

Max Overland

Subject: FW: Subject: File #25-0763, San Francisquito Creek Flood Protection Project, Board of Directors October 28, 2025 Agenda Item 7.1
Attachments: 10232025_SFCJPA_Board_Agenda_Item_5.A.pdf

From: Mr. Shore <jshore1905@gmail.com>
Sent: Sunday, October 26, 2025 11:24 PM
To: Clerk of the Board <clerkoftheboard@valleywater.org>
Cc: Greer.Stone@paloalto.gov; Margaret Bruce <mbruce@sfcjpa.org>
Subject: Subject: File #25-0763, San Francisquito Creek Flood Protection Project, Board of Directors October 28, 2025 Agenda Item 7.1

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Dear Chair Estremera and Directors,

As a member of the Palo Alto community, I appreciate the Valley Water Board of Directors and staff for your decades-long efforts to enhance flood protection along San Francisquito Creek. I commend and appreciate staff's support for approval of Valley Water's remaining SFCJPA member contribution for FY26 with the understanding that the SFCJPA will complete the planning phase of the Reach 2 project within the year, as evidenced by meeting goals specified in the 10282025 Board Agenda Memo Item 7.1.

Inasmuch as the SFCJPA Board authorized SFCJPA staff on October 23 to work toward a 30% design of a recommended Reach 2 alternative by the end of October 2026, I would appreciate clarification regarding the extent to which the proposed scope and schedule of work presented to the SFCJPA Board on October 23 would meet Valley Water staff's specified goals. (See attached 10232025 SFCJPA Board Agenda Item 5.A.) For example, if completed as presented to the SFCJPA Board, would Valley Water staff expect the proposed scope and schedule of work to result in the SFCJPA having "identified a full capital project"? Based on Valley Water's extensive experience with flood protection projects, how would Valley Water staff propose to establish and implement clear criteria for evaluating whether the SFCJPA-identified project "reflects community support"?

As a member of the community who believes that the Valley Water Board and staff are committed to flood protection along San Francisquito Creek, I would encourage mutual unambiguous transparency when it comes to upfront and ongoing expectations.

Thank you for your consideration of this request for clarification.

Respectfully submitted,

Jeffrey Shore

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SAN FRANCISQUITO CREEK
JOINT POWERS AUTHORITY

Notice of Regular Meeting of the Board of Directors

Thursday October 23, 2025 - 3:30 P.M.

City of Menlo Park Council Chambers 751 Laurel Street Menlo Park, CA 94025

Members of the Public may speak on any agenda item for up to three minutes

Register in advance for this webinar:

https://us02web.zoom.us/webinar/register/WN_B0x-MHpbQWOIGjcBMB700Q

After registering, you will receive a confirmation email containing information about joining the webinar.

AGENDA

1. CALL TO ORDER AND ROLL CALL
2. APPROVAL OF AGENDA
3. PUBLIC COMMENT: *Individuals may speak on a non-agendized topic for up to three minutes.*
4. APPROVAL OF MEETING MINUTES:
 - A. August 28, 2025, Regular Meeting of the Board of Directors
5. ACTION ITEMS
 - A. Consider and approve Resolution 23-10-25-A authorizing Executive Director to negotiate and execute Task Order 2.2 under the WRA, Inc. Master Services Agreement for Reach 2 project planning and design.
6. INFORMATION ITEMS:
 - A. Executive Director's Report, Including Reach 2 Project Details and Activity and Status Report and Audits Status Update
7. BOARD MEMBER ANNOUNCEMENTS, INFORMATION ITEMS, AND REQUESTS (INFORMATION ONLY)
8. ADJOURNMENT

750 Menlo Ave. Suite 250. Menlo Park, CA 94025
SFCJPA.ORG



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PLEASE NOTE: Board meeting Agenda can be viewed online no later than 3:30 p.m. on October 20, 2025 at sfcjpa.org -- click on the "Clerk of the Board" tab near the top, select 2025 and the meeting of interest. Supporting materials will be posted prior to the Board meeting. The Board Meeting agenda and supporting materials will be emailed to those on our Board Meeting distribution list prior to the Board Meeting date. Contact SFCJPA Board Clerk, Miyko Harris-Parker at [MHParker@sfcjpa.org](mailto:MH Parker@sfcjpa.org) if you are not on this list and would like to be added.

Agenda Item 5.A. – WRA Task Order 2.2 for Continued Reach 2 Project Planning and Design

Background

In February 2024, the SFCJPA released a Request for Proposals for qualified firms to enter into a Master Services Agreement (MSA) to provide technical services for planning, design, and implementation of the Reach 2 project. The MSA was awarded to WRA, Inc. (WRA) through a competitive bidding process.

Since the exact nature and scope of all potential future tasks could not be foreseen at the time of the RFP, Task Orders are issued to detail the scope and deliverables of current planned work. Task Order 1 (TO1) was issued in April 2024 and amended in April 2025 for a total of \$707,844. Through TO1, WRA produced the *Alternatives Evaluation Technical Report*, which evaluated four different alternatives to achieve the project goal of providing protection for a 7,200 cfs storm event (equivalent to a 70-year storm, or the 1998 flood or record).

The SFCJPA did not have a staff-recommended project alternative from the previous evaluation, and member agency staff have expressed their desire to understand and plan for the entire project before individual project elements are moved forward to more detailed or final designs. The focus of this Task Order 2.2 (TO2.2) is continued alternatives analysis to identify a SFCJPA and member's staff-recommended alternative and design to a 30% level. Member agency staff have reviewed and provided input into the TO2.2 Scope of Work, which was used to guide WRA's proposal and cost estimate. WRA developed the Scope of Work for TO2.2 at no cost to the SFCJPA.

To expedite the process and keep the project moving, the SFCJPA authorized Task Order 2.1 (TO2.1) in September 2025 to enable WRA to verify the USACE ATR hydraulic model and perform a sensitivity analysis, for an amount of \$48,600. This subtask is needed before any project design can begin.

Recommendation

Consider and approve resolution 23-10-25-A authorizing the Executive Director to negotiate and execute Task Order 2.2 with WRA for a cost not to exceed \$1,317,800.



