BOARD OF COMMISSIONERS
MEETING AGENDA

Walnut Valley Water District
271 S. Brea Canyon Road
Walnut, CA 91789

Thursday, April 4, 2024
8:00 A.M.

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance, to take action on any item.

Materials related to an item on this agenda submitted after distribution of the agenda packet are available for public review at https://puentebasin.com/board-packets/ or during regular business hours at the Walnut Valley Water District office, located at 271 S. Brea Canyon Road, Walnut, California.

1. Call to Order — Chair Lewis

2. Flag Salute — Chair Lewis

3. Roll Call — Ms. Fleming

Chairman Lewis	_____	Vice-Chairman Woo	_____
Commissioner Lima	_____	Commissioner Lee	_____

4. Public Comment — Chair Lewis
The Chair may impose reasonable limitations on public comments to assure an orderly and timely meeting.

5. Approval of Minutes for February 1, 2024 — Chair Lewis
(1) Discussion (2) Action Taken

6. PBWA Legislative Activities

   A. CA Water for All Campaign Update — Mr. Macias

   B. SB 1330 (Archuleta) Urban Retail Water Supplier: Water Use — Mr. Coleman

7. Regional Water Supply Reliability Program

A. Puente Basin Groundwater Management Plan — Mr. Macias
   i. Consider Award of Second Amendment to Professional Consultant Services Agreement with West Yost for Groundwater Management Plan, Phase 2 – Part 1 of the Puente Basin Groundwater Management Plan
      (1) Discussion (2) Action Taken

B. California Domestic Water Company — Mr. Coleman

C. Central Basin — Mr. Coleman

D. Pomona Basin Regional Groundwater Project — Mr. Macias
   i. Six Basins Groundwater Project Update
   ii. Proposition 84 Grant

E. Regional Water Supply Reliability Program Update — Mr. Macias

F. Advanced Water Treatment Facility — Mr. Macias

8. Attorney's Report — Mr. Ciampa

9. Commission Follow-Up — Mr. Macias

10. Commissioner Comments

11. Items for Future Discussion/Review — Chair Lewis
    A. Consider Bond Issuance for Walnut Valley Water District

12. Adjournment
    - *Next Commission Meeting:*
      Rowland Water District on Thursday, June 6, 2024 at 8:00 a.m.

MINUTES OF MEETING
OF THE BOARD OF COMMISSIONERS OF
PUENTE BASIN WATER AGENCY

February 1, 2024
At the Offices of the
Rowland Water District

COMMISSIONERS PRESENT:
Theresa Lee, Commissioner
Robert Lewis, Commissioner
Anthony Lima, Commissioner
Henry Woo, Commissioner

STAFF PRESENT:
Jared Macias, Administrative Officer
Tom Coleman, Assistant Administrative Officer
Myra Malner, Treasurer
Josh Byerrum, Assistant Treasurer
Jim Ciampa, Legal Counsel
Carmen Fleming, Secretary

Staff, guests and others in attendance: Ms. Gabriela Palomares, Mr. Robert Leamy and Mr. Dusty Moisio, Rowland Water District; and Ms. Sherry Shaw, Mr. Tom Monk, and Mr. Erik Hitchman, Walnut Valley Water District.

The meeting was called to order at 8:20 a.m. with Chair Lee presiding.

Item IV: Public Comment
None.

Item V: Approval of Minutes for December 7, 2023

Upon consideration thereof, it was moved by Commissioner Lewis, seconded by Commissioner Lima, and unanimously carried (4-0) to approve the minutes of the Commission meeting held on December 7, 2023.

Chair Lee indicated that the motion was approved by a 4-0 vote

Item VI: Review of Financial Statements: Second Quarter FY 23-24

- Ms. Malner reviewed the Second Quarter Fiscal Year 2023-24 financials and answered questions posed by Commissioners.

Upon consideration thereof, it was moved by Commissioner Lewis, seconded by Commissioner Lima, and unanimously carried (4-0), to receive, approve and file the financials for the Second Quarter Fiscal Year 2023-24.

Chair Lee indicated that the motion was approved by a 4-0 vote

Item VII: Receive and File Rowland and Walnut Valley Water Districts' 2024 PBWA Board Member Appointment Resolutions

- Mr. Macias reported the attached resolutions appointing Rowland and Walnut Valley Water Districts' Commissioners for 2024 were adopted by Rowland Water District's and Walnut Valley Water District's respective Boards of Directors.

Upon consideration thereof, it was moved by Commissioner Lewis, seconded by Commissioner Woo, and unanimously carried (4-0) to receive and file Rowland and Walnut Valley Water Districts' 2024 PBWA Board Member appointment resolutions.

Chair Lee indicated that the motion was approved by a 4-0 vote

Item VIII: Annual Selection of Commission Officers and Commission Staff

- As per the rotation policy, the Commission selected Commissioner Lewis to be the Chair and Commissioner Woo be seated as Vice-Chair of the Puente Basin Water Agency for the 2024 term, effective immediately.
- Also, the annual appointment of Administrative Officer, Assistant Administrative Officer, Treasurer, Assistant Treasurer, and Secretary shall be as set forth in the JPA Agreement.

Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Lima, and unanimously carried (4-0) that Commissioner Lewis be seated as Chair, and Commissioner Woo be seated as Vice-Chair of the Puente Basin Water Agency for the 2024 term, effective immediately. It was also moved that the Agency's administrative positions will be as follows: Mr. Marias as Administrative Officer, Mr. Coleman as Assistant Administrative Officer, Ms. Malner as Treasurer, Mr. Byerrum as Assistant Treasurer, and Ms. Fleming as Secretary of the Puente Basin Water Agency, for the 2024 term, effective immediately.

Chair Lee indicated that the motion was approved by a 4-0 roll call vote

Commissioner Lewis proceeded as Chair for the remainder of the meeting

Item IX: President's Special Recognition Award

- Certificates were presented for Commissioners to view.

Item X: Proposed Issuance of Revenue Bonds by PBWA for Walnut Valley Water District

- Mr. Macias reported that a resolution regarding revenue bonds will be brought to the commission for consideration in a future item.

Item XI: PBWA Legislative Activities

(1) *CA Water for All Campaign Update*

- The Commission was updated on the joint meetings that both Rowland Water District and Walnut Valley Water District are scheduling with local representatives to address the water challenges that negatively affect the state and to request their support for SB 366. The Commission will continue to be apprised of advancements in meetings with local representatives.

Item XII: Regional Water Supply Reliability Program Updates/Status:

(1) *Groundwater Management Plan for the Puente Basin*

- Mr. Macias noted that West Yost continues its effort in developing the Groundwater Management Plan for the Puente Basin. A meeting is scheduled for February 12, 2024 for continued stakeholder discussion.

(2) *California Domestic Water Company*

- Mr. Coleman noted that Cal Domestic project was operating at a single pump flow. Production for October through January was approximately 523 acre-feet.

(3) *Pomona Basin Regional Groundwater Project*

a. Consider Ratification of Payment for Tri County Pump Company Professional Services

- Staff informed the Commissioners of the work that needed to be finalized for the sanitation seal for the Old Baldy Well, in the amount of $71,778. The work was not part of the original plan and was in response to new well standards.

