	City of Mountain View	Recycled Water System Expansion	Recycled Water	Construct a recycled water storage tank and complete pipeline installations in the North Bayshore Area, as recommended in the 2022 Recycled Water Feasibility Study.	In-progress	-	North Bayshore Area
11/28/2022	City of Palo Alto	One Water Plan	Surface Water, Groundwater Recharge, Indirect Potable Reuse, Direct Potable Reuse, Recycled Water, Water Conservation	Goal of project is Council adoption of a One Water supply plan that is a 20-year adaptable roadmap for implementation of prioritized water supply and conservation portfolio alternatives.	In-progress	-	City wide
11/28/2022	City of Palo Alto	Local Salt Removal Facility: Improving Existing Recycled Water Quality at the RWQCP	Recycled Water	Effluent produced by the RWQCP is used for irrigation, but following public concerns that the recycled water has too high salinity, a preliminary design report for a local salt removal facility was prepared in 2017. Highly treated water produced by the local salt removal facility would benefit landscapes currently irrigated with recycled water in Palo Alto, enable Palo Alto to expand its non-potable distribution system, and/or provide a first step toward small-scale potable water production for direct or indirect potable reuse in Palo Alto.	Planning	-	City wide
11/29/2022	City of San Bruno	Acappella Well 21 Project	Groundwater Extraction	In the final phase of design for the "Acappella" well (well #21) as a replacement well for well #15. Designed to be stand-by well to supplement water needed for GSR.	In-progress	0.79 MGD	1001 National Avenue, San Bruno
10/28/2022	City of Santa Clara	One Water Santa Clara: Sustainable Water Master Plan	Groundwater, treated water, wastewater, recycled water, stormwater	Producing a Water Supply Master Plan (WSMP) that encompasses a One Water long-term plan that addresses drought and climate resiliency and envisions managing all water in an integrated, comprehensive, and sustainable manner.	In-progress	-	City wide
10/28/2022	City of Santa Clara	Recycled Water Expansion	Recycled Water	Expand recycled water mains to city parks for irrigation.	Planning	-	City wide
10/28/2022	City of Santa Clara	Two New Groundwater Wells	Groundwater Extraction	The project is to drill and equip two new wells and reactivate one existing iron and manganese treatment plant at a well that is currently on standby.	Planning	-	Serra Tanks site and Fire Station 5

Project Information Forms Summary Table

Date Received	Agency	Project Name	Project Type	Brief Description	Project Stage	Yield (given)	Location
10/28/2022	City of Santa Clara	Existing Well Rehabilitation	Groundwater Extraction	Rehabbing some existing wells with water quality issues and to bring them from backup wells to main source. Out of 4/5 wells, hoping to rehab 2/3 of them. Only have 2 wells in north part of town and hoping to rehab them to bring more water to that area to serve more new proposed development.	Concept Stage	-	-
10/28/2022	City of Santa Clara	Water Conservation Ordinance Update	Policy Project	Amending water conservation for new development.	In-progress	-	City wide
9/28/2022	City of Sunnyvale	Comprehensive Update of 2013 Feasibility Study for Recycled Water Expansion	Recycled Water	After completion of this project, City should have a report on the existing recycled water system, its condition, and capabilities, planned expansion of service areas, and a recommended comprehensive long-term Capital Improvement Program (CIP).	In-progress	-	City wide
11/1/2022	Coastside County Water District (CCWD)	Denniston Well Field: Well Replacements	Groundwater Extraction	The District proposes to replace the two active wells and four of the inactive well for a total of six new wells. The project is intended to significantly increase the production from the Denniston Well Field to allow the District to operate Denniston WTP for a longer period throughout the year by allowing more water from Denniston Creek to be stored in Denniston Reservoir.	Planning	20-40+ MGD seasonally	San Mateo County Coastside
11/1/2022	CCWD	San Vicente Creek Water Supply Project	Surface Water	In order to perfect its water rights on San Vicente, Coastside CWD has contracted for an engineering design of a pipeline that extends from the farmer's reservoirs to Coastside's raw water pump station.	Planning	0.3-0.5 MGD seasonally	San Mateo County Coastside
11/1/2022	CCWD	Water Reuse (Recycled Water) Feasibility Study	Recycled Water	District plans to engage in a feasibility study in early 2023 to consider options for implementing water reuse on the Coastside and the possibilities of beneficial uses.	Planning	0.5+ MGD	San Mateo County Coastside
11/1/2022	City of Foster City	Recycled Water Expansion	Recycled Water	Wastewater treatment plant expansion to produce reclaimed water and have the capacity to produce Title 22 Recycled Water, prospective work to bring recycled water to Gilead Sciences' corporate campus, acquiring recycled water from Redwood City, and potential discussion of recycled water in future Capital Improvement Plan.	Concept Stage	-	City Wide
11/1/2022	Mid-Pen Water District (MPWD)	Chlorine Booster Stations and Mixers	Water Quality	In order to reduce the risk of nitrification in storage tanks, the District operates the tanks to ensure enough flow through the system, such that the tanks are rarely full. The lower the flow through the system (that is, the lower the customer demand), the more chlorine residuals from SFPUC treatment drop and less the District is able to utilize the storage capacity in the tanks.	In-progress	-	MPWD's Dekoven Tank Site
11/1/2022	MPWD	Potable Groundwater Supply Development	Groundwater Extraction	The project consists of completing a new groundwater well for dry year supply purposes with an anticipated capacity at 200 gallons per minute (gpm). When completed, the project will provide approximately 161 acre-feet per year (AFY) of local groundwater supply. Development of this new local groundwater supply source will reduce demands on imported RWS water and will result in reduced dependence on surface water supplies that are conveyed through sensitive freshwater habitat.	Planning	0.14 MGD	Northern portion of the District near the Belmont Sports Complex
11/1/2022	MPWD	NO-DES Water Main Flushing Truck or Trailer	Water Conservation	The District is interested in a NO-DES flushing system (either trailer or truck; https://www.no-des.com/), which would allow the District to perform system flushing without discharging water to the storm drain. Given the size of the District and that these trucks are costly to purchase and maintain, the District would be potentially interested in pursuing some sort of sharing model with other agencies that would see similar benefits from using such a truck.	Concept Stage	-	District Wide
1/25/2023	North Coast County Water District (NCCWD)	Potable Groundwater Supply Well Project	Groundwater Extraction	The southern portion of the NCCWD service area overlies the San Pedro Valley Groundwater Basin, which has historically been used as a private source of groundwater supply and continues to be used for irrigation by several users. The project is to develop a new potable groundwater supply source for the District through the construction of three groundwater production wells.	In-progress	0.79 MGD	San Pedro Valley Groundwater Basin – Wells to be located at properties along Linda Mar Blvd

Project Information Forms Summary Table

Date Received	Agency	Project Name	Project Type	Brief Description	Project Stage	Yield (given)	Location
1/25/2023	NCCWD	Fog Collection	Fog	NCCWD has been collaborating with researchers at California State University Monterey Bay (CSUMB) and UC Santa Cruz to measure fog water at three of the District's water tank sites. Data collectors and rain gages have been installed with the collectors since August/September, depending upon the site. Possible future fog collector rebate or install program is envisioned in the future for customers to capture water and offset potable water demands.	In-progress	-	At three of the District's water tank sites
11/3/2022	Purissima Hills WD	Purissima Hills Water District Groundwater Well Feasibility	Groundwater Extraction	The District investigated the feasibility and cost estimation to pump local groundwater for certain end uses, such as landscape irrigation. Development of a new local groundwater supply source would reduce demands on imported RWS water and would result in reduced dependence on surface water supplies that are conveyed through sensitive freshwater habitat. Three scenarios were explored in this memo: potable water with treatment, potable water without treatment, and non-potable water.	Planning	48 AFY for potable, 24 AFY for non-potable	-
11/22/2022	Redwood City	Regional Stormwater Capture Project at Red Morton Community Park	Groundwater recharge, stormwater capture, water quality	Subsurface infiltration gallery underneath McGarvey Field at Red Morton Community Park. The project has the potential to supplement groundwater supplies, alleviate flooding, offset water use at the park, and improve downstream water quality in the Arroyo Ojo and downstream Redwood Creek.	Concept Stage	31.2 AFY captured	Red Morton Community Park
11/22/2022	Redwood City	Recycled Water Chlorine Booster Station Feasibility and Design	Recycled Water	City released Request for Proposal (RFP) for the feasibility and design of a Chlorine Booster Station to improve water quality in the distribution system.	Planning	-	City wide
11/22/2022	Redwood City	Redwood City Recycled Water Feasibility Study Update	Recycled Water	Update of the City's 2014 Feasibility Study which will include an updated analysis of potential new customers and estimated demands. The Study will also include a pipe extension implementation plan; focusing on the dual plumbed projects that have been approved in the downtown area.	Concept Stage	-	City wide
2/6/2023	City of San Jose	Advanced Metering Infrastructure Implementation	Conservation, Data Gap Filling/Monitoring	A systemwide upgrade of approximately 27,000 water meters from Automatic Meter Reading (AMR) system to a cellular based Advanced Metering Infrastructure (AMI) system that will positively impact water conservation efforts, help customers reduce their water use, identify leaks, and save money on water bills.	In-progress	5% demand savings per year (2021: 272 MGY)	System wide
9/6/2022	San Mateo County Office of Sustainability	Sea Level Rise Policy for County-Owned Assets	Policy Project	Developing a sea-level rise mapping tool and risk assessment checklists to support facility and capital projects managers in identifying whether a facility is in a sea-level risk area, and if so guide the development of adaptation strategies for that facility.	In-progress	-	Countywide
9/6/2022	San Mateo County Office of Sustainability	Benjamin Franklin School	Stormwater Management	Site is subject to flooding. The project would include diverting pretreated to remove trash and sediment stormwater and store it within a subsurface infiltration gallery under the school play field.	Concept Stage	355 AFY	700 Stewart Ave, Daly City, CA 94015
9/6/2022	San Mateo County Office of Sustainability	Half Moon Bay Regional Stormwater Project	Stormwater Management	Proposed project is a surface wetland that serves as a flood plain to the existing Pilacritos Creek stream to maintain flows and treat stormwater.	Concept Stage	-	Bev Cunha's Country Road, Half Moon Bay, CA 94019
9/6/2022	San Mateo County Office of Sustainability	Redwood City City Hall Project	Stormwater Management	Flows from a storm drain by City Hall will be diverted and pretreated to remove trash and sediments, and gravity fed to a subsurface storage facility to be filtered and returned cleaner to the same storm drain and be discharged to Redwood Creek and then San Francisco Bay.	Concept Stage	-	1017 Middlefield Rd, Redwood City, CA 94063
9/6/2022	San Mateo County Office of Sustainability	San Carlos Airport Regional Stormwater Project	Stormwater Management	Intercept dry-weather flow and sizeable portion of the stormwater flows from the adjacent storm drains to a restored stormwater wetland basin along Airport Way within the Phelps Slough.	Concept Stage	-	395 Shoreway Rd, San Carlos, CA 94070
9/6/2022	San Mateo County Office of Sustainability	City of San Mateo Corp Yard	Stormwater Management	Flows will be diverted from a trapezoidal channel running parallel to the Caltrain tracks and pretreated to remove trash and sediments, and the gravity fed to a subsurface storage facility located underneath the Corp Yard parking lot. Stored water will be filtered and returned cleaner to the same channel.	Concept Stage	63.9 AFY	1949 Pacific Blvd, San Mateo, CA 94403
8/18/2022	Stanford University	Bay Area Water Planning in the Face of Drought and Ecosystem Flows	Research Study	Model of Tuolumne River water supply to simulate long-term water supply performance under various climate, policy, and coping scenarios in order to address questions surrounding the implementation of the Bay-Delta Plan.	In-progress	-	Tuolumne River watershed and RWS service area

Project Information Forms Summary Table

Date Received	Agency	Project Name	Project Type	Brief Description	Project Stage	Yield (given)	Location
2/10/2023	Stanford University	Stormwater Capture and Reuse	Stormwater Management	Stanford has implemented two stormwater capture facilities on campus that intercept stormwater and runoff which is then pumped into the campus' non-potable irrigation system to be used for campus irrigation. Future expansion of stormwater capture on campus will help to reduce the demand for groundwater.	In-progress	-	Stanford University Campus
2/10/2023	Stanford University	Sustainable Water Management Plan	Stormwater Management	The project defines Sustainable Water Management, for the campus application, and uses One Water principles. It documents existing and potential water supplies for the campus including their appropriate uses based on water quality, cost, availability, environmental/social impact, and reliability. The plan outlines high level strategic goals that will help inform water supply planning decisions.	In-progress	-	Stanford University Campus



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Residential Laundry to Landscape Program - Gray Water Capture as Conservation	
Agency C/CAG	Agency Primary/Lead Name & Contact Information Kim Springer (650) 393-9359 kspringer@smcgov.org



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

C/CAG proposes, working with multiple community partners, to educate the public about residential gray water capture-to-landscape opportunities, already allowed, without residential permitting requirements based on the current CA plumbing code. There is a need to develop consistent understanding across city building departments, contractors (landscape and plumbing), and residents about what is allowable, considerations of use, how to install a “system”, and the potential for water supply savings.

This project will help build consensus and awareness of the potential impacts of drought, the allowable “laundry-to-landscape”, without permit, onsite water capture and reuse opportunities, so that residents and homeowners are resourced and empowered to act. This project will also help eliminate any existing confusion and, therefore, staff time for city building and planning departments, related to permit-less onsite residential water capture opportunities.

Task 1: Project Lead and Build Website Content

- Procure a consultant to advise and lead the project
- Build website content focused on one water, and water capture and reuse (for existing websites, C/CAG, city, BAWSCA, RCD, CBOs)
 - o gray water, stormwater, rainwater (focus on gray water, links to the other existing water capture opportunities)
 - o website pages and graphics by developer
 - o Grantor credited with funding the project

Task 2: Stakeholder Training

- Provide training for Three Audiences
 - o Water agencies, building departments, and sustainability staff - Plumbing Code education: when permitting IS required, and when not
 - o Contractors, landscapers, and handypersons (focus on small, disadvantaged businesses) – what is required for a GW2L installation and best practices
 - o Residents and homeowners - know the GW2L installation requirements and best practices for soil and human health

Task 3: Pilot Projects

- Multiple Pilot Projects to be installed at residential sites (free install by lottery)
 - o funded by the grant as case studies
 - o Certified GW to Landscape Installer
 - o exhibited on the website for retail (Customer) cost, installation time, materials, and images

Provide the location, if applicable.

Countywide but probably pilots and training focused on Equity communities.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Not yet calculated, but funding of approximately \$400K would go to pushing the program to 1000 homes.

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

N/A

California Environmental Quality Act (CEQA):

N/A

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$400,000

Provide source(s) of funding for above capital/up-front cost.

Grant or Earmark

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Four-year effort to achieve 1000 homes and content to be posted for use ongoing.

Provide source(s) of funding for above O&M/on-going cost.

Ongoing promotion to be driven by C/CAG, cities, and other partners.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

TBD

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Four years and growing over time beyond that time period.

Or, Add as an attachment



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Advancing Regional-scale Stormwater Management in San Mateo County	
Agency City/County Association of Governments	Agency Primary/Lead Name & Contact Information Reid Bogert, Senior Stormwater Program Specialist 650-863-2126 650-599-1433 rbogert@smcgov.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The City/County Association of Governments of San Mateo County (C/CAG) developed an integrated project to advance implementation of regional-scale, multi-benefit stormwater management in San Mateo County. The goal of the project was to catalyze countywide collaboration on regional-scale stormwater management to address key drivers, create a framework under which collaboration can take place and evaluate and prioritize opportunities for regional projects. The key drivers include limited resources, existing stormwater infrastructure deficiencies, water quality regulations and protection, climate resiliency, beneficial use of stormwater, and equity and community engagement. The project culminated in a Regional Collaborative Program Framework White Paper, which includes the various parts of the project as appendices (see attached deliverables list).

Provide the location, if applicable.

San Mateo County – Countywide



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

The basis for the Regional Collaborative Program (RCP) for regional-scale, multi-benefit stormwater is to provide water quality, climate resilience, water supply augmentation and community benefits. The RCP Framework White Paper includes cost savings (quantitative and qualitative) for a regional vs. a jurisdictional approach on the eight objectives associated with multi-benefit regional-scale stormwater capture projects. Individual project opportunities evaluated in the countywide assessment of regional scale stormwater capture projects were also ranked according to calculated performance metrics across the six identified drivers associated with regional multi-benefit projects. There were 75 sites evaluated across these performance metrics, with 14 proposed for site evaluation and 5 ultimately developed into detailed concept reports.

As an example, the Orange Memorial Park regional project in South San Francisco is estimated to provide the following site level benefits:

- 640 acre-feet of water diverted and cleaned annually
- 15 MG of potable water offset per year
- 240 acre-feet of groundwater recharge annually
- 10 grams of PCBs removed annually
- 30 grams of mercury removed annually



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input checked="" type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input checked="" type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input checked="" type="checkbox"/> Other: Community Benefit/Parks |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

The multi-benefit regional projects may require multiple permits including 401 Water Quality and/or 404 USAC Certs, Fish and Wildlife streambed alteration notification 1601, local permitting for grading/easements/building permits, transit access agreements, etc.

California Environmental Quality Act (CEQA):

CEQA on all potential designed/constructed projects, though the regional collaborative program itself is likely exempt

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Regional projects can range in cost, but on average may cost \$1M/acre of impervious drainage area managed. Typical projects may be between \$15-\$30M. The Orange Memorial Park Project, which has already been constructed was funded at \$15.5M for design/permitting/construction all paid for by Caltrans in a co-op agreement with the City of South San Francisco.

Provide source(s) of funding for above capital/up-front cost.

Caltrans

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Estimated \$200-500K/year initially on large scale (20 acre-foot storage) regional capture projects

Provide source(s) of funding for above O&M/on-going cost.

Currently funded by the City of South San Francisco – may be cost-shared with other municipalities under the Municipal Regional Permit.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

The Regional Collaborative Program is under development with a framework completed in Jan 2022. There are three other regional projects in various stages of preliminary and mid-level design (Belmont Twin Pines Park, Redwood City Red Morton Park, San Bruno I-280/380), and there are five new project concepts developed as part of the RCP program development. Orange Memorial Park regional project was completed in June 2022.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

SCHEDULE/TIMING INFORMATION

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

It could take a year or more to work out demand for stormwater permit compliance on the Orange Memorial Park project, mostly from a regulatory perspective operating under the MRP, but also in terms of developing cost-sharing mechanisms for municipalities and/or other entities (developers) to pay into projects. The benefits from a water management perspective on this project will be achieved in the first year of commissioning, with aspects like groundwater recharge taking longer to evaluate the benefits of stormwater infiltration. It will take decades for additional regional projects to be planned, designed, permitted and built and for longer term water quality, supply, resilience benefits to be achieved.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

C/CAG is helping advancing a Regional Collaborative Program to support its municipalities with an interim MOU-based phase for compliance purposes under the MRP. The program will also, however, have a longer term development of a market-based RCP where other stakeholders including private developers, water supply agencies, waste water districts, resiliency districts, parks districts and others may want to participate in water related project cost-sharing via regional stormwater capture projects. This is a quickly evolving area of work, which builds on prior efforts at C/CAG to identify and prioritize green stormwater infrastructure at multiple scales, including the [San Mateo County Stormwater Resource Plan](#), [Countywide Sustainable Streets Master Plan](#) and support of local [Green Infrastructure Plans](#).

