



SPECIAL NOTICE REGARDING CORONAVIRUS DISEASE 2019 (COVID-19) AND PARTICIPATION IN PUBLIC MEETINGS

On March 4, 2020, Governor Newsom declared a State of Emergency resulting from the threat of COVID-19. On September 16, 2021, Governor Newsom signed Assembly Bill No. 361 into law. Assembly Bill No. 361 amends Government Code section 54953(e) by adding provisions for remote teleconferencing participation in meetings by members of a legislative body, without the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions. The San Bernardino Valley Municipal Water District adopted a resolution determining, by majority vote, that, as a result of the declared State of Emergency, a meeting in person would present imminent risks to the health or safety of attendees. Accordingly, it has been determined that all Board and Workshop meetings of the San Bernardino Valley Municipal Water District will be held pursuant to the Brown Act and will be conducted via teleconference. There will be no public access to the meeting venue.

BOARD OF DIRECTORS WORKSHOP - RESOURCES **THURSDAY, DECEMBER 15, 2022 – 2:00 P.M.**

PUBLIC PARTICIPATION

Public participation is welcome and encouraged. You may participate in the December 15, 2022, meeting of the San Bernardino Valley Municipal Water District online and by telephone as follows:

Dial-in Info: (877) 853 5247 US Toll-free

Meeting ID: 979 215 700

PASSCODE: 3802020

<https://sbvmwd.zoom.us/j/979215700>

If you are unable to participate online or by telephone, you may also submit your comments and questions in writing for the District's consideration by sending them to comments@sbvmwd.com with the subject line "Public Comment Item #" (insert the agenda item number relevant to your comment) or "Public Comment Non-Agenda Item". Submit your written comments by 6:00 p.m. on Wednesday, December 14, 2022. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record.

IMPORTANT PRIVACY NOTE: Participation in the meeting via the Zoom app is strongly encouraged. Online participants MUST log in with a Zoom account. The Zoom app is a free download. Please keep in mind: (1) This is a public meeting; as such, the virtual meeting information is published on the World Wide Web and available to everyone. (2) Should you participate remotely via telephone, your telephone number will be your "identifier" during the meeting and available to all meeting participants; there is no way to protect your privacy if you elect to call in to the meeting.



SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
380 E. Vanderbilt Way, San Bernardino, CA 92408

BOARD OF DIRECTORS WORKSHOP - RESOURCES

AGENDA

2:00 PM Thursday, December 15, 2022

CALL TO ORDER

Chairperson: Director Hayes

Vice-Chair: Director Harrison

1) INTRODUCTIONS

2) PUBLIC COMMENT

Members of the public may address the Board regarding any item within the subject matter jurisdiction of the Board; however, no action may be taken on off-agenda items except as authorized by law. Each speaker is limited to a maximum of three (3) minutes.

3) DISCUSSION AND POSSIBLE ACTION ITEMS

3.1 Discussion and possible action on Amendment No. 2 to the consulting services agreement with Dudek to cover the preparation of the Water Year 2022 Annual Report of the Yucaipa Sustainable Groundwater Management Agency(Page 3)
[Staff Memo - Discussion and possible action on Amendment No. 2 to the consulting services agreement with Dudek to cover the preparation of the Water Year 2022 Annual Report of the Yucaipa Sustainable Groundwater Management Agency](#)
[Amendment No. 2 for WY 2022 Annual Report](#)

3.2 Water Resources Management Update(Page 18)
[Staff Memo - Water Resources Management Update](#)

4) FUTURE BUSINESS

5) ADJOURNMENT

PLEASE NOTE:

Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection in the District's office located at 380 E. Vanderbilt Way, San Bernardino, during normal business hours. Also, such documents are available on the District's website at www.sbvmd.com subject to staff's ability to post the documents before the meeting. The District recognizes its obligation to provide equal access to those individuals with disabilities. Please contact Melissa Zoba at (909) 387-9228 two working days prior to the meeting with any special requests for reasonable accommodation.



DATE: December 15, 2022

TO: Board of Directors' Workshop - Resources

FROM: Adekunle Ojo, Manager of Water Resources

SUBJECT: Discussion and possible action on Amendment No. 2 to the consulting services agreement with Dudek to cover the preparation of the Water Year 2022 Annual Report of the Yucaipa Sustainable Groundwater Management Agency

Staff Recommendation

Discussion and possible action on Amendment No. 2 to the existing agreement with Dudek to provide support services for the Yucaipa Sustainable Groundwater Management Agency.