Upon consideration thereof, it was moved by Commissioner Lee, seconded by Commissioner Lima, and unanimously carried (4-0) to ratify the payment in the amount of $71,778 to Tri County Pump Company for time and materials work on the Old Baldy Well.

Chair Lewis indicated that the motion was approved by a 4-0 vote

b. Six Basins Groundwater Project Update –

- Mr. Macias reported on the Durward Well project's status.

c. Proposition 84

- Mr. Macias updated the Commission on the continuing project reporting required for the receipt of grant funds.

(4) *Proposition 1 Integrated Regional Water Management Grant*

- Mr. Macias reported that staff receives regular updates from Wendy La, of LASER, Inc. There were no significant updates for this item.

Item XIII: Commission Follow-Up
None**.**

Item XIV: Commissioner Comments
None.

Item XV: Items for Future Discussion/Review
None.

Item XVI: Attorney's Report
No report on this item.

Item XVII: Public Comment on Closed Session
No Closed Session was held.

Item XVIII: Adjournment at 9:24 a.m.

By consensus of the Commission the meeting ended at 9:24 a.m. The next Commission meeting is to be held April 4, 2024, at Walnut Valley Water District.

AMENDED IN SENATE MARCH 19, 2024

SENATE BILL No. 1330

Introduced by Senator Archuleta
(Coauthors: Senators Alvarado-Gil and Newman)

February 16, 2024

An act to amend Sections *1846.5*, 10609.14, 10609.20, ~~10609.22,~~ 10609.24, 10609.26, and 10609.33 of the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

SB 1330, as amended, Archuleta. Urban retail water supplier: water use.

Existing law requires the Department of Water Resources, in coordination with the State Water Resources Control Board, to conduct necessary studies and investigations, and recommend for adoption by the board appropriate variances for unique uses that can have a material effect on an urban retail water supplier's urban water use objective. Existing law requires the department, in recommending variances, to also recommend a threshold of significance for each recommended variance. Existing law requires an urban retail water supplier to request and receive approval by the board for inclusion of a variance in calculating their water use objective. Existing law requires the board to post specified information on its internet website relating to variances, including a list of all urban retail water suppliers with approved variances.

This bill would require the board to adopt variances recommended by the department for unique uses that can have a material effect on an urban retail water supplier's urban water use objective. The bill would provide that variances adopted by the board shall not be subject to a threshold of significance. The bill would require an urban retail water

supplier to self-certify the amount of water included in its urban water use objective that is attributable to a variance. The bill would require the board to randomly audit a select number of variances each year to ensure the self-certifications are based on variances adopted by the board. The bill would delete the provision relating to posting specified information about variances on the board's internet website and the provision requiring an urban retail water supplier to request and receive approval by the board for inclusion of a variance in calculating their water use objective.

Existing law requires an urban retail water supplier to calculate its urban water use objective ~~and its actual urban water use~~ no later than January 1, 2024, and by January 1 every year thereafter. Existing law requires each urban retail water supplier's water use objective to be composed of the sum of specified aggregate estimates, including efficient outdoor irrigation of landscape areas with dedicated irrigation meters or equivalent technology in connection with water used by commercial water users, industrial water users, institutional water users, and large landscape water users (CII). Existing law requires an urban retail water supplier to submit reports to the department, as provided, by the same dates.

This bill would require the department to collect and update data for outdoor residential landscapes and CII landscapes once every 10 years and post the data on its internet website. ~~The bill would authorize an urban retail water supplier to include in the calculation of the urban retail water supplier's water use up to 20% of the landscape areas that are not currently irrigated but could be irrigated.~~ The bill would authorize an urban retail water supplier to submit reports by January 1 or July 1 whether reporting is submitted on a calendar year or fiscal year basis. The bill would require, as part of the report to be submitted in 2026, each urban retail water supplier to provide a narrative that describes the water demand management measures that the supplier plans to implement to achieve its urban water use objective by January 1, 2030.

Existing law authorizes the board, on or after January 1, 2024, to issue informational orders pertaining to water production, water use, and water conservation to an urban retail water supplier that does not meet its urban water use objective. Existing law authorizes the board, on and after January 1, 2025, to issue a written notice to an urban retail water supplier that does not meet its urban water use objective. Existing law authorizes the board, on and after January 1, 2026, to issue a

conservation order to an urban retail water supplier that does not meet its urban water use objective.

This bill would instead extend the time by which the board is authorized to issue informational orders to on or after January 1, 2026, issue a written notice to on or after January 1, 2027, and issue a conservation order to on or after January 1, 2030.

Existing law requires the department, in coordination with the board, to submit a report to the Legislature on the progress of urban retail water suppliers towards achieving their urban water use objective on or before January 1, 2028.

The bill would instead require the report to be submitted to the Legislature on or before January 1, 2030.

Existing law provides that an urban retail water supplier who violates certain regulations after November 1, 2027, may be liable for specified penalties, as provided.

This bill would instead provide that urban retail water suppliers may be liable for specified penalties for violating those regulations after November 1, 2031.

Vote: majority. Appropriation: no. Fiscal committee: yes. State-mandated local program: no.

The people of the State of California do enact as follows:

SECTION 1. Section 1846.5 of the Water Code is amended to read:

1846.5. (a) An urban retail water supplier who commits any of the violations identified in subdivision (b) may be liable in an amount not to exceed the following, as applicable:

(1) If the violation occurs in a critically dry year immediately preceded by two or more consecutive below normal, dry, or critically dry years or during a period for which the Governor has issued a proclamation of a state of emergency under the California Emergency Services Act (Chapter 7 (commencing with Section 8550) of Division 1 of Title 2 of the Government Code) based on drought conditions, ten thousand dollars ($10,000) for each day in which the violation occurs.

(2) For all violations other than those described in paragraph (1), one thousand dollars ($1,000) for each day in which the violation occurs.

(b) Liability pursuant to this section may be imposed for any of the following violations:

(1) Violation of an order issued under Chapter 9 (commencing with Section 10609) of Part 2.55 of Division 6.

(2) Violation of a regulation issued under Chapter 9 (commencing with Section 10609) of Part 2.55 of Division 6, if the violation occurs after November 1, ~~2027.~~ *2031*.

(c) Civil liability may be imposed by the superior court. The Attorney General, upon the request of the board, shall petition the superior court to impose, assess, and recover those sums.

(d) Civil liability may be imposed administratively by the board pursuant to Section 1055.

~~SECTION 1.~~

SEC. 2. Section 10609.14 of the Water Code is amended to read:

10609.14. (a) The board shall adopt variances recommended by the department in accordance with this chapter for unique uses that can have a material effect on an urban retail water supplier's urban water use objective.

(b) Appropriate variances may include, but are not limited to, allowances for the following:

(1) Significant use of evaporative coolers.

(2) Significant populations of horses and other livestock.

(3) Significant fluctuations in seasonal populations.

(4) Significant landscaped areas irrigated with recycled water having high levels of total dissolved solids.

(5) Significant use of water for soil compaction and dust control.

(6) Significant use of water to supplement ponds and lakes to sustain wildlife.