ATTACHMENTS

Provide list of attachments:

See C/CAG's dedicated Regional Collaborative Program webpage at www.flowstobay.org/reigonal-collaborative where the RCP framework white paper and appendices are available for download.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Regional Purified Water Pilot Project	
Agency Dublin San Ramon Services District and potential partner agencies: Alameda County Water District; Livermore-Amador Valley Water Management Agency; Zone 7 Water Agency; City of Livermore, Union Sanitary District	Agency Primary/Lead Name & Contact Information Thomas Niesar (510) 668-6549 thomas.niesar@acwd.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>The proposed concept was developed through a series of workshops with potential partner agencies. The pilot would purify treated wastewater from LAVWMA, which originates from DSRSD and Livermore Wastewater Treatment Plants and is currently discharged to the San Francisco Bay. The pilot project would operate year-round with flows from DSRSD and Livermore, or seasonally with flows from only DSRSD due to existing irrigation recycled water demands. Utilizing treated wastewater flows would retain this resource locally and purify it through a multi-step advanced treatment process involving membrane filtration, reverse osmosis, and ultraviolet light advanced oxidation. The envisioned pilot project would deliver 0.2 million gallons per day of purified water to a nearby canal, which would supplement flows in Alameda Creek and ultimately be diverted by ACWD 15 miles downstream for groundwater recharge. The pilot footprint would also include public outreach space for visitors. Given the timeliness of DSRSD’s NPDES permit renewal in June 2022, the San Francisco Regional Water Quality Control Board recommended including adding a provision for the pilot project in the existing permit renewal application. DSRSD revised their NPDES permit renewal accordingly which provided a straightforward pathway to permit the pilot. The revised permit was approved in July 2022 and is valid for five years and allows for potential implementation of the pilot project within this timeframe.</p> <p>Year-round production of 0.2 mgd may be achieved if both DSRSD and City of Livermore effluent is used. If the City of Livermore flows are unavailable, the pilot could only operate seasonally (from about September through May) because of the lack of summertime flow available from DSRSD. In the summer months, DSRSD effluent discharged to LAVWMA is close to zero due to most of the effluent being recycled for irrigation. In the winter months, DSRSD can have over 12 mgd. The City of Livermore effluent is more consistent throughout the year and ranges from 4 to 6 mgd.</p> <p>The next step is to put together an MOA amongst potential partner agencies for public outreach. Other possible next steps include looking into potential funding opportunities and discussions with fishery agencies and other stakeholders.</p>



**Bay Area Water Supply & Conservation Agency
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Project Information Form**

PROJECT DESCRIPTION			
<p>Provide the location, if applicable.</p> <p>LAVWMA (Pleasanton, CA), Alameda Creek (Alameda County, CA), Quarry Lakes (Fremont, CA)</p>			
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>Potentially 0.2 mgd for two years of year-round pilot operation.</p>			
<p>Project type (check all that apply).</p> <table style="width:100%; border:none;"> <tr> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Surface Water <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> Groundwater (Recharge) <input type="checkbox"/> Stormwater <input type="checkbox"/> Recycled Water (potable) <input checked="" type="checkbox"/> Indirect potable reuse <input type="checkbox"/> Direct potable reuse <input type="checkbox"/> Recycled Water (non-potable) <input type="checkbox"/> Other: <small>Click or tap here to enter text.</small> </td> <td style="width:50%; vertical-align: top;"> <p>Water Demand Reduction</p> <input type="checkbox"/> Conservation <input type="checkbox"/> Land/Water Use Changes <input type="checkbox"/> Infrastructure/Capital Project <input checked="" type="checkbox"/> Data Gap Filling/Monitoring <input type="checkbox"/> Policy Project <input checked="" type="checkbox"/> Water Quality Improvement <input checked="" type="checkbox"/> Other: Reduced effluent to San Francisco Bay, ecological benefit to Alameda Creek </td> </tr> </table> <p>Source of Outside Water (if applicable):</p> <p><small>Click or tap here to enter text.</small></p>		<input type="checkbox"/> Surface Water <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> Groundwater (Recharge) <input type="checkbox"/> Stormwater <input type="checkbox"/> Recycled Water (potable) <input checked="" type="checkbox"/> Indirect potable reuse <input type="checkbox"/> Direct potable reuse <input type="checkbox"/> Recycled Water (non-potable) <input type="checkbox"/> Other: <small>Click or tap here to enter text.</small>	<p>Water Demand Reduction</p> <input type="checkbox"/> Conservation <input type="checkbox"/> Land/Water Use Changes <input type="checkbox"/> Infrastructure/Capital Project <input checked="" type="checkbox"/> Data Gap Filling/Monitoring <input type="checkbox"/> Policy Project <input checked="" type="checkbox"/> Water Quality Improvement <input checked="" type="checkbox"/> Other: Reduced effluent to San Francisco Bay, ecological benefit to Alameda Creek
<input type="checkbox"/> Surface Water <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> Groundwater (Recharge) <input type="checkbox"/> Stormwater <input type="checkbox"/> Recycled Water (potable) <input checked="" type="checkbox"/> Indirect potable reuse <input type="checkbox"/> Direct potable reuse <input type="checkbox"/> Recycled Water (non-potable) <input type="checkbox"/> Other: <small>Click or tap here to enter text.</small>	<p>Water Demand Reduction</p> <input type="checkbox"/> Conservation <input type="checkbox"/> Land/Water Use Changes <input type="checkbox"/> Infrastructure/Capital Project <input checked="" type="checkbox"/> Data Gap Filling/Monitoring <input type="checkbox"/> Policy Project <input checked="" type="checkbox"/> Water Quality Improvement <input checked="" type="checkbox"/> Other: Reduced effluent to San Francisco Bay, ecological benefit to Alameda Creek		



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit): San Francisco Bay Regional Water Quality Control Board, DSRSD's NPDES Permit Renewal

California Environmental Quality Act (CEQA):

Other: Discussions with environmental oversight agencies, including NMFS and CDFW

Click or tap here to enter text.

COST INFORMATION

Provide capital/up-front cost (\$).

TBD

Provide source(s) of funding for above capital/up-front cost.

TBD

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

TBD

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Public outreach – Spring 2023



**Bay Area Water Supply & Conservation Agency
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Project Information Form**

SCHEDULE/TIMING INFORMATION

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Two-year pilot program – potentially operating year-round at 0.2 mgd.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary:

N/A

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Del Valle Reservoir Water Supply Storage Expansion Project	
Agency California Department of Water Resources; Zone 7 Water Agency; Alameda County Water District; Valley Water; U.S. Army Corps of Engineers	Agency Primary/Lead Name & Contact Information Thomas Niesar (510) 668-6549 thomas.niesar@acwd.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>“Del Valle Reservoir Water Supply Storage Expansion Project” has been expanded. The original project envisioned modernizing the flood management rules at Del Valle Reservoir to use a greater portion of existing reservoir capacity to capture additional local supply and store additional emergency water supply while maintaining necessary flood protection. Specifically, the concept included a variety of scenarios based on reoperation of the existing flood pool using forecast informed reservoir operations (FIRO). In 2018, the South Bay Aqueduct (SBA) Contractors completed a high-level evaluation of the feasibility of modernizing flood rules, expanding emergency storage, and replacing/relocating East Bay Regional Parks District (EBRPD) facilities, while also evaluating an additional project that would modify existing EBRPD facilities to accommodate lake lowering to capture more local run-off. Although the 2018 feasibility study identified substantial benefits from the original reoperation scenarios with FIRO, the workgroup recognized that the Department of Water Resources (DWR), the US Army Corps of Engineers (USACE), and other governmental bodies would need to become heavily involved to advance these concepts, and therefore recommended the lake lowering project instead. Recently, however, DWR and USACE have taken a more active role. In October 2021, DWR requested a “minor deviation” to the water control manual at Del Valle Reservoir. In December 2021, upon approval from USACE, DWR implemented a reoperation scenario using FIRO at Del Valle Reservoir that allowed DWR to increase temporary conservation pool storage by an additional ~3,850 AF at a lake level of 707.06 ft. To avoid flooding any EBRPD facilities, however, DWR limited the additional storage in the reservoir to below 1,625 AF of additional storage or an operational level target of 704 ft. Currently, DWR is seeking another minor deviation for the 2022-2023 water year and will attempt to optimize runoff capture and storage while coordinating with EBRPD for the upcoming year and for as many future dry years as USACE will permit. Lastly, several of the BARR agencies are participating in a consortium to implement a regional X-band radar system that would support an expanded FIRO program.</p>
<p>Provide the location, if applicable.</p> <p>Del Valle Reservoir; Livermore, CA</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

At least 1.4 MGD. Current range would allow up to 3.4 MGD.

Project type (check all that apply).

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

U.S. Army Corps of Engineers; Approval of Minor Deviation Request

California Environmental Quality Act (CEQA):

N/A

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION
<p>Provide capital/up-front cost (\$).</p> <p>\$0</p>
<p>Provide source(s) of funding for above capital/up-front cost.</p> <p>N/A</p>
<p>Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).</p> <p>N/A</p>
<p>Provide source(s) of funding for above O&M/on-going cost.</p> <p>N/A</p>

SCHEDULE/TIMING INFORMATION
<p>Provide expected kickoff/start date.</p> <p>October 2021</p>
<p>Provide timeframe to accrue expected supply/demand/other quantifiable benefits.</p> <p>Benefit of ~1,625 AF of additional runoff capture and storage already accrued in 2021. Additional annual benefits are expected over the next 5 years, especially in the drought years.</p> <p>Or, <input type="checkbox"/> Add as an attachment</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary:

Additional potential exists for expanding this concept but would require permanent changes to the flood control manual at Del Valle Reservoir as well as relocation of the existing EBRPD facilities built in the defined flood pool.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Brisbane Irrigation Supply Well	
Agency City of Brisbane	Agency Primary/Lead Name & Contact Information Enter name and credentials here. Enter phone number here. Enter email address here.

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>The City overlies the Visitacion Valley Groundwater Basin (DWR Basin 2 032; Basin), which has not been developed to-date as a source of municipal groundwater supply. The City recently completed a preliminary groundwater assessment study that concluded that local groundwater resources would likely be sufficient and available to meet the landscape irrigation demands of certain public landscaped areas within the City. The objective of the Brisbane Irrigation Supply Well project is to develop a new groundwater supply source to be used for irrigation purposes and thus reduce potable demand in the City. Development of this new local groundwater supply source will reduce demands on imported RWS water and will result in reduced dependence on surface water supplies that are conveyed through sensitive freshwater habitat.</p> <p>The project will (1) enhance water supply reliability, (2) provide a new groundwater supply source, (3) improve the City's operational efficiency and flexibility, (4) reduce impacts on the ecosystem/ freshwater habitat of the Tuolumne River, and (5) provide water conservation benefits by offsetting potable use.</p>
<p>Provide the location, if applicable.</p> <p>Latitude: 37.6863 Longitude: -122.3988</p>
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>The proposed project will provide up to 21 acre-feet per year (AFY) of local groundwater supply.</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|---|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input checked="" type="checkbox"/> Other: new groundwater source | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

County of San Mateo permitting: The City will apply for well drilling and encroachment permits from the County

California Environmental Quality Act (CEQA):

CEQA compliance: The City will prepare and adopt a Categorical Exemption for the project

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$1,730,000

Provide source(s) of funding for above capital/up-front cost.

Integrated Regional Water Management Grant programs

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Construction/Implementation expected start date: 1 October 2023

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name NEW WELL IN THE BEAR GULCH DISTRICT	
Agency California Water Service	Agency Primary/Lead Name & Contact Information Ken Jenkins +1 (310) 420-6789 kjenkins@calwater.com Scott Wagner +1 (408) 367-8278 swagner@calwater.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>This project would construct a new well in the Bear Gulch District to pump water from the San Mateo Plain Subbasin of the Santa Clara Valley Basin. This basin is not adjudicated, and the well capacity is assumed to be 120 gpm and provide 200 AFY of supply. This option would provide direct benefit to the Bear Gulch District and indirect benefit to the Mid-Peninsula and South San Francisco Districts, especially during dry year and multi-dry year scenarios.</p>
<p>Provide the location, if applicable.</p> <p>Cal Water's Bear Gulch District</p>



**Bay Area Water Supply & Conservation Agency
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Project Information Form**

PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Estimated to provide 120 gpm or 0.17 MGD

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
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Project Information Form**

PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

- SWRCB DDW - Design review, Water supply permit amendment
- RWQCB - General Construction Permit/SWPPP, National Pollutant Discharge Elimination System (NPDES) permit, 401 Water Quality Certification issuance
- San Mateo County Environmental Health Services Division - Subsurface Drilling Permit
- City - Encroachment permits, Construction permit

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

CPUC Approval

COST INFORMATION

Provide capital/up-front cost (\$).

Total capital cost of \$7.1 million

Provide source(s) of funding for above capital/up-front cost.

This a local project without partners, the full cost of the project would be paid by Cal Water.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Total O&M costs is estimated as \$121,000/yr

Provide source(s) of funding for above O&M/on-going cost.

Full cost of the O&M would be paid by Cal Water

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Expected to start in 2023.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

4 years

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name DEVELOPMENT OFFSET PROGRAM	
Agency California Water Service	Agency Primary/Lead Name & Contact Information Ken Jenkins +1 (310) 420-6789 kjenkins@calwater.com Scott Wagner +1 (408) 367-8278 swagner@calwater.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>Development Offset Program details:</p> <p>To account for projected delivery shortfalls during dry years and the need for new water supplies, the Developer Offset Program has been established to ensure continued water supply reliability.</p> <p>The Development Offset Program will implement a new, non-refundable special facilities fee of \$15,400 per acre-foot of net demand increase, which is the difference between projected annual potable water use for the development and the average annual, existing potable water use on the property over the previous five years.</p> <p>The fee is based on a combination of five alternative water supply projects and expanded conservation programs.</p> <p>The fee only applies to developments with a net demand increase of 50 acre-feet per year or more.</p> <p>Funds collected from the Development Offset Program will be used for water supply projects and expanded conservation programs designed to offset the net demand increase of the proposed development.</p>
<p>Provide the location, if applicable.</p> <p>Cal Water’s Bay Area Districts (BG, MPS, SSF)</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

The Developer Offset Program will fund water supply investments by accelerating water supply projects and expanded conservation programs, thus improving the overall sustainability and resiliency of our systems.

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input checked="" type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input checked="" type="checkbox"/> Other: Provide funding to accelerate water supply projects and conservation programs |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

CPUC approval (already received)



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION
Provide capital/up-front cost (\$). n/a
Provide source(s) of funding for above capital/up-front cost. n/a
Provide Operations and Maintenance (O&M)/on-going cost (\$ per year). n/a
Provide source(s) of funding for above O&M/on-going cost. n/a

SCHEDULE/TIMING INFORMATION
Provide expected kickoff/start date. Currently enacted
Provide timeframe to accrue expected supply/demand/other quantifiable benefits. Ongoing Or, <input type="checkbox"/> Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name SAN MATEO BRACKISH DESAL AQUIFER TESTING	
Agency California Water Service	Agency Primary/Lead Name & Contact Information Ken Jenkins +1 (310) 420-6789 kjenkins@calwater.com Scott Wagner +1 (408) 367-8278 swagner@calwater.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>This study will determine project feasibility, intake selection, selection and acquisition of land, analysis of brine disposal options, and determination of the appropriate volume to be treated. In addition, given that this is a regional project, partnership agreements will be required. Public outreach will also be needed given that the project is a brackish groundwater desalination project and will require public support for successful implementation. While Horizontal Directional Drilling (HDD) well intakes are not as contentious as open ocean intakes, the project will still require significant regulatory coordination and outreach to ensure successful implementation.</p>
<p>Provide the location, if applicable.</p> <p>San Mateo</p>

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

TBD

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input checked="" type="checkbox"/> Other: Brackish Desalinization |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

- SWRCB DDW - Watershed Sanitary Survey, Design Review
- USFWS, National Marine Fisheries Service, CDFW - Offshore geophysical study and intake feasibility study
- Bay Conservation and Development Commission - San Francisco Bay Development Permitting
- RWQCB, USEPA - Waste discharge permitting, General Construction Permit/SWPPP
- Cities and counties - Encroachment permits, Construction permits

California Environmental Quality Act (CEQA):

yes

Other:

CPUC Approval

COST INFORMATION

Provide capital/up-front cost (\$).

Total Project: \$193.1M (2021\$) - Cal Water: TBD

Provide source(s) of funding for above capital/up-front cost.

Capital costs assumed as the average of the maximum and minimum cost estimates for 6.5 mgd treated water capacity in Table B-10 of Appendix B of the BAWSCA Long-Term Reliable Water Supply Strategy Phase II Final Report (BAWSCA, 2015). Unit costs, annualized costs and NPV are not calculated as the yield to Cal Water is unknown at this time.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Total Project: \$3.9M/yr (2021\$)

Cal Water: TBD



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide source(s) of funding for above O&M/on-going cost.

O&M costs assumed as the average of the maximum and minimum cost estimates for 6.5 mgd treated water capacity in Table B-10 of Appendix B of the BAWSCA Long-Term Reliable Water Supply Strategy Phase II Final Report (BAWSCA, 2015). Unit costs, annualized costs and NPV are not calculated as the yield to Cal Water is unknown at this time.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Ongoing

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Minimum of 8 years

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Water Transfer Study	
Agency California Water Service	Agency Primary/Lead Name & Contact Information Ken Jenkins +1 (310) 420-6789 kjenkins@calwater.com Scott Wagner +1 (408) 367-8278 swagner@calwater.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>The water transfer option would allow Cal Water to purchase imported water supplies for use during droughts and other dry years. The water could be purchased from wholesalers or from SWP or CVP water rights holders outside of the area. During supply shortages, the supply would be wheeled through State/Federal and regional water conveyance systems to Cal Water districts.</p> <p>The purchased water could either be stored in a groundwater basin or used immediately. Potential banking areas could be north of the Delta or South of the Delta. Storage north of the Delta would allow for water to be extracted and directly conveyed to Cal Water. Storage south of the Delta, such as in the Semitropic Water Bank, would mean that an exchange of SWP or CVP water would be needed to obtain the supplies as water cannot be conveyed from south to north.</p> <p>This option could provide benefits to any of Cal Water’s Bay Area Region districts, depending on the regional system used to wheel the water to each district.</p>
<p>Provide the location, if applicable.</p> <p>Cal Water’s Bay Area Region Districts</p>



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

unknown

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input checked="" type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

SWRCB Division of Water Rights - Water rights transfer

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

CPUC Approval



COST INFORMATION

Provide capital/up-front cost (\$).

Water transfer projects are not assumed to have an upfront capital cost as the supplies will be wheeled and treated through existing facilities.

Provide source(s) of funding for above capital/up-front cost.

None

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

O&M costs include the cost of water (\$300/AF for purchase from a wholesaler or \$1,000/AF for purchase on the open market), conveyance costs (\$700/AF), treatment costs (\$300/AF), and if applicable, storage withdrawal costs (\$100/AF).

Provide source(s) of funding for above O&M/on-going cost.

Cal Water

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Project/study expected to start within the next 5 years

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Not known

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Denniston Well Field – Well Replacements	
Agency Coastside County Water District	Agency Primary/Lead Name & Contact Information Mary Rogren 650-276-0889 mrogren@coastsidewater.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The existing Denniston Wellfield consists of two (2) active and seven (7) inactive shallow groundwater wells (D1 and D9 are active, and D2 through D8 are inactive). The two active wells produce groundwater that is conveyed through the Denniston Conveyance pipeline, where it combines with surface water diverted from Denniston Creek and is treated at the Denniston Water Treatment Plant (WTP). The two active wells currently produce approximately 60 gallons per minute (gpm). Production is limited to periods when water is available to divert from Denniston Creek, because the Denniston WTP requires a minimum flow of at least 300 gpm to operate. Since 2014, after recent upgrades to the Denniston WTP, the Denniston Wellfield has produced on average less than 7 million gallons per year (MGY). All of the wells are approximately 45 years old and have reached the end of their useful life. Seven of the nine wells are currently inactive due to issues such as collapsed or leaning casings or water quality issues.

