



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

PURSUANT TO THE PROVISIONS OF AB 361, THIS MEETING WILL BE CONDUCTED VIRTUALLY WITH THE OPPORTUNITY FOR PUBLIC COMMENT. ALL VOTES TAKEN DURING THIS VIRTUAL MEETING WILL BE CONDUCTED BY ORAL ROLL CALL.

This meeting will be accessible as follows:

Meeting Access Via Computer (Zoom)*:	Meeting Access Via Telephone*:
<ul style="list-style-type: none"> https://sawpa.zoom.us/j/88182305323 Meeting ID: 881 8230 5323 	<ul style="list-style-type: none"> 1 (669) 900-6833 Meeting ID: 881 8230 5323
<p>* Participation in the meeting via the Zoom app (a free download) is strongly encouraged; there is no way to protect your privacy if you elect to call in by phone to the meeting.</p>	

NOTICE OF REGULAR MEETING OF THE PROJECT AGREEMENT 22 COMMITTEE

Interregional Landscape Water Demand Reduction Program

Committee Members:

Shivaji Deshmukh, General Manager, Inland Empire Utilities Agency
 Heather Dyer, General Manager, San Bernardino Valley Municipal Water District
 Joe Mouawad, General Manager, Eastern Municipal Water District, Chair
 Michael Markus, General Manager, Orange County Water District, Vice Chair
 Craig Miller, General Manager, Western Municipal Water District

TUESDAY, DECEMBER 13, 2022 – 8:30 A.M.

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Joe Mouawad, Chair)
2. PUBLIC COMMENTS
 Members of the public may address the Committee on items within the jurisdiction of the Committee; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).
3. APPROVAL OF MEETING MINUTES: DECEMBER 14, 2021 3
4. COMMITTEE DISCUSSION/ACTION ITEMS
 - A. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE (PA22#2022.1) 7
 Presenter: Rick Whetsel
 Recommendation: Receive and file.

- B. COMMITTEE BUDGET FOR FISCAL YEARS ENDING 2024 AND 2025 (PA22#2022.2)21**
Presenter: Mark Norton
Recommendation: Adopt the PA 22 Committee Budget for Fiscal Years Ending 2024 and 2025.
- C. SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM (SARCCUP) WATER USE EFFICIENCY BUDGET ASSISTANCE COST SAVINGS (PA22#2022.3)37**
Presenter: Mark Norton
Recommendation: Authorize staff to allocate \$340,000 cost savings as follows:
- \$100,000 to the OCWD/MWDOC water use efficiency budget assistance effort. Approve OCWD Sub-Agreement Amendment No. 3 to pass along the \$100,000 to OCWD/MWDOC.
 - \$20,000 to the upper watershed water use efficiency budget assistance effort. Approve a change order with SAWPA’s consultant for this work, NV5, for \$20,000 for additional customer budgets, and lengthen the schedule in the contract with NV5 from February 28, 2023 to September 30, 2023; and
 - The use of the \$220,000 (the remaining of the \$340,000) to be recommended to the PA 22 Committee at a later date.

5. FUTURE AGENDA ITEMS

6. ADJOURNMENT

PLEASE NOTE:

Americans with Disabilities Act: Meeting rooms are wheelchair accessible. If you require any special disability related accommodations to participate in this meeting, please contact (951) 354-4220 or svilla@sawpa.org. Notification at least 48 hours prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Committee after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.org, subject to staff’s ability to post documents prior to the meeting.

Declaration of Posting

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on December 8, 2022, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.org and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

2023 Project Agreement 22 Committee Regular Meetings

Interregional Landscape Water Demand Reduction Program

Quarterly on the Second Tuesday of the Month (March, June, September, December)

(Note: All meetings begin at 8:30 a.m., unless otherwise noticed, and are held at SAWPA.)

March 3/14/23 Regular Committee Meeting	June 6/13/23 Regular Committee Meeting
September 9/12/23 Regular Committee Meeting	December 12/12/23 Regular Committee Meeting

Note: Per Action of the PA 22 Committee on 9-14-21, (agenda item No. 4.A.), the regular PA 22 Committee meetings shall be held Quarterly (March, June, September, December) at 8:30 a.m. on the second Tuesday of every month.



PROJECT AGREEMENT 22 COMMITTEE
Interregional Landscape Water Demand Reduction Program
REGULAR MEETING MINUTES
December 14, 2021

COMMITTEE MEMBERS PRESENT

Joe Mouawad, General Manager, Eastern Municipal Water District [Chair]
Michael Markus, General Manager, Orange County Water District [Vice Chair]
Shivaji Deshmukh, General Manager, Inland Empire Utilities Agency
Heather Dyer, General Manager, San Bernardino Valley Municipal Water District
Craig Miller, General Manager, Western Municipal Water District

COMMITTEE MEMBERS ABSENT

None.