(7) Significant use of water to irrigate vegetation for fire protection.

(8) Significant use of water for commercial or noncommercial agricultural use.

(c) Variances adopted by the board shall not be subject to a threshold of significance. Any amount of water for a unique use shall be added to an urban retail water supplier's urban water use objective.

(d) An urban retail water supplier shall self-certify the amount of water included in its urban water use objective that is attributable to a variance. The board shall randomly audit a select number of

variances each year to ensure the self-certifications are based on variances adopted by the board pursuant to subdivision (a).

~~SEC. 2.~~

SEC. 3. Section 10609.20 of the Water Code is amended to read:

10609.20. (a) Each urban retail water supplier shall calculate its urban water use objective no later than January 1, 2024, and by January 1 every year thereafter.

(b) The calculation shall be based on the urban retail water supplier's water use conditions for the previous calendar or fiscal year.

(c) Each urban water supplier's urban water use objective shall be composed of the sum of the following:

(1) Aggregate estimated efficient indoor residential water use.

(2) Aggregate estimated efficient outdoor residential water use.

(3) Aggregate estimated efficient outdoor irrigation of landscape areas with dedicated irrigation meters or equivalent technology in connection with CII water use.

(4) Aggregate estimated efficient water losses.

(5) Aggregate estimated water use in accordance with variances, as appropriate.

(d) (1) An urban retail water supplier that delivers water from a groundwater basin, reservoir, or other source that is augmented by potable reuse water may adjust its urban water use objective by a bonus incentive calculated pursuant to this subdivision.

(2) The water use objective bonus incentive shall be the volume of its potable reuse delivered to residential water users and to landscape areas with dedicated irrigation meters in connection with CII water use, on an acre-foot basis.

(3) The bonus incentive pursuant to paragraph (1) shall be limited in accordance with one of the following:

(A) The bonus incentive shall not exceed 15 percent of the urban water supplier's water use objective for any potable reuse water produced at an existing facility.

(B) The bonus incentive shall not exceed 10 percent of the urban water supplier's water use objective for any potable reuse water produced at any facility that is not an existing facility.

(4) For purposes of this subdivision, "existing facility" means a facility that meets all of the following:

(A) The facility has a certified environmental impact report, mitigated negative declaration, or negative declaration on or before January 1, 2019.

(B) The facility begins producing and delivering potable reuse water on or before January 1, 2022.

(C) The facility uses microfiltration and reverse osmosis technologies to produce the potable reuse water.

(e) (1) The calculation of the urban water use objective shall be made using landscape area and other data provided by the department and pursuant to the standards, guidelines, and methodologies adopted by the board. The department shall provide data to the urban water supplier at a level of detail sufficient to allow the urban water supplier to verify its accuracy at the parcel level.

(2) Notwithstanding paragraph (1), an urban retail water supplier may use alternative data in calculating the urban water use objective if the supplier demonstrates to the department that the alternative data are equivalent, or superior, in quality and accuracy to the data provided by the department. The department may provide technical assistance to an urban retail water supplier in evaluating whether the alternative data are appropriate for use in calculating the supplier's urban water use objective.

(f) The department shall collect and update data for outdoor residential landscapes and CII landscapes once every 10 years. The department shall post the data on its internet website.

~~SEC. 3. Section 10609.22 of the Water Code is amended to read:~~

~~10609.22. (a) An urban retail water supplier shall calculate its actual urban water use no later than January 1, 2024, and by January 1 every year thereafter.~~

~~(b) The calculation shall be based on the urban retail water supplier's water use for the previous calendar or fiscal year.~~

~~(c) Each urban water supplier's urban water use shall be composed of the sum of the following:~~

~~(1) Aggregate residential water use.~~

~~(2) Aggregate outdoor irrigation of landscape areas with dedicated irrigation meters in connection with CII water use.~~

~~(3) Aggregate water losses.~~

~~(d) Pursuant to paragraph (2) of subdivision (c), an urban retail water supplier may include in the calculation of the urban retail~~

~~water supplier's water use up to 20 percent of the landscape areas that are not currently irrigated but could be irrigated.~~

SEC. 4. Section 10609.24 of the Water Code is amended to read:

10609.24. (a) An urban retail water supplier shall submit a report to the department no later than January 1, 2024, and by January 1 or July 1 every year thereafter, whether reporting is submitted on a calendar year or fiscal year basis. The report shall include all of the following:

(1) The urban water use objective calculated pursuant to Section 10609.20 along with relevant supporting data.

(2) The actual urban water use calculated pursuant to Section 10609.22 along with relevant supporting data.

(3) Documentation of the implementation of the performance measures for CII water use.

(4) A description of the progress made towards meeting the urban water use objective.

(5) The validated water loss audit report conducted pursuant to Section 10608.34.

(b) The department shall post the reports and information on its internet website.

(c) The board may issue an information order or conservation order to, or impose civil liability on, an entity or individual for failure to submit a report required by this section.

(d) As part of the report to be submitted in 2026, each urban retail water supplier shall provide a narrative that describes the water demand management measures that the supplier plans to implement to achieve its urban water use objective by January 1, 2030.

SEC. 5. Section 10609.26 of the Water Code is amended to read:

10609.26. (a) (1) On and after January 1, 2026, the board may issue informational orders pertaining to water production, water use, and water conservation to an urban retail water supplier that does not meet its urban water use objective required by this chapter. Informational orders are intended to obtain information on supplier activities, water production, and conservation efforts in order to identify technical assistance needs and assist urban water suppliers in meeting their urban water use objectives.

(2) In determining whether to issue an informational order, the board shall consider the degree to which the urban retail water supplier is not meeting its urban water use objective, information provided in the report required by Section 10609.24, and actions the urban retail water supplier has implemented or will implement in order to help meet the urban water use objective.

(3) The board shall share information received pursuant to this subdivision with the department.

(4) An urban water supplier may request technical assistance from the department. The technical assistance may, to the extent available, include guidance documents, tools, and data.

(b) On and after January 1, 2027, the board may issue a written notice to an urban retail water supplier that does not meet its urban water use objective required by this chapter. The written notice may warn the urban retail water supplier that it is not meeting its urban water use objective described in Section 10609.20 and is not making adequate progress in meeting the urban water use objective, and may request that the urban retail water supplier address areas of concern in its next annual report required by Section 10609.24. In deciding whether to issue a written notice, the board may consider whether the urban retail water supplier has received an informational order, the degree to which the urban retail water supplier is not meeting its urban water use objective, information provided in the report required by Section 10609.24, and actions the urban retail water supplier has implemented or will implement in order to help meet its urban water use objective.

(c) (1) On and after January 1, 2030, the board may issue a conservation order to an urban retail water supplier that does not meet its urban water use objective. A conservation order may consist of, but is not limited to, referral to the department for technical assistance, requirements for education and outreach, requirements for local enforcement, and other efforts to assist urban retail water suppliers in meeting their urban water use objective.

(2) In issuing a conservation order, the board shall identify specific deficiencies in an urban retail water supplier’s progress towards meeting its urban water use objective, and identify specific actions to address the deficiencies.

(3) The board may request that the department provide an urban retail water supplier with technical assistance to support the urban retail water supplier's actions to remedy the deficiencies.