The District proposes to replace the two (2) active wells and four (4) of the inactive well for a total of six (6) new wells. The project is intended to significantly increase the production from the Denniston. Increased capacity from the Denniston Wellfield would allow the District to operate Denniston WTP for a longer period throughout the year by allowing more water from Denniston Creek to be stored in Denniston Reservoir and extending the period when the minimum 300 gallons per minute is available to operate the WTP. (Note that the Denniston WTP can only be used when the farmer, who has riparian and senior rights on Denniston Creek is not using the water. Coastside CWD has junior rights to the farmer.)

Provide the location, if applicable.

San Mateo County Coastside

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Potential 20-40+ MGD seasonally; Provides water supply reliability & improves operational efficiency and flexibility

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input checked="" type="checkbox"/> Other: Improves water supply reliability | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

CEQA, San Mateo County Permitting (including well drilling permits;) San Mateo County Environmental Health; State Water Resource Control Board

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$2.5M

Provide source(s) of funding for above capital/up-front cost.

Grant funding or self funding.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

\$100K/year

Provide source(s) of funding for above O&M/on-going cost.

Self-funded

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

1/1/2023

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

2023-2026

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name San Vicente Creek Water Supply Project	
Agency Coastside County Water District	Agency Primary/Lead Name & Contact Information Mary Rogren 650-276-0889 mrogren@coastsidewater.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

In the late 1960's, Coastside Coasts County Water District was issued secondary water rights permits) for surface water diversions on Denniston and San Vicente Creeks located on the San Mateo County coast. Coastside CWD has secondary rights to the brussel sprout farmer on both of these creeks. The most recent extensions for the water rights permits place a deadline of 12/31/2026 for Coastside CWD to perfect water rights on San Vicente and Denniston Creeks.. Coastside actively uses Denniston Creek when there is available water and when the farmer is not using the water source. Water is generally available from December after the first rain through May in normal years. Coastside CWD has a treatment facility located at Denniston Creek.

Coastside CWD has only minimally taken water from San Vicente Creek (in the early 1980's), however the farmer uses the Coastside CWD's diversion structure and the pipe owned by Coastside CWD located easements in the National Park Services land. Again, Coastside has secondary rights to the farmer, and is only able to take water from November 1 to March 31 from this diversion.

In order to perfect its water rights on San Vicente, Coastside CWD has contracted for an engineering design of a pipeline that extends from the farmer's reservoirs to Coastside's raw water pump station. As with the Denniston Creek diversion, Coastside CWD has hurdles in acquiring easements and dealing with various regulatory agencies. Ideally, the goal would be to be to construct the pipeline in2024.

Provide the location, if applicable.

San Mateo County Coastside

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

A San Vicente diversion could bring additional water resiliency to both the farmer and Coastside CWD (.3-.5 MGD).

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA): EIR for San Vicente/Denniston was completed in 2015.

Click or tap here to enter text.

Other:

CDFW; GGNRA (National Park Service); POST – Peninsula Open Space Trust; Division of Water Rights – State Water Resources Control Board; Division of Drinking Water



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$3-4 + FY2023-FY2025 (Investment in Denniston/San Vicente since early 2000's = \$20M)

Provide source(s) of funding for above capital/up-front cost.

Self funded

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

\$500K/year

Provide source(s) of funding for above O&M/on-going cost.

Self-funded

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Ongoing – In process

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

FY2026

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Water Reuse (Recycled Water) Feasibility Study	
Agency Coastside County Water District	Agency Primary/Lead Name & Contact Information Mary Rogren 650-276-0889 mrogren@coastsidewater.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

As the Water Retailer for the Coastside, Coastside CWD plans to engage in a feasibility study in early 2023 to consider options for implementing water reuse on the Coastside and the possibilities for beneficial uses.

Starting in the late 1990's, Coastside CWD along with other agencies and interested parties on the Coast (including the Sewer Authority Mid Coast) conducted various studies to consider beneficial uses of recycled water. Given the changes in technologies in recent years, Coastside CWD would like to revisit ways in which water reuse could be implemented in an updated feasibility study.

Provide the location, if applicable.

San Mateo County Coastside

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Supply augmentation (for resiliency) - .5+ MGD



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input checked="" type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

SWRCB; DWR; State of California; County of San Mateo; City of Half Moon Bay; Coastal Commission



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$150K+ for initial feasibility study

Provide source(s) of funding for above capital/up-front cost.

Grant and self-funded

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

TBD

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

January 2023

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Recycled Water Expansion Project Update	
Agency City of Daly City	Agency Primary/Lead Name & Contact Information Gregory Krauss Ward Donnelly gkrauss@dalycity.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Recycled water project in collaboration with SFPUC – regional (groundwater basin) benefit (do not see the water within Daly City’s system)

3 MGD Membrane Filtration
Completed Membrane filtration Pilot Program
Completed CEQA
Defined Pipe Alignment
Project @ 30% design.

Provide the location, if applicable.

City of Daly City WWTP -153 Lake Merced Blvd – Daly City

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

TBD-



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input checked="" type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input checked="" type="checkbox"/> Other: Irrigation | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Completed

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Click or tap here to enter text.

Provide source(s) of funding for above capital/up-front cost.

TBD

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

TBD

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

TBD

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Pad D Groundwater Well	
Agency City of East Palo Alto	Agency Primary/Lead Name & Contact Information Humza Javed 650 853 3130 hjaved@cityofepa.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

This project is for the construction of a 500 gallon per minute (GPM) groundwater well and associated iron-manganese treatment system to supplement the City's existing water supply. This project will create an emergency source of water supply for the City by drawing groundwater from the Santa Clara Valley Groundwater Basin and San Mateo Sub-Basin. Treatment of the groundwater would be necessary to enable its use for domestic purposes.

Implementation of this project would provide a secondary source of water in the event that the City's existing water supply is unable to meet demand during drought events or emergency conditions. The City's property at East Bayshore and Clarke Avenue, known as Pad D, is the designated site for this well.

The project is fully designed and CEQA is complete. The City is seeking construction funding for the project.

Provide the location, if applicable.

East Bayshore Avenue at Clarke Avenue

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

500gpm or 0.72mgd



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

State Water Resources Control Board

California Environmental Quality Act (CEQA):

EIR certified

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$3,100,000

Provide source(s) of funding for above capital/up-front cost.

Click or tap here to enter text.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

50,000

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Pending construction funding

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name New Recycled Water System	
Agency City of East Palo Alto	Agency Primary/Lead Name & Contact Information Humza Javed 650 853 3130 hjaved@cityofepa.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

This project will create recycled water system infrastructure to serve the City of East Palo Alto. The Palo Alto Regional Water Quality Control Plant (RWQCP) has the capability to produce approximately 4.5 MGD of recycled water. The RWQCP only produces 14% of its current capacity and it plans to expand the system to meet recycled water demands in the future.

The City of East Palo Alto has a list of 11 users that could benefit from recycled water in the amount of 22MG per year.

Provide the location, if applicable.

City wide

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

22MG per year or 0.06MGD



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input checked="" type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

California Environmental Quality Act (CEQA):

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Provide source(s) of funding for above capital/up-front cost.

Click or tap here to enter text.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Pending construction funding

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Recycled Water Expansion	
Agency Foster City	Agency Primary/Lead Name & Contact Information Enter name and credentials here. Enter phone number here. Enter email address here.

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Projects identified below are, as of now, are in the conceptual stage:

- Wastewater treatment plant expansion to produce reclaimed water and have the capacity to produce Title 22 Recycled Water.
- Prospective work to bring recycled water to Gilead Sciences' corporate campus.
- Acquiring recycled water from Redwood City
- Potential discussion of recycled water in future Capital Improvement Plan

Provide the location, if applicable.

Click or tap here to enter text.

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Provide source(s) of funding for above capital/up-front cost.

Click or tap here to enter text.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Wastewater treatment plant expansion expected to finish mid-end 2024.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Recycled Water Master Plan	
Agency City of Hayward	Agency Primary/Lead Name & Contact Information Cheryl Muñoz, Water Resources Manager Cheryl.munoz@hayward-ca.gov 510-583-4701

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The City began delivery of recycled water in March 2022. The estimated average deliveries are expected to be about 260,000 gallons per day to 31 customers. Hayward constructed 8.5 miles of pipeline, a 0.5 MGD membrane treatment facility, and a 500,000 gallon storage tank. The City is planning to prepare a Recycled Water Master Plan to evaluate the feasibility of expanding the system. Key components of this update will include a market survey and assessment determine future customers, conceptual expansion of the distribution and storage systems, and treatment options.

At this point, we have no information regarding specific location, costs estimates, funding sources or schedule. These factors will be considered as part of the master plan and future decision making.

Groundwater

- Hayward GSA is actively coordinating with the EBMUD GSA on implementation of the GSP for the East Bay Plain Subbasin.
- Emergency supply wells are **planned** for use as extraction-only wells to provide supplemental water supply to Hayward in the event of a short-term emergency, such as an earthquake that interrupts surface water supplies. No date yet.

Provide the location, if applicable.

The evaluation will focus on expansion of the existing distribution system as shown on this linked document, however, no specific information is available about location:

<https://www.hayward-ca.gov/your-government/departments/utilities-environmental-services/recycled-water>



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Estimated quantities will be determined as part of the master plan.

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit): To be determined

State Water Resources Control Board: To be determined

California Environmental Quality Act (CEQA): To be determined

Environmental Impact Report: To be determined

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

To be determined

Provide source(s) of funding for above capital/up-front cost.

To be determined

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

To be determined

Provide source(s) of funding for above O&M/on-going cost.

To be determined

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

To be determined

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

To be determined

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Bayfront Recycled Water Project	
Agency City of Menlo Park (WBSD is purveyor of the project)	Agency Primary/Lead Name & Contact Information Fariborz Heydari 650-330-6773 faheydari@menlopark.org

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>West Bay Sanitary District (WBSD) to bring recycled water to Menlo Park Few years out to providing recycled water to community</p> <p>Other potential projects (if explored, should be included in a separate Project Info Form): Potential emergency groundwater supply Look into on-site reuse</p>
<p>Provide the location, if applicable.</p> <p>Constructing new facility in Bayfront area</p>
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>220 AFY of recycled water to commercial customers in Bayfront</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

West Bay is working with the Army Corp to get permit for constructing levees around the recycled water facilities to protect it from FEMA 100-yr flood.

California Environmental Quality Act (CEQA):

West Bay completed CEQA and EIR in 2021.

Other:

Click or tap here to enter text.

COST INFORMATION

Provide capital/up-front cost (\$).

4 alternative cost comparisons (\$4,900 - \$7,500 per AF) Capital costs: between \$14,400,000 and \$32,955,000



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide source(s) of funding for above capital/up-front cost.

Typically, recycled water projects are financed through a combination of grants, partnerships relative to project benefits, and at times, the CWSRF.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Between \$1,069,000 and \$2,217,000

Provide source(s) of funding for above O&M/on-going cost.

Funding opportunities possible for the project:
 Integrated Regional Water Management (IRWM) Program funding
 US Bureau of Reclamation (USBR) WaterSMART: Title XVI Water Reclamation and Reuse Program
 SWRCB CWSRF/ Water Recycling Funding Program (WRFP)
 California Infrastructure and Economic Development Bank (I-Bank) Infrastructure State Revolving Fund (ISRF) Program

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Fall 2025

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

2027

Or, Add as an attachment



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

May be another report published later

ATTACHMENTS

Provide list of attachments:

Bayfront Recycled Water Facilities Plan Final Report



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Chlorine Booster Stations and Mixers	
Agency Mid-Peninsula Water District	Agency Primary/Lead Name & Contact Information Kat Wuelfing 650-591-8941 kwuelfing@midpeninsulawater.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Currently, MPWD’s ability to fully utilize our storage tanks is limited due to water quality issues that result from nitrification from water being stored for too long. In order to reduce the risk of nitrification (which results in a need to dump otherwise usable water), the District manages the operation of our tanks to ensure enough flow through the system, such that our tanks are rarely full. The lower the flow through the system (that is, the lower the customer demand), the more chlorine residuals from SFPUC treatment drop and less the District is able to utilize the storage capacity in the tanks. In situations of severe supply shortfalls (such as under the Bay Delta Plan Amendment implementation scenario), the District’s ability to maintain water quality in the system will be further reduced. Even under normal conditions with no supply shortfalls, this underutilization of storage capacity results in reduced reserves available for fireflow or other emergency situations.

By installing chlorine booster stations and mixers in the system, the District would be able to keep more water in the storage tanks without running the risk of needing to dump potentially millions of gallons of water, resulting in (1) reduced water loss, (2) increased water quality, (3) increased fireflow storage, and (4) increased drought and emergency resilience.

MPWD understands that many other BAWSCA agencies face very similar operational constraint issues and thus a regionally funded chlorine booster station installation program could result in great benefits to the RWS for drought and emergency resilience.

Provide the location, if applicable.

MPWD’s Dekoven tank site

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

I don’t have this available right now.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

I don't have this information right now.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Roughly \$1 million

Provide source(s) of funding for above capital/up-front cost.

Not yet identified

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Not identified.

Provide source(s) of funding for above O&M/on-going cost.

Would need to be worked into MPWD operating budget

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

unknown

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text. Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Potable Groundwater Supply Development	
Agency Mid-Peninsula Water District	Agency Primary/Lead Name & Contact Information Kat Wuelfing 650-591-8941 kwuelfing@midpeninsulawater.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The proposed MPWD Potable Groundwater Supply Development project consists of completing a new groundwater well for dry year supply purposes with an anticipated capacity at 200 gallons per minute (gpm). A preliminary hydrogeologic analysis has been conducted (Preliminary Assessment of Groundwater Production Potential, EKI, 2021) and a potential site for this well has been identified near the Belmont Sports Complex on the east side of Highway 101, on public land owned by the City of Belmont. The project will include conducting the necessary engineering design, permitting, environmental documentation, construction, startup and testing. Project construction includes first completing a test well, from which the production well will be designed and constructed. The new well will be constructed with necessary downhole and above grade equipment, site improvements, and treatment facilities. When completed, the project will provide approximately 161 acre-feet per year (AFY) of local groundwater supply. Development of this new local groundwater supply source will reduce demands on imported RWS water and will result in reduced dependence on surface water supplies that are conveyed through sensitive freshwater habitat.

Provide the location, if applicable.

Northern portion of the District near the Belmont Sports Complex

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Dry year supply augmentation, estimated at 0.14 MGD (or 161 AFY)



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|---|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input checked="" type="checkbox"/> Other: Groundwater development (not a recharge project) | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

SWRCB – amendment to MPWD domestic water supply permit; San Mateo County well construction permit

California Environmental Quality Act (CEQA):

Required, not yet done

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION
Provide capital/up-front cost (\$). \$4mill
Provide source(s) of funding for above capital/up-front cost. Not yet identified
Provide Operations and Maintenance (O&M)/on-going cost (\$ per year). \$17,000
Provide source(s) of funding for above O&M/on-going cost. Would need to be worked into MPWD operating budget

SCHEDULE/TIMING INFORMATION
Provide expected kickoff/start date. unknown
Provide timeframe to accrue expected supply/demand/other quantifiable benefits. Approx. 3 years from start Or, <input type="checkbox"/> Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name NO-DES Water Main Flushing Truck or Trailer	
Agency Mid-Peninsula Water District	Agency Primary/Lead Name & Contact Information Kat Wuelfing 650-591-8941 kwuelfing@midpeninsulawater.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Flushing is a necessary part of distribution system maintenance. Traditional flushing methods result in a significant amount of non-revenue water, that can be considered water loss as it is not used directly by a customer (i.e., is typically flushed right into a storm drain). The District does not flush its system during drought conditions in order to reduce water demand. Even when there is no supply shortfall, the District is limited in its ability to perform this necessary maintenance due to public perception of the District “wasting” water. The District is therefore interested in a NO-DES flushing system (either trailer or truck; <https://www.no-des.com/>), which would allow the District to perform system flushing without discharging water to the storm drain. Given the size of the District and that these trucks are costly to purchase and maintain, we would be potentially interested in pursuing some sort of sharing model with other agencies that would see similar benefits from using such a truck.

Provide the location, if applicable.

MPWD system-wide

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

I don't have this available right now.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

N/a

California Environmental Quality Act (CEQA):

N/a

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Not available

Provide source(s) of funding for above capital/up-front cost.

Not available

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Not available

Provide source(s) of funding for above O&M/on-going cost.

Would need to be worked into MPWD operating budget

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

unknown

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text. Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name City of Millbrae Recycled Water Feasibility Study	
Agency City of Millbrae	Agency Primary/Lead Name & Contact Information Craig Centis, Deputy Director of Public Works 650-259-2376 ccentis@ci.millbrae.ca.us

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The City of Millbrae (City) is in the early planning phase of a new recycled water program. Currently, the City is preparing a Recycled Water Feasibility Study (Study) to evaluate implementation of a City-wide recycled water program. The City would produce and deliver recycled water for the irrigation of existing landscape sites and future development. The Study is partially funded by a planning grant from the State Water Resources Control Board’s Water Recycling Funding Program. The Study is planned to be completed by Spring of 2023.

A recycled water market assessment has been completed as part of this study. The assessment estimated potential recycled water demands of City parks and schools, as well as a privately-owned golf course. Potential recycled water demands of planned new development within the City was also included. A total City-wide demand of 62 million gallons was identified. As part of the market assessment, the potential for regional partnership with neighboring communities was also explored. The City has conducted outreach to potential partners of the City of Burlingame, City of San Bruno, Cal Water (purveyor of South San Francisco), the San Francisco Public Utilities Commission, and San Francisco International Airport. The City has also reached out to Caltrans to be a potential recycled water customer of the City.

The Study includes preliminary planning, sizing, and development of design criteria for new recycled water treatment facilities to be located at the City’s Water Pollution Control Plant and for a recycled water distribution system to deliver water to recycled water customers. Construction will be phased and will allow for future expansion of the treatment and distribution systems. Alternative treatment options and distribution system alignments along with estimated project costs will be developed. The developed alternatives will be further analyzed to select a recommended project.

Provide the location, if applicable.

City of Millbrae



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

This project will provide a benefit of 0.17 MGD new recycled water supply and an equivalent potable water demand offset. This benefit could increase if neighboring communities move forward with developing a recycled water program within their service area and partner with Millbrae to implement a regional program.

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.



PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Recycled Water Permit, State Water Resources Control Board
NPDES permit for the production of recycled water, San Francisco Bay Regional Water Quality Control Board

California Environmental Quality Act (CEQA):

CEQA documents will be prepared. CEQA documentation will include federal cross cutters to comply with federal funding requirements.

Other:

Construction related permits to be determined during design.

COST INFORMATION

Provide capital/up-front cost (\$).

Estimated project costs are being developed as part of the City’s Feasibility Study. Initial conceptual level capital costs for treatment and distribution are estimated to be around \$50 million. Distribution alignments, treatment options, and phasing alternatives are being refined and may result in revised estimated costs.

Provide source(s) of funding for above capital/up-front cost.

Grants, loans, and local funding. The City has secured a planning grant for preparation of the Recycled Water Feasibility Study. Additionally, the City was selected to receive an EPA Community Grant that will be used towards the design phase of the project.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Currently being developed. Expected to be available in Spring 2023 with the final feasibility study.

Provide source(s) of funding for above O&M/on-going cost.