Summary

Valley District has an existing consulting services agreement with Dudek to provide support services for Yucaipa SGMA. Staff is recommending a contract amendment with Dudek in the amount of \$28,700 to prepare the Water Year 2022 Annual Report, which is due to the California Department of Water Resources ("DWR") by April 1, 2023. The proposal by Dudek was approved at the Yucaipa SGMA Board meeting of October 26, 2022. Valley District's share of the cost to prepare the annual report is \$1,722, which is 6% of the total cost and \$14 more than the District's share for the first annual report prepared by Dudek and submitted to DWR by April 1, 2022.

Background

The Sustainable Groundwater Management Act (SGMA) went into effect on January 1, 2015, by identifying unmanaged, or unadjudicated basins throughout the State of California. For each of these identified basins, a Groundwater Sustainability Agency is required to be established and to prepare a Groundwater Sustainability Plan (GSP). The only principal basin or sub-basin that SGMA applies within the Valley District service area is the Yucaipa Basin. On June 22, 2017, San Bernardino Valley Municipal Water District (Valley District) joined the City of Redlands, San Geronio Pass Water Agency, South Mesa Water Company, South Mountain Water Company, Western Heights Water Company, the City of Yucaipa and the Yucaipa Valley Water District to form the Yucaipa SGMA under the Sustainable Groundwater Management Act (SGMA). Yucaipa

SGMA subsequently developed and submitted a Groundwater Sustainability Plan (GSP) to DWR by the January 31, 2022, deadline.

One of the SGMA requirements is to prepare and submit an annual report to DWR by April 1st of each year following the adoption of the GSP. The first [annual report](#) for the Yucaipa SGMA was submitted to DWR on March 30, 2022 and covered data collected from the 2018-19 Water Year to the 2020-21 Water Year. The report included groundwater elevations, groundwater production, groundwater quality, quantity of surface water supply, and an estimate of annual change in storage. The annual report also contained a description of the progress in implementing the GSP, including any necessary management actions and/or projects there were implemented to maintain sustainability. The second annual report will cover the same elements and cover the period of October 1, 2021, through September 30, 2022 (Water Year 2022). The Yucaipa SGMA parties will review and comment on the draft annual report prior to submission to DWR by April 1, 2023.

Dudek prepared the GSP and provides ongoing support services to Yucaipa SGMA including the preparation of the first annual report, therefore this proposal was requested by the Yucaipa SGMA and it was approved by the Yucaipa SGMA Board on October 26, 2022. The Yucaipa SGMA Memorandum of Agreement proportioned 75% of costs to the retail water agencies (South Mesa Water Company, South Mountain Water Company, Western Heights Water Company and Yucaipa Valley Water District) with the remaining 25% shared equally amongst the regional water agencies and major interested parties (San Bernardino Valley Municipal Water District, San Geronio Pass Water Agency, City of Redlands and the City of Yucaipa); Valley District's share is 6%.

District Strategic Plan Application

This is consistent with Valley District's desire to work collaboratively to provide a reliable, resilient, and sustainable water supply that contributes to a healthy watershed for future generations.

Fiscal Impact

The net fiscal impact to Valley District is \$1,722. However, as the contracting agency, Valley District needs to amend the contract with Dudek for the entire, additional amount of \$28,700. This item was included in the approved FY 2022-23 General Fund Budget under Line Item 6360 Consultants.

Attachment

Amendment No. 2 with Dudek

SECOND AMENDMENT TO THE CONSULTING SERVICES AGREEMENT

This Second Amendment to the Consulting Services Agreement (“*Amendment*”) is entered into as of December 15, 2022, by and between Dudek (“*Consultant*”), and San Bernardino Valley Municipal Water District, a water district organized and existing under the California Municipal Water District Law of 1911 (“*District*”). Consultant and District are hereafter referred to individually as “*Party*” and collectively as the “*Parties*.”

RECITALS

A. The Parties entered into that certain Consulting Services Agreement, dated May 5, 2022 (“*Consulting Agreement*”), whereby Consultant agreed to provide certain professional services to District defined as support services to the Yucaipa Sustainable Groundwater Management Agency. The Consulting Agreement provided for a Maximum Fee of \$24,950.

B. The Consulting Agreement was amended on September 6, 2022 (“Amendment No. 1”) to increase the maximum fee to \$39,840 to cover additional services related to the development of a Well Ordinance pursuant to a state requirement.

C. The Parties desire to amend the Consulting Agreement further in accordance with Article 1.3 of the Agreement on Task Orders.