(d) A conservation order issued in accordance with this chapter may include requiring actions intended to increase water-use efficiency, but shall not curtail or otherwise limit the exercise of a water right, nor shall it require the imposition of civil liability pursuant to Section 377.

SEC. 6. Section 10609.33 of the Water Code is amended to read:

10609.33. (a) On or before January 1, 2030, the department, in coordination with the board, shall submit a report to the Legislature on the progress of urban retail water suppliers towards achieving their urban water use objective pursuant to Section 10609.20.

(b) (1) The requirement for submitting a report imposed under subdivision (a) is inoperative on January 1, 2034, pursuant to Section 10231.5 of the Government Code.

(2) A report to be submitted pursuant to subdivision (a) shall be submitted in compliance with Section 9795 of the Government Code.

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SENATOR BOB ARCHULETA

SB 1330 Urban Water Use

Making Water Conservation a Way of Life

Co-Authors: Senator Newman, Rubio & Alvarado-Gil

The SB 1330 (Archuleta) support coalition believes in "Making Water Conservation a Way of Life" through practical implementation. This legislation implements solutions to ensure feasibility with all Urban Water Use Objectives while allowing water suppliers adequate time to plan and prepare without unseen burdens placed on ratepayers.

SB 1330 takes into account recommendations by the Legislative Analyst's Office (LAO).

Solutions

Deadline Extensions

SB 1330 would enact deadline extensions (2-year extension) of all current Water Use Objective Requirements, inclusive of:

- Informal Orders by Board extended from 2024 to 2026
- Written Notice on failure to comply with 47 GPD extended from 2025 to 2027
- Conservation Orders (fines) extended from 2027 to 2030
- DWR and Board report to CA Legislators on progress of Water Use Objective goals extended from 2028 to 2030
- Penalties on water systems failing to achieve urban water use objective extended to 2031

Variance Thresholds

SB 1330 would grant water suppliers flexibility in reporting based on the growth of their water system;

- Allow water suppliers to self -certify annually
- Allow Board to audit random selection for compliance
- Results in cost savings for water suppliers and ratepayers

Reporting Flexibility

SB 1330 would allow water suppliers to submit reporting on either a calendar-year (CY) or fiscal-year (FY) basis;

- Provides flexibility for water suppliers and their current reporting structure

Outdoor/CII Landscape Reporting

SB 1330 would provide clarification on landscape reporting, currently requirements and expectations have not been established, therefore it allows for outdoor water usage to be reported every 10 years instead of annually.

BILL STATUS

- Senate, Natural Resources & Water Committee

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SUPPORT

- Walnut Valley Water District (Co-Sponsor)
- Rowland Water District (Co-Sponsor)
- Bellflower Somerset Mutual Water Company (Co-Sponsor)
- California Municipal Utilities Association
- El Dorado Irrigation District
- Elsinore Valley Municipal Water District
- Desert Water Agency
- California Association of Mutual Water Companies
- Three Valleys Municipal Water District
- Upper San Gabriel Valley Municipal Water District
- San Gabriel Valley Water Association

Join the Coalition

(909) 348-8215 llopez@walnutvalleywater.gov

TO: Board of Commissioners
FROM: Jared Macias, Administrative Officer
DATE: April 4, 2024
RE: Consider Award of Second Amendment to Professional Consultant Services Agreement with West Yost for Phase 2 - Part 1 of the Puente Basin Groundwater Management Plan

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Recommendation

That the Board of Commissioners:

1. Authorize the Administrative Officer to execute the Second Amendment to Professional Consultant Services Agreement with West Yost for Phase 2 - Part 1 of the Puente Basin Groundwater Management for a total not-to-exceed $147,202.

Background

In 2022, Puente Basin Water Agency (Agency) contracted with West Yost to develop a Groundwater Management Plan (GMP) to enhance the management of the Puente Basin beyond the execution of the Puente Basin Judgement (Judgement) and Puente Narrows Agreement. PBWA desires to maximize the beneficial use of the Puente Basin and thereby decrease dependence on imported water supplies. The GMP is being developed in three phases:

- Phase 1 – Describe the State of the Puente Basin and Establish GMP Goals.
- Phase 2 – Evaluate Alternatives for Basin Management.
- Phase 3 – Prepare GMP and Implementation Plan.

Phase 1

In late-2023, West Yost completed the first part of Phase 1. This included: (i) establishing a stakeholder group and process for the development of the GMP; (ii) collecting data and reports and preparing a hydrologic database; and (iii) preparing a detailed description physical structure and hydrology of the Puente Basin. A draft Technical Memorandum 1: Description of the Puente Basin Groundwater Management Plan Area and Basin Setting (TM-1) was completed in September 2023. The draft TM-1 was presented at a Stakeholder meeting on September 6, 2023 followed by a period for stakeholder review and comment. The final TM-1 was published on the Agency's website on December 4, 2023.

In March 2024, West Yost completed the final part of Phase 1, which described: (i) basin management goals and a GMP objective statement; (ii) various project concepts for improving

basin management; and (iii) a scope-of-work and cost estimate for the next steps to prepare the GMP (Phase 2 – Part 1). A draft Technical Memorandum 2: Goals and Concepts for Improved Management of the Puente Basin (TM-2) was completed on February 6, 2024. The draft TM-2 was presented at a Stakeholder meeting on February 12, 2024 followed by a period for stakeholder review and comment. The final TM-2 was published on the Agency's website on March 19, 2024.

Phase 2

Phase 2 – Part 1 will: (i) develop and describe various Basin Management Alternatives; (ii) identify which Basin Management Alternatives warrant further evaluation; and (iii) develop a scope of services and cost estimate to evaluate the selected Basin Management Alternatives and their relative effectiveness at achieving the goals and objectives of the GMP.

Part 1 requires the PBWA to first identify and describe more specific "Basin Management Alternatives" that consist of one or more project concepts. The PBWA will then identify which of the Basin Management Alternatives should be evaluated in Part 2. The scope of the evaluation in Part 2 will be dependent upon the specific Basin Management Alternatives that are selected; hence, Part 1 will include the preparation of the cost estimate to perform Part 2.

Part 2 consists of the evaluation of selected Basin Management Alternatives. The evaluation will include (i) a hydrologic analysis of the impacts to the Puente Basin and (ii) a cost analysis for project implementation to produce the new water supply. The evaluation will result in the selection of the preferred Basin Management Alternative that will become the basis for the GMP.

Cost and Schedule

West Yost will perform the scope of services to perform Phase 2 – Part 1 described in TM-2 on a time-and-expenses basis, at the billing rates set forth in West Yost's attached 2024 and 2025 Billing Rate Schedule, with a not-to-exceed budget of $147,202. Per the amended Cost Sharing Agreement with PBWA and City of Industry (City), PBWA will pay two-thirds (2/3) of such costs and the City will pay one-third (1/3) of such costs.

West Yost anticipates completing Phase 2 - Part 1 within 11 months of a notice-to-proceed.

