



NOTICE OF THE BOARD OF DIRECTORS REGULAR MEETING - AMENDED

Tuesday, October 10, 2023 at 6:00 PM

AGENDA

LOCATIONS:

Open Session to start at or after 6:30 p.m.

Marin Water Board Room – 220 Nellen Avenue, Corte Madera, CA 94925

Outside location for Director Monty Schmitt – Jug Handle Creek Farm and Nature Center Meeting Room, 15501 CA-1, Caspar, CA 95420

Closed Session begins at 6:00 p.m.

Marin Water Mt. Tam Conference Room, 220 Nellen Avenue, Corte Madera, CA 94925

Public Participation:

The public may attend this meeting in-person or remotely using one of the following methods:

On a computer or smart device, go to: <https://us06web.zoom.us/j/88134852296>

By phone, dial: (Amended) 1-669-444-9171 and use Webinar ID: 881 3485 2296

HOW TO PROVIDE PUBLIC COMMENT:

During the Meeting: Typically, you will have 3 minutes to make your public comment, however, the board president may shorten the amount of time for public comment due to a large number of attendees. Furthermore, pursuant to Government Code, section 54954.2 (the Brown Act), the Board may not take action or discuss any item that does not appear on the agenda.

-- **In-Person Attendee:** Fill out a speaker card and provide to the board secretary. List the number/letter (ex: 6a) of the agenda item(s), for which you would like to provide a comment. Once you're called, proceed to the lectern to make your comment.

-- **Remote Attendee:** Use the "raise hand" button on the bottom of the Zoom screen. If you are joining by phone and would like to comment, press *9. The board secretary will use the last four digits of your phone number to call on you (dial *6 to mute/unmute).

In Advance of the Meeting: Submit your comments by email in advance of the meeting to boardcomment@marinwater.org. To ensure that your comment is provided to the Board of Directors prior to the meeting, please email your comment 24 hours in advance of the meeting start time. Comments received after this cut off time will be sent to the Board after the meeting. Please do not

include personal information in your comment such as phone numbers and home addresses.

AGENDA ITEMS:

- 1. Call to Order and Roll Call**
- 2. Adoption of Agenda**
- 3. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s)**

Following announcement of Closed Session items and prior to recess into Closed Session, the public may speak up to three minutes on items to be addressed in Closed Session. The Board will convene to Closed Session in the Mt. Tam Conference Room after public comment.

a. Conference With Real Property Negotiators

(California Government Code 54956.7)

Property: Mt. Tamalpais Telecommunications Site, Marin County Assessor's Parcel Numbers 197-120-21 and 197-120-40

Agency Negotiator: Ben Horenstein, General Manager

Negotiating Parties: Justin White, American Tower Corporation

Under Negotiation: Price and Terms of Lease Termination Agreement

Adjourn closed session and reconvene to open session in the Board Room and via Zoom.

4. Reconvene to Open Session; Closed Session Report Out

5. Public Comment on Non-Agenda Matters

This is the time when any person may address the Board of Directors on matters not listed on this agenda, but which are within the subject matter jurisdiction of the Board.

6. Directors' and General Manager's Announcements (6:40 p.m. – Time Approximate)

7. Consent Items (6:45 p.m. – Time Approximate)

All Consent Items will be enacted by a single action of the Board, unless specific items are pulled from Consent by the Board during adoption of the agenda for separate discussion and action.

- a.** Minutes of the Board of Directors' Special Meeting of September 12, 2023 and Regular Meeting of September 19, 2023

Recommendation: Approve the minutes of the Board of Directors' Special Meeting of September 12, 2023 and Regular meeting of September 19, 2023

- b.** Professional Services Agreement for Petaluma River Brackish Desalination Investigation with Kennedy/Jenks Consultants, Inc.

Recommendation: Authorize the General Manager to finalize a Professional Services Agreement with Kennedy/Jenks Consultants, Inc. not to exceed \$124,643 to investigate subsurface conditions and feasibility of desalination of the Petaluma River near San Pablo Bay

- c.** Grant of Easement for Sanitary Sewer Lateral – Spring Lane Tanks site, Tiburon

Recommendation: Authorize General Manager to execute an Easement Agreement conveying an easement for private sanitary sewer piping to Peter Winterhof, owner of 9 Stevens Court, Tiburon

8. Regular Items (6:50 p.m. – Time Approximate)

a. Overview of Website Homepage Improvements and Meetings/Agendas Hub

Recommendation: Receive staff update on website homepage improvements and the new Meetings/Agendas Hub

b. Water Supply Roadmap Update

Recommendation: Receive staff update on Water Supply Roadmap Projects

9. Future Board and Committee Meetings and Upcoming Agenda Items

This schedule lists upcoming board and committee meetings as well as upcoming agenda items for the next month. The schedule is tentative and subject to change pending final publication and posting of the meeting agendas.

a. Upcoming Meetings

10. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s) - NONE

11. Reconvene to Open Session; Closed Session Report Out - Not Applicable.

12. Adjournment (7:50 p.m. – Time Approximate)

ADA NOTICE AND HEARING-IMPAIRED PROVISIONS

In accordance with the Americans with Disabilities Act (ADA) and California Law, it is Marin Water’s policy to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including those with disabilities. If you are an individual with a disability and require a copy of a public hearing notice, an agenda, and/or agenda packet in an appropriate alternative format, or if you require other accommodations, please contact the Board Secretary/ADA Coordinator at 415.945.1448, at least two business days in advance of the meeting. Advance notification will enable Marin Water to make reasonable arrangements to ensure accessibility.

Information agendas are available for review at the Civic Center Library, Corte Madera Library, Fairfax Library, Mill Valley Library, Marin Water Administration Building, and marinwater.org.

Posted: 10-06-2023



STAFF REPORT

Meeting Type: Board of Directors
Title: Minutes of the Board of Directors' Special Meeting of September 12, 2023 and Regular Meeting of September 19, 2023
From: Terrie Gillen, Board Secretary
Through: Ben Horenstein, General Manager
Meeting Date: October, 10, 2023

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Approve the minutes of the Board of Directors' Special Meeting of September 12, 2023 and Regular meeting of September 19, 2023

SUMMARY: The Board of Directors held a special meeting on September 12, 2023, and a regular bi-monthly meeting on September 19, 2023. The minutes of all those meetings are attached.

DISCUSSION: None.

ENVIRONMENTAL REVIEW: None.