OPERATIVE TERMS

NOW, THEREFORE, in consideration of the mutual covenants and conditions contained in this Amendment, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. Recitals; Defined Terms. The Recitals are material to this Amendment, and by this reference are hereby incorporated herein. For purposes of this Amendment, all capitalized terms shall have the meanings given to such terms in the Consulting Agreement, unless such terms are otherwise defined herein.

2. Additional Services. In accordance with Article 1.3 of the Consulting Agreement, the Parties hereby expand the Services to include the additional professional services and activities described in the Proposal, dated October 13, 2022, which is attached as *Attachment “A”* to this Amendment and incorporated herein by this reference. Said services and activities shall be considered Additional Services under the Consulting Agreement and shall be performed and completed in accordance with the standards and obligations set forth in the Consulting Agreement.

3. Compensation. The Maximum Fee is hereby increased to Sixty-Eight Thousand Five Hundred and Forty Dollars and Zero Cents (\$68,540.00), reflecting Twenty-Eight Thousand Seven Hundred and Zero Cents (\$28,700.00) increase for the cost of the Additional Services

described in Attachment “A” hereto. All references to Maximum Fee in the Consulting Agreement shall refer to the amount set forth herein.

4. Binding Effect. This Amendment shall be binding upon and inure to the benefit of the Parties’ permitted successors and assigns. The Parties acknowledge and agree that except to the extent specifically provided in this Amendment, the Consulting Agreement shall continue in full force and effect as previously written.

5. No Other Modifications. The Parties acknowledge that this Amendment evidences the entire agreement between the Parties with respect to the matters addressed herein and supersedes all previous negotiations and discussions related thereto.

6. Counterparts. This Amendment may be executed in two or more counterparts, each of which shall be an original, but all of which shall constitute one and the same instrument.

[Signature Page Follows]

IN WITNESS WHEREOF, the Parties hereby execute this Amendment as of the date first set forth above.

DISTRICT:

**SAN BERNARDINO VALLEY MUNICIPAL
WATER DISTRICT**

By: _____
Heather P. Dyer
CEO/General Manager

CONSULTANT:

DUDEK

By: _____

Name: _____

Its: _____

Attachment A
Dudek Proposal

October 13, 2022

Yucaipa Sustainable Groundwater Management Agency
c/o San Bernardino Valley Municipal Water District
380 East Vanderbilt Way
San Bernardino, California 92408

Subject: Proposal to Prepare the 2022 Annual Report for the Yucaipa Subbasin

Dear Yucaipa GSA Member Agencies:

Dudek is pleased to present this scope of work and fee to the Yucaipa Sustainable Groundwater Management Agency (Yucaipa GSA) to prepare the second annual report for the Yucaipa Subbasin following the adoption of the Groundwater Sustainability Plan (GSP). Per Subarticle 7 of Article 5 of the California Code of Regulations Division 2 Chapter 1.5 (23 CCR §356.2), each Groundwater Sustainability Agency is required to submit an annual report by April 1 of each year following the adoption of a GSP. In summary, the second annual report for the Yucaipa Subbasin will include information collected during the 2021-2022 water year, or 2022 WY, which extended from October 1, 2021 to September 30, 2022. This information will include groundwater elevation, groundwater production, groundwater quality, an accounting of surface water supply, and an estimate of the annual change in storage since the 2020-2021 WY.

The 2022 WY data will be compiled in Microsoft Excel templates provided by the Department of Water Resources to report groundwater extractions by water source type (e.g., urban, agricultural, managed recharge, native vegetation) and surface water sources. The Excel templates will be completed and uploaded, along with an annual report elements guide, to DWR's SGMA Portal website per requirements under SGMA.

The annual report will include a description of the progress in implementing the GSP, including any management actions and/or projects that were implemented to achieve or maintain sustainability. The volume of groundwater pumped per user will be compared to their respective sustainable yield pumping allocations to determine if pumping credits were earned or used, and whether supplemental water was used to directly recharge the aquifer. The accounting of pumping credits and supplemental water that directly recharges the aquifer will help determine if a management action is required.

The following scope of work and fee details the tasks Dudek will undertake to prepare and submit to DWR an annual report that is compliant with the requirements under the Sustainable Groundwater Management Act (SGMA).