Attachment:

1. West Yost TM-2

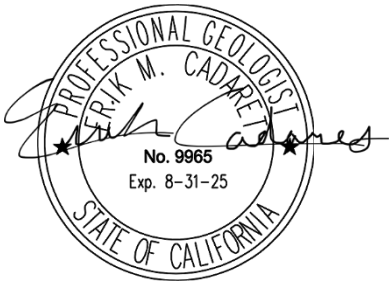
TECHNICAL MEMORANDUM

DATE: March 19, 2024

Project No.: 1032-80-22-01
SENT VIA: EMAIL

TO: Puente Basin Water Agency

FROM: Erik Cadaret, PG, RCE #9965
Veva Weamer, Project Manager
Andy Malone, PG, RCE #8700



SUBJECT: Technical Memorandum 2: Goals and Concepts for Improved Management of the Puente Basin

Technical Memorandum 2 (TM-2): *Goals and Concepts for Improved Management of the Puente Basin* completes Phase 1 of the scope of work to develop a Groundwater Management Plan (GMP) for the Puente Basin. TM-2 includes the following descriptions:

- Background information on the Puente Basin Water Agency's (PBWA) recent efforts to develop a GMP for the Puente Basin.
- Draft goals and objectives for improved management of the Puente Basin.
- Various general concepts for improved management of the Puente Basin.
- A scope of services and cost estimate for the next steps to develop the GMP.

BACKGROUND

The Puente Basin is a small groundwater basin located between the San Jose and Puente Hills in eastern Los Angeles County in Southern California that is approximately 20 square miles (12,800 acres). In 1971, the PBWA was formed as a joint powers authority between the Walnut Valley Water District (WVWD) and the Rowland Water District (RWD) to oversee the protection and utilization of local, imported, and recycled water within the Puente Basin. The following year in 1972, the PBWA entered into the Puente Narrows Agreement with the Upper San Gabriel Valley Municipal Water District to ensure that water management activities in the Puente Basin do not interfere with the subsurface groundwater outflow from the Puente Basin to the adjacent Main San Gabriel Basin. In 1986, the pumping rights in the Puente Basin were adjudicated pursuant to the Puente Basin Judgment (Judgment) which established a physical solution for the management of the Basin. The Judgment provided for the creation of the Puente Basin Watermaster to administer the Judgment and manage the Basin in accordance with the Physical Solution. Puente Basin groundwater is pumped and used primarily as a non-potable supply by five "Primary Parties" to the Judgment, including the WVWD and RWD.

In 2022, the PBWA contracted with West Yost to develop a GMP to enhance the management of the Puente Basin beyond the execution of the Judgment and the Puente Narrows Agreement. At that time, the PBWA expressed desires to maximize the beneficial use of the Puente Basin and thereby decrease dependence on less reliable imported water supplies. As described in the West Yost proposal[1] to develop the GMP, the work is being performed in three phases:

- **Phase 1 – Describe the State of the Puente Basin and Establish GMP Goals**. The objective of this phase is to develop an understanding of the physical structure and hydrology of the Puente Basin and articulate the specific goals of the Puente Basin stakeholders for improved groundwater basin management.
- **Phase 2 – Evaluate Alternatives for Basin Management**. The objective of this phase is to define and evaluate various management alternatives, and then based on the evaluations, select a preferred management alternative that will become the GMP for the Puente Basin.
- **Phase 3 – Prepare GMP and Implementation Plan.** The objective of this phase is to publish a final GMP and its implementation plan.

In late-2023, West Yost completed the first part of Phase 1. This included: (i) establishing a stakeholder group and process for the development of the GMP; (ii) collecting data and reports and preparing a hydrologic database; and (iii) preparing a detailed description physical structure and hydrology of the Puente Basin. A draft *Technical Memorandum 1: Description of the Puente Basin Groundwater Management Plan Area and Basin Setting* (TM-1) was completed in September 2023. The draft TM-1 was presented at a Stakeholder meeting on September 6, 2023 followed by a period for stakeholder review and comment. The final TM-1[2] was published on December 4, 2023 (West Yost, 2023) and included the following sections:

- **Section 2 GMP Area.** An overview of existing jurisdictions and existing management programs, including the Puente Narrows Agreement and Judgment; and description of the wells, monitoring programs, land use, and water supplies of the Puente Basin.
- **Section 3 Basin Setting.** Description of the surface-water and groundwater hydrology of the Puente Basin over a long-term historical period through current conditions, including the identification of data gaps and uncertainty in the hydrogeologic conceptualization.
- **Section 4 Basin Management Implications.** Summary of basin management challenges that are evident from the description of the Puente Basin GMP Area and hydrogeology of the basin in TM-1.

The Basin Management Implications (Section 4 of TM-1) are important because they can guide the design of project alternatives to improve basin management. The Basin Management Implications included:

- The size and yield of the Puente Basin that can be reliably pumped on an annual basis is relatively small (approximately 1,400 afy). Therefore, attempts to increase annual groundwater pumping without simultaneously increasing recharge could cause significant declines in groundwater levels.

[1] Proposal to Develop a Groundwater Management Plan for the Puente Basin. West Yost. Submitted December 3, 2021.

[2] https://puentebasin.com/wp-content/uploads/2023/12/TM-PBWA_TM1_20231204-Final.pdf

- Recharge to the Puente Basin is limited due to the small tributary watersheds, concrete-lining of the creeks that cross the basin, small volumes of subsurface inflows from upgradient groundwater basins, and the absence of artificial recharge of supplemental water supplies.
- Depth to groundwater is relatively shallow (ranges from 20-50 ft-bgs) and therefore, the basin has limited volumes of unused storage.
- Due to the presence of elevated TDS, nitrate, TCE, PCE, and other VOCs that are generally higher than primary and secondary MCLs, groundwater is currently only used as a non-potable supply. If potable groundwater use is desired in the future, treatment will be required.
- Several data gaps exist that will need to be filled to support the design and implementation of certain basin management strategies. These gaps include:

  — *Water Quality*. Currently. there is a paucity of groundwater-quality data across the basin for potential constituents of concern, including: hexavalent chromium, perchlorate, 1,2,3-trichlororpropane, TCE, PCE, TDS and nitrate.

  — *Groundwater Dependent Ecosystems (GDEs)*. There are five potential GDEs that exist within the basin and would need to be evaluated if groundwater management activities could cause declines in groundwater levels such that it negatively impacts these potential GDEs.

  — *Water Supplies for Recharge*. The quantities, availability, and reliability of water supplies that could be used for artificial recharge is not well understood and would need to be characterized and monitored if recharge projects are contemplated for the GMP.

  — *Land Subsidence*. It is unknown what the potential is for pumping-induced land subsidence, if groundwater levels were to decline due to increased groundwater utilization.

  — *Underflow Obligation*. Defining how and if the PBWA underflow obligation through the Puente Narrows will be met with basin management strategies that are identified through the development of the GMP.

  — *Aquifer Properties*. There is a data gap in the understanding of the aquifer properties in areas where bedrock appears to be shallow. Developing a better understanding of aquifer properties in these areas is necessary if the stakeholders wish to increase the utilization of groundwater in these areas.