Connection fees, rates, and local funding.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Study completion date: Spring 2023
Start of construction: 2027
End of construction: 2028
Recycled water deliveries: Spring 2029

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Approximately 7 to 10 years. Project implementation could be accelerated if additional funding is obtained.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



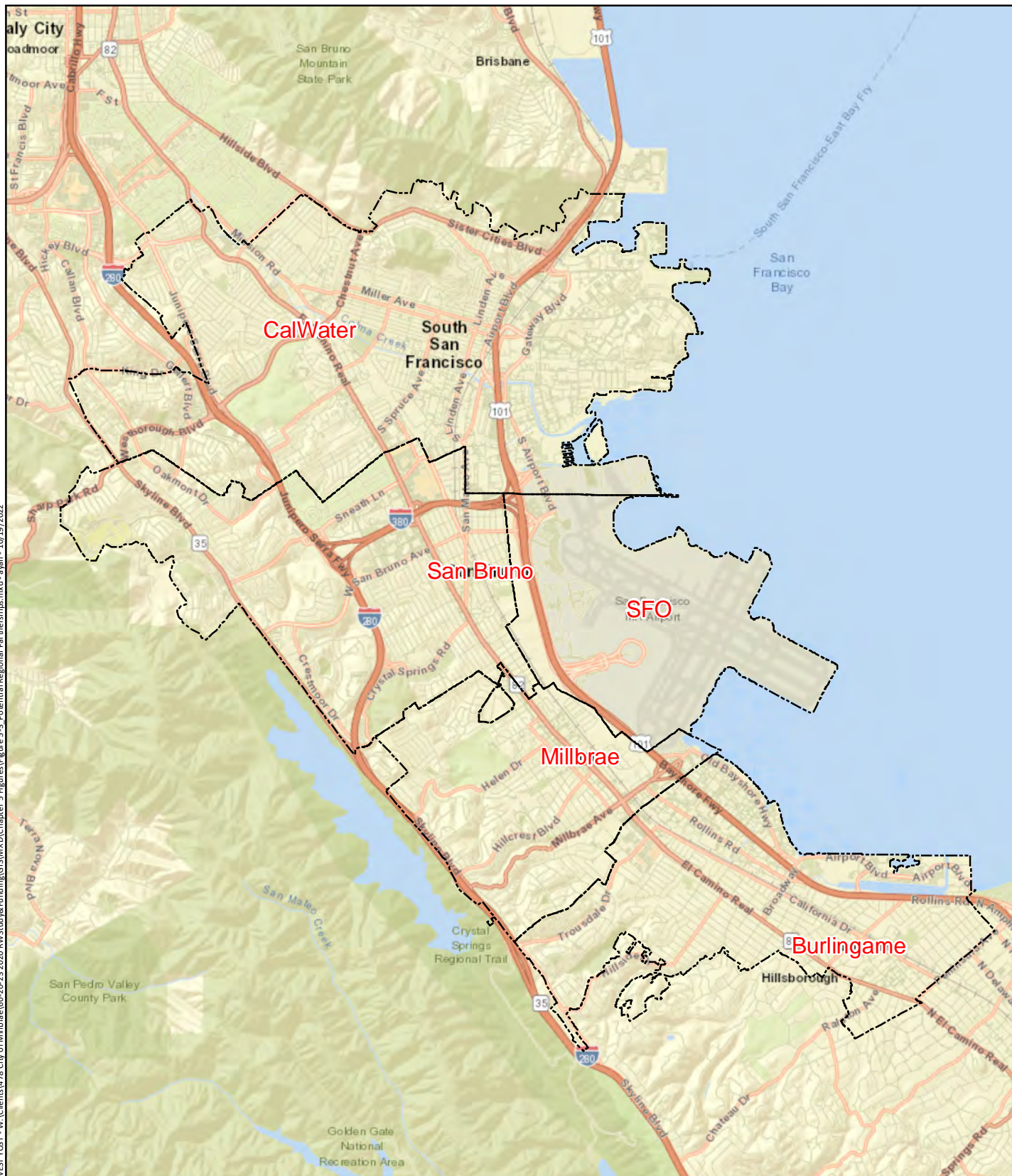
ATTACHMENTS

Provide list of attachments:

Figure 5-1 shows preliminary locations of potential recycled water customers in the City.

Figure 5-3 identifies neighboring communities that were contacted to discuss potential partnership of a regional recycled water program.

WEST YOST - W:\Clients\1478 City of Millbrae\60-20-23 2020 RW Study\Funding\GIS\MXD\Chapter 5 Figures\Figure 5-3 Potential Regional Partnerships.mxd - ayen - 10/19/2022



City Boundaries

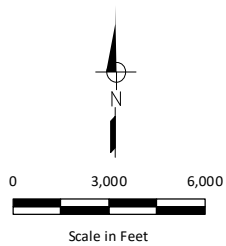
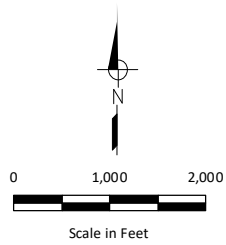
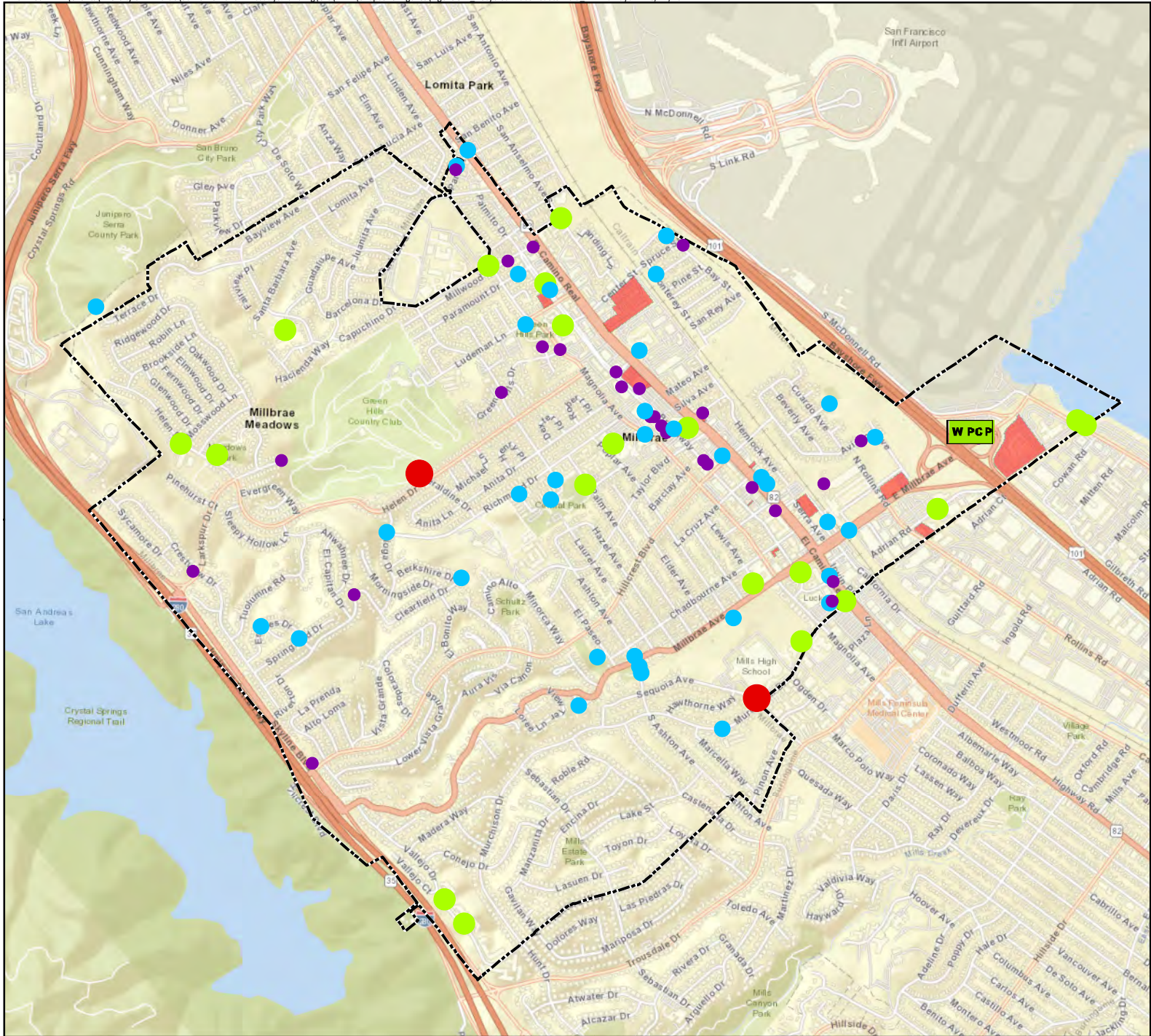


Figure 5-3

Potential Regional Partnerships

City of Millbrae Recycled Water Feasibility Study

WEST YOST - W:\Clients\478 City of Millbrae\60-20-23 2020 RW Study & Funding\GIS\MXD\Chapter 5 Figures\Figure 5-1 Recycled Water Customers AY.mxd - ayan - 10/14/2022



- WPCP Millbrae WPCP
- City Boundary
- Active Development Areas
- Potential RW Customer Demand**
- Less than 100 gpd
- 100 gpd to 1,000 gpd
- 1,000 gpd to 10,000 gpd
- Greater than 10,000 gpd

Note:
 1. gpd = gallons per day
 2. Potential RW customer demand based on total billed irrigation consumption in the 2020 calendar year.



Figure 5-1

Potential Recycled Water Customers within the City



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Curtis Well	
Agency City of Milpitas	Agency Primary/Lead Name & Contact Information Harris Siddiqui 408-205-8980 hsiddiqui@milpitas.gov

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>This project will install submersible pump(s), piping and treatment components to construct Curtis Well. Groundwater wells expand the City’s water supply portfolio, reduces reliance on wholesale water purchases and offsets some of the emergency storage requirement.</p> <p>The 2020 Water Master Plan evaluated the City’s water system for supply, storage, and pumping capacities, as well as its ability to meet recommended performance and operational criteria under various demand and emergency scenarios. The evaluation of the future water system for storage capacity reveals a 4.11 MG storage surplus in Zones SF1/SF2 and a deficit of 5.97 MG in Zones VW1/VW2. Since stored SFPUC water at Gibraltar can be delivered to Valley Water customers, the 4.11 MG surplus in Zones SF1/SF2 can reduce the Valley Water service area shortfall, but 1.86 MG storage deficit remains. Construction of a new 2 MG storage area is recommended to address the remaining deficit and a new pump station to deliver water stored in this new reservoir. In addition, groundwater wells will help address the storage capacity deficiency by providing an emergency groundwater storage credit.</p> <p>The City has one existing fully developed well, Pinewood Well and two in development: Curtis Well and McCandless Well. The Pinewood well is permitted as an emergency well. The Curtis Well was drilled in 2003, but the well was not equipped with above-grade infrastructure required for a functioning well, and the facility was never completed. As a result, bringing the Curtis Well online requires installing a submersible pump, piping, and treatment components, as well as conducting testing and permitting. Design for the Curtis Well improvements began in 2020. Construction of the McCandless Well began in 2020 and is anticipated to be completed by 2022. At buildout (estimated by the year 2040), it is assumed that Curtis Well and McCandless Well would be available in emergencies.</p> <p>Groundwater can also supplement reduced supplies from the SFPUC or Valley Water during prolonged droughts. The City expects to rely on groundwater to augment supplies and meet demands during future dry years. The Pinewood, Curtis, and McCandless wells, in addition to other future wells described in the City’s 2020 UWMP that are triggered by future development in the City’s service area, are critical components of the City’s future water supply portfolio.</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide the location, if applicable.

Curtis Well - 330 East Curtis Avenue

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

For Supply augmentation: Curtis Well 400 gpm (0.58 mgd) to serve Zone VW2

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

City Building permit, City Fire permit, State permit to operate the well

California Environmental Quality Act (CEQA):

N/A. Wells are identified as Exempted from CEQA per (amended) TASP EIR.

Other:

Click or tap here to enter text.

COST INFORMATION

Provide capital/up-front cost (\$).

\$6M - \$7M

Provide source(s) of funding for above capital/up-front cost.

TASP Fees

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

N/A

Provide source(s) of funding for above O&M/on-going cost.

Water M&O Fund

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Ongoing



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

SCHEDULE/TIMING INFORMATION

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

The 400 gpm (0.58 mgd) well capacity will help address some of the storage capacity deficiency identified at buildout by providing emergency groundwater storage credit.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Water Master Plan

2020 Water Shortage Contingency Plan

2020 Urban Water Management Plan



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name McCandless Well	
Agency City of Milpitas	Agency Primary/Lead Name & Contact Information Harris Siddiqui 408-205-8980 hsiddiqui@milpitas.gov

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>This project provides for design, construction, and installation of the existing and new Wells as recommended by the Water Supply Augmentation Feasibility Report, March 2015. Project includes the design and construction of a new Well at McCandless Park site to serve the Midtown and Metro Specific Plan (TASP) areas; installation of a treatment facilities at Curtis Well; and improvements to the facilities at Pinewood Well.</p> <p>The 2020 Water Master Plan evaluated the City’s water system for supply, storage, and pumping capacities, as well as its ability to meet recommended performance and operational criteria under various demand and emergency scenarios. The evaluation of the future water system for storage capacity reveals a 4.11 MG storage surplus in Zones SF1/SF2 and a deficit of 5.97 MG in Zones VW1/VW2. Since stored SFPUC water at Gibraltar can be delivered to Valley Water customers, the 4.11 MG surplus in Zones SF1/SF2 can reduce the Valley Water service area shortfall, but 1.86 MG storage deficit remains. Construction of a new 2 MG storage area is recommended to address the remaining deficit and a new pump station to deliver water stored in this new reservoir. In addition, groundwater wells will help address the storage capacity deficiency by providing an emergency groundwater storage credit.</p> <p>The City has one existing fully developed well, Pinewood Well and two in development: Curtis Well and McCandless Well. The Pinewood well is permitted as an emergency well. The Curtis Well was drilled in 2003, but the well was not equipped with above-grade infrastructure required for a functioning well, and the facility was never completed. As a result, bringing the Curtis Well online requires installing a submersible pump, piping, and treatment components, as well as conducting testing and permitting. Design for the Curtis Well improvements began in 2020. Construction of the McCandless Well began in 2020 and is anticipated to be completed by 2022. At buildout (estimated by the year 2040), it is assumed that Curtis Well and McCandless Well would be available in emergencies.</p> <p>Groundwater can also supplement reduced supplies from the SFPUC or Valley Water during prolonged droughts. The City expects to rely on groundwater to augment supplies and meet demands during future dry years. The Pinewood, Curtis, and McCandless wells, in addition to other future wells described in the City’s 2020 UWMP that are triggered by future development in the City’s service area, are critical components of the City’s future water supply portfolio.</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide the location, if applicable.

McCandless Well - Near 1680 McCandless Drive

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

For Supply augmentation: McCandless Well 400 gpm (0.58 mgd) to serve VW1 zone

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

City Building permit, City Fire permit, State permit to operate the well

California Environmental Quality Act (CEQA):

CEQA for Water Well Permit

Other:

Click or tap here to enter text.

COST INFORMATION

Provide capital/up-front cost (\$).

\$6M - \$7M

Provide source(s) of funding for above capital/up-front cost.

Water Capital Surcharge

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

NA

Provide source(s) of funding for above O&M/on-going cost.

Water M&O Fund

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

2020



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

SCHEDULE/TIMING INFORMATION

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

The 400 gpm (0.58 mgd) well capacity will help address some of the storage capacity deficiency identified at buildout by providing emergency groundwater storage credit. The facilities are anticipated to be completed by FY2025-26.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

- Water Master Plan
- 2020 Water Shortage Contingency Plan
- 2020 Urban Water Management Plan



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Recycled Water System Expansion	
Agency City of Mountain View	Agency Primary/Lead Name & Contact Information Tina Tseng, Principal Engineer 650-903-6787 Tina.Tseng@MountainView.gov

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Construct a recycled water storage tank and complete pipeline installations in the North Bayshore Area, as recommended in the 2022 Recycled Water Feasibility Study. Project includes approximately 2.0 MG storage tank and 25,000 linear feet of new and/or upsized pipelines ranging from 6 to 18” in diameter.

Provide the location, if applicable.

City of Mountain View North Bayshore Area

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

0.98 MGD



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Estimated \$25.94 million

Provide source(s) of funding for above capital/up-front cost.

City of Mountain View

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

City of Mountain View

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Ongoing

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Storage tank siting study is underway. Estimated 5 years for initial construction.

Or, Add as an attachment



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

Mountain View updated the Recycled Water Feasibility Study in March 2022. Estimated costs and water use are for Alternative 1, the recommended near-term project.

ATTACHMENTS

Provide list of attachments:

Excerpts from the March 2022 Recycled Water Feasibility Study

Table 4.1 Summary of Average Annual Demands (AFY)

	Irrigation Demands	Indoor Demands	Shoreline Demands	Total Demand	Total Cumulative Demand
Alt 0 -Existing	382	-	138	520	520
Alt 1- North Bayshore / NASA Expansion	69	860	165	1,094	1614
Alt 3- East Whisman Expansion	691	343		1,034	2648

Notes:

(1) Demands are additive. Meaning for Alt 1 the total irrigation demand is 382 afy plus 69 afy.

Table 4.2 Summary of Proposed Facilities by Phase

Description	Alternative 1 - North Bayshore Expansion/New Pipelines ⁽¹⁾	Alternative 1 - North Bayshore Pipelines to be Upsized ⁽¹⁾	Alternative 3 - East Whisman Expansion	Alternative 5a/b/c - Dual Plumbed Expansion ⁽³⁾
Pipelines (LF)				
6-in Pipeline	3,740	88	2,914	
8-in Pipeline	3,219		2,043	17,900
10-in Pipeline	-		7,096	
12-in Pipeline	5,857	7,922	15,593	
16-in Pipeline		943	263	
18-in Pipeline		3,775	10,800	
Storage Tanks (MG)				
Buried Concrete Storage Tank	1.9		2.3	
Booster Pumping (hp)				
Booster Pumping	215		550	

Notes:

(1) Sizing is based on modeling the two tank system and expansion to East Whisman with Tank Option 2 (Charleston Park, North) and a tank in East Whisman. If a different tank location is chosen, high velocity pipelines are subject to change and therefore so would the recommended upsizing. A tank siting study is recommended before the City finalizes the storage tank location.

(2) Abbreviations: LF = linear feet; MG = million gallons; hp = horsepower.

(3) Storage, booster pumping, and exact piping sizing are subject to change and should be based on finalized prior system expansions into North Bayshore and East Whisman.