1 Scope of Work

Task 1 Groundwater Evaluations

Task 1.1 Update Groundwater Elevation Hydrographs

Static groundwater elevation data measured at the 76 wells identified in the monitoring network in the GSP will be updated for the 2022 WY. The observed groundwater elevation data collected at the representative monitoring points (RMPs) will be compared to their respective measurable objectives and minimum thresholds to evaluate whether the Subbasin is managed sustainably and if any management actions need to be implemented. In addition to the static groundwater elevation, the status of the well at the time of measurement will be reported and any issues regarding access to the well, modifications made to the well that affect the method for measuring the groundwater elevation, will be included in the report. This task will also identify the seasonal high and low groundwater elevations observed in the 2022 WY.

Fee for Task 1.1 \$3,240.00

Task 1.2 Update Water Year-Types

The monthly precipitation data collected at the 17 San Bernardino County Flood Control District (SBCFCD) climatic stations located throughout the Subbasin, plus monthly precipitation data collected at three National Oceanic and Atmospheric Administration (NOAA) climatic stations will be compiled and analyzed to characterize the water year-types for the 2022 WY. Any new climatic stations installed in the Subbasin since the adoption of the GSP will be assessed and included in the climate network.

A figure identifying the water year-types beginning in 1953 (Figure 2-3 in Chapter 2 of the GSP) will be updated to include the 2022 WY. Additionally, the monthly precipitation data will be used to update the cumulative departure from mean monthly precipitation chart (Figure 2-2 in Chapter 2 of the GSP) to update the precipitation trends observed since the early 1960s. These two updated figures will be included in the annual report.

Fee for Task 1.2 \$1,140.00

Task 1.3 Plan View Maps of Seasonal Highs and Lows

Plan view maps depicting static groundwater elevations and the hydraulic gradient across the Yucaipa Subbasin will be prepared for the seasonal highs and lows observed in the 2022 WY. The figures will be prepared similarly to Figures 2-29 and 2-30 in Chapter 2 of the GSP that depicted the seasonal low and high, respectively, for the 2018 WY. Each plan view map will include the measured groundwater elevation at the 76 wells in the monitoring network (if available) and indicate the direction of groundwater flow.

Fee for Task 1.3 \$2,255.00

Task 1.4 Update Groundwater Production Database

Groundwater production data will be collected and compiled to report the annual volume of groundwater extracted by the active water supply wells in the Subbasin, and wells located outside the Subbasin that pump water into the Subbasin. The annual groundwater production data will be included in the groundwater elevation hydrographs, where applicable, to demonstrate the influence of pumping on groundwater elevations. The annual production will be compared to the sustainable yield pumping allocations assigned to each water purveyor. This analysis will determine if a water purveyor earned pumping credits or will need to implement a management action to offset the pumping exceedance (e.g., purchase SWP water to artificially recharge the aquifer, reduce pumping, implement water conservation policies, supplement groundwater with recycled water, etc.). A summary of this analysis and accounting for each water purveyor will be included in tabular form in the annual report.

Fee for Task 1.4 \$1,140.00

Task 1.5 Update Groundwater Quality Database

This task includes updating the GSP groundwater quality database with data collected for the Maximum Benefits Monitoring Program, and will include a review of groundwater monitoring reports uploaded to the Santa Ana River Regional Water Quality Control Board's (Water Board) GeoTracker website for the sites identified in the GSP as active remediation sites in the Subbasin. Groundwater quality hydrographs presented in the GSP will be updated with data collected from the 2022 WY. These hydrographs will include updated data for concentrations of nitrate (as nitrogen) and total dissolved solids.

Fee for Task 1.5 \$1,140.00

Task 1 Deliverables

- Groundwater Elevation hydrographs for the 76 wells in the GSP monitoring network
- Groundwater Quality hydrographs showing concentrations of nitrate (as nitrogen) and TDS in groundwater
- Groundwater production table summarizing the volume of groundwater produced for each groundwater user
- Updated figure showing the historical water year-types beginning with the 1953 water year (Figure 2-3 in Chapter 2 of the GSP)
- Plan view maps showing groundwater elevation contours in the Yucaipa Subbasin for the following seasonal highs and lows:
 - Spring 2022
 - Fall 2022

Total Fee for Task 1 \$8,915.00

Task 2 Surface Water Supply

Task 2.1 Update State Water Project Water Importation

An accounting of the volume of State Water Project (SWP) water imported into the Subbasin will be included in the annual report. The volume of SWP water directed to Yucaipa Valley Water District's Yucaipa Valley Water Filtration Facility (YVWFF) and SWP water that was discharged to the Wilson Creek and Oak Glen Creek spreading basins will be reported with an update to Figure 2-21 of Chapter 2 of the GSP.