Task Order 2.2

Under Master Services Agreement executed on April 26, 2024 between
San Francisquito Creek Joint Powers Authority
and WRA Environmental Consultants

October 20, 2025

WRA PROJECT NO. 340107

PURPOSE

WRA, Inc. (WRA), is submitting Task Order 2.2 (TO2.2) of our Master Services Agreement to continue to provide professional consulting services to the San Francisquito Creek Joint Powers Authority (Client) through October 31, 2026.

TO2.2 consists of WRA engineers, modelers, geomorphologists, landscape architects, and permitting specialists along with structural and geotechnical design from our Subconsultants, Consor Engineering (Conсор) and Crawford and Associates (Crawford), to provide continued and augmented support for the Reach 2 project (Project) along San Francisquito Creek. This scope of work provides a comprehensive approach to mitigating flood risk and enhancing the ecological function of San Francisquito Creek within current limitations of the Project. WRA will support the evaluation of project alternatives, culminating in the selection of a staff-recommended solution. Community outreach efforts are included to engage stakeholders and gather feedback, as well as the development of preliminary 30% engineering designs to refine and visualize the proposed improvements. Together, these efforts will establish a solid basis for safely and effectively advancing creek restoration and flood-risk reduction in the Reach 2 Project area.

WORK PRODUCTS

- Task 1: Project Management, Coordination, and Meetings
 - Monthly Invoice Memoranda
 - Weekly meeting agendas and summaries
- Task 2: Revised Alternatives Evaluation Report
 - Final Alternatives Evaluation Report
 - Memorandum of Updated Model Results (Appendix to the Report)
 - Updated comment response form
- Task 3 Updated Alternatives Analysis and Evaluation Support
 - Design charrette meeting minutes
 - Up to four (4) Widening and Floodwall Conceptual Level Exhibits



- Detailed information for the evaluation of Alternatives
 - 10% Conceptual design plans for 5 alternatives
- Task 4: Staff-and SFCJPA Member Recommended Alternative
 - Design charette meeting minutes
 - 4 High-resolution “before” photographs
 - 4 Conceptual Renderings of the selected alternative
 - 1 “before” video flyover of Reach 2
 - 1 Video Rendering of a 0.5-mile stretch of the selected alternative
- Task 5: Community Outreach
 - Informative text about the project and community meetings, including factsheets and posters (Client to print meeting materials)
 - Modified PowerPoint presentation
 - Agendas, Comment cards, Sign-in sheets, Materials list
 - Attendance for four (4) WRA staff at three in-person community meetings.
 - Community Engagement Summary Memo
 - Virtual attendance for three (3) WRA staff at two (2) Board meetings
- Task 6: Supplemental EIR Support
 - Project Description and SEIR technical input
- Task 7: 30% Engineering Design
 - 30% Design Plan Set
 - 30% Design OPCC
 - 30% Basis of Design Memorandum
 - Hydraulic Modeling Memorandum
- Task 8: Coordination with USACE and Modeler User’s Group
 - Attendance for two (2) WRA staff at three (6) model user group meetings
- Task 9: Structural Engineering Support (sub-consultant - Consor)
 - 30% Structural Engineering Plan Set
 - 30% Basis of Design Structural Memorandum
 - 30% Cost Estimate
 - Existing utilities base map
 - Utility “A” Letters
- Task 10: Geotechnical Engineering Support (sub-consultant - Crawford)
 - Preliminary Geotechnical Memorandum
 - 30% Preliminary Geotechnical Report
 - Up to five (5) creek bed gradation curves

SCOPE OF WORK

The following tasks are included in this scope of work:

TASK 1: Project Management, Coordination, and Meetings

Task 1 is broken down into subtasks to address the various efforts involved, ensuring a comprehensive approach to project execution. Each subtask is designed to focus on specific aspects of the overall task, promoting efficiency and clarity throughout the process.



TASK 1a: Project Management

This subtask includes time for continued project management, ensuring that all aspects of the project are effectively coordinated and executed. Key project management activities will involve earned value and timeline management, resource allocation, scope, schedule and resource risk assessment, budget tracking, invoicing, and progress update reporting. The Project Manager (PM) and Principal-in-Charge (PIC) will also prepare monthly invoice memos describing work performed and summarizing project status, not to exceed two (2) hours per month.

Task 1a Deliverables:

- Monthly invoice memoranda with project status summaries

The estimated cost for this subtask is \$45,300.

TASK 1b: Internal Check-in Meetings

This subtask focuses on internal project team coordination to enhance communication and collaboration throughout the Project lifecycle. This task is primarily related to internal meetings and coordination to continually align developing work products. This task's budget includes a one-hour weekly internal coordination meeting over a period of 34 weeks. This assumes a start date of November 4, 2025 and an end date of June 30, 2026. It is assumed as part of this scope of work that coordination efforts extending beyond June 30, 2026, will require a modified Technical Request.

The estimated cost for this subtask is \$91,000.

TASK 1c: Client/WRA Progress Meetings

This subtask includes time for project-related meetings between the Client, WRA, and subconsultants. WRA has assumed one (1) hour, weekly meetings will be sufficient for the duration of the scope. Expected WRA staff attendance will be the PIC, PM, engineer lead, and notetaker. Others may attend on an as-needed or as-requested basis. Subconsultants may attend periodically. The total number of meetings is estimated to be **34**, lasting between November 4, 2025 and June 30, 2026. Progress Meetings beyond June 30, 2026 will require a modified Technical Request. This subtask also includes time to prepare agendas and summaries for each meeting.

Task 1c Deliverables:

- Weekly meeting agendas and summaries

The estimated cost for this subtask is \$100,200.

TASK 1d: Stakeholder Meetings

This subtask will focus on external stakeholder meetings, such as meetings with Member Agencies, Stanford University, and Regulatory Agencies, for general project updates. Anticipated meetings for specific tasks (i.e. the FWOP model) are included in the appropriate corresponding tasks. This subtask is specifically intended for any other general meetings that may arise to provide project status updates to stakeholders. WRA has included a total of **6** meetings in this task. WRA staff attendance will be the PIC, PM, and engineering lead.

The estimated cost for this subtask is \$7,300.