STAFF PRESENT

Edina Goode, Jeff Mosher, John Leete, Karen Williams, Mark Norton, Rick Whetsel, Sara Villa, Zyanya Ramirez

OTHERS PRESENT

T. Milford Harrison, Andrew D. Turner, Lagerlof, LLP

1. CALL TO ORDER

The regular meeting of the PA 22 Committee was called to order at 8:30 a.m. by Chair Joe Mouawad on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California. Pursuant to the provisions of AB 361, this meeting was conducted virtually, and all votes were taken by oral roll call.

2. PUBLIC COMMENTS

There were no public comments; there were no public comments received via email.

3. APPROVAL OF MEETING MINUTES: SEPTEMBER 14, 2021

MOVED, approve the September 14, 2021 meeting minutes.

Result:	Adopted by Roll Call Vote (Unanimously)
Motion/Second:	Dyer/Markus
Ayes	Deshmukh, Dyer, Markus, Miller, Mouawad
Nays:	None
Abstentions:	None
Absent:	None

4. COMMITTEE DISCUSSION ITEMS

A. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE (PA22#2021.11)

Rick Whetsel provided the PowerPoint presentation titled *Proposition 1 Enhanced Decision Support Tool Update* contained in the agenda packet on pages 9-21. The Enhancements to Watershed-Wide Water Budget Decision Support Tool Project (Project) is being funded by a Proposition 1 IRWM Round 1 grant, in-kind staff time partnership with the Bureau of

Reclamation (Reclamation), and cost share from the PA 22 Committee agencies and Municipal Water District of Orange County (MWDOC). The purpose of the project is to capture aerial photography, orthorectify the images to create maps, analyze the maps to create efficiency budgets, and share budgets through a web-based tool.

Geophex, Ltd. (consultant for the upper watershed aerial imagery) has completed collection of aerial imagery and aerial triangulation tying the imagery to known ground coordinates. Production of orthophotos is on track to be completed by end of 2021. Reclamation staff is working on the development of the GIS model that will classify common outdoor landscape objects (e.g., trees, shrubs, and grass). SAWPA is coordinating efforts with the PA 22 Committee agencies and MWDOC to discuss the features and capabilities of the web-based decision support tool.

This item was for informational and discussion purposes; no action was taken on Agenda Item No. 4.A.

B. SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM (SARCCUP) WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE (PA22#2021.12)

Ian Achimore provided the PowerPoint presentation titled *Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Water Efficiency Budget Assistance Project Update* contained in the agenda packet on pages 27-38.

The purpose of the SARCCUP Project is to assist ten (10) retail agencies to comply with State Bill 606 and Assembly Bill 1668 by creating dedicated landscape meter water efficiency budgets through GIS and in-field consultant work. Retail agencies must comply by November 2023. The estimated 3-year SARCCUP Project cost is \$1,031,000.

In the fourth quarter of 2021, SAWPA began creating budgets for the six (6) agencies already signed up for the SARCCUP Project. SAWPA is still working with Jurupa Community Services District and the City of Loma Linda to encourage participation. Each retailer agency will have access for one year to the online portal to view their evapotranspiration data and will also receive shapefiles of new meter service areas and irrigated/irrigable areas. A status update was provided for each retail agency.

The Orange County partners; the Cities of Brea, Fountain Valley, Newport Beach, Orange, and Seal Beach have signed project agreements with MWDOC. These five (5) cities will likely be included under the SARCCUP Project as their amount of dedicated irrigation meters can be covered by \$118,000 in SARCCUP grant/match funding. The City of Brea's analysis has started, and the other cities are currently compiling data and are anticipated to submit in December or early 2022.

Chair Mouawad asked if through the web portal, will customers be able to view daily information on their water usage? Mr. Achimore stated that it would depend on the retailer. The data set is housed in their billing software, therefore they will have the ability to upload their water usage. Chair Mouawad asked if there had been discussion about including residential customers with dedicated outdoor meters to create outdoor budgets? Mr. Achimore noted the discussion has not been brought up with individual residential parcels, but it has been an issue with HOAs and whether they're classified as commercial landscapes. Dedicated landscape budgets will be created for them and can be for others if needed.

Rob Whipple of Western Municipal Water District added that recycled and non-potable dedicated meters will have to be reported. SAWPA staff noted that they have begun including it in the process.

This item was for informational and discussion purposes; no action was taken on Agenda Item No. 4.B.

5. **FUTURE AGENDA ITEMS**

None.

6. **ADJOURNMENT**

There being no further business for review, the meeting ended at 8:58 a.m.

