

**NORTH BAY WATER REUSE AUTHORITY
TECHNICAL ADVISORY COMMITTEE**

Tuesday, January 11, 2022

Agenda

10:00 AM

Zoom Meeting: <https://us02web.zoom.us/j/89329710788>

	1.		Call to Order and Self Introductions
	2.	Action	Approval of Agenda
	3.		Public Comments
Page 2	4.	Information	Summary of Direction from the NBWRA Board
Page 3	5.	Action	TAC Organization – Selection of a Chair and Vice Chair
Page 4	6.	Discussion	Activities of NBWRA and NBWA – Potential Duplicative Efforts
Pages 5 – 7	7.	Discussion	TAC Recommendations on Resilience Arenas <ul style="list-style-type: none">• Recycled Water• Potable Reuse• Coordinated Drought Response• Sea Level Rise Adaptation
Page 8	8.	Action	TAC Reports to the Board on Item No. 7, Resilience Arenas
Pages 9 – 10	9.	Discussion	Other Possible Resilience Arenas and Funding Opportunities
	10.	Action	Next Meeting

ITEM NO. 4 SUMMARY OF DIRECTION FROM NBWRA BOARD

Action Requested

None at this time.

Summary

At the November 29, 2021 Board meeting, the Board discussed the TAC and concluded that the TAC needs to be active in reviewing issues and bringing recommendations to the Board. Recommendations would include projects, budgets, cost sharing, and MOU modifications.

The Board approved the following Recommendations:

- Request the Board to formally reestablish the TAC to review issues and provide recommendations to agency boards and the NBWRA Board.
- Have the TAC elect a Chair and Vice Chair to be responsible for running TAC meetings and reporting to the Board.
- Set up a schedule through 2022 for both the Board and TAC with the TAC meeting before Board meetings.
- The consultant team offer its assistance to the TAC (and ultimately to the Board) in terms of preparing TAC agendas, reports and recommendations for Board consideration.

Recommendation

It is recommended that the TAC discuss organization moving forward and select a Chair and Vice Chair as noted in Item No. 5.

ITEM NO. 5 TAC ORGANIZATION – SELECTION OF A CHAIR AND VICE CHAIR

Action Requested

Select a Chair and Vice Chair.

Summary

One of the approved recommendations from the Board from the November 29, 2021 meeting was to have the TAC elect a Chair and Vice Chair to be responsible for running TAC meetings and reporting to the Board. In 2016, the Chair was Tim Healy, Napa Sanitation District, and the Vice Chair was Pam Jeane, Sonoma Valley County Sanitation District.

Recommendation

It is recommended that the TAC discuss and select a Chair and Vice Chair for moving forward.

ITEM NO. 6 ACTIVITIES OF NBWRA AND NBWA – POTENTIAL DUPLICATIVE EFFORTS

Action Requested

Discuss the roles and responsibilities of NBWRA and NBWA and determine how to avoid duplicative efforts.

The November 5, 2021 summary of the North Bay Watershed Association Board meeting included the following:

NBWA convened a Regional Leaders/General Managers meeting on October 28, 2021, launching development of a Regional One Water Drought Project Strategy and Funding Initiative

Broadly beneficial goal of identifying and executing creative and strategic one water solutions that prepare the North Bay for the next drought by prioritizing and implementing projects

Summary Outline Notes:

One Water portfolio approach for the north bay

- *Organized by scale and types of projects*
- *Coordinate/bundle climate adaptation projects*
- *Distinguish missions & align NBWA/NBWRA initiatives*

Support development and completion of regional feasibility studies

- *Flood/Stormwater and water supply*
- *Indirect and Direct Potable Reuse (IPR/DPR)*
- *Aquifer Storage and Recovery (ASR)*

Convene land use agencies and water/wastewater service agencies

- *Strategize for expanded housing mandates*
- *Land use/housing nexus for infrastructure improvements and water delivery*

Outreach

- *Empowering people to understand ways to contribute at home and at work*

Many of the agencies and attendees participate in both NBWRA and NBWA, and since the topics overlap, there is the potential for duplicative efforts, which might delay progress as well as cost more than necessary to achieve desired goals. The TAC should discuss this issue and develop a recommendation for the Board to consider at its February 28, 2022 meeting.

Recommendation

Provide a recommendation for the NBWRA Board to avoid duplicative efforts with NBWA.