TASK 2: Revised Alternatives Evaluation Report

This task will focus on the revised the draft Alternatives Evaluation Report produced by WRA. The report will be updated to address outstanding comments from the Client and member agencies, along with a new discussion on the effects of University Avenue Bridge. To date, WRA has received comments from the Client, Valley Water, OneShoreline, the City of East Palo Alto, the City of Menlo Park, the City of Palo Alto on past deliverables. These comments will be used to inform the revised draft final report. No further comments are expected.

An additional analysis on the effects of University Avenue Bridge on creek capacity and flooding will be performed using the USACE ATR hydraulic model. A discussion of the results of keeping the bridge in place, completely removing it, and modifying it with increased capacity (similar to the proposed Newell Road Bridge) will be included in the report. This assessment is intended to provide more detailed information on how University Avenue Bridge may impact water stages in the creek and the opportunities available to increase capacity at this location.

Additionally, using the USACE ATR hydraulic model, WRA will create new inundation flood maps of adjacent areas for the 7,200 cfs and 100-year storm events for both existing conditions and Alternative 2. A brief memorandum summarizing the results of the model runs and the differences between the previous hydraulic model and the ATR model results will be included as an appendix to the final report. The final report will include the Engineer of Record name and professional civil engineer license number.

WRA assumes one (1) round of comment addressal will occur upon receipt of all Client and member agency comments. WRA will incorporate comments, where applicable, into the alternative evaluation report and update the comment response form.

Task 2 Deliverables:

- Revised Draft Final Alternatives Evaluation Report
- Memorandum of Updated Model Results (Appendix to the Report)
- Updated comment response form

The estimated cost for this task is \$40,800.

TASK 3: Updated Alternatives Analysis and Evaluation Support

This task will focus on the analysis of up to five (5) new alternatives for achieving 7,200 cfs capacity within Reach 2. Design elements anticipated to be considered in the alternatives include, but are not limited to floodwalls, channel widening, bridge removals (including private pedestrian bridges and Pope-Chaucer bridge), and a bypass tunnel. The goal of this task is to develop an alternative that is accepted and preferred by all SFCJPA and member agency staff.

Task 3 is broken down into subtasks to address the various efforts involved. Each subtask is designed to focus on specific aspects of the overall task.

Task 3a: Development of List of Alternatives

WRA will develop a preliminary list of project alternatives to be discussed with the Client and member agencies in a future design charrette. Preliminary hydraulic modeling iterations and background research will be conducted to assist in the development of potential alternatives and

provide additional technical information for creek capacity increases, constraints, and opportunities for design elements.

Task 3a Deliverables:

- Preliminary list of alternatives

The estimated cost for this subtask is \$11,100.

Task 3b: Design Charette

After Task 3a is complete,, WRA will finalize the preliminary list of project alternatives in coordination with the Client and member agencies. An in-person design charette will be held to finalize the list of alternatives to be further evaluated. WRA will prepare electronic meeting materials, such as brief descriptions of each alternative, and provide meeting minutes following the design charette.

Task 3b Deliverables:

- Design charette meeting minutes

The estimated cost for this subtask is \$21,400.

Task 3c: Alternatives Analysis

Once the list of alternatives is established, WRA will develop suitable design elements for each alternative with the following criteria in mind:

- Construction cost and duration
- Operations and Maintenance needs
- Land Ownership/Acquisition, Right-of-Way Requirements
- Impacts on existing infrastructure
- Environmental/habitat enhancements
- Recreational enhancement opportunities
- Permitting complexity
- Level of fit within EIR
- Tree impacts
- Resiliency
- Expected sediment transport changes

Design elements anticipated to be considered in the alternatives include, but are not limited to, floodwalls, channel widening, bridge removals (including private pedestrian bridges and Pope-Chaucer bridge), and a bypass tunnel. WRA will evaluate each individual design element along with the combination of elements included in the alternatives. A description of the expected analysis for some design elements is provided below.

Floodwalls

WRA will evaluate various floodwall types to determine the most suitable option(s) for the project site. The analysis will consider the floodwalls' integration with existing infrastructure, cost, constructability, maintenance, land acquisition requirements, resiliency, environmental impact, opportunities for recreational improvements, and aesthetics. The selected floodwall type(s), size, and locations will be included in 10% conceptual plans (see task 3f).

Channel Widening

The channel widening analysis will explore a range of design alternatives to increase flood capacity and enhance habitat within Reach 2. Previously considered options included a sheetpile wall to provide additional channel capacity and a log crib wall for both bank stabilization and habitat enhancement. In addition to these, we will evaluate other potential wall types suitable for the project site, such as gravity walls, segmental block walls, and mechanically stabilized earth (MSE) walls. The evaluation process will consider engineering feasibility, cost-effectiveness, ecological benefits, and compatibility with the channel's existing conditions. Each wall type will be assessed for its ability to withstand hydraulic forces, ease of installation, and maintenance requirements. Additionally, the potential for enhancing recreational and habitat opportunities will be considered, ensuring alignment with project restoration and community engagement goals. The selected channel widening design details, including wall type(s), bank stabilization measures, heights, and locations will be included in the 10% conceptual plans (see task 3f).

Furthermore, WRA will develop a mathematical correlation between channel widening and floodwall heights. Due to the complexity of the creek, this relationship will need to be established for various segments of Reach 2. The goal of this exercise is to understand how channel widening can reduce required floodwall heights for the 7,200 cfs design goal. As a hypothetical example, we may determine that in the segment between University Avenue and Newell Road Bridge, increasing the channel capacity by an average of 100 square feet results in a 1-foot reduction in water surface elevation (WSE). This reduction in WSE could then be translated to a reduction in the floodwall heights required to contain 7,200 cfs plus freeboard. This iterative process will be performed for incremental increases in channel capacity (up to established physical limitations at each site) to develop a relationship between channel capacity and required floodwall heights. The results of this will be documented in graphical plots and exhibits for each segment (to be established).

Private Pedestrian Bridge Removal

WRA will evaluate the effectiveness of removing the existing privately-owned pedestrian bridges that span Reach 2. If removal of the bridges is determined to be effective at reducing flood stages and/or floodwall heights for a 7,200 cfs event, WRA will further evaluate this option as it relates to the evaluation criteria listed above.