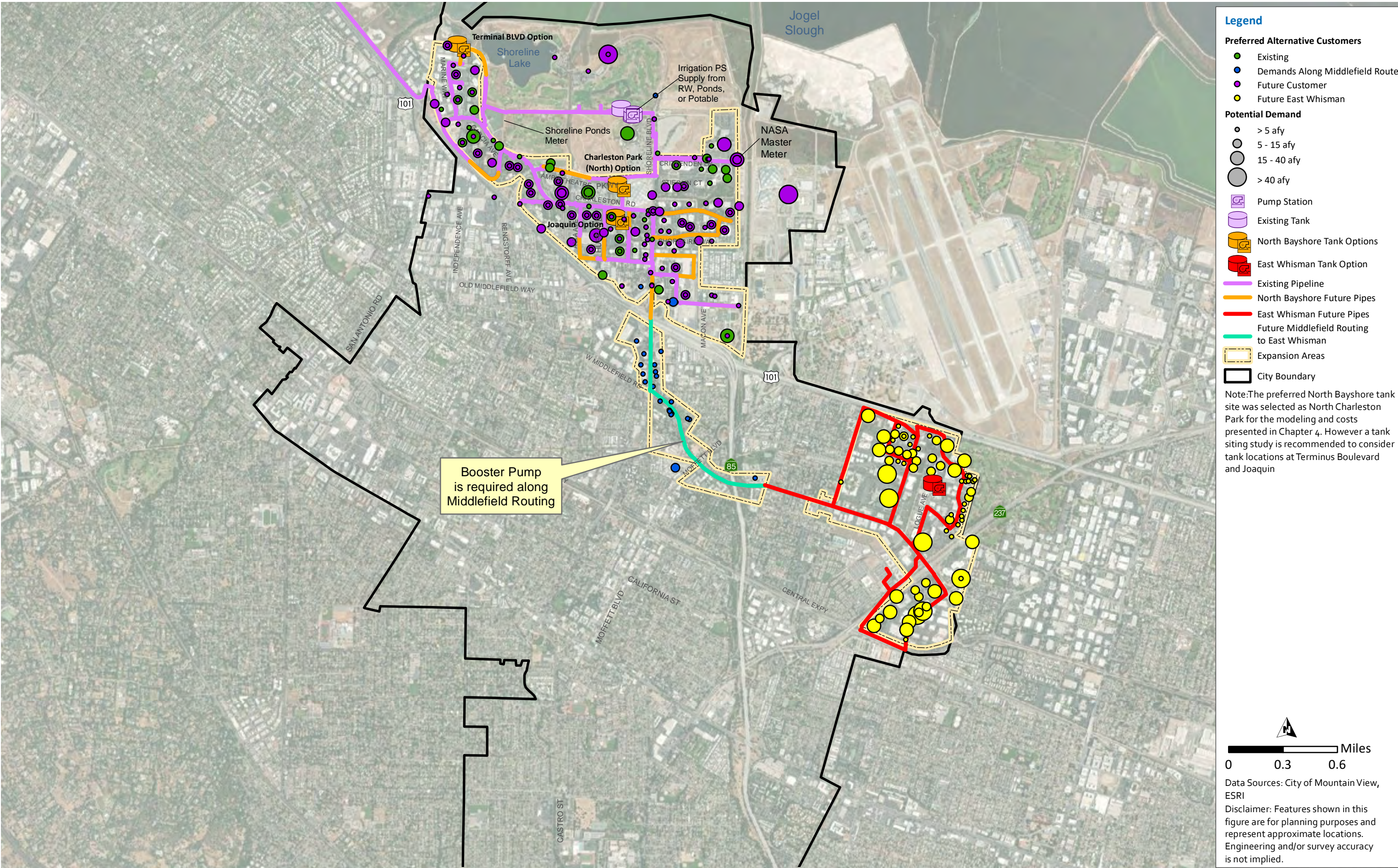
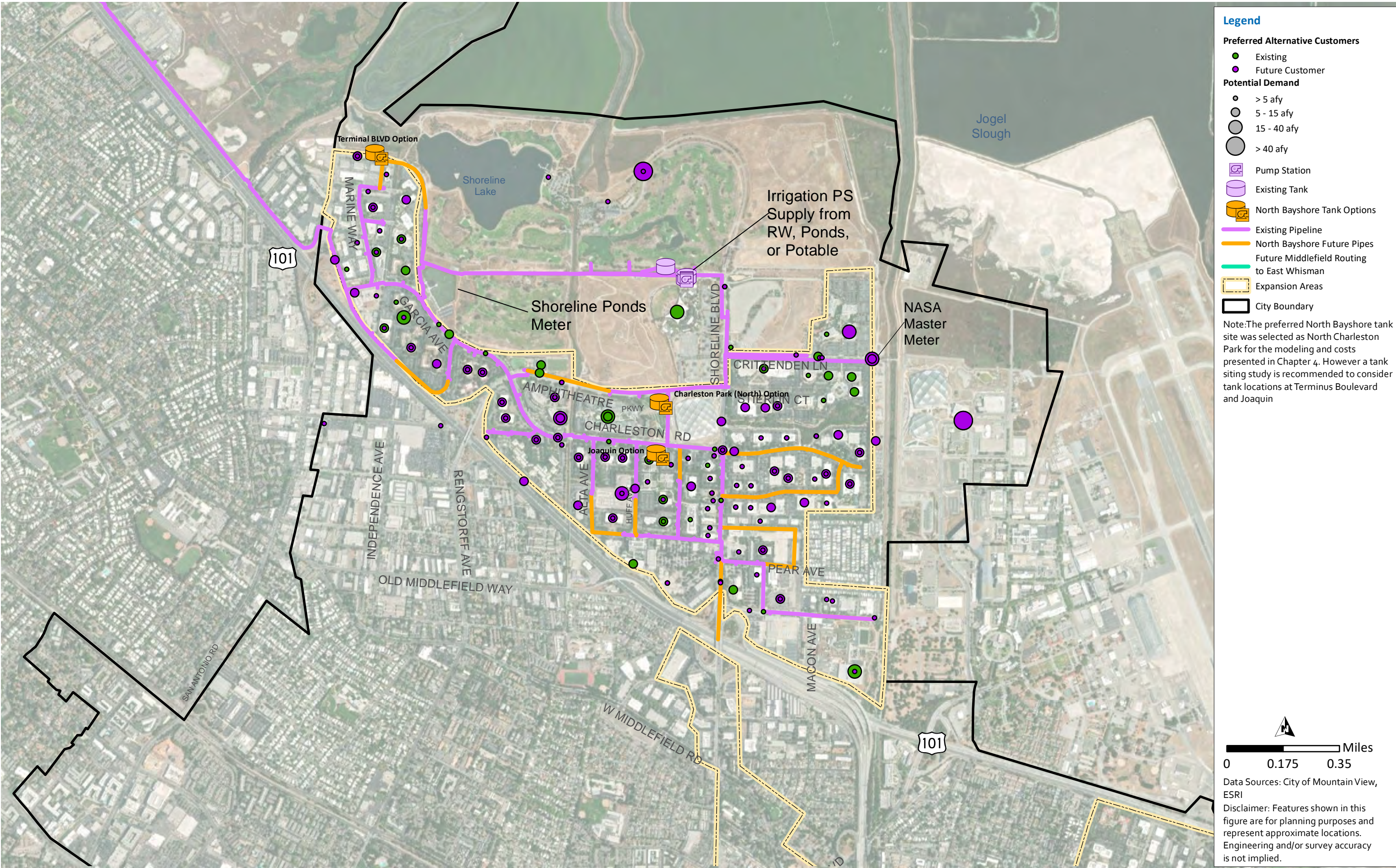


Figure 4.3 Preferred Alternative Customers



Legend

Preferred Alternative Customers

- Existing
- Future Customer

Potential Demand

- > 5 afy
- 5 - 15 afy
- 15 - 40 afy
- > 40 afy

Pump Station

Existing Tank

North Bayshore Tank Options

Existing Pipeline

North Bayshore Future Pipes

Future Middlefield Routing to East Whisman

Expansion Areas

City Boundary

Note: The preferred North Bayshore tank site was selected as North Charleston Park for the modeling and costs presented in Chapter 4. However a tank siting study is recommended to consider tank locations at Terminus Boulevard and Joaquin

0 0.175 0.35 Miles

Data Sources: City of Mountain View, ESRI

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations. Engineering and/or survey accuracy is not implied.

Figure 4.4 North Bayshore Customers

4.4 Preliminary Cost Estimates for Recommended Project and Preferred Future Expansion Alternatives

A summary of construction and capital cost estimates for the recommended project (Alternative 1) is presented in Table 4.3. Although expansion to East Whisman via Middlefield Road (Alternative 3) has been deemed the preferred future expansion alternative, costs developed herein are only applicable for the Alternative 1 project. Future Upsizing in North Bayshore is not included in these costs. The tank location and timing of the East Whisman expansion will affect these costs. Also note that to reach East Whisman additional booster pumping would be needed. The estimates are organized by facility types – pipeline, pump station, and storage. A total markup of 62.5 percent was applied to construction costs to account for construction contingency (30 percent), engineering (10 percent), construction management (10 percent), and environmental and legal (5 percent) costs. The cost estimates do not include land acquisition or recycled water costs. It was assumed that land acquisition was not needed since the facilities could be located on City-owned property. and the recycled water supply Agreement does not contain a cost for purchasing recycled water from Palo Alto, so this assumption was used for these estimates as well. The unit construction costs used to develop these estimates were previously presented in Chapter 3.

Table 4.3 Estimated Capital Cost for the Recommended Project

Item	Total Cost (\$M)
Piping ⁽³⁾	\$3.60
Fittings and Valves ⁽³⁾	\$0.02
Storage Tank ^(1, 3)	\$10.68
Booster Pumping ⁽³⁾	\$1.67
SUBTOTAL – Construction	\$16.0
Construction Contingency (30 percent)	\$4.79
SUBTOTAL – Construction + Construction Contingency	\$20.75
Engineering (10 percent)	\$2.08
Construction Management (10 percent)	\$2.08
Environmental and Legal (5 percent)	\$1.04
TOTAL PROJECT COST⁽⁴⁾	\$25.94

Notes:

- (1) Storage tank costs are conservative and includes a 2.5 factor increase estimated for a buried tank.
- (2) Piping costs are further refined here and do not match costs from Chapter 3.
- (3) These are unit costs.
- (4) This reflects the total capital cost.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Potable Groundwater Supply Well Project	
Agency North Coast County Water District	Agency Primary/Lead Name & Contact Information Adrienne Carr 650-355-3462 acarr@nccwd.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>The southern portion of the NCCWD service area overlies the San Pedro Valley Groundwater Basin (DWR Basin 2-036; Basin) which has historically been used as a private source of groundwater supply and continues to be used for irrigation by several users. NCCWD recently completed a preliminary groundwater assessment study that concluded based on analysis of available information that a multi-well groundwater supply system tapping into the underlying Basin could yield on the order of 70 acre-feet per year (AFY) of groundwater when operated during the six-month dry season. The objective of the NCCWD Potable Groundwater Supply Well Project is to develop a new potable groundwater supply source for the District through the construction of three groundwater production wells. The proposed project will provide an estimated 70 AFY of local groundwater supply, equivalent to 3% of the District's 2020 water purchases from SFPUC. Alternatively, when operated at greater rates of extraction during a short-term emergency, the system will be capable of providing water to meet the potable demands of approximately 8,000 to 10,000 people on a short-term basis. Development of this new local groundwater supply source will reduce demands on imported RWS water.</p> <p>The NCCWD Potable Groundwater Supply Well Project includes conducting the necessary additional pre-design studies, engineering design, permitting, environmental documentation, construction, startup, and testing. More specifically, this will include: (1) drilling, construction, and testing of two test wells; (2) design, construction, and start-up testing of three new potable production wells; (3) a conveyance pipeline to a nearby existing District storage tank and treatment facilities; (4) preparation of associated environmental documentation pursuant to the California Environmental Quality Act; and (5) required permitting.</p>
<p>Provide the location, if applicable.</p> <p>San Pedro Valley Groundwater Basin – Wells to be located at properties along Linda Mar Blvd.</p>
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>0.062 MGD</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

DDW must permit new supply wells – District must obtain a Water Supply Permit Amendment

California Environmental Quality Act (CEQA):

NCCWD filed CEQA Exemption for test well phase, full project will require CEQA analysis, which is underway

Other:

NCCWD must obtain permission/agreements with owners of the land where wells will be located



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$7,359,000 - estimated in January 2022 for grant application

Provide source(s) of funding for above capital/up-front cost.

Project was awarded a \$6,623,100 grant from the Department of Water Resources (Urban and Multibenefit Drought Relief Grant Program), which is a 90% cost share. District will fund the remaining 10% through its Capital Improvement Program budget.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

Costs to operate the project would be included in the District's rate base going forward.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Project started in March 2022

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Per DWR Grant requirements, project must be complete by March 2026

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Potable Groundwater Supply Well Project	
Agency North Coast County Water District	Agency Primary/Lead Name & Contact Information Adrienne Carr 650-355-3462 acarr@nccwd.com

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>The southern portion of the NCCWD service area overlies the San Pedro Valley Groundwater Basin (DWR Basin 2-036; Basin) which has historically been used as a private source of groundwater supply and continues to be used for irrigation by several users. NCCWD recently completed a preliminary groundwater assessment study that concluded based on analysis of available information that a multi-well groundwater supply system tapping into the underlying Basin could yield on the order of 70 acre-feet per year (AFY) of groundwater when operated during the six-month dry season. The objective of the NCCWD Potable Groundwater Supply Well Project is to develop a new potable groundwater supply source for the District through the construction of three groundwater production wells. The proposed project will provide an estimated 70 AFY of local groundwater supply, equivalent to 3% of the District's 2020 water purchases from SFPUC. Alternatively, when operated at greater rates of extraction during a short-term emergency, the system will be capable of providing water to meet the potable demands of approximately 8,000 to 10,000 people on a short-term basis. Development of this new local groundwater supply source will reduce demands on imported RWS water.</p> <p>The NCCWD Potable Groundwater Supply Well Project includes conducting the necessary additional pre-design studies, engineering design, permitting, environmental documentation, construction, startup, and testing. More specifically, this will include: (1) drilling, construction, and testing of two test wells; (2) design, construction, and start-up testing of three new potable production wells; (3) a conveyance pipeline to a nearby existing District storage tank and treatment facilities; (4) preparation of associated environmental documentation pursuant to the California Environmental Quality Act; and (5) required permitting.</p>
<p>Provide the location, if applicable.</p> <p>San Pedro Valley Groundwater Basin – Wells to be located at properties along Linda Mar Blvd.</p>
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>0.062 MGD</p>

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|---|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input checked="" type="checkbox"/> Other: Measuring amount of fog water that can be collected at different sites in the service area. This could eventually be used to offset potable water demands. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Pilot project to measure fog doesn't require permits

California Environmental Quality Act (CEQA):

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Fog collectors purchased in 2022: \$5225 for three 1-m by 1-m collectors with rain gauges and data loggers

Provide source(s) of funding for above capital/up-front cost.

Funding from NCCWD's Capital Improvement Program budget for water supply projects

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

TBD

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Project started in August 2022

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

TBD

Or, Add as an attachment



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

NCCWD has been collaborating with researchers at California State University Monterey Bay (CSUMB) and UC Santa Cruz to measure fog water at three of the District's water tank sites. Data collectors and rain gages have been installed with the collectors since August/September, depending upon the site. Students at CSUMB used the data from District sites to complete undergraduate research projects in fall 2022. Estimates of fog water potential and initial cost estimates have been developed.

Possible future fog collector rebate or install program is envisioned in the future for customers to capture water and offset potable water demands.

District partnering with CSUMB and UCSC researchers in applying for a grant to further study fog water potential in the District's service area. Letter of intent was submitted in January 2023.

Daly City also installed fog collectors and DC and NCCWD were featured in local news story about fog <https://www.nbcbayarea.com/news/local/digital-originals/san-francisco-fog-climate-change/3114080/>

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name One Water Plan	
Agency City of Palo Alto	Agency Primary/Lead Name & Contact Information City of Palo Alto Utilities Enter phone number here. Enter email address here.

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The goal of the One Water Plan is Council adoption of a One Water supply plan that is a 20-year adaptable roadmap for implementation of prioritized water supply and conservation portfolio alternatives. Carollo Engineers, Inc., will conduct evaluations, develop criteria, assist with engaging stakeholders, develop, analyze and evaluate water supply and conservation portfolio alternatives. Carollo Engineers Inc., will then deliver a standalone electronic report that can be used as an adaptable water supply plan as well as an Excel-based tool for evaluating and prioritizing the water supply and conservation portfolio alternatives. At the end of the project, City staff will have ownership of the tool, so City staff may continue to make updates as conditions change and more detailed data emerges in order to provide adaptive recommendations to the City Council. Upon completion, staff will present the One Water Plan report to the City Council for consideration of adoption.

Provide the location, if applicable.

N/A

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Implementation of a One Water portfolio, a water supply plan that will analyze the City’s potential water supply priorities and conservation opportunities.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input checked="" type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input checked="" type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input checked="" type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

N/A

California Environmental Quality Act (CEQA):

N/A

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION
Provide capital/up-front cost (\$). \$559,000
Provide source(s) of funding for above capital/up-front cost. City of Palo Alto Operating Budget
Provide Operations and Maintenance (O&M)/on-going cost (\$ per year). N/A
Provide source(s) of funding for above O&M/on-going cost. N/A

SCHEDULE/TIMING INFORMATION
Provide expected kickoff/start date. July 09, 2022
Provide timeframe to accrue expected supply/demand/other quantifiable benefits. 1 year, proposed end date June 30, 2023 Or, <input type="checkbox"/> Add as an attachment



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

<https://www.cityofpaloalto.org/files/assets/public/agendas-minutes-reports/agendas-minutes/city-council-agendas-minutes/2022/20220620/20220620pccsm-amended-final-final.pdf>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Local Salt Removal Facility: Improving Existing Recycled Water Quality at the RWQCP	
Agency City of Palo Alto in collaboration with Valley Water and the City of Mountain View	Agency Primary/Lead Name & Contact Information City of Palo Alto Public Works Enter phone number here. Enter email address here.

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The RWQCP treats wastewater from six communities, including Palo Alto. Currently, much of the treated effluent is discharged into the Bay rather than being reused. The RWQCP produces and distributes approximately 230 million gallons per year of tertiary-treated recycled water to the City of Mountain View, several City-owned parks and facilities, and a commercial truck fill standpipe at the RWQCP. Following public concerns regarding the irrigation of redwood trees and other salt-sensitive species with recycled water, the City prepared an Environmental Impact Report (EIR) focused on water quality issues and salinity impacts. On January 25, 2010, Council approved the Recycled Water Salinity Reduction Policy (Staff Report ID #111:10, Resolution 9035), including a goal of reducing the recycled water total dissolved solids level to 600 parts per million. In 2017, Valley Water, Palo Alto, and Mountain View finalized a feasibility study and the preliminary design report for a local salt removal facility (Staff Report ID #10627). Highly treated water produced by the local salt removal facility would benefit landscapes currently irrigated with recycled water in Palo Alto, enable Palo Alto to expand its non-potable distribution system, and/or provide a first step toward small-scale potable water production for direct or indirect potable reuse in Palo Alto.

Provide the location, if applicable.

City of Palo Alto: within the fence line of the RWQCP; at the Measure E site; or a yet to be determined location.

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Recycled Water Quality Improvement

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

RWQCP's discharge permit

California Environmental Quality Act (CEQA):

In Process

Other:

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



COST INFORMATION

Provide capital/up-front cost (\$).

\$52,622,000

Provide source(s) of funding for above capital/up-front cost.

Valley Water, City of Palo Alto, City of Mountain View, Title XVI WIIN Act Water Reclamation and Reuse Projects (USBR Grant)

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Click or tap here to enter text.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

<https://www.cityofpaloalto.org/files/assets/public/agendas-minutes-reports/agendas-minutes/city-council-agendas-minutes/2022/20220912/20220912pccsm-amended-v2.pdf>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Recycled Water Chlorine Booster Station Feasibility and Design	
Agency City of Redwood City	Agency Primary/Lead Name & Contact Information City of Redwood City/ Sindy Mulyono-Danre 650-780-7470 smdanre@redwoodcity.org

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>Given the increasing numbers of indoor customers (dual plumbed for toilet flushing) for recycled water the City released an RFP for the feasibility and design of Chlorine Booster Station to improved water quality in the distribution system.</p>
<p>Provide the location, if applicable.</p> <p>Redwood City</p>
<p>Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).</p> <p>TBD</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

State Water Resources Control Board and Regional Water resources Control Board

California Environmental Quality Act (CEQA):

No

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

TBD

Provide source(s) of funding for above capital/up-front cost.

TBD

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

TBD

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

RFP release 4th quarter of 2022

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Redwood City Recycled Water Feasibility Study Update	
Agency City of Redwood City	Agency Primary/Lead Name & Contact Information City of Redwood City/ Sindy Mulyono-Danre 650-780-7470 smdanre@redwoodcity.org

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Update of the City's 2014 Feasibility Study which will include an updated analysis of potential new customers and estimated demands. The Study will also include a pipe extension implementation plan; focusing on the dual plumbed projects that have been approved in the downtown area.