ITEM NO. 7 TAC RECOMMENDATIONS ON RESILIENCE ARENAS**Action Requested**

Consider recommendations for the NBWRA Board on the four resilience arenas moving forward.

Summary

As a reminder, copied below is a brief description of the four resilience areas from the November 29, 2021 Board meeting:

- Recycled Water – continue to support ongoing efforts to implement recycled water projects in the region
- Potable Reuse – explore conjunctive use opportunities through the implementation of indirect and direct potable reuse
- Coordinated Drought Response Planning – consider development of regional based drought response
- Sea Level Rise Adaptation – identify strategies to mitigate the adverse effects of sea level rise to critical infrastructure in the region

For Recycled Water, the Phase 2 project is essentially ready to go pending direction from the TAC and Board. There is adequate funding available to complete the environmental documentation and to submit an application for Title 16 Funding.

For Potable Reuse, please refer to the draft outline of an NBWRA Potable Reuse Regional Study that was prepared by Dawn Taffler, Kennedy Jenks Consultants. A regional potable reuse study would be timely given the results of the survey as well as the drought conditions that have been impacting all NBWRA member agencies.

Outlines for other region or subregional resilience arena efforts can be developed by the consultant team based on recommendations from the TAC and Board.

Recommendation

The TAC should discuss the Potable Reuse Regional Study outline and consider recommendations for that study as well as other resilience arena projects for the Board as noted in Agenda Item No. 8. In addition, the TAC should consider a recommendation for

NBWRA Potable Reuse Regional Study

Development of a NBWRA Potable Reuse Regional Study (Study) would be a regional effort to study potable reuse opportunities in the North Bay. The NBWRA Member Agencies first came together in 2002 to develop a program that used a multiple-benefit approach to identify how to best serve the region's urban, agricultural and environmental needs using non-potable recycled water. This Study would similarly explore opportunities on how to best augment potable supplies with purified water through a Potable Reuse Program.

Together, the NBWRA Member Agencies have recognized that regional collaboration offers opportunities to address multiple water supply and wastewater challenges, while realizing the benefits of shared infrastructure, asset recovery, economies of scale, and a more competitive strategy to pursue funding, in addition to enhancing regional self-reliance through integrated water management.

Objective of Study: to identify existing and in-progress potable reuse concepts being explored independently by NBWRA Agencies and explore regional potable reuse concepts that could realize multiple benefits.

Goal of Study: through collaborative screening and ranking process, to identify regional potable reuse concepts and provide the NBWRA Agencies with sufficient information to determine the next steps for viable projects of interest and an overarching outreach message to communicate with the public.

Scope of Work – High Level Outline

Task	Description	Deliverables	Input Needed
Task 1. Prior and Current Studies	Identify existing and in-progress studies by NBWRA agencies related to potable reuse. Identify synergies between studies.	Summary table of studies (e.g. objectives, level of effort, source supply, type/place of use)	NBWRA agencies provide relevant studies and updates of ongoing studies in progress.
Task 2. Supply and Demands	Summarize available ww/rw supplies and potable demands for NBWRA agencies	Summary table/map and supply and demands.	UWMP tables supplemented by other data (if needed).
Task 3. Regulatory Overview	Describe multi-barrier approach to reuse and existing regs for IPR/DPR	Summary of regulatory requirements, incl. treatment, discharge requirements, and institutional agreements	NBWRA Agencies identify/provide applicable permits and agreements.
Task 4. Potable Reuse Concepts	Describe local and regional IPR/DPR concepts at a high level (considerations, not conveyance)	Summary tables/maps identifying key components of concepts	NBWRA Agencies identify preferred local projects from prior/ongoing studies. Charrette to identify potential regional concepts.