Bypass Tunnel (analyzed by others)

It is WRA's understanding that another consultant (working separately with the Client) is analyzing the potential for a bypass tunnel to provide additional capacity in Reach 2. WRA will incorporate to information provided to us into our analysis, as it relates to the evaluation criteria listed above. for alternatives that include a bypass tunnel.

The estimated cost for this subtask is \$38,200.

Task 3d: Hydraulic Modeling of Alternatives

This analysis will require hydraulic model iterations for each alternative to determine the appropriate channel widening extents, floodwall heights, additional bypass tunnel capacity, and effects of pedestrian bridge removal. To develop widening areas for alternatives, WRA will begin by modeling Valley Water's (VW) designs, both East Palo Alto (EPA) and Palo Alto (PA) widening



locations, to determine the capacity achieved using the USACE ATR hydraulic model. WRA will then confirm if the widening locations proposed by VW are still advantageous. After evaluating VW's designs, WRA will employ the mathematical relationship developed between channel widening and floodwall heights to determine if widening locations and dimensions need to be adjusted. This evaluation will be performed for each alternative that proposes floodwalls and channel widening. WRA will provide the Client with up to four (4) conceptual level exhibits showing the incremental widening dimensions and associated floodwall heights required to meet the design goal of 7,200 cfs in-channel capacity. WRA and the Client will then select the appropriate widening and floodwall configurations for each alternative.

Task 3d Deliverables:

- Up to four (4) Widening and Floodwall Conceptual Level Exhibits

The estimated cost for this subtask is \$39,300.

Task 3e: Site Visit

This task includes one site visit with key personnel to ensure a thorough and accurate assessment of current conditions and to inform the development of effective alternatives. The primary goal of the site visit is to thoroughly verify current site conditions with the involvement of multiple specialists, including engineers, landscape designers, and drone operators. This team effort is essential to confirm detailed features that cannot be fully assessed through desktop analysis, such as terrain, environmental conditions, and infrastructure elements. Targeted field verification using RTK GPS will be conducted at specific locations where existing elevation data shows uncertainties.

Additionally, a drone will be deployed to capture a comprehensive video flyover of the creek corridor from the Middlefield Road Bridge to Highway 101, providing a valuable visual record to inform future renderings. High-quality photographs will be collected to document existing creek conditions, surrounding landscape, access points, and nearby infrastructure. These images will be used as the base imagery on which conceptual enhancements will be overlaid, ensuring both spatial accuracy and visual clarity (see Task 4b).

Overall, this coordinated effort aims to refine our understanding of on-the-ground conditions, support ideation, and enhance the accuracy of our alternatives analysis, ultimately leading to more informed and effective planning.

The estimated cost for this subtask is \$10,900.

Task 3f: Evaluation of Alternatives Support

Following the technical analysis of the alternatives, WRA will provide the Client with enough information to develop a comprehensive memorandum (developed by the Client), detailing how each alternative compares to the evaluation criteria considered. The following information will be provided to the Client:

- Alternative Description
- Opinion of Probable Construction Costs (following AACE Class 4)
- Estimated construction schedule, including phasing of project elements (if necessary)



- Operations and Maintenance needs (e.g. access locations, short- and long-term maintenance requirements, etc.)
- Land ownership/acquisition information, including Right-of-Way requirements
- Impacts on existing infrastructure
- Environmental/habitat enhancements
- Recreational enhancement opportunities
- Permitting considerations
- EIR considerations
- Expected sediment transport changes
- Resiliency of the alternative with climate change
- Quantity and type of trees impacted

Task 3f Deliverables:

- Detailed information for the evaluation of Alternatives

The estimated cost for this subtask is \$77,000.

Task 3g: 10% Conceptual Design Plans

WRA will produce 10% Conceptual Design Plans for each alternative, with a level of detail similar to Valley Water's 2013 Draft Planning Study. The following sheets will be included:

- Plan View
- Profile View
- Typical cross sections (one per site)
- Right-of-Way Requirements

Task 3g Deliverables:

- 10% Conceptual design plans for 5 alternatives

The estimated cost for this subtask is \$91,600.

TASK 4: SFCJPA and Member Agency Staff-Recommended Alternative

This task will focus on the selection and development of a staff-recommended alternative, with input from all five SFCJPA members. This task has been divided into subtasks to cover the details of each component thoroughly.

Task 4a: Design Charette

Following the completion of Task 3, an in-person design charette will be scheduled with WRA, the Client, and member agencies to discuss the outcomes of the alternatives evaluation. Following the design charette, WRA will coordinate with the Client and member agencies to select an alternative to proceed to 30% engineering design. WRA will prepare electronic meeting materials, such as exhibits and details of each alternative, and provide meeting minutes following the design charette.

Task 4a Deliverables:

- Design charette meeting minutes

The estimated cost for this subtask is \$22,100.



Task 4b: Conceptual Renderings

This task will include the development of detailed conceptual renderings that visually depict the "before and after" conditions for four (4) agreed upon sites along the creek. These sites will be chosen based on their significance, visibility, and potential impact of the proposed improvements. To ensure accuracy and relevance, a comprehensive site visit will be conducted to capture high-resolution photographs of the existing conditions at each selected site (included in Task 3e). These photographs will serve as foundational base maps for the creation of accurate and realistic conceptual renderings. The renderings will illustrate the proposed improvements of the selected alternative, providing a clear visual comparison of current versus future conditions.

In addition to static renderings, WRA will produce a dynamic video flyover of the creek corridor from the Middlefield Road Bridge extending to Highway 101. This video will be created using aerial drone footage, captured during a planned site visit (see Task 3e), to provide a comprehensive visual overview of current conditions. The video flyover will serve as a foundational visual tool to support the development of a rendered visualization of the selected alternative, providing stakeholders with a clear understanding of the project's scope and visual impact. Given the complexity and resource requirements associated with producing high-quality video renderings, it is recommended that the Client specify a specific segment within a roughly 0.5-mile stretch of Reach 2 for which a detailed video rendering is desired. This focus will allow for a more targeted investment of resources and a more detailed, compelling visualization of the preferred alternative.