Fee for Task 2.1 \$1,140.00

Task 2.2 Update Surface Water Diversions

This task will include an update to the volume of surface water diverted in the 2022 WY for consumptive use in the Subbasin.

Fee for Task 2.2 \$285.00

Total Fee for Task 2 **\$1,425.00**

Task 3 Change in Groundwater in Storage

Task 3.1 Update YIHM

The annual change in groundwater in storage for the 2022 WY will be conducted using the YIHM. The YIHM will be updated with actual pumping information, climatic data (precipitation and temperature) and surface water discharged to spreading basins (and potentially storm water flows captured by storm water basins). An annual water budget analysis will be completed for the 2022 WY by identifying the components of inflows and outflows in the Subbasin and the four management areas. This task will also serve as an exercise in validating the YIHM by comparing simulated results to observed conditions since 2018. Validation is a process of evaluating the uncertainty of a numerical model and helps define the error in the results.

Fee for Task 3.1 \$3,330.00

Task 3.2 Water Budget Analyses and Figure Updates

The estimated annual changes in storage by the YIHM will be used to update the following figures depicting the annual water budget analyses and changes in storage: Figure 2-62 (Yucaipa Subbasin), Figure 2-66 (North Bench Management Area), Figure 2-69 (Calimesa Management Area), Figure 2-71 (Western Heights Management Area), and Figure 2-73 (San Timoteo Management Area) in Chapter 2 of the GSP.

Fee for Task 3.2 \$2,890.00

Total Fee for Task 3 **\$6,220.00**

Task 4 Annual Report

Task 4.1 Prepare Draft Annual Report

Dudek will prepare a draft of the annual report for the Yucaipa GSA to review and provide comments. The draft report will include all required reporting sections listed in 23 CCR §356.2, including tables, figures, and appendices to support the findings in the annual report. The annual report will conclude with an assessment of the implementation of the GSP, addressing data gaps identified in the GSP, and a description summarizing whether any management actions were implemented and why. The report will also include an assessment of the monitoring network and will identify any modifications or issues that affect the collection of data and evaluation of conditions in the Subbasin.

Dudek anticipates providing a draft copy of the annual report to the Yucaipa-SGMA to review on March 6, 2023. Dudek anticipates two weeks for the Yucaipa-SGMA to review and provide comments; and two weeks for Dudek to address all comments and revise the draft annual report accordingly. The scheduled date to submit the 2022 annual report to DWR is March 31, 2023.

DWR has prepared Microsoft Excel data upload templates for GSA's to report basin wide groundwater extraction, surface water supplies, and total water use data. Dudek will utilize these templates to ensure that the data is reported consistently per the requirements by DWR and uploaded successfully to the Monitoring Network Module on their SGMA Portal (<https://sgma.water.ca.gov/portal/>).

There is no formal requirement per SGMA for the Yucaipa-SGMA to release a draft of an annual report for public review. Therefore, this task does not include the submittal of a draft of the annual report for public review.

Fee for Task 4.1\$11,570.00

Task 4.2 Prepare Final Annual Report

The draft annual report will be revised per comments and suggested edits received by the Yucaipa-SGMA. A final version of the annual report will be prepared for submittal to DWR by April 1, 2023.

Fee for Task 4.2\$570.00

Task 4 Deliverables

- Draft Annual Report to the Yucaipa-SGMA
- Final Annual Report for Submittal to DWR

Total Fee for Task 4\$12,140.00

Schedule

The anticipated schedule for preparing the first annual report for the Yucaipa Subbasin follows:

- **December 2022** - Anticipated Start Date per authorization by the Yucaipa GSA to proceed and executed contract with SBVMWD
- **March 6, 2023** - Draft Annual Report to Yucaipa-SGMA to review and provide comments
- **March 6 – 17, 2023** – Review period for Yucaipa-SGMA
- **March 20 – 30, 2023** – Dudek to revise draft annual report per Yucaipa-SGAM comments
- **March 31, 2023** – Submit Final Annual Report to DWR with Excel Data templates

Fee Summary

The fee presented in this proposal will be charged on a time and materials basis in accordance with Dudek’s 2022 Standard Schedule of Charges. The time and materials fee provided in this proposal represents an estimate of the anticipated level of effort required to complete the tasks described in the proposal. Should the actual effort required to complete the tasks be less than anticipated, the amount billed will be less than the total fee. Conversely, should the actual effort to complete the proposed tasks be greater than anticipated, additional fee authorizations will be requested. No work in excess of the proposed fee or outside of the proposed scope of work will be performed without written authorization from the Yucaipa GSA.