FISCAL IMPACT: None.

ATTACHMENT(S):

1. Minutes of the Board of Directors' Special Meeting of September 12, 2023
2. Minutes of the Board of Directors' Regular Meeting of September 19, 2023

| DEPARTMENT OR DIVISION | DIVISION MANAGER | APPROVED |
|--|--|---|
| Communications & Public Affairs Department |  Terrie Gillen Board Secretary |  Ben Horenstein General Manager |

**MARIN MUNICIPAL WATER DISTRICT
SPECIAL MEETING OF THE BOARD OF DIRECTORS**

MINUTES

Tuesday, September 12, 2023

Held Remotely and at In-Person Locations

Open Session Location: Marin Water, Board Room, 220 Nellen Avenue, Corte Madera, CA 94925; and, Contractors State License Board, First Floor Lobby, 9821 Business Park Drive, Sacramento, CA 95827

Closed Session Location: Marin Water, Mt. Tam Conference Room, 220 Nellen Avenue, Corte Madera, CA 94925

CALL TO ORDER AND ROLL CALL

President Monty Schmitt called the meeting to order at 4:00 p.m.

Directors Present: Ranjiv Khush, Larry Russell, Matt Samson, Jed Smith, and Monty Schmitt (*Director Russell arrived when the Board convened to Closed Session.*)

Directors Absent: None

ADOPT AGENDA

On motion made by Director Smith and seconded by Vice President Khush, the Board of Directors adopted the agenda.

Ayes: Directors Khush, Samson, Smith, and Schmitt

Noes: None

Absent: Director Russell

PUBLIC COMMENT ON CLOSED SESSION ITEMS

There were no public comments on the Closed Session item.

CONVENE TO CLOSED SESSION

The directors convened to Closed Session at 4:01 p.m. and went to the Mt. Tam Conference Room.

Director Russell arrived at this time.

CLOSED SESSION ITEM

1. Conference with Labor Negotiators

(Government Code §54957.6)

Agency Designated Representative: Ben Horenstein, General Manager

Employee Organizations: Service Employees International Union, Local 1021;
Unrepresented Employees

RECONVENE TO OPEN SESSION

The Board adjourned the closed session and returned to the Board Room.

CLOSED SESSION REPORT OUT

President Schmitt announced that the Closed Session adjourned at 6:10 p.m. with no reportable actions.

ADJOURNMENT

There being no further business, the special meeting adjourned at 6:12 p.m.

Board Secretary

**MARIN MUNICIPAL WATER DISTRICT
BOARD OF DIRECTORS**

MEETING MINUTES

Tuesday, September 19, 2023

Via Remote and In-Person

Open Session Locations: Marin Water Board Room, 220 Nellen Avenue, Corte Madera, CA 94925; and The Hay-Adams Hotel, Business Center (Lobby Floor), 800 16th Street NW, Washington, D.C. 2006

Closed Session Location: Marin Water Mt. Tam Conference Room, 220 Nellen Avenue, Corte Madera, CA 94925

CALL TO ORDER AND ROLL CALL

President Monty Schmitt called the meeting to order at 6:30 p.m.

Directors Present: Ranjiv Khush, Larry Russell, Matt Samson, Jed Smith, and Monty Schmitt

Directors Absent: None

ADOPTION OF AGENDA

On motion made by Vice President Khush and seconded by Director Samson, the board adopted the agenda.

Ayes: Directors Khush, Russell, Samson, Smith, and Schmitt

Noes: None

There were no public comments on the *Adoption of the Agenda*.

PUBLIC COMMENT – ITEMS NOT ON THE AGENDA

There were two (2) public comments on items not on the agenda.

DIRECTORS' AND GENERAL MANAGER'S ANNOUNCEMENTS & COMMITTEE REPORTS

- Director Samson reported that we're still in Fire Season and he is pleased to see work done on the watershed and the hiring of the new ranger. He also announced the 8th Annual State of the Tomales Bay Conference scheduled for Friday, September 29th.

- Vice President Khush announced that the Bureau of Reclamation Water Smart Program has received an additional \$188M to fund water recycling programs.
- Director Russell highlighted items discussed at the Operations Committee Meeting on September 15th.
- Director Smith announced that he was in Washington D.C. to meet with elected officials, the Army Corps of Engineers, and National Oceanic and Atmospheric Administration (NOAA) to obtain funding for the District's water supply and resiliency projects and watershed.
- General Manager Ben Horenstein addressed both Directors Samson and Director Khush's questions. He also announced that the District recently received a grant for \$4.6M from the California Department of Fish and Wildlife for Lagunitas Creek, and that was matched by the U.S. Bureau of Reclamation for \$1.4M. All phase one restoration sites of Lagunitas Creek are fully funded with grant dollars.

CONSENT CALENDAR (ITEMS 1-5)

- Item 1** Minutes of the Board of Directors' Special Meeting of August 23, 2023, Special Meeting of August 28, 2023, and Regular Meeting of September 5, 2023
- Item 2** General Manager's Report – August 2023
- Item 3** Professional Services Agreement with Terra/GeoPentech, not to exceed \$900,521, for Engineering Services to Develop a Preferred Alternative for Improving the Water Supply Storage Project
- Item 4** Resolution Approving the Quagga and Zebra Mussel Infestation Prevention Grant Agreement (Resolution 8757)
- Item 5** Software License and Maintenance Agreement with Software Maintenance Reinstatement (SAP) through December 21, 2023 in the amount of \$149,979.33

On motion made by Director Samson and seconded by Vice President Khush, the board approved the Consent Calendar.

Ayes: Directors Khush, Russell, Samson, Smith, and Schmitt
Noes: None

There were no public comments on the Consent Calendar.

REGULAR CALENDAR (ITEMS 6-7)

Item 6 Strategic Plan Development: Vision, Mission, Values

Communications & Public Affairs Manager Adriane Mertens introduced this item and consultant Charles Gardiner with Catalyst, who discussed aspects of the upcoming Strategic Plan, specially looking for input on the Vision, Mission and Values. The board provided feedback throughout the presentation.

There were two (2) public comments.

This was an informational report. The board did not take any formal action.

Item 7 Future Meeting Schedule

The board secretary listed upcoming board and committee meetings.

There were no public comments.

This was an informational item. The board did not take any formal action.

CLOSED SESSION

Public Comment on Closed Session Item Only

There were no public comments.