Provide the location, if applicable.

Redwood City proper

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

TBD



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

State Water Resources Control Board and Regional Water resources Control Board

California Environmental Quality Act (CEQA):

Yes

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

TBD

Provide source(s) of funding for above capital/up-front cost.

TBD

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

TBD

Provide source(s) of funding for above O&M/on-going cost.

TBD

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Plan to release the RFP in 1st quarter on 2023

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Regional Stormwater Capture Project at Red Morton Community Park	
Agency City of Redwood City (project lead) Potential for other agency partnerships	Agency Primary/Lead Name & Contact Information TBD Enter phone number here. Enter email address here.

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The project is still in the conceptual design phase but is proposed as a regional stormwater capture project located in Redwood City. The proposal is for a subsurface infiltration gallery underneath McGarvey Field at the City of Redwood City’s (City’s) Red Morton Community Park. The project would serve as the cornerstone for the City’s Municipal Regional Permit (MRP) compliance and water resiliency efforts, and has the potential to supplement groundwater supplies, alleviate flooding, offset water use at the park, and improve downstream water quality in the Arroyo Ojo and downstream Redwood Creek. The project has the potential to treat runoff from a total of 1,650 acres, approximately 70% of which is in Redwood City. The remaining 30% of the potential drainage area is from Woodside and the unincorporated communities of Emerald Lake Hills and Kensington Square.

The project is envisioned as a single subsurface gallery with potential for additional phases to be considered in the future. A multi-phase approach will allow for flexibility in procuring funding and coordinating with scheduled park improvements (e.g. resurfacing of turf fields). The first phase of the project has potential to capture and treat approximately 31.2 ac-ft, 72% of the 85th percentile, 24-hour runoff volume (43.2 ac-ft). The project can potentially reduce PCBs load by 16.7%. This benefit may offset the amount of green streets that would otherwise need to be implemented to meet permit and TMDL requirements, reducing Redwood City’s green street requirement by 92.6%.

Provide the location, if applicable.

Red Morton Community Park



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

The project consists of a subsurface concrete gallery that will be located beneath McGarvey Field at Red Morton Community Park. The structure has potential to capture 31.2 acre-feet of runoff from Arroyo Ojo, a tributary of Redwood Creek that flows to the Bay.

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input checked="" type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

As the project is still in the early stages, this information is not yet known.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



COST INFORMATION

Provide capital/up-front cost (\$).

Initial estimate is \$28,153,000

Provide source(s) of funding for above capital/up-front cost.

Funding sources are being explored.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

To be determined based on design

Provide source(s) of funding for above O&M/on-going cost.

To be determined

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Click or tap here to enter text.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Acappella Well 21 Project	
Agency City of San Bruno	Agency Primary/Lead Name & Contact Information Steven Salazar 650-616-7174 SSALAZAR@SANBRUNO.CA.GOV

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

In the final phase of design for the “Acappella” well (well #21) as a replacement well for well #15. Designed to be stand-by well to supplement water needed for GSR.

Provide the location, if applicable.

1001 National Ave , San Bruno

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Approximately .79 mgd



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

\$9,781,000

Provide source(s) of funding for above capital/up-front cost.

Water Fund

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

2024-2025

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

2025-2026

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Advanced Metering Infrastructure Implementation	
Agency City of San Jose	Agency Primary/Lead Name & Contact Information Jeff Provenzano 408-277-3671 Jeffrey.provenzano@sanjoseca.gov

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

A systemwide upgrade of approximately 27,000 water meters from Automatic Meter Reading (AMR) system to a cellular based Advanced Metering Infrastructure (AMI) system that will positively impact water conservation efforts, help customers reduce their water use, identify leaks, and save money on water bills.

Provide the location, if applicable.

System-wide within City of San José service area

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Estimated 5% demand savings per year (in 2021: 272 MG/yr)



PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input checked="" type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION
Provide capital/up-front cost (\$). \$12.87M
Provide source(s) of funding for above capital/up-front cost. Water utility CIP fund
Provide Operations and Maintenance (O&M)/on-going cost (\$ per year). TBD
Provide source(s) of funding for above O&M/on-going cost. Water utility operating fund

SCHEDULE/TIMING INFORMATION
Provide expected kickoff/start date. August 2023
Provide timeframe to accrue expected supply/demand/other quantifiable benefits. Upon completion of implementation Or, <input type="checkbox"/> Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name	
One Water Santa Clara - Sustainable Water Master Plan, Recycled Water Expansion, Two new Ground Water Wells, existing well rehabilitation, water conservation ordinance update	
Agency	Agency Primary/Lead Name & Contact Information
City of Santa Clara	Shilpa Mehta – Assistant Director (408)615-2011 smehta@santaclaraca.gov

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>RFP for One Water Santa Clara - Sustainable Water Master Plan send out to prospective consultants in October 2022. The City of Santa Clara Water and Sewer Utilities (“City”) is seeking proposals from qualified firms (“Proposer”) to provide Water Supply Master Plan (“WSMP”) analysis services to assist the City in resource planning efforts. The services will require producing an innovative and sustainable WSMP that encompasses a One Water long-term plan that addresses drought and climate resiliency. A One Water approach envisions managing all water in an integrated, comprehensive, and sustainable manner that considers all water resources from ground water, treated water, wastewater, recycled water, dry weather runoff and stormwater that improves water resiliency to climate change.</p> <p>2. Expand recycled water mains to city parks to be use of irrigation is at the planning level. Currently all the expansion of the public recycled water is constructed by the developers based on their needs to use the recycled water. City has approximately 33 miles of recycled water in the distribution system which offsets about 19% of the potable water supply of City, almost equivalent to supply from SFPUC.</p> <p>3. The project is to drill and equip two new wells and reactivate one existing iron and manganese treatment plant at a well that is currently on standby. Applying for grant funding (Department of Water Resources - Urban Community Drought Relief Funding Checklist)</p> <p>4. Rehabbing some existing wells with water quality issues and to bring them from backup wells to main source. Other wells have pumping issues. Out of 4/5 wells, hoping to rehab 2/3 of them. Only have 2 wells in north part of town, rehab wells in north part of town to bring more water to that area to serve more new proposed development.</p> <p>5. Amending water conservation ordinance for new development.</p>



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Provide the location, if applicable.

Citywide. New Wells are located at the Serra Tanks site and Fire Station 5 site both are city owned.

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Click or tap here to enter text.

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.

COST INFORMATION

Provide capital/up-front cost (\$).

\$500K to \$1M

Provide source(s) of funding for above capital/up-front cost.

Water Rate revenue

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

N/A

Provide source(s) of funding for above O&M/on-going cost.

Water Rate revenue

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

1/2023



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

SCHEDULE/TIMING INFORMATION

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Bay Area Water Planning in the Face of Drought and Ecosystem Flows							
Agency Stanford University	Agency Primary/Lead Name & Contact Information <table border="0"> <tr> <td>Dr. Richard Luthy</td> <td>Bridget Gile</td> </tr> <tr> <td>(650) 721-2615</td> <td></td> </tr> <tr> <td>luthy@stanford.edu</td> <td>bgile@stanford.edu</td> </tr> </table>	Dr. Richard Luthy	Bridget Gile	(650) 721-2615		luthy@stanford.edu	bgile@stanford.edu
Dr. Richard Luthy	Bridget Gile						
(650) 721-2615							
luthy@stanford.edu	bgile@stanford.edu						

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>Where human and ecological water needs clash, the State of California recognizes “co-equal goals” of water supply and ecosystem protection. In practice, however, communities throughout the state are struggling to find equitable and sustainable solutions to meet their water demands while preserving ecosystems. In the Bay Area, the Hetch Hetchy Regional Water System relies on the Tuolumne River for 85% of its supply, yet recent amendments to the Bay-Delta Plan will require more flow to be left in-stream for ecosystem use. Serious and unanswered questions remain about what reduced Tuolumne diversions would mean for regional water supply, especially during drought.</p> <p>Our project addresses key research questions supporting sustainable water supply planning:</p> <ol style="list-style-type: none"> 1. How will Bay-Delta Plan ecological flow policy impact water supply outcomes for the Regional Water System? 2. Can we enhance water portfolio and drought planning efforts through comprehensive yet accessible communication of modeling results? 3. What coping strategies are needed for the San Francisco Bay Area to respond effectively to policy and climate stresses on water supply? <p>To address these questions, we develop a model of Tuolumne River water supply and simulate long-term water supply performance under various climate, policy, and coping scenarios. We first evaluate the impact of the Bay-Delta Plan unimpaired flow requirement on Regional Water System supplies in the context of historical hydrology. We quantify the new ecological flow demand and compare water supply performance between policy scenarios with and without the Bay-Delta Plan policy. Performance metrics include reliability and conservation, critically low storage levels, policy compliance, and uncaptured flow volume. We then introduce climate uncertainty by extending the analysis to include multiple future streamflow scenarios derived from downscaled general circulation climate models. Finally, we will turn to solutions by evaluating how future water supply investments (e.g., storage, interties, regional desalination) might contribute to resilient water supply performance in the face of climate and policy stresses.</p>
<p>Provide the location, if applicable.</p> <p>Tuolumne River watershed and Regional Water System service area</p>



PROJECT DESCRIPTION

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Estimating future water supply performance with Bay-Delta Plan and climate change impacts

Project type (check all that apply).

- | | |
|--|---|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input checked="" type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input checked="" type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input checked="" type="checkbox"/> Other: Research Study on Water Supply Portfolios and Planning |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Bay-Delta Plan unimpaired flow requirement



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Click or tap here to enter text.

Provide source(s) of funding for above capital/up-front cost.

Click or tap here to enter text.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Click or tap here to enter text.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Research manuscript submission anticipated by the end of 2022

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

To facilitate analysis of policy, climate, and project impacts on the future reliability of Bay Area regional water supply, this project develops a systems model of the Tuolumne River and its Hetch Hetchy Regional Water System contributions. The model does not attempt to reproduce complex operational details but instead focuses on fundamental water allocation to inform key planning questions around storage, streamflow, and consumptive use.

The model representation of the Tuolumne River portion of the Regional Water System is illustrated in Figure 1. Inside the system boundary is the total Tuolumne storage available to SFPUC, which includes the Cherry, Eleanor, and Hetch Hetchy reservoirs as well as the Water Bank account. Key fluxes across the system boundary include combined reservoir inflow, spill to downstream, evaporation, and water supply deliveries.

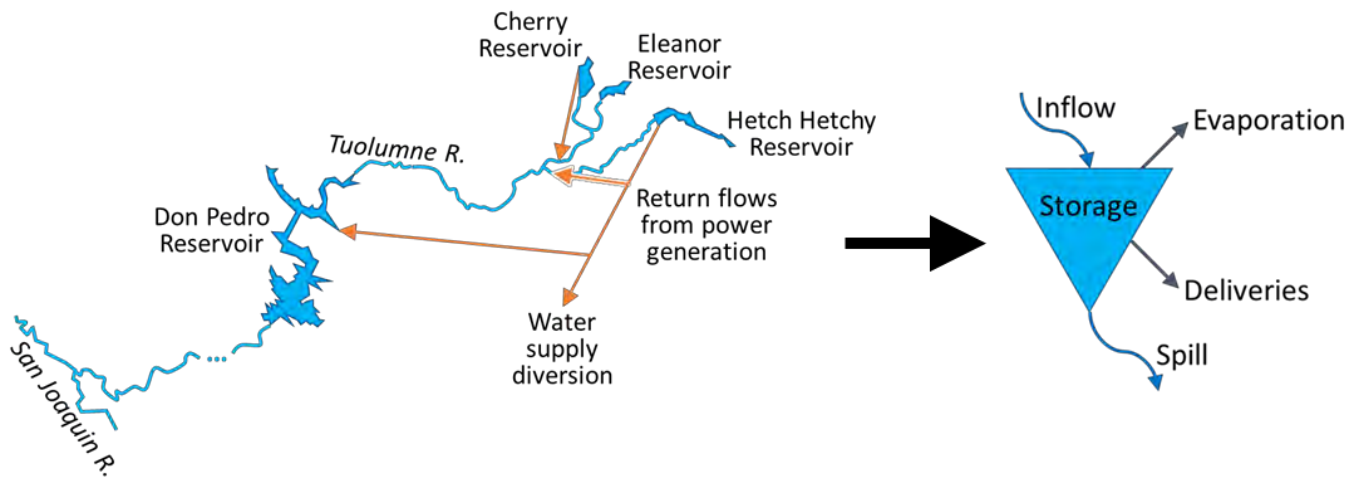


Figure 1. Conceptual model of the Regional Water System Tuolumne supply

In the historical analysis, we use hydrologic data from water years 1988-2021 to simulate water supply operations at a monthly time step across this 34-year period. Each month's storage level is calculated from the previous month's storage level with inflow added and evaporation, spill, and deliveries removed. The amount of spill released to downstream depends on the policy scenario and may include (1) water rights entitlements only or (2) water rights entitlements and Bay-Delta Plan ecological demand. The historical analysis compares water supply performance between policy scenarios with and without the Bay-Delta Plan in effect.

In the prospective analysis, we consider the combined effect of Bay-Delta Plan policy and climate change. We use 8 future streamflow scenarios generated by Pierce et al. (2018) for water years 2022-2099 to simulate water supply operations at a monthly time step across this period. The 8 streamflow scenarios are derived from 4 climate models, each with 2 emissions assumptions, that span a range of possible climate futures. The prospective analysis compares water supply performance between policy scenarios with and without the Bay-Delta Plan, with hydrologic uncertainty.

Finally, we turn to the path forward by evaluating the contributions of proposed water supply strategies in the context of a policy- and climate-amended future. This portion of the project builds upon existing planning efforts to offer valuable insight into how proposed project yields might complement system vulnerabilities, and where



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

shortfalls persist. Potential water supply coping strategies for the Bay Area include both technical solutions to generate additional water supply and institutional solutions to more effectively utilize available water supply infrastructure. The coping analysis compares water supply performance between policy scenarios with and without the Bay-Delta Plan, with hydrologic uncertainty and future water supply investments.

References:

Pierce, D. W., Kalansky, J. F., & Cayan, D. R. (2018). *Climate, Drought, and Sea Level Rise Scenarios for California's Fourth Climate Change Assessment*. California's Fourth Climate Change Assessment, California Energy Commission. Publication Number: CNRA-CEC-2018-006. https://www.energy.ca.gov/sites/default/files/2019-11/Projections_CCCA4-CEC-2018-006_ADA.pdf

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Stanford University Stormwater Capture and Use	
Agency Stanford University	Agency Primary/Lead Name & Contact Information Julia Nussbaum 650-223-9930 juliann@stanford.edu

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Stanford has implemented two stormwater capture facilities on campus, the West Campus Stormwater Capture and Use Facility (WCSCU) and the East Campus Stormwater Capture and Use Facility (ECSCU), which are key components of Stanford University’s stormwater management. Both systems intercept stormwater and runoff which is then pumped into the campus’ non-potable irrigation system to be used for campus irrigation. The overall non-potable irrigation system utilizes storage at Felt Reservoir in the foothills, and is also served with local surface water diversions and groundwater. Future expansion of stormwater capture on campus will help to reduce the demand for groundwater.

Benefits of the WCSCU and ECSCU include:

- Stormwater Capture and Use: Reduced reliance on local groundwater, local surface water, and imported Hetch Hetchy water for campus irrigation
- Community Benefits: Multiple recreational spaces
- Watershed Protection: Enhanced protection of the San Francisquito Creek and Matadero Creek watersheds’ water quality and hydrograph
- Regional Solution: Lower maintenance than the individual bioretention areas distributed on campus

Provide the location, if applicable.

Stanford University Campus, Unincorporated Santa Clara County

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Since January 2019, over 46 million gallons have been captured.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input checked="" type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Click or tap here to enter text.

California Environmental Quality Act (CEQA):

Click or tap here to enter text.

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Click or tap here to enter text.

Provide source(s) of funding for above capital/up-front cost.

Click or tap here to enter text.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Click or tap here to enter text.

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Click or tap here to enter text.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

<https://suwater.stanford.edu/water-supplies/stormwater-capture>

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Stanford University Sustainable Water Management Plan	
Agency Stanford University	Agency Primary/Lead Name & Contact Information Julia Nussbaum 650-223-9930 juliann@stanford.edu

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

Stanford has compiled a working document to collect the latest water use projection and water supply planning information for the campus. The Sustainable Water Management Plan defines Sustainable Water Management, for the campus application, and uses OneWater principles. It documents existing and potential water supplies for the campus including their appropriate uses based on water quality, cost, availability, environmental/social impact, and reliability. The plan outlines high level strategic goals that will help inform water supply planning decisions. The plan currently uses water demand projections out to 2060 and anticipates alternative water supplies needed to meet those demands. The plan will be updated on a regular basis with updated water demand projections and developments related to water supplies (including work by consultants, academic research, climate change, and policy/regulatory).

Provide the location, if applicable.

Stanford University Campus, Unincorporated Santa Clara County

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Progresses as different programs are implemented



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input checked="" type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input checked="" type="checkbox"/> Conservation |
| <input checked="" type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input checked="" type="checkbox"/> Stormwater | <input checked="" type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input checked="" type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input checked="" type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

Not yet applicable

California Environmental Quality Act (CEQA):

Not yet applicable

Other:

Not yet applicable



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide capital/up-front cost (\$).

Not yet applicable

Provide source(s) of funding for above capital/up-front cost.

Not yet applicable

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

Not yet applicable

Provide source(s) of funding for above O&M/on-going cost.

Not yet applicable

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Ongoing

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Comprehensive Update of 2013 Feasibility Study for Recycled Water Expansion	
Agency City of Sunnyvale	Agency Primary/Lead Name & Contact Information Mansour Nasser P.E. Water & Sewer Division Manager 408-730-7578 mnasser@sunnyvale.ca.gov

PROJECT DESCRIPTION

Provide a detailed description of the proposed Project.

The intent of the project is that after completion of the comprehensive master plan the City should have:

- 1-A report on the existing system, its condition, and capabilities.
- 2-Planned expansion of service areas and sales projection scenarios, including connections to other regional recycled water systems and neighboring cities;
- 3-Dynamic Hydraulic Systems Models and Flow Projections;
- 4-A recommended comprehensive long-term Capital Improvement Program (CIP), including:
 - Use of recycled water on roadway medians and closed landfill sites
 - Priority array of anticipated projects
 - Scopes of Work of each project
 - Construction cost estimates
 - Time Schedule for each project

Provide the location, if applicable.

City Wide

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Not Applicable



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

PROJECT DESCRIPTION

Project type (check all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input checked="" type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input type="checkbox"/> Other: Click or tap here to enter text. | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

N/A

California Environmental Quality Act (CEQA):

N/A Study only

Other:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION
Provide capital/up-front cost (\$). \$250,000
Provide source(s) of funding for above capital/up-front cost. Water & Wastewater Funds
Provide Operations and Maintenance (O&M)/on-going cost (\$ per year). N/A
Provide source(s) of funding for above O&M/on-going cost. N/A

SCHEDULE/TIMING INFORMATION
Provide expected kickoff/start date. July 1, 2022
Provide timeframe to accrue expected supply/demand/other quantifiable benefits. June 30, 2024 Or, <input type="checkbox"/> Add as an attachment



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

ADDITIONAL DETAILS

Provide as necessary.

N/A

ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

Project Name Purissima Hills Water District Groundwater Well Feasibility Memo	
Agency Purissima Hills Water District (PHWD)	Agency Primary/Lead Name & Contact Information Enter name and credentials here. Enter phone number here. Enter email address here.