TOTAL FEE..... \$28,700.00

Dudek appreciates the opportunity to present this proposal to prepare the second annual report for the Yucaipa Subbasin following the adoption of the GSP. We look forward to continuing our working relationship with the Yucaipa GSA and assisting the GSA in sustainably managing the Subbasin now and in to the future.

If you have any questions regarding this proposal, please call me at 760-415-9079 or email me at sstuart@dudek.com.

Sincerely,



Steven Stuart, PE C79764
Principal Hydrogeologist, Project Manager

Att.: *Table 1. Fee for 2023 Yucaipa GSP Annual Report*
Dudek 2022 Standard Schedule of Charges
cc: *Adekunle Ojo, San Bernardino Valley Municipal Water District*

Attachment A

Table 1. Fee for the 2023 Yucaipa GSP Annual Report
Dudek 2022 Standard Schedule of Charges

TABLE I. FEE FOR 2022 YUCAIPA GSP ANNUAL REPORT
DUDEK FEE SCHEDULE

		<i>Team Member:</i>	Steven Stuart, PE	Trevor Jones, PhD	Sharlynn Pimentel	TOTAL HOURS	LABOR COST	TOTAL
		<i>Project Team Role:</i>	Project Manager	Numerical Model	Hydrogeologist			
		<i>Labor Class:</i>	Principal Hydrogeologist II	Sr. Hydrogeologist III	Hydrogeologist III			
		<i>Billable Rate :</i>	\$285	\$230	\$175			
Task 1 - Groundwater Evaluations								
1-1	Update Groundwater Elevations	4		12	16	\$ 3,240	\$ 3,240	
1-2	Update Water Year-Types	4			4	\$ 1,140	\$ 1,140	
1-3	Plan View Maps of Seasonal Highs and Lows	3		8	11	\$ 2,255	\$ 2,255	
1-4	Update Groundwater Production	4			4	\$ 1,140	\$ 1,140	
1-5	Update Groundwater Quality	4			4	\$ 1,140	\$ 1,140	
	Subtotal Task 1	19		20	39	\$ 8,915	\$ 8,915	
Task 2 - Surface Water Supplies								
2-1	SWP Water Importation	4			4	\$ 1,140	\$ 1,140	
2-2	Surface Water Diversions	1			1	\$ 285	\$ 285	
	Subtotal Task 2	5			5	\$ 1,425	\$ 1,425	
Task 3 - Change in Groundwater in Storage								
3-1	Update YIHM	2	12		14	\$ 3,330	\$ 3,330	
3-2	Water Budget Analyses and Figure Updates	2	4	8	14	\$ 2,890	\$ 2,890	
	Subtotal Task 3	4	16	8	28	\$ 6,220	\$ 6,220	
Task 4 - Annual Report								
4-1	Draft Report and Address Comments	30	4	12	46	\$ 11,570	\$ 11,570	
4-2	Final Report	2			2	\$ 570	\$ 570	
	Subtotal Task 4	32	4	12	48	\$ 12,140	\$ 12,140	
Total Hours and Fee		60	20	40	120	\$28,700.00	\$28,700.00	

DUDEK 2022 Standard Schedule of Charges

Engineering Services

Project Director	\$315.00/hr
Principal Engineer III	\$285.00/hr
Principal Engineer II	\$275.00/hr
Principal Engineer I	\$265.00/hr
Program Manager	\$255.00/hr
Senior Project Manager	\$255.00/hr
Project Manager	\$245.00/hr
Senior Engineer III	\$240.00/hr
Senior Engineer II	\$230.00/hr
Senior Engineer I	\$220.00/hr
Project Engineer IV/Technician IV	\$210.00/hr
Project Engineer III/Technician III	\$200.00/hr
Project Engineer II/Technician II	\$185.00/hr
Project Engineer I/Technician I	\$165.00/hr
Senior Designer II	\$190.00/hr
Senior Designer I	\$185.00/hr
Designer	\$175.00/hr
Assistant Designer	\$170.00/hr
CADD Operator III	\$165.00/hr
CADD Operator II	\$155.00/hr
CADD Operator I	\$140.00/hr
CADD Drafter	\$125.00/hr
CADD Technician	\$115.00/hr
Project Coordinator	\$145.00/hr
Engineering Assistant	\$120.00/hr