Convene to Closed Session

The board left the Board Room at 7:46 p.m. to go to the Mt. Tam Conference Room for the Closed Session.

Closed Session Item

- 8. Conference with Labor Negotiators**
(Government Code §54957.6)

Agency Designated Representative: Ben Horenstein, General Manager
Employee Organizations: Service Employees International Union, Local 1021;
Unrepresented Employees

Reconvene to Open Session

The board returned to Board Room at 9:04 p.m.

Closed Session Report Out

Vice President Khush announced that the closed session adjourned at 9:02 p.m. with no reportable action.

ADJOURNMENT

There being no further business, the Board of Directors' Regular Bi-Monthly Meeting of September 19, 2023, adjourned at 9:05 p.m.

Board Secretary



STAFF REPORT

Meeting Type: Board of Directors

Title: Professional Services Agreement for Petaluma River Brackish Desalination Investigation with Kennedy/Jenks Consultants, Inc.

From: Paul Sellier, Director of Water Resources

Through: Ben Horenstein, General Manager

Meeting Date: October 10, 2023

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Authorize the General Manager to finalize a Professional Services Agreement with Kennedy/Jenks Consultants, Inc. not to exceed \$124,643 to investigate subsurface conditions and feasibility of desalination of the Petaluma River near San Pablo Bay

SUMMARY: On February 28, 2023, the Board selected the Integrated Roadmap for improved water supply resiliency (Roadmap). Since that time, staff have been moving forward with all of the projects identified in the Roadmap. In collaboration with the District, the City of Petaluma’s consultant, Kennedy Jenks, has completed an initial review of groundwater availability for a potential brackish desalination plant as proposed by Jacobs in the Strategic Water Supply Assessment. To further investigate feasibility of brackish desalination in the region, staff have obtained a proposed scope of work from Kennedy Jenks to investigate subsurface conditions near San Pablo Bay. As reviewed at the September 15th, 2023 Operations Committee meeting, the proposed scope of work is for \$124,643 to further investigate the geology nearer San Pablo Bay where it may be possible to locate an ancient (paleo) riverbed channel that could then be used to support a subsurface intake structure for a desalination plant.

DISCUSSION: The District has partnered with the City of Petaluma (City) to develop a better understanding of the potential for the Petaluma River Brackish Desalination project (Project) as described in the Strategic Water Supply Assessment (SWSA) to yield a viable water supply. The City accelerated the work schedule by making budget available, as part of their ongoing water supply resiliency planning effort, to explore groundwater availability and water quality in the basin. The City tasked Kennedy Jenks to review existing data from city owned wells, available data from the United States Geological Survey and more recent information from the Groundwater Sustainability Plan for the Petaluma Valley as well as City owned well pumping data.

The review of existing data supports the conclusion that the groundwater in the area around the City of Petaluma is not saline water with a few exceptions. This places the water into the Groundwater Sustainability Agency purview and from a review of groundwater withdrawals and recharge of the

groundwater basin, the basin would not have the capacity to support the level of withdrawals of potable water.

There is an opportunity to further investigate the geology nearer to San Pablo Bay where it may be possible to locate an ancient (paleo) riverbed channel that could then be used to support a subsurface intake structure for a desalination plant. The paleo channel would likely be more directly hydraulically connected to the bay itself, and therefore much less likely to impact the existing potable groundwater basin. This might provide environmental and potential cost benefits over an open bay intake for desalination. Staff has obtained a proposed scope of work from Kennedy Jenks Consultants for \$124,643 to conduct this research and analysis.

As proposed, the scope of work (attached) includes a desktop analysis to locate a possible paleo channel in an area near where the Petaluma River meets San Pablo Bay. The proposed scope of work includes further exploration of groundwater nearer the bay and will utilize an existing Airborne Electro Magnetic (AEM) survey conducted by the State Department of Water Resources (DWR) of this area. AEM surveys measure the electrical magnetic response (resistivity/conductivity) of different subsurface layers to determine the types and depths of different soil layers. The data collected is used to create continuous images that are interpreted for underground geology. The AEM survey combined with existing lithological data from previously drilled wells or borings in the area may provide an opportunity to interpret the AEM data to help point to a likely location for the paleo channel. Pending the outcome of the desktop analysis, field work to physically locate the paleo channel would take place. Fieldwork would require permits for, and drilling of, three to four test wells to perform capacity testing and determine water quality.



Maintaining the location of proposed investigation in proximity to the Petaluma River is likely to increase the likelihood of a continuing collaboration with other nearby water retailers including the City of Petaluma and North Marin Water District. Regional coordination and collaboration between water agencies is essential for overall project viability.

ENVIRONMENTAL REVIEW: Not applicable.

FISCAL IMPACT: Funds for the Professional Services Agreement with Kennedy Jenks are included in the Adopted FY 2023-25 Budget

ATTACHMENT(S):

- 1. Proposed Scope of Work
- 2. Fee Estimate and Schedule

| DEPARTMENT OR DIVISION | DIVISION MANAGER | APPROVED |
|------------------------|--|---|
| Water Resources |  Paul Sellier Water Resources Director |  Ben Horenstein General Manager |

Attachment A: Scope of Work for Brackish Water Desalination Feasibility Study

Phase 1: Desktop Study

The scope of work for Tasks 1.1, 2 and 3 can be initiated upon notice to proceed. A detailed estimated fee is provided in Appendix D.

Task 1 – Project Management & QA/QC

Task 1.1 - Phase 1 PM Activities

Project management includes project setup, subcontracting, submittal of monthly project status reports, preparation for and leading one (1) Phase 1 kickoff meeting and four (4) project status meetings (calls/webinars), participating in two (2) GSA briefings and internal coordination to keep the project on schedule and within budget. Other project meetings are described in subsequent tasks. Quality assurance/quality control (QA/QC) activities are integrated into KJ's project management system from project inception through final document submission. Each major deliverable will receive a quality control review prior to submission to the client from a senior KJ engineer, and an internal Concept and Criteria Review will be conducted as part of project initiation.

Assumptions

- Five (5) month project duration
- One (1) Phase 1 kickoff meeting (attended by two (2) KJ staff, (2) Geoscience staff (hybrid - in person and teams))
- Four (4) progress status calls (attended by two (2) KJ staff, (2) Geoscience staff (virtual))
- Two (2) GSA briefings attended by one (1) KJ staff, (2) Geoscience staff (virtual)
- Each meeting is anticipated to have a one (1) hour duration

Deliverables

- Agenda, meeting materials and minutes in electronic form
- 5 monthly project status reports and invoices

Task 1.2 - Phase 2 PM Activities

Project management activities for Phase 2 will be similar in nature to Task 1.1. The project duration and number and type of meetings will be further refined upon completion of Phase 1.