Task 4b Deliverables:

- 4 High-resolution "existing conditions" photographs
- 4 Conceptual Renderings of the selected alternative
- 1 "existing conditions" video flyover of Reach 2
- 1 Video Rendering of a 0.5-mile stretch of the selected alternative

The estimated cost for this subtask is \$33,900.

TASK 5: Community Outreach

WRA will support the Client for community outreach meetings to inform and solicit public input on the staff-recommended alternative. This task is further broken down into subtasks to address the various efforts involved. Each subtask is designed to focus on specific aspects of the overall task. The final deliverables for this task include materials for three (3) in-person community meetings, and a summary of input received at the community meetings.

TASK 5a: Coordination

This subtask includes time to coordinate planning around all three in-person community meetings, including one meeting that will be recorded and included on SFCJPA's website to reach a wider audience. This subtask includes meetings between WRA and the Client to define the approach of the community meetings, as well as email correspondence between WRA and the Client and its partners, including Nuestra Casa. WRA understands that additional coordination and meetings with Nuestra Casa may be required to ensure that the content of the community meetings is culturally competent. This includes helping Nuestra Casa coordinate interpretation. WRA anticipates meetings with the Client and its partners specifically regarding community outreach

for a total of 12 coordination meetings. WRA assumes coordination meetings will last one hour. WRA understands that the Client will lead efforts such as scheduling and locating venues for each community meeting.

The estimated cost for this subtask is \$12,500.

TASK 5b: Craft and Gather Community Meeting Materials

This subtask includes drafting materials for the three in-person community meetings, including agendas (process agenda and external agenda), comment cards, sign-in sheets, and a materials list. This subtask also includes writing a copy summarizing the project and announcing the meetings. This copy can then be cross-posted by the Client on their website, newsletters, and press releases, etc. This subtask includes support of the Client's presentation, which will be the basis for the community meeting presentations. For this subtask, WRA will prepare digital files that will be sent to the Client, and which WRA will print prior to the meetings.

TASK 5b Deliverables:

- Informative text about the project and community meetings, including factsheets and posters (Client to print meeting materials)
- Modified PowerPoint presentation
- Agendas
- Comment cards
- Sign-in sheets
- Materials list

The estimated cost for this subtask is \$5,000.

TASK 5c: Attend Community Meetings

For this subtask, four (4) WRA staff will attend each of the three in-person community meetings, which will take place in each of the Reach 2 jurisdictions of Menlo Park, Palo Alto, and East Palo Alto. The Client and WRA staff will present the design alternatives, provide technical information, and answer questions from community members, as well as keep the meeting focused on schedule, and take notes. WRA understands that SFCJPA staff will also present during these meetings.

TASK 5c Deliverables

- Attendance for four (4) WRA staff at three in-person community meetings.

The estimated cost for this subtask is \$13,000.

TASK 5d: Process and Summarize Community Input

Following the community meetings, WRA will summarize the community input received from the three meetings to present to the Board of Directors at a future Board Meeting. The community input summary may likely be in the form of a short (four pages or less) memo, but will depend on the input received from the community.

TASK 5d Deliverables

- Community Engagement Summary Memo



The estimated cost for this subtask is \$7,100.

Task 5e: Board Meetings

Following the completion of Task 5d, the staff-recommended alternative will be presented to the SFCJPA Board of Directors by the Client. WRA will attend the meeting virtually to support technical questions from the Board and public. Additionally, WRA will also attend the following Board meeting where the Board will select the project alternative.

TASK 5e Deliverables

- Attendance for three (3) WRA staff at two (2) Board meetings

The estimated cost for this subtask is \$3,200.

TASK 6: Supplemental EIR Support

WRA will provide input to, and review a draft version of, the Project Description prepared by the Client and EMC Planning Group for the Notice of Preparation (NOP) of a Supplemental Environmental Impact Report (SEIR). This Project Description will be prepared for the Board-selected project alternative to be evaluated in the SEIR. WRA assumes a total of two (2) rounds of review and comment on the draft Project Description.

WRA will provide engineering and technical input on the draft Project Description in the following areas:

- Project phasing and implementation schedule
- Project construction methods and estimated quantities (including staging, equipment, sequencing, etc.)
- Project operations and maintenance
- Habitat enhancements expected to result from Project implementation
- Recreational improvements expected to result from Project implementation
- Typical cross-sections through the Project
- Before and after renderings of the Project

Additionally, WRA's CEQA Specialist will support the development of the SEIR, ensuring that sufficient detail is included to present a complete picture of the proposed Project to both responsible agencies and the general public. WRA will review the draft SEIR to ensure that the details needed to assess all potential environmental impacts associated with aspects of the proposed Project not previously evaluated in the 2019 Environmental Impact Report for the Upstream of Highway 101 Project are included. WRA assumes a total of two (2) rounds of review and comment on the Administrative Draft SEIR.

Task 6 Deliverables:

- WRA will provide input on the following:
 - Description of Project Phasing and Schedule
 - Construction Details and estimated quantities
 - Staging areas
 - Operations and Maintenance
 - Habitat enhancements



- Recreational improvements
- Typical sections
- Project rendering with before and after views
- NOP Project Description
- Administrative Draft SEIR

The estimated cost for this task is \$31,400.

TASK 7: 30% Engineering Design

Task 7 is broken down into subtasks to address the various efforts involved. Each subtask is designed to focus on specific aspects of the overall task.

Task 7a: Engineering Design Plans (30% Design)

This task will focus on the design and engineering plan set development of the Board-selected alternative. The Site widening extents may vary from those established in the 2019 FEIR and 90% VW designs due to the new restoration components included (e.g. log crib wall). This task also includes the design of a permanent floodwall to replace the temporary wooden floodwall at University Avenue Bridge along Woodland Avenue. WRA will review the article, “Moving from total risk to community-based risk trajectories increases transparency and equity in flood risk mitigation planning along urban rivers” (Serafin et al., 2024), confirm the additional height and length requirements needed for equitable risk management. Floodwall height and type selection will be included in the 30% Design. Construction quantities will be estimated for the 30% design and incorporated into a 30% level opinion of probably cost (OPCC) following AACE Class 3 standards.