Environmental Services

Project Director	\$265.00/hr
Senior Specialist IV	\$235.00/hr
Senior Specialist III	\$225.00/hr
Senior Specialist II	\$210.00/hr
Senior Specialist I	\$195.00/hr
Specialist V	\$185.00/hr
Specialist IV	\$175.00/hr
Specialist III	\$165.00/hr
Specialist II	\$155.00/hr
Specialist I	\$145.00/hr
Analyst V	\$135.00/hr
Analyst IV	\$120.00/hr
Analyst III	\$110.00/hr
Analyst II	\$100.00/hr
Analyst I	\$90.00/hr
Technician III	\$75.00/hr
Technician II	\$65.00/hr
Technician I	\$55.00/hr

Mapping and Surveying Services

Application Developer II	\$195.00/hr
Application Developer I	\$155.00/hr
GIS Analyst V	\$205.00/hr
GIS Analyst IV	\$165.00/hr
GIS Analyst III	\$145.00/hr
GIS Analyst II	\$130.00/hr
GIS Analyst I	\$115.00/hr
UAS Pilot	\$115.00/hr
Survey Lead	\$185.00/hr
Survey Manager	\$135.00/hr
Survey Crew Chief	\$115.00/hr
Survey Rod Person	\$95.00/hr
Survey Mapping Technician	\$95.00/hr

Construction Management Services

Principal/Manager	\$195.00/hr
Senior Construction Manager	\$185.00/hr
Senior Project Manager	\$175.00/hr
Construction Manager	\$160.00/hr
Project Manager	\$150.00/hr
Resident Engineer	\$150.00/hr
Construction Engineer	\$150.00/hr
On-site Owner's Representative	\$140.00/hr
Prevailing Wage Inspector	\$139.00/hr
Construction Inspector	\$135.00/hr
Administrator/Labor Compliance	\$100.00/hr

Hydrogeology/HazWaste Services

Project Director	\$315.00/hr
Principal Hydrogeologist/Engineer II	\$285.00/hr
Principal Hydrogeologist/Engineer I	\$265.00/hr
Senior Hydrogeologist V/Engineer V	\$250.00/hr
Senior Hydrogeologist IV/Engineer IV	\$240.00/hr
Senior Hydrogeologist III/Engineer III	\$230.00/hr
Senior Hydrogeologist II/Engineer II	\$220.00/hr
Senior Hydrogeologist I/Engineer I	\$210.00/hr
Project Hydrogeologist V/Engineer V	\$195.00/hr
Project Hydrogeologist IV/Engineer IV	\$185.00/hr
Project Hydrogeologist III/Engineer III	\$175.00/hr
Project Hydrogeologist II/Engineer II	\$165.00/hr
Project Hydrogeologist I/Engineer I	\$155.00/hr
Hydrogeologist/Engineering Assistant	\$120.00/hr

District Management & Operations

District General Manager	\$210.00/hr
District Engineer	\$205.00/hr
Operations Manager	\$160.00/hr
District Secretary/Accountant	\$135.00/hr
Collections System Manager	\$135.00/hr
Grade V Operator	\$125.00/hr
Grade IV Operator	\$110.00/hr
Grade III Operator	\$100.00/hr
Grade II Operator	\$80.00/hr
Grade I Operator	\$75.00/hr
Operator in Training	\$75.00/hr
Collection Maintenance Worker	\$75.00/hr

Creative Services

Creative Services IV	\$165.00/hr
Creative Services III	\$150.00/hr
Creative Services II	\$135.00/hr
Creative Services I	\$120.00/hr

Publications Services

Technical Editor IV	\$165.00/hr
Technical Editor III	\$150.00/hr
Technical Editor II	\$135.00/hr
Technical Editor I	\$120.00/hr
Publications Specialist IV	\$120.00/hr
Publications Specialist III	\$110.00/hr
Publications Specialist II	\$100.00/hr
Publications Specialist I	\$90.00/hr
Clerical Administration	\$90.00/hr

Expert Witness – Court appearances, depositions, and interrogatories as expert witness will be billed at 2.00 times normal rates.

Emergency and Holidays – Minimum charge of two hours will be billed at 1.75 times the normal rate.

Material and Outside Services – Subcontractors, rental of special equipment, special reproductions and blueprinting, outside data processing and computer services, etc., are charged at 1.15 times the direct cost.

Travel Expenses – Mileage at current IRS allowable rates. Per diem where overnight stay is involved is charged at cost.