Organization of TM-2

TM-2 documents the remaining tasks to complete Phase 1, which include descriptions of the following:

- Basin management goals and a GMP objective statement
- Various project concepts for improving basin management
- A scope-of-work and cost estimate for the next steps to prepare the GMP (Phase 2 – Part 1)

GOALS FOR BASIN MANAGEMENT AND GMP OBJECTIVE STATEMENT

At the September 6, 2023 PBWA Stakeholder meeting, West Yost presented the findings of the draft TM- 1 and facilitated a stakeholder discussion on their goals for improved management of the Puente Basin. Based on the stakeholder feedback, West Yost has prepared *draft* Basin Management Goals and Objective Statement for the GMP.

Management Goals

The management goals for the Puente Basin GMP are:

- Increase use of Puente Basin groundwater to become less reliant on imported water.
- Manage the Puente Basin in a manner that avoids adverse impacts, such as chronic lowering on groundwater levels, land subsidence, degrading water quality, impacting to GDEs, etc.
- Control groundwater underflow through the Puente Narrows in a manner to comply with the Puente Narrows Agreement while utilizing existing credits and minimizing the accumulation of credits in the future.

GMP Objective Statement

Based on the Management Goals, the *draft* Objective Statement for the Puente Basin GMP is:

> *Enhance the use of Puente Basin groundwater in a sustainable manner to become less reliant on imported water while maintaining compliance with the Puente Narrows Agreement.*

PROJECT CONCEPTS FOR IMPROVED BASIN MANAGEMENT

Using the information in the Basin Management Implications (Section 4 of TM-1), the stakeholder feedback received to date, and the draft Basin Management Goals and GMP Objective Statement above, three high-level project concepts are proposed below for the GMP.

- ***Increase Groundwater Pumping***
  - *Purpose*: Enhance the use of the groundwater basin to create new potable or non-potable water supplies, decrease reliance on imported water, and minimize subsurface outflow of groundwater to the Main San Gabriel Basin.
  - *Conceptual Project Alternatives*: There can be various alternatives for increased pumping from new or increased pumping at various locations across the Puente Basin. In addition, there can be various alternatives for the ultimate use of the water that could include potable or non-potable uses (i.e., projects that require treatment of the pumped groundwater or not).

- ***Enhance Recharge***
  - *Purpose*: Utilize local reliable water sources that are not currently used in the basin (e.g., surplus recycled water, storm water runoff, dry weather flow) for artificial recharge to enhance the sustainable yield of the Puente Basin.
  - *Conceptual Project Alternatives*: There can be various project alternatives based on location of recharge, method of recharge (e.g., injection, spreading, or infiltration galleries), and different types of recharge waters.

- ***Expand Monitoring Program***
  - *Purpose*: Fill data gaps to support the design and implementation of any of the project alternatives listed above.
  - *Conceptual Project Alternatives*: Expansion of the monitoring program should be designed to specifically support the project alternatives that are chosen for implementation. Expansion of the monitoring program could include, but not be limited to: increased groundwater monitoring at existing wells (e.g., water-levels, water-quality, pumping); construction of new monitoring wells; controlled aquifer-system testing; remote-sensing of land subsidence and potential GDEs; etc.

These are generalized descriptions of project concepts to achieve the Basin Management Goals and GMP Objective Statement. The projects can be implemented individually or in combination with a range of potential alternatives for each concept depending on the PBWA needs and desires.

Phase 2 to develop a GMP is divided into two parts:

- **Part 1** requires the PBWA to first identify and describe more specific "Basin Management Alternatives" that consist of one or more project concepts. The PBWA will then identify which of the Basin Management Alternatives should be evaluated in Part 2. The scope of the evaluation in Part 2 will be dependent upon the specific Basin Management Alternatives that are selected; hence, Part 1 will include the preparation of the cost estimate to perform Part 2.
- **Part 2** consists of the evaluation of selected Basin Management Alternatives. The evaluation will include (i) a hydrologic analysis of the impacts to the Puente Basin and (ii) a cost analysis for project implementation to produce the new water supply. The evaluation will result in the selection of the preferred Basin Management Alternative that will become the basis for the GMP.

SCOPE OF SERVICES TO PERFORM PHASE 2 - PART 1

This section describes a proposed scope of services and cost estimate for Phase 2 – Part 1 to: (i) develop and describe various Basin Management Alternatives; (ii) identify which Basin Management Alternatives warrant further evaluation; and (iii) develop a scope of services and cost estimate to evaluate the selected Basin Management Alternatives and their relative effectiveness at achieving the goals and objectives of the GMP.

Task 1. Develop Basin Management Alternatives

In this task, West Yost will work with the PBWA and other stakeholders to develop an initial description of up to six (6) Basin Management Alternatives. The descriptions will be used to prepare the first two sections of *Technical Memorandum 3 - Basin Management Alternatives for Puente Basin Groundwater Management Plan* (TM-3). The final TM-3 will include the following sections:

1. Background and Objectives (prepared in Task 1)
2. Description of Basin Management Alternatives (prepared in Task 1)
3. Basin Management Alternatives Selected for Evaluation (prepared in Task 2)
4. Scope and Cost to Evaluate Basin Management Alternatives (prepared in Task 3)

- *Task 1.1* – West Yost will conduct an in-person meeting with PBWA staff to brainstorm and develop an initial list and conceptual descriptions of up to six (6) potential Basin Management Alternatives.
- *Task 1.2* – West Yost will prepare maps, graphics, and tables to visually describe the potential Basin Management Alternatives.
- *Task 1.3* – West Yost will conduct a virtual workshop (Workshop 1) with PBWA and other interested stakeholders to review the conceptual descriptions of the Basin Management Alternatives using the maps and graphics prepared in Task 1b. West Yost will use the verbal feedback obtained in Workshop 1, and any follow-up correspondence with PBWA staff and other stakeholders, to refine the Basin Management Alternatives.
- *Task 1.4* – West Yost will prepare a draft of Sections 1 and 2 of TM-3 that includes the conceptual descriptions of up to six Basin Management Alternatives. The draft Sections 1 and 2 will be distributed to PBWA and stakeholders for a one-month review period. The PBWA and stakeholders will submit written comments and suggestions to West Yost after the review period.

Task 1 Deliverables

- West Yost will provide the PowerPoint and minutes from Workshop 1.
- West Yost will provide a draft of Sections 1 and 2 of TM-3: *Basin Management Alternatives for the Puente Basin GMP.*

Task 2. Select Basin-Management Alternatives for Further Evaluation

In this task, the six conceptual Basin Management Alternatives are ranked and up to four (4) Basin Management Alternatives are selected for further evaluation in Phase 2 – Part 2.