Task 2 – Develop Preliminary Project Concept and Cost Update

This task will refine the project concept based on discussion with the District and information from the recent USBR WaterSMART Grant Proposal submitted by the District. A **project summary sheet** will be developed that

includes a project description, overview map of the project location and major facilities and identification of assumptions, benefits, limitations and data gaps.

A **data request** will be generated as part of the initial kickoff meeting, to identify relevant studies, data and other information that can be used to support the analysis. A tracking table will be submitted to the District and maintained by KJ. The District will provide digital files to the project team, as available, within 3 weeks of the data request.

A **preliminary high-level capital cost estimate** will be developed for the project concept, based on siting a regional desalination plant at San Pablo Bay, with subsurface intake. This task will build on unit costs and cost estimates developed for the SWSA, using similar project component as defined in other relevant main water supply alternatives (e.g. \$/MGD of desalination treatment, \$/LF of pipelines, \$/MG of storage etc). It is understood that there is limited unit cost information available from the SWSA. As such, KJ will review the total project costs developed in the SWSA, additional information gathered by the District and develop unit costs that can be applied to this project concept, where applicable. Unit cost assumptions will be further supported based on our team’s experience with similar projects. The objective of this preliminary cost estimate is to be able to compare the cost of this new option with the other water supply alternatives. This would allow the District to potentially eliminate, this option early if the project costs and/or unitized cost per AFY are unacceptably high, based on the desktop study, before any further research is done. Soft costs will be estimated based on a percent of facility direct costs, using assumptions similar to the SWSA or as directed by the District. Operations and maintenance costs and life cycle unit costs will not be developed as part of this effort.

Assumptions

- SWSA Table 11, summarizing the potential yield, costs, and timing for each of the main water supply alternatives will be used as the basis for cost comparison.
- A summary of the metrics for desalination-focused options, provided in the SWSA, 13 Sept 2023, Board Workshop #7 (Slide 22: Desalination Options Yield and Cost Summary) will be applied, as appropriate.
- If possible, the District and/or the SWSA consultant (Jacobs) will provide additional unit cost and/or facility cost data from the SWSA study to support the comparison of project concepts.
- All cost will be at a concept-level with major assumptions listed and a range of accuracy provided reflective of AACE Class V Cost estimate (+50% to 30%)

Deliverables

- Project Summary Sheet with Map
- Data Request and Tracking Table
- Preliminary High Level Capital Cost Estimate Table

Task 3 – Desktop Research Using the Existing AEM Survey Data

Under this task, Geoscience and Ramboll will conduct a desktop analysis of the California Statewide Airborne Electromagnetic (AEM) survey that Ramboll conducted for the California Department of Water Resources to identify potential areas for explanatory borehole drilling. KJ will provide coordination and oversight.

Task 3.1 - Data Collection and Review

Initial data review suggests that elevated salinity inland from the bay may be from seawater intrusion from past pumping. Under this task, Geoscience will conduct a detailed review of available data for wells (including well construction data, well logs, groundwater levels, and water quality) in and around the study area close to the San Pablo Bay (approximately from one mile inland of Highway 37 to the coast). The high-resolution dataset will provide an initial understanding of a possible coarse layer within or below the bay mud that would act as a conduit from San Pablo Bay to a new wellfield. The dataset will be provided to Ramboll for their further sensitivity analysis using the AEM data.

Task 3.2 – Sensitivity Analysis and Uncertainty Analysis Using the Existing AEM Database

The existing AEM data will be analyzed under this task to better identify and quantify the uncertainty surrounding subsurface resistivity targets consistent with the expected paleochannels. The analysis will include:

- A desktop study to evaluate the expected AEM signal produced by a paleochannel in the various subsurface scenarios.
- Investigation and application of alternative inversion options to the data to provide more vertical and lateral freedom in the estimated resistivity value. Additionally, this will include applying a priori constraints to known features or layering in the subsurface.
- 1D uncertainty analysis of the AEM data at a selected set of locations to quantify the degree of uncertainty surrounding the resistivity and thickness of potential targets consistent with what would be expected for paleochannels.
- Interpretation of the AEM and auxiliary data and the likelihood that the AEM data would have detected a paleochannel-like feature.

The detailed scope of work for this task is described in Ramboll’s proposal submitted to Geoscience on July 11, 2013 (Appendix B). Ramboll will produce a **Technical Memorandum (TM) - Analysis of AEM Data** presenting the results of the data analysis, preliminary interpretations, and recommendations for future work to improve the identification of potential paleochannels in the area of interest. The memo will contain maps and figures showing the location and types of data analyzed, analysis and interpretation results.

Task 3.3 - Evaluation of Exploratory Borehole Locations

Geoscience will review the Ramboll’s findings from Task 3.2 to evaluation and recommend locations for exploratory boreholes. Two (2) one-hour meetings are assumed with the District to present the findings and discuss next steps. Assuming a viable paleochannel-like feature is detected, the project team will move forward with Task 4.

OFF RAMP: If a viable paleochannel-like feature is not detected or the project concept deemed infeasible, the project team will meet with the District to determine the next steps for additional desktop evaluations or discontinue the effort.

Assumptions

- Two (1) One (1) hour meetings attended by KJ PM, one (1) KJ team member and two (2) Geoscience team members.
- Geoscience will provide technical QA/QC of their internal work products and deliverables provided by Ramboll.
- KJ will provide review of deliverables

Deliverables

- Agenda, meeting materials and minutes in electronic form.
- Dataset provided by Geoscience to Ramboll for their further sensitivity analysis using the AEM data
- Draft and Final TM - Analysis of AEM Data (Ramboll)
- Exploratory boreholes summary table and map

Phase 2: Exploratory Drilling

The scope of work for Tasks 1.2, 4, 5 and 6 will only be initiated if a viable paleochannel-like feature is identified in Phase 1. An outline of the anticipated tasks and subtasks is provided herein. The tasks will be revisited prior to NTP for Phase 2, allowing the KJ team time to validate the approach, develop the appropriate scope and provide a fee estimate based on the desktop findings.