Invoices, Late Charges – All fees will be billed to Client monthly and shall be due and payable upon receipt. Invoices are delinquent if not paid within 30 days from the date of the invoice. Client agrees to pay a monthly late charge equal to 1% per month of the outstanding balance until paid in full.

Annual Increases – Unless identified otherwise, these standard rates will increase in line with the CPI-U for the Los Angeles area per the Department of Labor Statistics (or the nearest urban area per the Department of Labor Statistics to where the work is being completed) or by 3% annually, whichever is higher.

The rates listed above assume prevailing wage rates does not apply. If this assumption is incorrect Dudek reserves the right to adjust its rates accordingly.



DATE: December 15, 2022
TO: Board of Directors' Workshop - Resources
FROM: Adekunle Ojo, Manager of Water Resources
SUBJECT: Water Resources Management Update

Staff Recommendation

Receive and File the Water Resources Management Update.

Summary

The purpose of this report is to update the Board on some of the major projects and programs pertaining to the Water Resources Department:

I. State Water Project (SWP)

In times of drought on the SWP, Valley District and the retail agencies hold a series of water supply contingency meetings to discuss how to share and optimally utilize available supplies. This year, available supplies were again proportioned based upon each agency's 5-year SWP purchase average, and the process has allowed the region to live within its means in 2022. Given the initial SWP allocation of 5%, the region will start this process again on December 12, 2022, and staff is optimistic that the lessons learned through this contingency planning exercise will help the region share any potential shortage in SWP supplies in 2023.

II. Climate Adaptation and Resilience Plan

Internal discussions with the various Valley District departments are ongoing regarding the draft adaptation and resilience strategies and anchoring them to goals and objectives in the Strategic Plan. Staff is anticipating holding a meeting with the Climate Resilience Committee (comprised of Director Hayes and Director Longville) in late January/early February 2023 to go over the draft strategies. Subsequently, the strategies will be refined and discussed at a Board workshop tentatively in February 2023. Staff is also exploring some climate

adaptation grant funding that can offset a portion of Valley District’s planning and potential implementation costs.

III. Demand Management Program

The Demand Management Incentive was approved by the Board as part of the Fiscal Year 2022-2023 General Fund Budget and the purpose is to provide a financial incentive to retail agencies for every acre-foot of water saved (\$179/acre-feet) during this fiscal year, up to 5,000 AF for the Valley District service area, irrespective of the means or methods utilized. Staff worked with Varner & Brandt on an agreement to formalize the program. To date, three (3) agencies have signed up for about 25% of the 5,000 acre-feet authorized under the program (see table below) and two additional agreements are nearing completion (West Valley and City of Rialto).

Agency	Water Savings Goal (Acre-Feet)	Potential Incentive Amount (\$179/AF)
City of Redlands	418	\$74,882
San Bernardino Municipal Water Department	720	\$128,800
Yucaipa Valley Water District	100	\$17,900
TOTAL	<u>1,238</u>	<u>\$221,582</u>

Staff will continue to work with other agencies to get the remaining incentive utilized. Staff is also working with the retail agencies on improving the means and methods to achieve or exceed their water efficiency goals.

IV. Monthly Conservation Reporting

Each month, retail agencies report to the California Department of Water Resources (DWR) their potable water production and conservation activities for the preceding calendar month. An expanded report, including conservation activities is required whenever the Governor declares a drought emergency or when a supplier invokes a water shortage contingency level of more than 10 percent, which is currently applicable given the State’s 15% voluntary reduction request.

Based on the most recent data [published](#) by DWR, the cumulative average reduction for the Valley District’s service area is -4.1% even though some of the agencies exceed the 15% reduction goal during some of the months. It is pertinent to note that because many agencies in our service area maintained their demand savings from the last statewide drought with many customers demonstrating their commitment to conservation as a way of life, this region would not expect double-digit demand reduction like other areas of the State that are just starting to ramp up conservation.

Agency	Percentage Cumulative Reduction*
Riverside Highland Water Company	-9.3%
City of Colton	-8.5%
City of Redlands	-5.8%
East Valley Water District	-5.2%
City of San Bernardino	-4.7%
City of Rialto	-4.3%
City of Loma Linda	-3.1%
Yucaipa Valley Water District**	-1.0%
Fontana Union Water Company	-0.8%
West Valley Water District	1.4%

**Any reduction from 2020 level could be considered appropriate considering longstanding actions*

***DWR reporting covers potable water only and excludes recycled water, which is a core YVWD water management strategy*