- *Task 2.1* – West Yost will prepare draft ranking criteria for the Basin Management Alternatives and distribute to PBWA staff for review. Ranking criteria may include, but not limited to: groundwater yield produced by the project(s); ease of project implementation; mitigation requirements to address adverse impacts; use of underflow credits; regulatory/institutional challenges; cost; etc.
- *Task 2.2* – West Yost will conduct a virtual meeting with PBWA staff to review the draft ranking criteria and begin developing an initial ranking of the Basin Management Alternatives.
- *Task 2.3* – West Yost will prepare a draft of Section 3 of TM-3 that includes a draft ranking of the Basin Management Alternatives and a recommendation for the selection of Basin Management Alternatives for further evaluation. The draft Section 3 of TM-3 will be distributed to PBWA and stakeholders for a one-month review period. This also includes development of updated maps, graphics, and tables.
- *Task 2.4* – West Yost will conduct a virtual workshop (Workshop 2) with PBWA and other interested stakeholders to review the draft ranking of Basin Management Alternatives in Section 3 of TM-3. The workshop will be held during the first two weeks of the one-month review period. The PBWA and stakeholders will submit written comments and suggested edits on Section 3 to West Yost after the review period.
- *Task 2.5* – West Yost will conduct one as-needed virtual meeting with the PBWA staff to obtain additional feedback on the ranking of Basin Management Alternatives.

Task 2 Deliverables

- West Yost will provide the PowerPoint and minutes from Workshop 2.
- West Yost will provide a draft Section 3 of TM-3: *Basin Management Alternatives for the Puente Basin GMP.*

Task 3. Develop Scope and Cost to Evaluate Basin-Management Alternatives

In this task, West Yost prepares a scope-of-work and cost estimate to perform the evaluations for the up to four (4) selected Basin Management Alternatives in Phase 2 – Part 2. The evaluations will include (i) a hydrologic analysis of the impacts to the Puente Basin and (ii) a cost analysis for project implementation to produce the new water supply. The level of effort (scope and costs) to perform the evaluations may cause the PBWA and stakeholders to revise their rankings and/or decisions to perform one or more of the evaluations. Hence, this task will result in the final selections of Basin Management Alternatives for further evaluations, which will be documented in a final TM-3.

- *Task 3.1* – West Yost will prepare a draft of Section 4 of TM-3
- that describes a scope-of-work and cost estimate to perform the evaluations for the four (4) selected Basin Management Alternatives. The draft Section 4 of TM-3 will be distributed to PBWA and stakeholders for a one-month review period.
- *Task 3.2* – West Yost will conduct a virtual workshop (Workshop 3) with PBWA and other interested stakeholders to review the draft Section 4 of TM-3. The workshop will be held during the first two weeks of the one-month review period. The PBWA and stakeholders will submit written comments and suggested edits on Section 4 to West Yost after the review period.
- *Task 3.3* – West Yost will conduct one as-needed virtual meeting with the PBWA staff to obtain additional feedback on Section 4 of TM-3.
- *Task 3.4* – West Yost will address all feedback received from PBWA staff and stakeholders and will finalize TM-3, which will include an appendix of responses to stakeholder comments.

Task 3 Deliverables:

- West Yost will provide the PowerPoint and minutes from Workshop 3.
- West Yost will prepare a draft Section 4 of TM-3.
- West Yost will prepare a final TM-3: *Basin Management Alternatives for the Puente Basin GMP.*

Task 4. Ad-Hoc Meetings and Project Management

In this task, West Yost will: prepare for and conduct up to two virtual coordination meetings with PBWA staff to discuss as needed topics for the development of TM-3; coordinate staffing over the duration of the project quarterly; and provide monthly invoices and progress reports to PBWA staff of project progress, schedule, and budget status.

COST ESTIMATE TO PERFORM PHASE 2 – PART 1

West Yost's proposed level of effort and budget for each of the tasks described above is shown in Table 1. West Yost will perform the scope of services described above on a time-and-expenses basis, at the billing rates set forth in West Yost's attached 2024 and 2025 Billing Rate Schedule, with a not-to-exceed budget of $147,202. Any additional services not included in this scope of services will be performed only after receiving written authorization and a corresponding budget augmentation.

Table 1. Cost Estimate for Phase 2 - Part 1

		2024							2025									
		Scientist Manager I	Principal Geologist II	Principal Geologist I	Senior Geologist I	Associate Geologist I	Admin III	QC Review	Scientist Manager I	Principal Geologist II	Principal Geologist I	Senior Geologist I	Associate Geologist I	Admin III	QC Review	Labor		Costs
West Yost Associates		$ 335	$ 322	$ 302	$ 272	$ 226	$ 145	$ 322	$ 348	$ 335	$ 314	$ 283	$ 235	$ 151	$ 335	Hours	Fee	Total Costs
Task 1	Develop Basin-Management Alternatives																	
1.01	Meeting to Develop Basin Management Alternatives		6	12	14											32	$ 9,364	$ 9,364
1.02	Prepare Draft Maps, Figures, and Tables	1	1	4	32	20										58	$ 15,089	$ 15,089
1.03	Workshop 1		2	8	12	6										28	$ 7,680	$ 7,680
10.4	Draft Sections 1 & 2 of TM	1	1	18	32	12	4	4								72	$ 19,377	$ 19,377
	Subtotal, Task 1, hours	**2**	**10**	**42**	**90**	**38**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**190**		
	Subtotal, Task 1, dollars	**$ 670**	**$ 3,220**	**$ 12,684**	**$ 24,480**	**$ 8,588**	**$ 580**	**$ 1,288**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**		**$ 51,510**	**$ 51,510**
Task 2	Select Basin-Management Alternatives for Further Evaluation																	
2.01	Ranking of Basin Management Alternatives		1	4	10	8										23	$ 6,058	$ 6,058
2.02	Meeting to Review Ranking of Basin Management Alternatives		2	4	8	8										22	$ 5,836	$ 5,836
2.03	Draft Section 3 of TM	1	1	12	32	16	2	2								66	$ 17,535	$ 17,535
2.04	Workshop 2		2	8	12	6										28	$ 7,680	
2.05	As-needed Meeting		1	4	4											9	$ 2,618	$ 2,618
	Subtotal, Task 2, hours	**1**	**7**	**32**	**66**	**38**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**148**		
	Subtotal, Task 2, dollars	**$ 335**	**$ 2,254**	**$ 9,664**	**$ 17,952**	**$ 8,588**	**$ 290**	**$ 644**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**		**$ 39,727**	**$ 32,047**
Task 3	Develop Scope and Cost to Evaluate Basin-Management Alternatives																	
3.01	Draft Section 4 of TM			2	4				1	1	8	12	6	2	2	38	$ 10,665	$ 10,665
3.02	Workshop 3		1	2	4					1	6	8	6			28	$ 7,907	$ 7,907
3.03	As-needed Meeting									1	4	4				9	$ 2,723	$ 2,723
3.04	Stakeholder Comments										4	8	10			22	$ 5,870	$ 5,870
	Subtotal, Task 3, hours	**0**	**1**	**4**	**8**	**0**	**0**	**0**	**1**	**3**	**22**	**32**	**22**	**2**	**2**	**97**		
	Subtotal, Task 3, dollars	**$ -**	**$ 322**	**$ 1,208**	**$ 2,176**	**$ -**	**$ -**	**$ -**	**$ 348**	**$ 1,005**	**$ 6,908**	**$ 9,056**	**$ 5,170**	**$ 302**	**$ 670**		**$ 27,165**	**$ 27,165**
Task 4	Ad-Hoc Meetings and Project Management																	
4.01	Quarterly coordination with PBWA Staff		2	9	9					2	3	3				28	$ 8,271	$ 8,271
4.02	Two ad-hoc meetings with PBWA Staff		2	5	5					2	5	5				24	$ 7,169	$ 7,169
4.03	Prepare monthly invoices, progress reports, and internal PM coordination			8	24		8				4	6		2		52	$ 13,360	$ 13,360
	Subtotal, Task 4, hours	**0**	**4**	**22**	**38**	**0**	**8**	**0**	**0**	**4**	**12**	**14**	**0**	**2**	**0**	**104**		
	Subtotal, Task 4, dollars	**$ -**	**$ 1,288**	**$ 6,644**	**$ 10,336**	**$ -**	**$ 1,160**	**$ -**	**$ -**	**$ 1,340**	**$ 3,768**	**$ 3,962**	**$ -**	**$ 302**	**$ -**		**$ 28,800**	**$ 28,800**
	Total, hours)	**3**	**22**	**100**	**202**	**76**	**14**	**6**	**1**	**7**	**34**	**46**	**22**	**4**	**2**	**539**		
	TOTAL, dollars	**$ 1,005**	**$ 7,084**	**$ 30,200**	**$ 54,944**	**$ 17,176**	**$ 2,030**	**$ 1,932**	**$ 348**	**$ 2,345**	**$ 10,676**	**$ 13,018**	**$ 5,170**	**$ 604**	**$ 670**		**$ 147,202**	**$ 147,202**