Task 4 – Preparation of Exploratory Drilling Workplan and Permitting Assistance

This task includes preparation of a detailed technical work plan for the contractor to follow during exploratory drilling, sampling, and destruction of three exploratory boreholes. The scope and level of effort for permitting support, meetings and site visits will be refined based on Phase 1 outcomes and the number and placement of exploratory borings recommended. The following subtasks are anticipated.

Task 4.1 – Exploratory Drilling Workplan

Task 4.2 – Permitting Compliance Assistance

Task 4.3 – Exploratory Drilling Meetings

Task 5 – Exploratory Borehole Drilling and Depth Specific Water Quality Testing

For the exploratory investigation, Geoscience can subcontract with a drilling contractor with a C-57 license and proven track record of successfully utilizing the preferred drilling method (e.g. sonic or other) to perform the exploratory work. The scope and level of effort for Task 5 will be developed based on Phase 1 outcomes, the

number and placement of exploratory borings recommended, confirmation of the preferred drilling approach (sonic or other) and District contracting preferences and requirements with respect to the drilling contractor. The following subtasks are anticipated.

Task 5.1 – Construction Management

Task 5.2 – Exploratory Borehole Drilling with Onsite Field Supervision

Task 5.3 – Evaluate Geophysical Logs

Task 5.4 – Depth Specific Water Quality Sampling

Task 5.5 – Mechanical Grading Analysis

Task 5.6 – Draft and Final Technical Memorandum

Task 6 – Additional Services (Not Scoped)

Should the additional services be identified as part of Phase 1, or if the exploratory drilling show favorable results, it is anticipated that the District may wish to continue to develop this regional brackish water desalination project.

Additional tasks that could help to further the project include but are not limited to:

- Continued source water quality investigations
- Finish water quality specification development
- Evaluation of brine disposal options, including data gap identification
- Development of Project partnerships
- Conveyance and distribution system assessment
- Isolated aquifer zone testing
- Further development of Project costs

Task 6 additional services may be identified and scoped as part of Phase 2 or after initial results from field investigations are completed

OFF RAMP: if an insignificant or non-viable paleochannel is encountered during drilling, the project team will meet with the District to determine the next steps for additional field investigations or discontinue the effort.

Attachment No. 2 – Estimated Fee and Schedule

Estimated Budget for Phase 1

| TASK DESCRIPTION | KJ Total Hours | KJ Total Labor | Geoscience ^a | ODCs | Total Labor + Subs + Expenses |
|---|---|-----------------|-------------------------|--------------|-------------------------------|
| Phase 1: Desktop Study | | | | | |
| Task 1 - Project Management and QA/QC (Phase 1) | 113 | \$30,066 | \$5,941 | \$300 | \$36,308 |
| Task 2 - Develop Preliminary Project Concept and Cost Update | 80 | \$19,739 | \$5,025 | \$0 | \$24,764 |
| Task 3 - Desktop Research Using the Existing AEM Survey Data | 0 | \$0 | \$63,571 | \$0 | \$63,571 |
| Subtotal Phase 1 | 193 | \$49,806 | \$74,537 | \$300 | \$124,643 |
| Phase 2: Exploratory Drilling^b | | | | | |
| Task 1 - Project Management and QA/QC (Phase 2) | <i>Scope and Effort to be confirmed after Phase 1</i> | | | | |
| Task 4 - Preparation of Exploratory Drilling Workplan and Permitting Assistance | | | | | |
| Task 5 - Exploratory Borehole Drilling and Depth Specific Water Quality Testing | | | | | |
| Task 6 – Additional Services (Not Scoped) ^c | | | | | |
| Subtotal Phase 2 | TBD | TBD | TBD | TBD | TBD |
| Total Project | TBD | TBD | TBD | TBD | TBD |

- ^a Fee for Geosciences includes services performed by Ramboll (Phase 1) and may include Drilling Contractor (Phase 2).
- ^b Fee for Phase 2 is not provided at this time, as the results from the desktop study will inform the number of wells to be drilled and the level of effort.
- ^c Additional services may be identified and scoped as part of Phase 2 or after initial results from field investigations are completed.

Anticipated Project Schedule

| Tasks, Meetings and Key Deliverables | 2023 | | | | | | 2024 | | | | | | |
|--|------|----------|-----|-----|-----|-----|------|-----|-----|-----|------|-----|------|
| | Sept | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | July | Aug | Sept |
| Phase 1 - Desktop Study | | | | | | | | | | | | | |
| Notice to Proceed | + | | | | | | | | | | | | |
| Task 1 - Project Management and QA/QC | | | | | | | | | | | | | |
| Meetings and Progress Calls | | Kick-off | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ |
| Status Reports and Invoices | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | |
| Task 2 - Develop Preliminary Project Concept and Cost Update | | | | | | | | | | | | | |
| Project summary sheet, data request, cost estimate | | | ◆ | | ✓ | | | | | | | | |
| Task 3 - Desktop Research Using the Existing AEM Survey Data | | | | | | | | | | | | | |
| Task 3.1 - Data Collection and Review | | | | | | | | | | | | | |
| Task 3.2 - Sensitivity Analysis | | | | ◆ | ✓ | | | | | | | | |
| Task 3.3 - Evaluation of Exploratory Boreholes | | | | ◆ | ✓ | | | | | | | | |
| Task 4 - Preparation of Exploratory Drilling Workplan and Permitting Assistance | | | | | | | | | | | | | |
| Task 4.1 - Exploratory Drilling Workplan | | | | | | | ◆ | ◆ | ✓ | | | | |
| Task 4.2 - Permitting Compliance Assistance | | | | | | | | | | | | | |
| Task 4.3 - Exploratory Drilling Meetings | | | | | | | ☺ | ☺ | ☺ | | | | |
| Task 5 - Exploratory Borehole Drilling and Depth Specific Water Quality Testing | | | | | | | | | | | | | |
| Task 5.1 - Construction Management | | | | | | | | | | | | | |
| Task 5.2 - Exploratory Borehole Sonic Drilling | | | | | | | | | | | | | |
| Task 5.3 - Evaluate Geophysical Logs | | | | | | | | | | | | | |
| Task 5.4 - Depth Specific Water Quality Sampling | | | | | | | | | | | | | |
| Task 5.5 - Mechanical Grading Analysis | | | | | | | | | | | | | |
| Task 5.6 - Draft and Final Technical Memorandum | | | | | | | | | | | | ◆ | ◆ |
| Task 6 - Future Services (Not Funded) | | | | | | | | | | | | | ✓ |