PROJECT DESCRIPTION
<p>Provide a detailed description of the proposed Project.</p> <p>The District investigated the feasibility and cost estimation to pump local groundwater for certain end uses, such as landscape irrigation. Development of a new local groundwater supply source would reduce demands on imported RWS water and would result in reduced dependence on surface water supplies that are conveyed through sensitive freshwater habitat. Three scenarios were explored in this memo: potable water with treatment, potable water without treatment, and non-potable water.</p> <p>Development of local groundwater resources by the District could provide benefits in terms of supply augmentation, supply diversification, and possibly cost savings (if yields were to turn out favorably). Under the assumptions in the memo, the combined yield of the potable and non-potable scenarios equates to approximately 4% of the District’s total demands. Under worst-case scenario drought conditions, when SFPUC supply shortfalls could result in delivery cutbacks to PHWD of 52% (i.e., during the fourth consecutive dry year with 2040 as the base year), the groundwater supply could backfill roughly 7% of the shortfall.</p> <p>Based on the cost estimates presented in the memo, the “break even” yields needed to make the water comparable in cost to the SFPUC wholesale costs are approximately 13.7 MGY for the potable with treatment scenario, 11.4 MGY for the potable without treatment scenario, and 6.3 MGY for the non-potable scenario. It should be noted however that there is uncertainty in the actual well yields that a properly designed and construction groundwater supply system could produce. If yields (on an annual basis) turned out to be greater than those assumed in the memo, or if the well(s) could be operated on a more intensive basis, then the unit costs for local groundwater could be reduced even lower, making them even more cost competitive with SFPUC wholesale water costs.</p>



PROJECT DESCRIPTION

Provide the location, if applicable.

Potential potable well sites include: (a) at the water storage tank located on Ascension Drive, known as the McCann Tank, and (b) at the District's Headquarters.

Potential non-potable well could possibly serve irrigation demand at the Purissima Park (owned by the Town of Los Altos Hills) and the Fremont Hills Country Club and Windy Hill Equestrian facility.

Provide expected annual benefit (demand reduction, supply augmentation, or other quantifiable benefit in million gallons per day (MGD)).

Potable water well will have an estimated annual volume of 48 acre-feet per year (AFY), and the non-potable well will have an estimated annual volume of 24 AFY. If both wells are considered, the total estimated yield is 72 AFY.

Project type (check all that apply).

- | | |
|---|--|
| <input type="checkbox"/> Surface Water | Water Demand Reduction |
| <input type="checkbox"/> Transfer | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Groundwater (Recharge) | <input type="checkbox"/> Land/Water Use Changes |
| <input type="checkbox"/> Stormwater | <input type="checkbox"/> Infrastructure/Capital Project |
| <input type="checkbox"/> Recycled Water (potable) | <input type="checkbox"/> Data Gap Filling/Monitoring |
| <input type="checkbox"/> Indirect potable reuse | <input type="checkbox"/> Policy Project |
| <input type="checkbox"/> Direct potable reuse | <input type="checkbox"/> Water Quality Improvement |
| <input type="checkbox"/> Recycled Water (non-potable) | <input type="checkbox"/> Other: Click or tap here to enter text. |
| <input checked="" type="checkbox"/> Other: New groundwater source | |

Source of Outside Water (if applicable):

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



PROJECT DESCRIPTION

Provide regulatory/legal authority requirements (describe all that apply).

Permits (name of authority, type of permit):

County of Santa Clara, well drilling and encroachment permits
SWRCB, Drinking Water System permit will need to be amended to add the new production wells as a supply source

California Environmental Quality Act (CEQA):

CEQA compliance

Other:

Click or tap here to enter text.

COST INFORMATION

Provide capital/up-front cost (\$).

\$3.8 million (for potable water scenario with treatment)

\$2.9 million (for potable water scenario without treatment)

\$1.7 million (for non-potable water scenario)

Provide source(s) of funding for above capital/up-front cost.

Click or tap here to enter text.

Provide Operations and Maintenance (O&M)/on-going cost (\$ per year).

\$57,000 (for potable water scenario with treatment)

\$46,000 (for potable water scenario without treatment)

\$29,000 (for non-potable water scenario)



**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**

COST INFORMATION

Provide source(s) of funding for above O&M/on-going cost.

Click or tap here to enter text.

SCHEDULE/TIMING INFORMATION

Provide expected kickoff/start date.

Click or tap here to enter text.

Provide timeframe to accrue expected supply/demand/other quantifiable benefits.

Click or tap here to enter text.

Or, Add as an attachment

ADDITIONAL DETAILS

Provide as necessary.

Click or tap here to enter text.

**Bay Area Water Supply & Conservation Agency
One Water Roundtable
Project Information Form**



ATTACHMENTS

Provide list of attachments:

Click or tap here to enter text.

Attachment D

Funding Sources Summary Tables

Funding Programs from the California Department of Water Resources (DWR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Solicitation opened 10/4/2022. Applications close 11/30/2022.	Sustainable Groundwater Management (SGM) Grant Program - Prop 68 Implementation Round 2	<ul style="list-style-type: none"> Grant award amounts per basin range from \$1 million to \$20 million 	<ul style="list-style-type: none"> Funding for Medium and High Priority Basins Only ONE application per Basin Goal is to achieve water balance in California where GSAs and other responsible entities work cooperatively and innovatively to manage surface and groundwater together in a holistic and integrated manner 	<ul style="list-style-type: none"> GSAs Member agencies of GSAs An entity that represents a GSA Agencies with an alternative to a GSP Entities that have adjudicated with or without a Watermaster 	<ul style="list-style-type: none"> Development of groundwater recharge projects Projects that prevent or clean up contamination of drinking water Projects that support water supply reliability, water conservation, and water use efficiency and water banking Geophysical investigation Early implementation of existing regional flood management plans Revisions & updates to a GSP Project must fill known data gaps and address comments received from DWR on submitted GSP
Solicitation opened 10/10/2022. Applications close 1/31/2023.	Urban Community Drought Relief Funding	<ul style="list-style-type: none"> \$300 million (split between urban community drought relief, turf replacement, conservation for urban suppliers, and program administration) 	<ul style="list-style-type: none"> Intended to provide water to communities that face contaminated or reduced water supplies, to address immediate impacts on human health and safety, and to protect fish and wildlife resources Minimum award amount of \$5 million per award. Smaller projects may be bundled together in a single application to meet the minimum grant award requirement. 	<ul style="list-style-type: none"> Public agencies Public utilities Special districts Colleges and universities Mutual water companies Non-profit organizations Regional water management groups California Native American Tribes 	<ul style="list-style-type: none"> Emergency water interties New wells or rehabilitation of existing wells Construction or installation of permanent connection to adjacent water systems Recycled water projects that provide immediate relief to potable water supplies Drought resilience planning Other projects that support immediate drought response Projects (e.g., groundwater recharge and ecosystem restoration) not explicitly identified may still be eligible if projects satisfy the criteria and eligibility outlines in the GL/PSP and address a drought impact
Released 5/17/2022. First deadline of applications 8/19/2022. Second deadline of applications 2/1/2023.	Integrated Regional Water Management Grant Programs	<ul style="list-style-type: none"> \$193 million total, \$29 million for San Francisco Bay Funding Area Local cost share of 50% but can be waived or reduced for projects that directly benefit the water management needs of a DAC or EDA 	<ul style="list-style-type: none"> Designed to encourage integrated regional water resource management strategies by providing funding for projects and programs that support integrated water management Funding areas can choose to apply by either deadline, but All Regions in a Funding Area must submit applications by the same deadline. 	<ul style="list-style-type: none"> Public agencies Non-profit organizations Public utilities Federally recognized Indian tribes State Indian tribes listed on the Native American Heritage Commission's Tribal Consultation list Mutual water companies 	<ul style="list-style-type: none"> Water reuse and recycling for non-potable reuse and direct and indirect potable reuse Water-use efficiency and water conservation Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects Regional water conveyance facilities that improve integration of separate water systems Watershed protection, restoration, and management projects, including projects that reduce risk of wildfire or improve water supply reliability

Funding Programs from DWR (con't)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served basis until all funds have been expended or until 12/29/2023	Small Community Drought Program	<ul style="list-style-type: none"> - \$305 million 	<ul style="list-style-type: none"> - Intended to offer immediate and near-term financial and technical assistance to small communities facing water supply challenges due to current drought 	<ul style="list-style-type: none"> - Small communities not served by an Urban Water Supplier (UWS is a public or privately owned supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually) 	<ul style="list-style-type: none"> - Provide reliable water storage - Improve water system storage - Replace aging and leaking water system infrastructure - Replace aging and leaking water system infrastructure - Provide backup power sources for water systems - Hauled water - Temporary community water tanks - Water vending machines - Emergency water interties

Funding Programs from the United States Environmental Protection Agency (EPA)

Since September 6, Letters of Interest can be submitted	Water Infrastructure Finance and Innovation Act (WIFIA)	<ul style="list-style-type: none"> - \$20 million is minimum project size for large communities - \$5 million is minimum project size for small communities - Maximum portion of eligible cost that WIFIA can fund is 49% 	<ul style="list-style-type: none"> - Accelerated investment in nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects - In a Letter of Interest, the prospective borrower provides information to demonstrate its projects eligibility, financial creditworthiness, engineering feasibility, and alignment with EPA's policy priorities. If EPA selects the projects, then the prospective borrower is invited to submit an application. 	<ul style="list-style-type: none"> - Local, state, tribal, and federal government entities - Partnerships and joint ventures - Corporations and trusts - Clean Water and Drinking Water State Revolving Fund programs 	<ul style="list-style-type: none"> - Wastewater conveyance and treatment projects - Drinking water treatment and distribution - Enhanced energy efficiency projects at drinking water and wastewater facilities - Brackish or seawater desalination, aquifer recharge, alternative water supply, and water recycling projects - Drought prevention, reduction, or mitigation projects - Desalination/aquifer recharge and water recycling projects - Acquisition of property if it's integral to the project or will mitigate the environmental impact of a project
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Funding Programs from the U.S Bureau of Reclamation (USBR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
WaterSMART Programs			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
Next funding opportunity is expected in Winter 2022	Water Marketing Strategy Grants	<ul style="list-style-type: none"> - Up to \$200k for projects to be completed in 2 years with a smaller project scope (Few partners involved, smaller geographic area, builds on prior work, etc.) - Up to \$400k for projects to be completed in 3 years with a larger project scope (more partners, larger geographic area, more complex water markets, etc.) - Non-federal cost share: 50% or greater 	<ul style="list-style-type: none"> - Funded through Bipartisan Infrastructure Law - Program objective: Water markets between willing buyers and sellers can be used to help water users meet demands efficiently in times of shortages, thereby helping prevent conflicts 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts - State, regional, or local authorities, which include one or more organizations with water or power delivery authority as members - Other organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Collaborative planning efforts to develop water markets to address water supply reliability and increase water management flexibility - Planning activities to develop water marketing strategies that establish or expand water markets or water marketing activities between willing participants - Planning activities that support the development of a water marketing strategy, this can include pilot activities if applicable - Projects must address the three required project components: Outreach, Scoping and planning, and Develop a strategy
Next funding opportunity is expected in Winter 2022	Environmental Water Resources Projects	<ul style="list-style-type: none"> - Up to \$5M for a large project to be completed within 3 years - Non-Federal Cost Share: 25-50% 	<ul style="list-style-type: none"> - Funding to support projects focused on environmental benefits that have been developed as part of a collaborative process to increase the reliability of water resources 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts, or other organizations with water or power delivery authority - State, regional, or local authorities, whose members include one or more organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values - Water management or infrastructure improvements to mitigate drought-related impacts to ecological values - Watershed management or restoration projects benefitting ecological values that have a nexus to water resources or water resources management - Broad project eligibility, but focus is on water management projects with environmental and ecological benefits and multi-benefit projects
Schedule for the FY23 funding opportunity is currently under development	Cooperative Watershed Management Program	<ul style="list-style-type: none"> - Up to \$200,000 may be awarded to an applicant per year, for a period of up to two years - No non-federal cost-share required 	<ul style="list-style-type: none"> - Funding to encourage diverse stakeholders to form local solutions to address their water management needs 	<ul style="list-style-type: none"> - States - Native American tribes - Local irrigation and water districts - Local government entities - Non-profit organizations 	<ul style="list-style-type: none"> - Funding for watershed group development, watershed restoration planning, and watershed management project design - Applicants could use funding to develop bylaws, a mission statement, complete stakeholder outreach, develop a watershed restoration plan, and watershed management project design

Funding Programs from the California State Water Resources Control Board (SWRCB)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served	<u>Water Recycling Funding Program (WRFP) - Planning Grant Application</u>	<ul style="list-style-type: none"> - Prop 1 provides \$625 million for recycled water projects - Prop 13 provided financial assistance through loans and grants for planning and construction activities - Prop 68 provided \$72 million in loans and grants for recycled water planning and construction 	<ul style="list-style-type: none"> - Goal of program is to promote the beneficial use of treated municipal wastewater (water recycling) in order to augment fresh water supplies in California by providing technical and financial assistance to agencies and other stakeholders in support of water recycling projects and research. 	<ul style="list-style-type: none"> - Local public agencies 	<ul style="list-style-type: none"> - Recycled wastewater feasibility studies - Planning for water recycling projects
First-come, first-served	<u>Water Recycling Funding Program (WRFP) - Construction Grant Application</u>			<ul style="list-style-type: none"> - Depending on the type of project, eligible groups include: <ul style="list-style-type: none"> - local public agencies - Non-profit organizations - Public utilities - Native American tribes - Mutual water companies 	<ul style="list-style-type: none"> - Construction of recycled water treatment facilities, storage facilities, pumping facilities, and groundwater recharge facilities - Construction of recycled water distribution systems, including onsite improvements - Development, Construction, and monitoring of a pilot-scale or demonstration-scale plant as part of the Construction of a full-scale treatment facility
First-come, first-served	<u>County-Wide and Regional Funding Programs</u>	<ul style="list-style-type: none"> - \$55 million 	<ul style="list-style-type: none"> - Need for regional programs that address drought-related and contamination issues for state small water systems and domestic well serving disadvantaged communities and low-income households. These needs are the primary focus for this funding, but proposals may also include work to address specific needs of public water systems 	<ul style="list-style-type: none"> - Counties - Non-governmental organization on behalf of one or more counties - Other public agencies on behalf of one or more counties - Grant recipients aid: <ul style="list-style-type: none"> - State smalls (<15 connections) serving a DAC - Domestic wells (<5 connections) serving low-income households - Potentially some services can be provided regardless of income (well sampling and bottled/hailed water for emergency drought response while longer-term solutions are implemented) 	<ul style="list-style-type: none"> - Assessment (community outreach, domestic well testing) - Interim solutions (bottled water, tanks and hauled water, kiosk filling stations) - Long-term solutions (well repairs and/or replacements, limited scale consolidation)

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<u>Site Cleanup Subaccount Program</u>	<ul style="list-style-type: none"> Annual appropriation of \$34 million through 2025 	<ul style="list-style-type: none"> Funding for projects that investigate the source of surface or groundwater contamination and/or remediate the harm or threat of harm to human health, safety, or the environment caused by existing or threatened surface or groundwater contamination 	<ul style="list-style-type: none"> Applicants with eligible projects Regulatory agency has issued a directive (unless this is infeasible) Responsible party lacks 	<ul style="list-style-type: none"> Projects may include site characterization, source identification, or implementation of cleanup
Ongoing	<u>Drinking Water State Revolving Fund (DWSRF) Program</u>	<ul style="list-style-type: none"> \$159 million 	<ul style="list-style-type: none"> Assists public water systems in financing the cost of drinking water infrastructure projects needed to achieve or maintain compliance with the Safe Drinking Water Act (SDWA) requirements 	<ul style="list-style-type: none"> Publicly-owned community water systems (e.g., counties, cities, districts) Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) Non-profit or publicly owned non-community water systems 	<ul style="list-style-type: none"> Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> Treatment systems Distribution systems Interconnections Consolidations Pipeline extensions Water sources Water meters Water storages
Ongoing	<u>Clean Water State Revolving Fund (CWSRF)</u>	<ul style="list-style-type: none"> \$127 million 	<ul style="list-style-type: none"> Provides low-cost financing to protect California's waters from pollution Offers below-market interest rates, 30-year financing, loan forgiveness, compatibility with other funding sources Financing limits: No maximum, but depends on available funding and applicant's ability to repay Repayment: Begins 1 year after completion of construction 	<ul style="list-style-type: none"> Public agencies Non-profit organizations Private entities Federally recognized tribes 	<ul style="list-style-type: none"> Constructing of publicly owned treatment works (POTWs) Nonpoint source projects National estuary program projects Decentralized wastewater treatment systems Stormwater projects Measures to reduce the demand for POTWs capacity through water conservation, efficiency, or reuse Development and implementation of watershed projects Measures to reduce the energy consumption needs for POTWs Water reuse projects Security measures at POTWs Provide technical assistance to owners and operators of small and medium sized publicly owned treatment works to plan, develop, and obtain financing for CWSRF eligible projects and to assist each treatment works in achieving compliance with the Clean Water Act



Funding Programs from the California Department of Water Resources (DWR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
<p>Released on 6/1/2022. Ongoing until all funds are awarded</p>	<p><u>DWR: Riverine Stewardship Program</u></p>	<ul style="list-style-type: none"> - Funded by Prop 13, \$13 million 	<ul style="list-style-type: none"> - Program supports fish passage improvements, and other similar projects to accomplish increased ecological, stream management, climate, and community improvement benefits - Program goals include: (1) protecting, restoring, and enhancing the natural environment of riparian systems. (2) supporting innovations in green infrastructure that support fish migration improvements, and habitat enhancement that benefit aquatic species, by reconnecting aquatic habitat to help fish and wildlife endure drought and adapt to climate change 	<ul style="list-style-type: none"> - Tribes, local public agencies, and certified nonprofits - Geographic limit of the “Delta export service area” and Counties within the Association of Bay Area Governments (Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma) - Areas of the state outside the Delta that receive water from the State Water Project or the Central Valley Project, either directly or by exchange, by means of diversions from the Delta 	<ul style="list-style-type: none"> - Eligible projects must support water quality and may include: - Innovative green infrastructure solutions that enhance water availability, groundwater storage, fish and wildlife habitat restoration, creation of cool water refugia, and address sedimentation or other water quality or water supply issues affecting fish and wildlife. - Fish-friendly intakes for agriculture diversions that can provide for fish passage while allowing for agricultural drainage and systems for better instream water quality benefits for fish. - Restore, conserve, or increase habitat and restore water flow through aquatic habitat to provide physical water quality and supply benefits to support fish and wildlife and restore ecological function. - Innovative fish passage solutions that remove barriers to fish migration or improve passage. - Innovative solutions to improve water conveyance and water loss within agricultural diversions to assist with increasing water supply needed to support native fishes and habitat. Increase or improve floodplain availability. - Habitat enhancement projects that benefit aquatic species, including reconnecting aquatic habitat to help fish and wildlife endure drought and adapt to climate change. - Gravel injection projects that support native fish populations. - Installation of green infrastructure that improve water quality from leachates that are lethal to threatened or endangered aquatic species
<p>First-come, first-served basis until all funds have been expended or until 12/29/2023</p>	<p><u>Small Community Drought Program</u></p>	<ul style="list-style-type: none"> - \$305 million 	<ul style="list-style-type: none"> - Intended to offer immediate and near-term financial and technical assistance to small communities facing water supply challenges due to current drought 	<ul style="list-style-type: none"> - Small communities not served by an Urban Water Supplier (UWS is a public or privately owned supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually) 	<ul style="list-style-type: none"> - Provide reliable water storage - Improve water system storage - Replace aging and leaking water system infrastructure - Provide backup power sources for water systems - Hauled water - Temporary community water tanks - Water vending machines - Emergency water interties