WRA’s ISA-Certified Arborist will advise on all current and future project plans to assess impacts to trees with the underlying goal of protecting and preserving as many trees as possible within the project footprint. The arborist will propose edits to project plans to encourage tree protection and preservation to the maximum extent possible. This does not include on-site consultation or assessment. If project needs require the arborist to assess conditions on-site, a change order will be required.

The 30% Design will include, but is not limited to, the following:

General Sheets

- Vicinity Map and Title Page
- Site Map, Drawings Index, and General Notes
- Right of Way Layout
- Survey Layout

Civil Sheets

- Existing conditions Plan
- Construction Staging Areas
- Demolition Plan
- Tree Removal and Protection Plan
- Creek Plan and Profile
- Typical Cross Sections at each Site



- Details
- Example Dewatering Plan
- Utility Conflict Map

Landscape Architecture Sheets

- Planting Plans, Notes, and Details
- Erosion Control Plans, Notes, and Details

Structural Sheets

- General plan and notes
- Plan and profile of walls (if any)
- Typical Sections at each Site
- Wall Details

The 30% Design Plan Set will be provided to the Client and member agencies for review. WRA assumes the 30% Design comment addressal begins only after all Client and member agency comments are provided to WRA to manage conflicting comments. WRA will then meet with the Client to discuss solutions for addressing all the comments. WRA will then update the plan set and provide the revised deliverables to the Client for backcheck review. Any outstanding comments will be further discussed between WRA and the Client to determine the most effective way to address them. The 30% Design will then be finalized and provided to the Client. In total, three (3) rounds of external review are included.

Task 7a Deliverables:

- 30% Design Plan Set
- 30% Design Engineering Opinion of Probable Costs of Construction (OPCC)

The estimated cost for this subtask is \$86,600.

Task 7b: Basis of Design Memorandum

WRA will develop a preliminary Basis of Design (BOD) Memorandum to support the 30% Design. The 30% BOD Memorandum will be provided to the Client and member agencies for review. In total, three (3) rounds of external review are included.

Task 7b Deliverables:

- 30% Basis of Design Memorandum

The estimated cost for this subtask is \$25,400.

Task 7c: 30% Hydraulic Modeling

This task will focus on the hydraulic modeling efforts needed to support the 30% Design and geotechnical slope stability analysis. The hydraulic model developed in Task 3c for the selected alternative will be updated with more detail as the 30% Design is developed. Hydraulic model outputs, such as water surface elevations, scour calculations, and floodplain inundation maps, will be included in an appendix to the 30% Basis of Design Memorandum.

Task 7c Deliverables:

- Hydraulic Modeling Memorandum

The estimated cost for this subtask is \$19,400.

Task 7d: 30% Design Site Visit

During the 30% design phase, WRA engineers will conduct a site visit to facilitate more detailed observations, verify design assumptions, and gather site-specific information critical for advancing the project. This collaborative approach ensures that the design process is informed by a comprehensive understanding of on-the-ground conditions, ultimately leading to a more accurate, feasible, and well-coordinated 30% engineering design. Key personnel involved in design production will be in attendance.

The estimated cost for this subtask is \$8,100.

TASK 8: Coordination with USACE and Modeler User's Group

The Model User's group consists of SFCJPA, Valley Water, the US Army Corps of Engineers (USACE), and Stanford university. USACE, under their Continuing Authorities Program is concurrently evaluating Site 2 (and potentially Site 1) widening and the replacement of the temporary wooden floodwall along Woodland Avenue. USACE is developing the Future Without Project (FWOP) hydraulic model but continued coordination is needed for design. WRA will coordinate with USACE during the FWOP model development, including up to six (6) model user group meetings that may include USACE, Valley Water, and Stanford University. Additional model user group meetings that may include USACE and Stanford University are assumed for design and sediment transport, for a total of six model user group meetings.

Task 8 Deliverables:

- Attendance for two (2) WRA staff at three (6) model user group meetings

The estimated cost for this subtask is \$11,500.

TASK 9: Structural Engineering Support (sub-consultant - Consor)

Consor Engineers (Consor) will support the evaluation of the five new alternatives with the goal of identifying one to advance into the 30% design phase. Their tasks include project management activities, such as coordinating with the team, attending bi-weekly meetings, and liaising with the geotechnical subconsultant. They will support the alternatives analysis from a structural engineering perspective, examining different floodwall types, channel widening options, and structural considerations. Additionally, Consor will produce a comprehensive 30% structural engineering plan set for the selected alternative. This will encompass plans, sections, wall details, notes, a basis of design memorandum, and cost estimate. Lastly, Consor will collect existing utility data to develop a base map for the 30% design and coordinate with utility owners to provide Utility "A" Letters to owners at the completion of the 30% design. Refer to Consor's individual scope for details.

Task 9 Deliverables:

- 30% Structural Engineering Plan Set
- 30% Basis of Design Structural Memorandum
- 30% Cost Estimate



- Existing utilities base map
- Utility “A” letters

The estimated cost for this task is \$270,000.

TASK 10: Geotechnical Engineering Support (sub-consultant - Crawford)

Crawford and Associates (Crawford) will support several key tasks,. During the updated alternatives evaluation, Crawford will evaluate different floodwall and channel wall types from a geotechnical perspective, assessing their suitability based on soil conditions and hydraulic factors, and working closely with the structural team to develop appropriate design recommendations.

Additionally, Crawford will complete 30% design level engineering evaluation and analysis to develop recommendations for widening and floodwall designs. This includes a preliminary slope stability analysis using existing geotechnical and laboratory data. Additionally, Crawford will complete preliminary foundation analysis for deep and/or shallow foundations including bearing capacity and settlement. A Preliminary Geotechnical Report will be developed and include recommendations for additional subsurface exploration (if needed) to advance the design to 60%. The cost estimate includes project management through monthly meetings with our team and coordination with the structural subconsultant.

The Preliminary Geotechnical Report will include the following:

- Scope of geotechnical services
- Site and project description
- Discussion of geologic setting and slope conditions
- Description of subsurface conditions and groundwater
- Discussion of potential liquefaction and lateral spreading
- Geotechnical analysis/recommendations depending on the selected improvements (i.e. lateral earth pressures, min. wall embedment, shallow foundation considerations, feasible deep foundation types, etc.)
- Limitations
- General figures (i.e. vicinity map, geologic map, fault map)

Furthermore, to assist with the 30% hydraulic modeling, Crawford will collect up to five (5) bulk samples within the creek bed for gradation analysis. Crawford will deliver the samples to the laboratory and complete gradation testing following ASTM D6913. Refer to Crawford’s individual scope for details.