¹⁾ Phase 2 schedule to be refined at/near completion of Phase 1 based on number of wells to be drilled and availability of drilling contractor.

| MEETINGS | | DELIVERABLES | |
|-----------------------|---|---------------------|---|
| Progress Status Calls | ☺ | Interim/Admin Draft | ◆ |
| Site Visits | ⊕ | Draft | ☺ |
| GSA Briefing | △ | Final | ◆ |



STAFF REPORT

Meeting Type: Board of Directors
Title: Grant of Easement for Sanitary Sewer Lateral – Spring Lane Tanks site, Tiburon
From: Crystal Yezman, Director of Engineering
Through: Ben Horenstein, General Manager
Meeting Date: October 10, 203

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Authorize General Manager to execute an Easement Agreement conveying an easement for private sanitary sewer piping to Peter Winterhof, owner of 9 Stevens Court, Tiburon

SUMMARY: As a condition of approval for their home remodel, Sanitary District No. 5 has required the property owners of 9 Stevens Court, Tiburon to perform improvements to a private sewer lateral. This private sewer lateral is believed to serve three residences on Stevens Court, #1, #5 and #9. A portion of the private sewer lateral is located on the District’s Spring Lane Tanks property and connects to an existing sewer main line located on the District’s property. There is an easement for the existing sewer main line, but no record of an existing easement for the private sewer lateral has been found in District records.

DISCUSSION: District staff proposes that the District grant an easement to Peter Winterhof, owner of 9 Stevens Court, Tiburon. The easement will grant the property owner the right to own and maintain the sanitary sewer piping on District property, but would allow use by the existing residences on any of the three parcels already connected to the existing sewer main located on the District’s property. The easement legal description and map have been prepared and have been attached to this report. At approximately 233-square-feet, the total area of the easement is a minimal portion of a property encumbered with various water facilities including two water storage tanks, piping, valves and other assorted appurtenances. Therefore, it is highly unlikely any future improvements can be made to the area of the easement severely limiting its overall value. Further, the proposed easement will address the lack of a record interest for an existing sewer lateral already located on the District’s property in this location.

The work will be performed by the property owner’s contractor who will enter into an agreement with the District allowing for their access to the site and construction with District oversight. The District will recover its costs related to oversight of the work through the agreement.

ENVIRONMENTAL REVIEW: Not applicable.

FISCAL IMPACT: None.

ATTACHMENT(S):

- 1. Easement Legal Description and Map

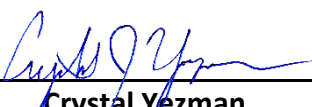

| DEPARTMENT OR DIVISION | DIVISION MANAGER | APPROVED |
|------------------------|---|--|
| Engineering |  Crystal Yezman Engineering Director |  Ben Horenstein General Manager |

EXHIBIT 'A'
10' SANITARY SEWER EASEMENT (SSE)
OVER THE LANDS OF MARIN MUNICIPAL WATER DISTRICT
APN 058-111-31

A strip of land 10.00 feet in width, lying within the Town of Tiburon, County of Marin, State of California, and being a portion of the lands of Marin Municipal Water District, a public corporation, described as First in the Deed from Thomas B. Deffebach and May H. Deffebach to Marin Municipal Water District recorded April 6, 1927, under Volume 115 of Official Records at Page 216, Marin County Records, said strip of land being more particularly described as follows:

BEGINNING at a point on the southwestern line of said lands, where a found 3/4" iron pipe tagged RCE 17486 marking the western corner of said lands as shown on that certain Record of Survey map filed in Book 2006 of Maps at page 56, Marin County Records bears North 42°47'30" West distant 107.25 feet; thence leaving said southwestern line, the following five (5) courses and distances:

- 1) North 65°22'30" East 21.65 feet; thence
- 2) South 42°08'39" East 10.66 feet; thence
- 3) South 47°51'21" West 10.00 feet; thence
- 4) North 42°08'39" West 3.34 feet; thence
- 5) South 65°22'30" West 11.04 feet to said southwestern line; thence

along said southwestern line North 42°47'30" West 10.52 feet to the POINT OF BEGINNING.

Containing 233 square feet more or less.

END DESCRIPTION

Prepared by Cinquini & Passarino, Inc.