Approved at a Regular Meeting of the Project Agreement 22 Committee on Tuesday, December 13, 2022.

Joe Mouawad, Chair

Attest :

Sara Villa
Clerk of the Board

Page Intentionally Blank

PA 22 COMMITTEE MEMORANDUM NO. 2022.1

DATE: December 13, 2022

TO: Project Agreement 22 Committee

SUBJECT: Enhancements to Watershed-Wide Water Budget Decision Support Tool Project Update

PREPARED BY: Rick Whetsel, Senior Watershed Manager

RECOMMENDATION

Receive and file.

DISCUSSION

The Enhancements to Watershed-Wide Water Budget Decision Support Tool Project (which is funded by a Proposition 1 IRWM Round 1 grant, in-kind staff time partnership with the Bureau of Reclamation (Reclamation), and cost share from the PA 22 agencies and MWDOC) includes the following three tasks:

- **Task 1 – Imagery:** Evaluate and acquire imagery to evaluate landscape for the entire urbanized Santa Ana River Watershed and South Orange County.
- **Task 2 – Landscape Analysis:** Measure landscapes to provide water budgets to retail agencies to support the achievement of water efficiency targets prescribed by the State.
- **Task 3 – Decision Support Tool:** Deploy tool to enable retail agencies to analyze customer water use data to assess customer efficiency, target water over use, and serve as a mechanism for customer outreach.

Recent updates to the Project include:

- Aerial imagery processing complete, orthophotos for project area of interest available upon request from SAWPA,
- Reclamation finalized calibration of their GIS landscape model and is currently analyzing retail water agency service areas in Orange County.
- SAWPA staff is working to complete updates to supporting retail agency parcel GIS data layers.
- SAWPA staff is working to develop data validation methodology.

Next steps include:

- Reclamation to complete landscape modeling for retail water agency services areas in Orange County by February 2023 and the upper watershed by January 2024.
- SAWPA staff to prepare and submit a watershed level data validation report to DWR for consideration of the Alternative Landscape Data set
- SAWPA staff to initiate efforts to design the web-based tool following approval of the data validation report by DWR.

BACKGROUND

The Project will create water efficiency budgets for approximately sixty-one retail water agencies within the urbanized Santa Ana River Watershed South Orange County and a portion of the Upper Santa Margarita Watershed. To create these water efficiency budgets, SAWPA has partnered with the U.S. Bureau of Reclamation to employ GIS based image processing software such to interpret orthorectified aerial imagery into various categories of outdoor landscape by relating image statistics specific to each land cover class.

These budgets will be more accurate for single-family residential (SFR) scale where SFR assessor parcels represent the same SFR customer for the overlying retail agency. When there is a one-to-one relationship like this, SAWPA can use the assessor parcels as the de facto meter service area that captures the customer's outdoor watering extents. The water efficiency budgets will be created through the collection of aerial imagery, weather, and other data.

Reclamation will analyze this imagery with the aid of imagery processing software to create area measurements of irrigable and irrigated vegetation across the entire Santa Ana River Watershed and South Orange County. This analysis will be done regardless of parcel type (or customer classification such as residential) within the watershed and South Orange County because it is largely driven by software computing power.

SAWPA is working on assisting retail water agencies with more complicated water efficiency budgets, through a companion-project presented in this Committee meeting – the SARCCUP Water Budget Assistance Project. Through that SARCCUP Project, SAWPA is working with a consultant NV5 (formerly known as Quantum Spatial) to create accurate meter service area boundaries for dedicated landscape meter customers as they often cover multiple assessor parcels.

CRITICAL SUCCESS FACTORS

The following OWOW critical success factors are addressed by this action:

1. Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
2. Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

None.

Attachment:

1. PowerPoint Presentation

Prop 1 Enhanced Decision Support Tool Update

Rick Whetsel | Senior Watershed Manager
PA 22 - Committee | December 13, 2022
Item No. 4.A.



Enhancements to Watershed-Wide Water Budget Decision Support Tool

Grant Project Objectives:

- ▶ Create parcel level water budgets for Retail Water Agencies.
- ▶ Create online decision support tool for Retail Water Agencies to access water budgets and associated data.

SAWPA Program Goal:

- ▶ Develop cost effective and efficient process to create parcel level outdoor landscape budgets and demonstrate this data meets or exceeds quality and accuracy expectations of DWR.