Task 10 Deliverables:

- Preliminary Geotechnical Memorandum
- 30% Preliminary Geotechnical Report
- Up to five (5) creek bed gradation curves

The estimated cost for this task is \$50,000.

TASK 11: Technical Requests

This task covers technical requests from SFCJPA that cannot be anticipated at this time. Examples of Technical Requests include:

- Additional geotechnical studies or surveys needed to develop engineering designs
- 30% engineering and design for additional alternatives to help inform selection of a staff-preferred alternative, as requested by the Client or member agency staff
- Engineering, coordination, and other efforts required to revise and incorporate previous Pope-Chaucer bridge replacement designs into 30% design engineering plan set

The SFCJPA will review and approve the cost estimates for new tasks and retains its sole discretion on the allocation of funding for new tasks.

The estimated cost for this task is \$125,000.



SCHEDULE

Work can begin immediately upon execution of Task Order 2 and will follow the preliminary project schedule provided by WRA. The project schedule will be updated by the WRA Project Manager as the project develops. The table below provides a timeline of anticipated deliverables.

Task	Anticipated Delivery Date
Task 1: Project Management, Coordination, and Meetings	November 2025 – October 2026
Task 2: Final Alternatives Evaluation Report	November 2025 – January 2026
Task 3: Alternatives Analysis and Evaluation Support	November 2025 – February 2026
Task 4: Staff-Recommended Alternative	February – March 2026
Task 5: Community Outreach	March – May 2026
Task 6: Supplemental EIR Support	June – October 2026
Task 7: 30% Engineering Design	June – October 2026
Task 8: Coordination with USACE and Modeler User's Group	November 2025 – October 2026
Task 9: Structural Engineering Support (sub-consultant)	November 2025 – October 2026
Task 10: Geotechnical Engineering Support (sub-consultant)	November 2025 – October 2026
Task 11: Contingency	N/A

STAFFING

Aaron Sutherlin will be the Principal in Charge (PIC) of this project. Angela Hogan will be the Project Manager (PM). Chris Feng will be the consulting engineer on the project (License #94524; professional engineers are licensed by the State of California). Jeanine Strickland will be the landscape architect on the project (License #4285; landscape architects are licensed by the State of California). Other staff will be assigned to the project as necessary to complete the work outlined in this scope of work.

ADDITIONAL ASSUMPTIONS

The following assumptions have been made in the preparation of this Task Order:

- Any previous correspondence between Client or the project owner and government agencies that relates to WRA's proposed work will be provided to WRA.
- Task 1 assumes a start date of November 4, 2025 and an end date of October 31, 2026.
- For all tasks involving stakeholder review, comments will be provided to WRA at once.
- Topographic and boundary survey data will be provided by the Client and is assumed to be sufficient for producing preliminary 30% designs.
- Refer to Consor's and Crawford's individual scopes for work for specific assumptions.



ESTIMATED COSTS

The estimated cost for the services described in this TO2.2 totals \$1,317,800. This cost is based on the assumptions above and normal working conditions. Costs may be reallocated between tasks that are based on time and materials, but the total cost shown below will not be exceeded.

TASK	COST
<i>Task 1: Project Management, Coordination, and Meetings</i>	\$243,700
<i>Task 2: Final Alternatives Evaluation Report</i>	\$40,800
<i>Task 3: Alternatives Analysis and Evaluation Support</i>	\$289,500
<i>Task 4: Staff-Recommended Alternative</i>	\$56,000
<i>Task 5: Community Outreach</i>	\$41,000
<i>Task 6: Supplemental EIR Support</i>	\$31,400
<i>Task 7: 30% Engineering Design</i>	\$138,900
<i>Task 8: Coordination with USACE and Modeler User's Group</i>	\$11,500
<i>Task 9: Structural Engineering Support (sub-consultant)</i>	\$270,000
<i>Task 10: Geotechnical Engineering Support (sub-consultant)</i>	\$70,000
<i>Task 11: Technical Requests</i>	\$125,000
TOTAL	\$1,317,800.00



ID	Task Name	Duration	Start	Finish	5	Aug	Sep	Qtr 4, 2025	Oct	Nov	Dec	Qtr 1, 2026	Jan	Feb	Mar	Qtr 2, 2026	Apr	May	Jun	Qtr 3, 2026	Jul	Aug	Sep	Qtr 4, 2026	Oct	Nov	Dec	Qtr 1, 2027	Jan	Feb	
1	Task Order 2 - SFC Reach 2 Project	268 days	Tue 11/4/25	Wed 11/11/26	Task Order 2 - SFC Reach 2 Project Task 1: Project Management Task 2: Final Alternatives Evaluation Report Task 3: Alternatives Analysis and Evaluation Support Task 4: Staff-Recommended Alternative																										
2	Task 1: Project Management	268 days	Tue 11/4/25	Wed 11/11/26																											
3	PM, Coordination, and Meetings	268 days	Tue 11/4/25	Wed 11/11/26		PM, Coordination, and Meetings																									
4	Task 2: Final Alternatives Evaluation Report	30 days	Tue 11/4/25	Mon 12/15/25																											
5	Hydraulic Modeling Updates	15 days	Tue 11/4/25	Mon 11/24/25																											
6	Report Revisions	20 days	Tue 11/4/25	Mon 12/1/25																											
7	External Review	5 days	Tue 12/2/25	Mon 12/8/25																											
8	Revisions	5 days	Tue 12/9/25	Mon 12/15/25																											
9	Final Report	0 days	Mon 12/15/25	Mon 12/15/25																											
10	Task 3: Alternatives Analysis and Evaluation Support	76 days	Tue 11/4/25	Tue 2/17/26																											
11	Develop list of Alternatives	11 days	Tue 11/4/25	Tue 11/18/25																											
12	Design Charette to Develop List of Alternatives	0 days	Wed 11/19/25	Wed 11/19/25																											
13	Alternatives Analysis	35 days	Wed 11/19/25	Tue 1/6/26																											
14	Hydraulic Modeling	35 days	Wed 11/19/25	Tue 1/6/26																											
15	Site Visit	0 days	Wed 12/10/25	Wed 12/10/25																											
16	Evaluation of Alternatives Support	30 days	Wed 1/7/26	Tue 2/17/26																											
17	10% Conceptual Design Plans	30 days	Wed 1/7/26	Tue 2/17/26																											
18	Task 4: Staff-Recommended Alternative	34 days	Mon 2/23/26	Thu 4/9/26																											
19	Design Charette to Select Alternative	0 days	Mon 2/23/26	Mon 2/23/26																											
20	Staff-Recommended Alternative Selected	0 days	Fri 2/27/26	Fri 2/27/26																											
21	Conceptual Renderings	30 days	Fri 2/27/26	Thu 4/9/26																											
22	Memo Summarizing all Alternatives (Client to produce)	30 days	Fri 2/27/26	Thu 4/9/26																											
Page 1																															