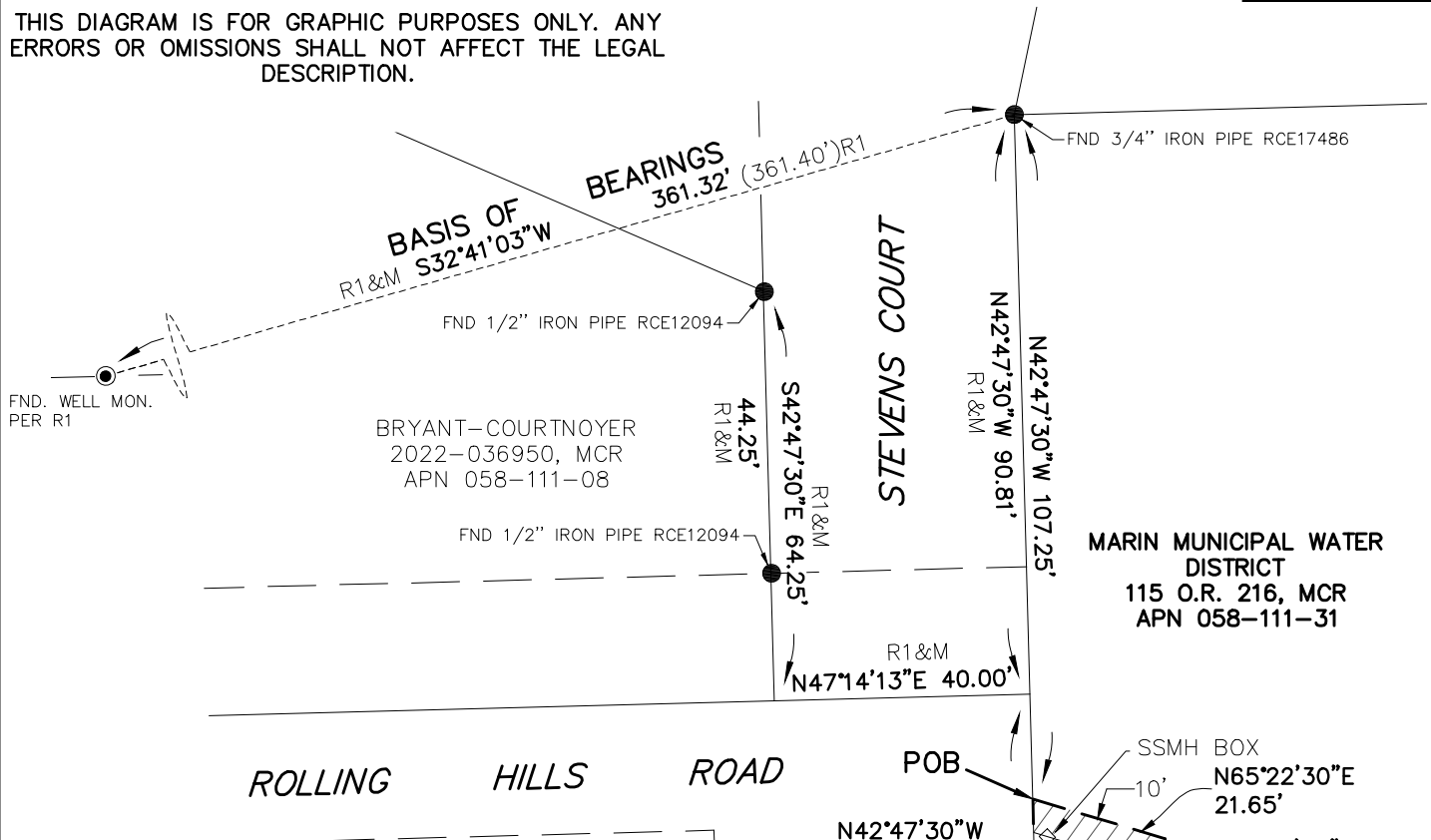
Preliminary
08/24/2023 3:35:55 PM

Davit Can Sulam
Professional Land Surveyor No. 8224

Date

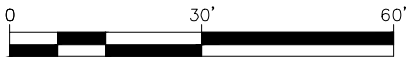
EXHIBIT 'B'

THIS DIAGRAM IS FOR GRAPHIC PURPOSES ONLY. ANY ERRORS OR OMISSIONS SHALL NOT AFFECT THE LEGAL DESCRIPTION.



LEGEND

- SANITARY SEWER EASEMENT
- BOUNDARY
- RIGHT-OF-WAY
- M MEASURED
- MCR MARIN COUNTY RECORDS
- O.R. OFFICIAL RECORDS
- POB POINT OF BEGINNING
- R1 2006 MAPS 56, MCR
- EASEMENT AREA 233± SQ.FT.
- SANITARY SEWER MANHOLE



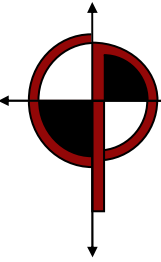
CINQUINI & PASSARINO, INC.
LAND SURVEYING

1804 Soscol Avenue, STE 202
Napa, CA. 94559
Phone: (707) 690-9025
Fax: (707) 542-2106
WWW.CINQUINIPASSARINO.COM

ROLLING HILLS ROAD

| | | |
|--|----------------|------------------|
| JOB NAME: TO-14 SPRING LANE EASEMENT | DRAWN BY: DCS | CHECKED BY: AGC |
| DESCRIPTION: 10' SANITARY SEWER EASEMENT | SCALE: 1"=30' | DATE: 08/24/2023 |
| | JOB #: 9825-22 | PAGE: 1 OF 1 |

Y:\9825\TO_14\Cad\9825_EXH-B_TO_14.dwg Aug 24, 2023 - 3:22pm



- ▲ BOUNDARY ▲ TOPOGRAPHIC ▲ CONSTRUCTION
- ▲ RAILROAD ▲ INFRASTRUCTURE ▲ HYDROGRAPHIC

Date: 08/24/2023
 JobNumber: 9825-22(14)
 JobName: MARIN MUNICIPAL
 WATER DISTRICT
 By: Davit Sulam

CLOSURE CALCULATION

Description: 10' SANITARY SEWER EASEMENT OVER THE LANDS OF MARIN MUNICIPAL WATER DISTRICT

Parcel name: 9825-22 TO-14 10' SSE

North: 10288.9729 East : 5362.3358

Line Course: N 42-08-39 W Length: 10.66

North: 10296.8768 East : 5355.1830

Line Course: S 65-22-30 W Length: 21.65

North: 10287.8558 East : 5335.5019

Line Course: S 42-47-30 E Length: 10.52

North: 10280.1359 East : 5342.6485

Line Course: N 65-22-30 E Length: 11.04

North: 10284.7360 East : 5352.6845

Line Course: S 42-08-39 E Length: 3.34

North: 10282.2596 East : 5354.9256

Line Course: N 47-51-21 E Length: 10.00

North: 10288.9695 East : 5362.3402

Perimeter: 67.21 Area: 233 sq.ft. 0.01 acres

Mapcheck Closure - (Uses listed courses and chords)

Error Closure: 0.0055 Course: S 52-41-08 E

Error North: -0.00336 East : 0.00441

Precision 1: 12,220.00



STAFF REPORT

Meeting Type: Board of Directors
Title: Overview of Website Homepage Improvements and Meetings/Agendas Hub
From: Adriane Mertens, Communications & Public Affairs Manager
Through: Ben Horenstein, General Manager *BH*
Meeting Date: October 10, 2023

TYPE OF ACTION: Action X Information Review and Refer

RECOMMENDATION: Receive staff update on website homepage improvements and the new Meetings/Agendas Hub

SUMMARY: Over the past several months, staff has been implementing changes to the District’s website homepage and transitioning the Board meeting calendar and agenda documents to a new online hub to improve navigation and accessibility for District customers and staff.

DISCUSSION: Staff continuously updates its public-facing website (marinwater.org) to enhance the customer experience and promote priority messaging. Last year, staff collected input from the public, the Board of Directors and District staff regarding areas of the website most in need of enhancements.

Based on this input and assessment of the website, website analytics, and other agencies best practices, staff identified a number of priority website projects for its 2023-24 work plan, including: 1) an update to the design of the homepage; and 2) transition to a Meetings and Agenda Hub – a new third-party system for calendaring and cataloguing board and committee meetings and agendas.

Both projects are primarily aimed at making it easier for customers to find what they are looking for quickly on the District website. Additionally, the Meetings and Agendas Hub functions internally in the organization as an agenda management system and is expected to improve efficiencies for District staff who write or review staff reports, track and provide approval of agenda items, or compile and post meeting agenda packets.