Task	Description	Deliverables	Input Needed
Task 5. Screening Approach	Two step approach to (1) screen concepts to create alternatives (2) score, weight and rank alternatives	Summary tables: criteria to screen concepts, alternatives for further evaluation, criteria to score, weight and rank alternatives	Workshops to discuss criteria development, screening outcomes for concepts and alternatives for further analysis.
Task 5. Regional Alternative Evaluation	Identify key infrastructure, conveyance and environmental considerations for regional alternatives.	Summarize facilities, benefits and limitations	Workshop to discuss facility preferences, benefits and limitations
Task 6. Preliminary Costs	Prepare concept level costs for all alternatives.	Table/Graphs illustrating capital, O&M and annualized unit costs.	Cost input from NBWRA Agencies, recent bids, and cost data from prior/ongoing studies.
Task 7. Regional Alternative Ranking	Apply criteria to score, weight and rank alternatives. Potential next steps to further explore most viable options.	Ranking matrix with sensitivity analysis. Road map with triggers to initiate next steps. Potential schedule for potable reuse implementation for top ranked alternatives.	Workshops to discuss scoring, weighting and ranking of regional alternatives. (A preferred alternative may not be identified at this stage).
Task 8. Path to Public Support	Overview of available resources and strategies for public outreach	Framework for regional public outreach and communication	NBWRA Agencies share existing outreach strategies. Workshop to solicit input on regional messaging and strategy
Task 9. NBWRA Potable Reuse Regional Study	Document work from Tasks 1-8, including a summary of technical, financial, institutional findings and next steps	Admin Draft, Draft and Final Report.	NBWRA Agencies review and provide consolidated comments
Task 10. Meetings	Regular check in meetings with TAC, agency specific meetings for local alternatives, NBWRA board meetings to present outcomes	Meeting materials, including agendas, presentations, and minutes	NBWRA Agencies attend and contribute at meetings
Task 11. Project Management and QA/QC	Setup, invoicing, internal coordination	Status reports and monthly invoice	

ITEM NO. 8 TAC REPORTS TO THE BOARD ON ITEM NO. 7, RESILIENCE AREAS

Action Requested

The TAC should discuss the process for providing recommendation to the Board regarding resilience arena projects.

Summary

Since it has been several years since the TAC provided recommendations to the Board, the TAC should discuss the process for moving forward. The consultant team can provide draft reports for the TAC to consider, but the actual reporting should come from the TAC. A draft Potable Reuse Regional Study was discussed in the last agenda item and it could serve as a test case for moving forward. The TAC may decide to recommend other potential studies and projects as well. This could also include moving forward with Phase 2.

Recommendation

It is recommended that the TAC provide a recommendation to the Board on the Potable Reuse Regional Study, Phase 2, as well as other resilience arena studies and projects.

ITEM NO. 9 OTHER POSSIBLE RESILIENCE ARENAS AND FUNDING OPPORTUNITIES

Action Requested

None at this time.

Summary

The state and federal governments are actively trying to make funds available for a variety of water related projects. Many of these have been discussed in recent Board and TAC meetings. On January 4, 2022 DWR sent an email describing six federal and state grant-related opportunities with DWR and other agencies. These included the following:

1. California Hazard Mitigation Grant Program Notice of Funding Opportunity <https://www.caloes.ca.gov/RecoverySite/Documents/HMGP%20NOFO%20-%202012.14.21.pdf>
2. The Department of Water Resources (DWR) is pleased to release the final 2021 SGMA Implementation Guidelines (2021 Guidelines) and Proposal Solicitation Package (PSP). The two documents can be located on the SGM Grant Program's website at www.water.ca.gov/sgmgrants.
3. Regional Integrated Science and Assessments (RISA) and Adaptation Sciences (AdSci)FY2022 Notice of Funding Opportunity [Notice of Funding Opportunity \(PDF\)](#)
4. California Hazard Mitigation Grant Program Notice of Funding Opportunity <https://www.caloes.ca.gov/RecoverySite/Documents/HMGP%20NOFO%20-%202012.14.21.pdf>
5. The California Department of Transportation (Caltrans) developed the Clean California Local Grant Program as part of a two-year program through which approximately \$296 million in funds will go to local communities to beautify and improve local streets and roads, tribal lands, parks, pathways, and transit centers to clean and enhance public spaces. Through the combination of adding beautification measures and art in public spaces along with the removal of litter and debris, this effort will enhance communities and improve spaces for walking and recreation. View the [Clean California Local Grant Program Factsheet \(PDF\)](#) and <https://cleancalifornia.dot.ca.gov/local-grants/workshops-milestones> for more information.
6. California Grants Portal
 Sign up to receive information about newly added state grant opportunities delivered to your inbox. <https://www.grants.ca.gov/subscribe-to-updates/>

In addition, there may be funding available from CalRecycle for agencies interested in codigestion of food waste.

The message from all of this is that there is money available and NBWRA and its member agencies could be well positioned for regional projects.

Page 2

Agenda Explanation
North Bay Water Reuse Authority
Technical Advisory Committee
January 11, 2022

Recommendation

None at this time.