ID	Task Name	Duration	Start	Finish	5	Aug		Sep	Qtr 4, 2025		Oct	Nov	Dec	Qtr 1, 2026		Jan	Feb	Mar	Qtr 2, 2026		Apr	May	Jun	Qtr 3, 2026		Jul	Aug	Sep	Qtr 4, 2026		Oct	Nov	Dec	Qtr 1, 2027		Jan	Feb		
23	Task 5: Community Outreach	73 days	Mon 3/16/26	Thu 6/25/26																																			
24	Craft Meeting Materials	25 days	Mon 3/16/26	Fri 4/17/26																																			
25	Community Meeting 1	0 days	Tue 4/21/26	Tue 4/21/26																																			
26	Community Meeting 2	0 days	Wed 4/22/26	Wed 4/22/26																																			
27	Community Meeting 3	0 days	Thu 4/23/26	Thu 4/23/26																																			
28	Summarize Community input	10 days	Thu 4/23/26	Wed 5/6/26																																			
29	Presentation to the Board	0 days	Thu 5/28/26	Thu 5/28/26																																			
30	Board Selects Project Alternative	0 days	Thu 6/25/26	Thu 6/25/26																																			
31	Task 6: Supplemental EIR Support	99 days	Thu 6/25/26	Mon 11/9/26																																			
32	Project Description	20 days	Thu 6/25/26	Wed 7/22/26																																			
33	Draft SEIR	99 days	Thu 6/25/26	Mon 11/9/26																																			
34	Task 7: 30% Engineering Design	99 days	Thu 6/25/26	Mon 11/9/26																																			
35	30% Design Plans & Cost Estimate	60 days	Thu 6/25/26	Tue 9/15/26																																			
36	30% Basis of Design Memo	30 days	Thu 7/9/26	Tue 8/18/26																																			
37	30% Hydraulic Modeling	30 days	Thu 6/25/26	Tue 8/4/26																																			
38	30% Site Visit	0 days	Tue 8/4/26	Tue 8/4/26																																			
39	External Review	5 days	Wed 9/16/26	Tue 9/22/26																																			
40	Revisions #1	10 days	Wed 9/23/26	Tue 10/6/26																																			
41	External Review	5 days	Wed 10/7/26	Tue 10/13/26																																			
42	Revisions #2	10 days	Wed 10/14/26	Tue 10/27/26																																			
43	External Review	3 days	Wed 10/28/26	Fri 10/30/26																																			
44	Revisions #3	6 days	Mon 11/2/26	Mon 11/9/26																																			

Task 5: Community Outreach

Craft Meeting Materials

Community Meeting 1

Community Meeting 2

Community Meeting 3

Summarize Community input

Presentation to the Board

Board Selects Project Alternative

Task 6: Supplemental EIR Support

Project Description

Draft SEIR

Task 7: 30% Engineering Design

30% Design Plans & Cost Estimate

30% Basis of Design Memo

30% Hydraulic Modeling

30% Site Visit

External Review

Revisions #1

External Review

Revisions #2

External Review

Revisions #3

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ID	Task Name	Duration	Start	Finish	5	Aug	Sep	Qtr 4, 2025	Oct	Nov	Dec	Qtr 1, 2026	Jan	Feb	Mar	Qtr 2, 2026	Apr	May	Jun	Qtr 3, 2026	Jul	Aug	Sep	Qtr 4, 2026	Oct	Nov	Dec	Qtr 1, 2027	Jan	Feb
45	Final 30% Design	0 days	Mon 11/9/26	Mon 11/9/26																										
46	Task 8: Model User's Group Coordination	266 days	Tue 11/4/25	Mon 11/9/26																										
47	FWOP Model Development (USACE to complete)	43 days	Tue 11/4/25	Thu 1/1/26																										
48	Continued Coordination	266 days	Tue 11/4/25	Mon 11/9/26																										

◆ Final 30% Design

Task 8: Model User's Group Coordination

FWOP Model Development (USACE to complete)

Continued Coordination



SAN FRANCISQUITO CREEK
JOINT POWERS AUTHORITY
SFCJPA.ORG

RESOLUTION NUMBER 23-10-25-A

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
SAN FRANCISQUITO CREEK JOINT POWERS AUTHORITY
Authorizing the Executive Director to
negotiate with WRA Environmental
Consultants for continued analysis and
design for the Reach 2 Project.**

BE IT RESOLVED by the Board of Directors of the San Francisquito Creek Joint Powers Authority that the Board of Directors hereby Authorizes the Executive Director to negotiate appropriate scope, schedule and costs for the execution of Task Order 2.2 under the Master Services Agreement to conduct necessary analyses to plan, and design Reach 2 project elements.

Approved and adopted on Thursday, October 23, 2025, the undersigned hereby certify that the foregoing Resolution was duly adopted by the Board of Directors of the San Francisquito Creek Joint Powers Authority.

INTRODUCED AND PASSED:

AYES:

NOES:

ABSENT:

ABSTAIN:

APPROVED:

ATTEST:

Chairperson

Date: (add)

Clerk of the Board as attester

Date: (add)

APPROVED AS TO FORM:

Legal Counsel

Date: (add)

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