Both projects were developed in parallel beginning in late spring and launched September 29, 2023, introducing several new features, including the following:

Refreshed Homepage Design

- A dropdown mega-menu that is built into the website framework so that it appears on every webpage helping users better find what they are looking for on the site quickly.

- Relocation of the google translate feature to the top of the page to improve accessibility for customers who need to access the website information in a different language.
- Relocation of buttons linking to key customer functions such as “start service,” “pay my bill” and “access my account.”
- A rotating slideshow that can be changed out frequently to keep content fresh and promote customer rebates, helpful services and other important announcements.
- Large and colorful icon buttons for quick access to popular topics and areas of the site most frequented by users.
- Large call-out to the new “service finder” page which helps customers better find staff contact information and online forms required for the type of support they are seeking from the District, i.e. help with a leak adjustment, requesting a water meter installation, obtaining watershed land-use permits.
- Simple one-click access to the new Meetings & Agendas Hub for users tracking board and committee meeting items.

Meetings and Agendas Hub

- Hyperlinked agenda which allows users to access staff reports and supporting documents for specific agenda items directly from where the item is listed in the agenda rather than searching the entire agenda packet which can often range in length between 50 to a 100 pages or more.
- Catalogued and searchable agenda packets from board and committee meetings over the last ten years.
- Ability to view running list of upcoming or past board and committee meetings all on one centralized page, and access an individual meeting’s agenda, video recording, and presentations (if available) all from this same page.

Staff will provide a brief live tour of the improved website (marinwater.org) to review these features.

ENVIRONMENTAL REVIEW: Not applicable.

FISCAL IMPACT: None.

ATTACHMENT(S): None.



STAFF REPORT

Meeting Type: Board Meeting
Title: Water Supply Roadmap Update
From: Paul Sellier, Water Resources Director *PS*
Through: Ben Horenstein, General Manager *BH*
Meeting Date: October 10, 2023

TYPE OF ACTION: Action X Information Review and Refer

RECOMMENDATION: Receive staff update on Water Supply Roadmap Projects

SUMMARY: On February 28, 2023, the Board selected the Integrated Roadmap for improved water supply resiliency (Roadmap); and since that time, staff has been implementing the early action projects, while in parallel working to procure consulting teams to implement the longer term, more complex projects. Staff will provide a presentation on progress to date on Roadmap implementation.

DISCUSSION: In the presentation, staff will briefly review the status of the early action projects, including:

- Pumping water from Phoenix to Bon Tempe - the recent inspections revealed existing conditions are favorable and the design work can now proceed. Additionally, the team is working to set up a site visit with permitting agencies to help clarify the project work and goals.
- Electrification of Soulajule Pump Station - discussions with PG&E are continuing while PG&E is in the process of completing a load study.
- Stream Release Automation - the team has achieved necessary permissions for equipment installation. Equipment to measure streamflow has been installed near Shafter Bridge and staff are now working to capture that data to the District’s SCADA system before working on the control logic for the release valve at Kent reservoir. Staff are also planning similar work at Walker Creek to improve the accuracy of releases.
- District water conservation efforts continue to target a range of incentives with a focus on turf removal.

To support implementation of the longer-term projects, the District has engaged the expertise of consulting teams to ensure the thorough documentation and the evaluation of alternatives that will lead to preferred alternative projects for both local storage and conveyance. The preferred alternatives

will be advanced to approximately 30% design to support review of any proposed projects in compliance with the California Environmental Quality Act (CEQA).

Carollo Engineers will support the implementation of the Sonoma Marin Regional Conveyance project and Terra GeoPentech will provide implementation services for local storage options. The conveyance team is targeting a preferred alternative by June of 2024 and 30% design by early 2025. For storage, the team is estimating that one or more preferred alternatives will be determined by June/July 2024 and 30% design by then end of 2025.

In collaboration with the District, the City of Petaluma’s consultant, Kennedy Jenks, has completed an initial review of groundwater availability for a potential brackish desalination plant as proposed by Jacobs in the Strategic Water Supply Assessment. The review of existing data supports the conclusion that the groundwater in the area around the City of Petaluma is not saline water with a few exceptions. This places the water into the Groundwater Sustainability Agency purview and from a review of groundwater withdrawals and recharge of the groundwater basin, the basin would not have the capacity to support the desired level of withdrawals of potable water.

There is an opportunity to further investigate the geology nearer to San Pablo Bay where it may be possible to locate an ancient (paleo) riverbed channel that could then be used to support a subsurface intake structure for a desalination plant. The paleo channel would likely be more directly hydraulically connected to the bay itself, and therefore much less likely to affect the existing potable groundwater basin. This might provide environmental and potential cost benefits over an open bay intake for desalination.

In addition to the efforts described above, staff continue to be vigilant in its efforts to find appropriate grant opportunities to help support all projects identified in the Roadmap, including grants aimed at recycled water projects. Staff will also provide a brief update on the status of funding and grant applications.

ENVIRONMENTAL REVIEW: Not applicable.

FISCAL IMPACT: None.

ATTACHMENT(S): None.



UPCOMING MEETINGS

This schedule lists upcoming Marin Water Board of Directors meetings and committee meetings as well as upcoming agenda items for the next month. The schedule is tentative and subject to change pending final publication and posting of each meeting agenda.

| Internal Meetings | | |
|-------------------------------------|---|-----------------------------------|
| Meeting Date | Meeting Type | Key Item(s) |
| Friday, Oct. 20, 2023 9:30 a.m. | Operations Committee Meeting/ Special Meeting of the Board of Directors | Recycled Water Update |
| Tuesday, Oct. 24, 2023 6:30 p.m. | Board of Directors' Regular Bi-Monthly Meeting | Strategic Plan Development: Goals |
| Friday, Oct. 26, 2023 9:30 a.m. | Finance & Administration Committee Meeting/ Special Meeting of the Board of Directors | |

| External Meetings | |
|-----------------------------------|---|
| Meeting Date | Meeting Type |
| Friday, Nov. 3, 2023 9:30 a.m. | North Bay Watershed Association |
| Friday, Nov. 3, 2023 9:00 a.m. | Lagunitas Creek Technical Advisory Committee |
| Monday, Nov. 6, 2023 9:00 a.m. | Sonoma Water Advisory Committee/ Technical Advisory Committee Meeting |