SCHEDULE TO PERFORM PHASE 2 – PART 1

West Yost anticipates completing Tasks 1 through 4 within 11 months of a notice-to-proceed. Table 2 below shows the anticipated schedule of meetings and milestones for Tasks 1 through 4.

Table 2. Schedule and Milestones

Task	May 2024		Jun 2024		Jul 2024		Aug 2024		Sep 2024		Oct 2024		Nov 2024		Dec 2024		Jan 2025		Feb 2025		Mar 2025	
	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late
Task 1. Developing Basin-Management Alternatives	*M*			*W*																		
Task 2. Select Basin-Management Alternatives for Further Evaluation									*M*		*W*		*A*									
Task 3. Scope and Cost for Evaluating Basin Management Alternatives																	*W*		*A*			
Task 4. Ad-Hoc Meetings and Project Management			*Q*						*Q*						*Q*					*Q*		

Meetings: M - Meeting with PBWA; W - Public Workshop with PBWA and Stakeholders; A - As Needed Meeting; Q - Quarterly Check-in Meetings with PBWA

	Task Duration
	Deliverable
	Deliverable Review Period

STAFFING AND CLOSING COMMENTS

Veva Weamer will serve as the lead scientist and project manager and will be responsible for implementing the project per the final approved scope and budget. Ms. Weamer will be supported by West Yost geologists, engineers, and scientists for implementation of the scope of services. Andy Malone will serve as the technical reviewer and will provide technical support to the project team and QA/QC of all project deliverables. Samantha Adams will serve as the Principal-in-Charge and will also perform technical review.

Thank you for providing West Yost the opportunity to assist the PBWA in developing the GMP. We look forward to working with you on this important project. Please call if you have any questions or require additional information.

Sincerely,
WEST YOST

Veva Weamer
Project Manager

Andy Malone, PG
QA/QC
PG #86007

cc: Samantha Adams, Principal in Charge;
Erik Cadaret, Senior Geologist

Attachment A: West Yost 2024/2025 Billing Rate Schedule

Appendix A

West Yost 2024/2025 Billing Rate Schedule

2024 - 2025 Billing Rate Schedule

(Effective January 1, 2024, through December 31, 2025)

POSITIONS	LABOR CHARGES 2024	2025
ENGINEERING		
Principal/Vice President	$355	$369
Engineer/Scientist/Geologist Manager II	$351	$365
Engineer/Scientist/Geologist Manager I	$335	$348
Principal Engineer/Scientist/Geologist II	$322	$335
Principal Engineer/Scientist/Geologist I	$302	$314
Senior Engineer/Scientist/Geologist II	$286	$297
Senior Engineer/Scientist/Geologist I	$272	$283
Associate Engineer/Scientist/Geologist II	$243	$253
Associate Engineer/Scientist/Geologist I	$226	$235
Engineer/Scientist/Geologist II	$205	$213
Engineer/Scientist/Geologist I	$176	$183
Engineering Aide	$106	$110
Field Monitoring Services	$131	$136
Administrative IV	$160	$166
Administrative III	$145	$151
Administrative II	$121	$126
Administrative I	$97	$101
ENGINEERING TECHNOLOGY		
Engineering Tech Manager II	$351	$365
Engineering Tech Manager I	$349	$363
Principal Tech Specialist II	$331	$344
Principal Tech Specialist I	$320	$333
Senior Tech Specialist II	$306	$318
Senior Tech Specialist I	$293	$305
Senior GIS Analyst	$265	$276
GIS Analyst	$251	$261
Technical Specialist IV	$267	$278
Technical Specialist III	$239	$249
Technical Specialist II	$213	$222
Technical Specialist I	$187	$194
Technical Analyst II	$160	$166
Technical Analyst I	$134	$139
Technical Analyst Intern	$108	$112
Cross-Connection Control Specialist IV	$189	$197
Cross-Connection Control Specialist III	$170	$177
Cross-Connection Control Specialist II	$151	$157
Cross-Connection Control Specialist I	$140	$146
CAD Manager	$211	$219
CAD Designer II	$185	$192
CAD Designer I	$164	$171

2024 - 2025 Billing Rate Schedule

(Effective January 1, 2024, through December 31, 2025)

POSITIONS	LABOR CHARGES 2024	2025
CONSTRUCTION MANAGEMENT		
Senior Construction Manager	/ $338	/ $352
Construction Manager IV	/ $289	/ $301
Construction Manager III	/ $228	/ $237
Construction Manager II	/ $215	/ $224
Construction Manager I	/ $201	/ $209
Resident Inspector (Prevailing Wage Groups 1)	/ $232	/ $241
Resident Inspector (Prevailing Wage Groups 2)	/ $224	/ $233
Resident Inspector (Prevailing Wage Groups 3)	/ $201	/ $209
Resident Inspector (Prevailing Wage Groups 4)	/ $181	/ $188
Apprentice Inspector	/ $164	/ $171
CM Administrative II	/ $118	/ $123
CM Administrative I	/ $87	/ $90
Field Services	/ $232	/ $241

- Hourly rates include charges for technology and communication, such as general and CAD computer software, telephone calls, routine in-house copies/prints, postage, miscellaneous supplies, and other incidental project expens
- Outside services, such as vendor reproductions, prints, and shipping; major West Yost reproduction efforts; as well a engineering supplies, etc., will be billed at the actual cost plus 15%.
- The Federal Mileage Rate will be used for mileage charges and will be based on the Federal Mileage Rate applicable when the mileage costs were incurred. Travel other than mileage will be billed at cost.
- Subconsultants will be billed at actual cost plus 10%.
- Expert witness services, research, technical review, analysis, preparation, and meetings will be billed at 150% of star hourly rates. Expert witness testimony and depositions will be billed at 200% of standard hourly rates.
- A finance charge of 1.5% per month (an annual rate of 18%) on the unpaid balance will be added to invoice amount if not paid within 45 days from the date of the invoice.