Funding Programs from the U.S Bureau of Reclamation (USBR)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
WaterSMART Programs			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
Opened on 12/23/2022, due on 2/28/2023	<u>Water Recycling and Desalination Planning</u>	<ul style="list-style-type: none"> - Total program funding: \$30 million - Max award: \$5 million - Min award: \$100,000 	<ul style="list-style-type: none"> - Water recycling and desalination are essential tools for stretching the limited water supplies in the Western United States - Water recycling projects develop and supplement urban and irrigation water supplies through water reuse—thereby improving efficiency, providing flexibility during water shortages, and diversifying the water supply 	<ul style="list-style-type: none"> - Special district governments - County governments - State governments - City or township governments - Native American tribal governments (Federally recognized) 	<ul style="list-style-type: none"> - Feasibility studies, planning activities, preliminary design and environmental compliance activities that support the development of water recycling and desalination projects that will supplement existing fresh water supplies in urban and agricultural areas in the Western United States
New funding opportunity anticipated in April 2023	<u>Drought Response Program</u>		<ul style="list-style-type: none"> - Program supports a proactive approach to drought by providing assistance to water managers to develop and update comprehensive drought plans and implement projects that will build long-term resiliency to drought 	<ul style="list-style-type: none"> - Native American tribal governments (Federally recognized) - State governments - City or township governments - Special district governments - County governments - Non-profits 	<ul style="list-style-type: none"> - Drought contingency planning: <ul style="list-style-type: none"> - Projects that develop a drought contingency plan or update an existing plan to meet the required elements described in the Drought Response Program Framework - Drought Resiliency Projects: <ul style="list-style-type: none"> - Projects that help communities prepare for and respond to drought. Typically, these types of projects are referred to as "mitigation actions" in a drought contingency plan. Eligible project types include: <ul style="list-style-type: none"> - Infrastructure improvements, modifying surface water intakes, and recharge, treatment, and storage facilities - Decision support tools, including drought forecasting tools, and water measurement and monitoring equipment - Emergency Response Actions: <ul style="list-style-type: none"> - Eligible actions are limited to temporary construction activities and other actions authorized under Title I that do not involve construction of permanent facilities, including water purchases and use of USBR facilities to convey and store water
FY23 funding opportunity expected in Spring 2023	<u>Applied Science Grants</u>	<ul style="list-style-type: none"> - Up to \$200,000 for projects to be completed within two years - Non-federal cost share of 50% or more of the total project cost 	<ul style="list-style-type: none"> - Program to provide financial assistance for projects to develop hydrologic information and water management tools and improve modeling and forecasting capabilities. 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts, or other organizations with water or power delivery authority - Universities - Non-profits 	<ul style="list-style-type: none"> - Improved hydrologic modeling, forecasting tools, and/or GIS and data management - Projects to enhance modeling capabilities to improve water supply reliability and increase flexibility in water operations - Projects to improve or adapt forecasting tools and technologies to enhance management of water supplies and reservoir operations - Projects to improve access to and use of water resources data, or to develop new types of data to inform water management decisions

Funding Programs from USBR cont'd

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
<p align="center">WaterSMART Programs</p>			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
<p>Next funding opportunity is expected in Winter 2023</p>	<p><u>Water Marketing Strategy Grants</u></p>	<ul style="list-style-type: none"> - Up to \$200k for projects to be completed in 2 years with a smaller project scope (Few partners involved, smaller geographic area, builds on prior work, etc.) - Up to \$400k for projects to be completed in 3 years with a larger project scope (more partners, larger geographic area, more complex water markets, etc.) - Non-federal cost share: 50% or greater 	<ul style="list-style-type: none"> - Funded through Bipartisan Infrastructure Law - Program objective: Water markets between willing buyers and sellers can be used to help water users meet demands efficiently in times of shortages, thereby helping prevent conflicts 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts - State, regional, or local authorities, which include one or more organizations with water or power delivery authority as members - Other organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Collaborative planning efforts to develop water markets to address water supply reliability and increase water management flexibility - Planning activities to develop water marketing strategies that establish or expand water markets or water marketing activities between willing participants - Planning activities that support the development of a water marketing strategy, this can include pilot activities if applicable - Projects must address the three required project components: Outreach, Scoping and planning, and Develop a strategy
<p>Opened on 1/24/2023. Applications due 3/28/2023</p>	<p><u>Environmental Water Resources Projects</u></p>	<ul style="list-style-type: none"> - Program funding is allocated through a competitive processes - Applicants may request federal funding up to \$3 million for projects with total project costs of \$6 million or less to be completed within 3 years. - Projects that increase water supply reliability for ecological value and developed as part of a collaborative process may be eligible to receive up to 75% Federal cost share contribution 	<ul style="list-style-type: none"> - Funding to support projects focused on environmental benefits that have been developed as part of a collaborative process to increase the reliability of water resources - Projects that provide benefits to multiple sectors, including projects that benefit ecological values or watershed health and agricultural, municipal, tribal, or recreation water uses, are encouraged and prioritized. 	<ul style="list-style-type: none"> - States - Native American tribes - Irrigation districts - Water districts, or other organizations with water or power delivery authority - State, regional, or local authorities, whose members include one or more organizations with water or power delivery authority 	<ul style="list-style-type: none"> - Water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values - Water management or infrastructure improvements to mitigate drought-related impacts to ecological values - Watershed management or restoration projects benefitting ecological values that have a nexus to water resources or water resources management - Broad project eligibility, but focus is on water management projects with environmental and ecological benefits and multi-benefit projects
<p>FY23 funding opportunity is scheduled for Summer 2023</p>	<p><u>Cooperative Watershed Management Program – Phase I</u></p>	<ul style="list-style-type: none"> - Up to \$200,000 may be awarded to an applicant per year, for a period of up to two years - No non-federal cost-share required 	<ul style="list-style-type: none"> - Funding to encourage diverse stakeholders to form local solutions to address their water management needs 	<ul style="list-style-type: none"> - States - Native American tribes - Local irrigation and water districts - Local government entities - Non-profit organizations 	<ul style="list-style-type: none"> - Funding for watershed group development, watershed restoration planning, and watershed management project design - Applicants could use funding to develop bylaws, a mission statement, complete stakeholder outreach, develop a watershed restoration plan, and watershed management project design



Funding Programs from USBR cont'd

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
WaterSMART Programs			<ul style="list-style-type: none"> - Increases water supply reliability through investments and attention to local water conflicts - Supports water conservation and water management improvements to help meet competing demands for water - Relies on collaboration with stakeholders to develop local solutions to water supply issues 		
Next funding opportunity is expected in Summer 2023	<u>Desalination Construction</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost, up to \$30 million - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Funding for planning, design, and construction of Water Infrastructure Improvements for the Nation (WIIN) Act brackish groundwater and ocean desalination projects 	<ul style="list-style-type: none"> - Sponsors of desalination with completed feasibility studies that have been submitted to Reclamation for review 	<ul style="list-style-type: none"> - Planning, design, and construction of ocean or brackish water desalination projects
Next funding opportunity is expected in Spring 2023	<u>Large-Scale Water Recycling Projects</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Funding for planning, design, and construction of Large-Scale Water Recycling Projects with a total project cost greater than \$500 million 	<ul style="list-style-type: none"> - Sponsors of water recycling projects with a total project cost greater than \$500 million with completed feasibility studies that have been submitted to Reclamation for review. 	<ul style="list-style-type: none"> - Projects will become eligible to compete for funding once Reclamation has reviewed a feasibility study submitted by the non-Federal project sponsor and has informed Congress that the project meets Reclamation's requirements
Next funding opportunity is expected in Summer 2023	<u>Title XVI Authorized Projects</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost, up to \$20 million, unless otherwise specified by Congress - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Program includes funding for the planning, design, and construction of water recycling and reuse projects in partnership with local government entities 	<ul style="list-style-type: none"> - Sponsors of water reclamation and reuse projects specifically authorized for funding under Title XVI of P.L. 102-575 	<ul style="list-style-type: none"> - Planning, design, and construction of water recycling and reuse projects
Next funding opportunity is expected in Summer 2023	<u>Title XVI WIIN Act Water Reclamation and Reuse Projects</u>	<ul style="list-style-type: none"> - Federal funding is limited to 25% of the total project cost, up to \$30 million - Non-Federal Cost Share of 75% or greater 	<ul style="list-style-type: none"> - Funding for planning, design, and construction of Water Infrastructure Improvement for the Nation (WIIN) Act water recycling and reuse projects 	<ul style="list-style-type: none"> - Sponsors of water reclamation and reuse projects with completed feasibility studies that have been submitted to Reclamation for review 	<ul style="list-style-type: none"> - Planning, design, and construction of water recycling and reuse projects

Funding Programs from the California State Water Resources Control Board (SWRCB)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served	Water Recycling Funding Program (WRFP) - Planning Grant Application	<ul style="list-style-type: none"> - Prop 1 provides \$625 million for recycled water projects - Prop 13 provided financial assistance through loans and grants for planning and construction activities 	<ul style="list-style-type: none"> - Program purpose is for local public agencies to investigate the feasibility of recycling wastewater and assist them with completing planning for water recycling projects by supplementing local funds 	<ul style="list-style-type: none"> - Local public agencies 	<ul style="list-style-type: none"> - Recycled wastewater feasibility studies - Planning for water recycling projects - Generally, all costs necessary to determine the feasibility of using recycled water and to select an alternative to offset or augment the use of fresh/potable water from state or local supplies may be eligible for the planning grant. The Plan of Study will be used to determine the costs eligible for grant funding - Each proposed study must be distinct from previous WRFP grant funded studies. The applicant should confer with Division staff before applying for additional planning grants to ensure that new studies are distinct and eligible
First-come, first-served	Water Recycling Funding Program (WRFP) - Construction Grant Application	<ul style="list-style-type: none"> - Prop 68 provided \$72 million in loans and grants for recycled water planning and construction - Maximum grant amount per project: <ul style="list-style-type: none"> - Planning grant - \$500,000 - Construction grant - \$15 million 	<ul style="list-style-type: none"> - Water recycling construction projects must offset or augment state or local fresh water supplies - A water recycling construction project may receive any combination of grant and loan financing available to the State Water Board for which it is eligible - The applicant must separate the eligible and ineligible costs in application documents and its disbursement requests, as appropriate. 	Depending on the type of project, eligible groups include: <ul style="list-style-type: none"> - local public agencies - Non-profit organizations - Public utilities - Native American tribes - Mutual water companies 	<ul style="list-style-type: none"> - Construction of recycled water treatment facilities, storage facilities, pumping facilities, and groundwater recharge facilities - Construction of recycled water distribution systems, including onsite improvements - Development, construction, and monitoring of a pilot-scale or demonstration-scale plant as part of the Construction of a full-scale treatment facility - Construction of recycled water distribution systems, including onsite improvements - Planning, design, construction management, value engineering, and administration directly related to project implementation - Reasonable costs to provide an emergency backup water supply for the recycled water system. - Contingency for change orders approved by the Division for increased costs, provided the costs are eligible and consistent with the original scope of the project

Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
First-come, first-served	<u>County-Wide and Regional Funding Programs (Safe and Affordable Funding for Equity and Resilience [SAFER])</u>	<ul style="list-style-type: none"> - \$55 million 	<ul style="list-style-type: none"> - Need for regional programs that address drought-related and contamination issues for state small water systems and domestic well serving disadvantaged communities and low-income households. These needs are the primary focus for this funding, but proposals may also include work to address specific needs of public water systems 	<ul style="list-style-type: none"> - Counties - Non-governmental organization on behalf of one or more counties - Other public agencies on behalf of one or more counties - Grant recipients aid: <ul style="list-style-type: none"> - State smalls (<15 connections) serving a DAC - Domestic wells (<5 connections) serving low-income households - Potentially some services can be provided regardless of income (well sampling and bottled/hailed water for emergency drought response while longer-term solutions are implemented) 	<ul style="list-style-type: none"> - Assessment (community outreach, domestic well testing) - Interim solutions (bottled water, tanks and hauled water, kiosk filing stations) - Long-term solutions (well repairs and/or replacements, limited scale consolidation)
Ongoing	<u>Groundwater: Site Cleanup Subaccount Program</u>	<ul style="list-style-type: none"> - Annual appropriation of \$34 million through 2025 	<ul style="list-style-type: none"> - Funding for projects that investigate the source of surface or groundwater contamination and/or remediate the harm or threat of harm to human health, safety, or the environment caused by existing or threatened surface or groundwater contamination - No cost match requirement 	<ul style="list-style-type: none"> - Applicants with eligible projects - Regulatory agency has issued a directive (unless this is infeasible) - Responsible party lacks financial resources 	<ul style="list-style-type: none"> - Projects may include site characterization, source identification, or implementation of cleanup



Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<u>Small Community Wastewater (SCWW) Funding</u>	<ul style="list-style-type: none"> - \$600 million as part of the Clean Water State Revolving Fund 	<ul style="list-style-type: none"> - Grants available through the Small Community Grant Wastewater program - Grants and principal forgiveness may be available to eligible applicants serving disadvantaged communities - Interest rate may vary each calendar year; it is 50% of the average interest rate paid by the state on general obligation bonds issued in the prior calendar year. Lower interest rates may be available to facility's serving small, disadvantaged communities through the Clean Water State Revolving Fund (CWSRF) - Loan Repayment Term: up to 30 years or useful life of the project - Loan Repayment: Begins within one year after project completion 	<ul style="list-style-type: none"> - Nonprofits, public agencies, tribal governments - Applicants must serve small (less than 20,000) communities qualifying as a DAC or SDAC 	<ul style="list-style-type: none"> - Planning/design and construction of wastewater infrastructure projects including: <ul style="list-style-type: none"> - Wastewater treatment - Septic to sewer conversions - Regionalization - Local sewers - Sewer interceptors - Wastewater reclamation and distribution - Stormwater treatment - Combined sewers - Landfill leachate treatment
First-come, first-served	<u>Small Community Drinking Water Funding</u>	<ul style="list-style-type: none"> - \$300 million as part of the Drinking Water State Revolving Fund 	<ul style="list-style-type: none"> - To help small DACs, providing service to less than 10,000 people and having a median household income (MHI) of less than 80% the statewide MHI, implement eligible drinking water capital improvement projects 	<ul style="list-style-type: none"> - Publicly-owned community water systems (e.g., counties, cities and districts) - Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) - Non-profit or publicly-owned non-community water systems (e.g., public school districts) - Community water systems created by the project 	<ul style="list-style-type: none"> - Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> - Treatment systems - Distribution systems - Interconnections - Consolidations - Pipeline extensions - Water sources - Water meters - Water storage tanks



Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<u>Drinking Water State Revolving Fund (DWSRF) Program</u>	- \$650 million	<ul style="list-style-type: none"> - Assists public water systems in financing the cost of drinking water infrastructure projects needed to achieve or maintain compliance with the Safe Drinking Water Act (SDWA) requirements 	<ul style="list-style-type: none"> - Publicly-owned community water systems (e.g., counties, cities, districts) - Privately-owned community water systems (e.g., for-profit water utilities, non-profit mutual water companies) - Non-profit or publicly owned non-community water systems 	<ul style="list-style-type: none"> - Planning/design and construction of drinking water infrastructure projects including: <ul style="list-style-type: none"> - Treatment systems - Distribution systems - Interconnections - Consolidations - Pipeline extensions - Water sources - Water meters - Water storages
Ongoing	<u>Clean Water State Revolving Fund (CWSRF)</u>	- \$650 million	<ul style="list-style-type: none"> - Provides low-cost financing to protect California's waters from pollution - Offers below-market interest rates, 30-year financing, loan forgiveness, compatibility with other funding sources - Financing limits: No maximum, but depends on available funding and applicant's ability to repay - Repayment: Begins 1 year after completion of construction 	<ul style="list-style-type: none"> - Public agencies - Non-profit organizations - Private entities - Federally recognized tribes 	<ul style="list-style-type: none"> - Constructing of publicly owned treatment works (POTWs) - Nonpoint source projects - National estuary program projects - Decentralized wastewater treatment systems - Stormwater projects - Measures to reduce the demand for POTWs capacity through water conservation, efficiency, or reuse - Development and implementation of watershed projects - Measures to reduce the energy consumption needs for POTWs - Water reuse projects - Security measures at POTWs - Provide technical assistance to owners and operators of small and medium sized publicly owned treatment works to plan, develop, and obtain financing for CWSRF eligible projects and to assist each treatment works in achieving compliance with the Clean Water Act



Funding Programs from the SWRCB (cont'd)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Ongoing	<p><u>Technical Assistance (TA) Funding Program</u></p>	<ul style="list-style-type: none"> - Prop 1 is funding source 	<ul style="list-style-type: none"> - TA is available to help small DACs develop, fund, and implement eligible drinking water, wastewater, stormwater, or groundwater needs. - Stormwater resources are limited, not currently accepting new communities for stormwater TA, but can submit a request for future consideration as resources allow 	<ul style="list-style-type: none"> - Small DACS <ul style="list-style-type: none"> - Small community is defined as having a population less than 10,000 people - Disadvantaged community is defined as median household income (MHI) < 80% of the statewide MHI - Requests relating to one or more of the following will generally be given priority: <ul style="list-style-type: none"> - Systems that are out of compliance or experiencing insufficient water delivery capabilities; extension of service for drought/contamination impacted communities; - Consolidation projects - Systems serving less than 200 connections - Applicants with small or relatively low-cost needs that will enable an otherwise complete funding application to move forward 	<ul style="list-style-type: none"> - Coordination and development of capital improvement projects - Facilitation of operation and maintenance - Engineering and environmental analysis - Legal assistance - Leak detection/water audits - Compliance audits - Financial analysis - Technical managerial and financial (TMF) assessments - Board or operator training

Funding Programs from the United States Environmental Protection Agency (EPA)

Status	Funding Program	Funding Available	Details	Who is eligible?	What projects are eligible?
Since September 6, Letters of Interest can be submitted	Water Infrastructure Finance and Innovation Act (WIFIA)	<ul style="list-style-type: none"> - \$20 million is minimum project size for large communities - \$5 million is minimum project size for small communities - Maximum portion of eligible cost that WIFIA can fund is 49% 	<ul style="list-style-type: none"> - Accelerated investment in nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects - In a Letter of Interest, the prospective borrower provides information to demonstrate its projects eligibility, financial creditworthiness, engineering feasibility, and alignment with EPA's policy priorities. If EPA selects the projects, then the prospective borrower is invited to submit an application. 	<ul style="list-style-type: none"> - Local, state, tribal, and federal government entities - Partnerships and joint ventures - Corporations and trusts - Clean Water and Drinking Water State Revolving Fund programs 	<ul style="list-style-type: none"> - Wastewater conveyance and treatment projects - Drinking water treatment and distribution - Enhanced energy efficiency projects at drinking water and wastewater facilities - Brackish or seawater desalination, aquifer recharge, alternative water supply, and water recycling projects - Drought prevention, reduction, or mitigation projects - Desalination/aquifer recharge and water recycling projects - Acquisition of property if it's integral to the project or will mitigate the environmental impact of a project

Funding Programs from the California Infrastructure and Economic Development Bank (IBank)

Ongoing	Infrastructure State Revolving Fund (ISRF) Program	<ul style="list-style-type: none"> - Ranging from \$1 million to \$65 million 	<ul style="list-style-type: none"> - Program provides low-cost, direct loans to local governments and nonprofits sponsored by public agencies for a wide variety of public infrastructure and economic expansion projects (excluding housing) that improve and sustain communities 	<ul style="list-style-type: none"> - Must be located in California and include any subdivision of a local government (including cities, counties, special districts, assessment districts, joint powers authorities, and non-profits sponsored by a government entity 	<ul style="list-style-type: none"> - Eligible projects (including, but not limited to): <ul style="list-style-type: none"> - Streets, highways, and public transit - Water, sewage, and solid waste - Ports, parks, and recreational facilities - Organic-recycling projects - Zero emissions vehicle fleets, maintenance vehicles, school buses, charging stations - Infrastructure related to housing
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