Key Project Elements:

- ▶ Acquire high resolution aerial imagery
- ▶ Identify and measure irrigated landscape and irrigable land
- ▶ Develop online decision support tool

Project Benefits:

- ▶ Achievement of water efficiency regulations prescribed by the State
- ▶ Identification of non-functional turf
- ▶ Identification of inefficient water users

Project Funding

Grant Award:	\$ 500,000
SAWPA Member Agency Contributions:	\$ 631,208
U.S. Bureau of Reclamation (Grant):	<u>\$ 597,500</u>
Total Project Funding:	\$1,728,708



Project Team

- ▶ Project Lead -SAWPA staff
- ▶ Project supported by SAWPA member agency staff serving on the PA 22 Advisory Workgroup
- ▶ Project Partners
 - ▶ Municipal Water District of Orange County
 - ▶ U.S. Bureau of Reclamation



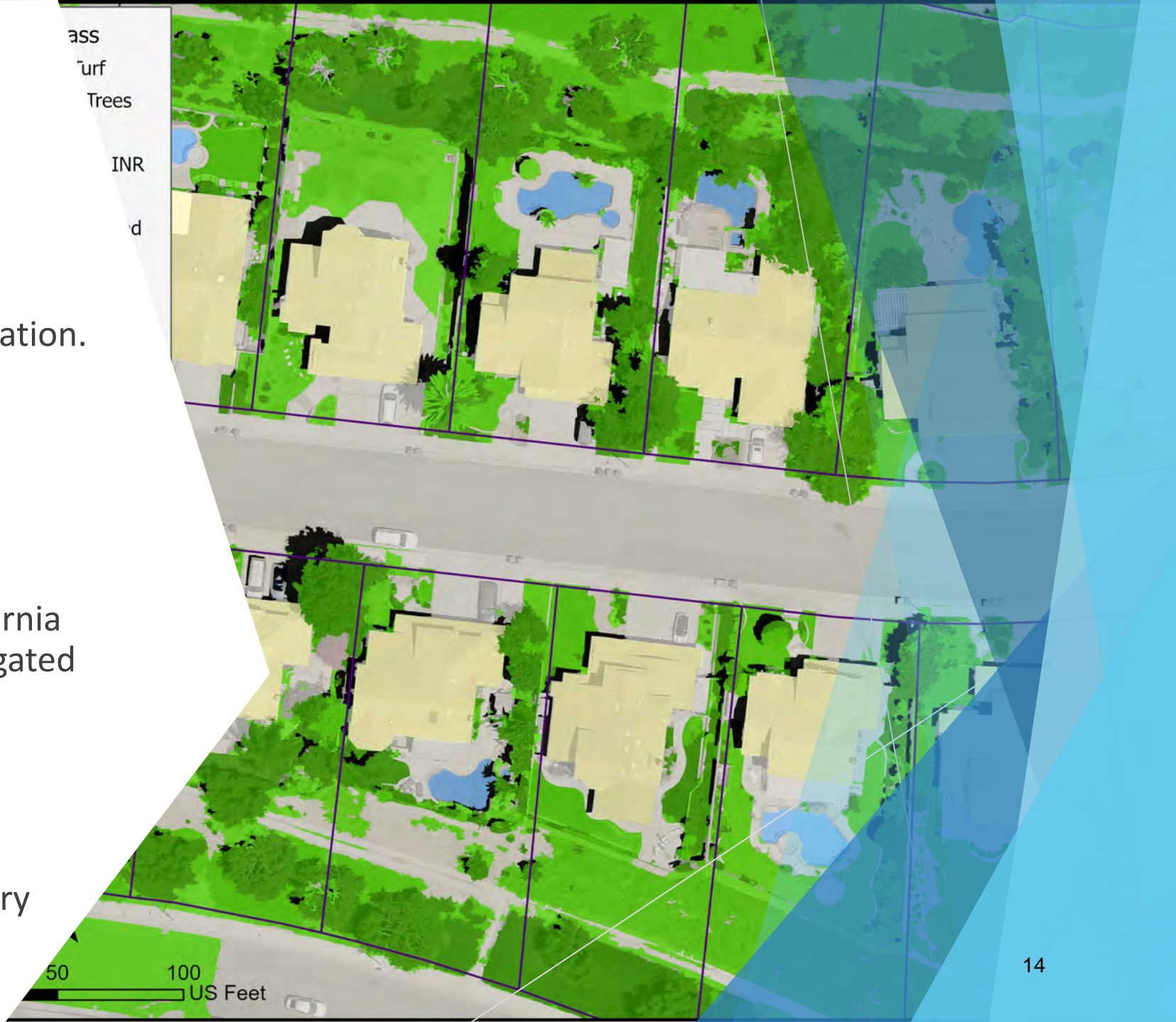
Aerial Imagery

- ▶ Acquire Aerial Imagery
- ▶ Area of interest includes 61 Retail Water Agencies within urbanized Santa Ana River Watershed, South Orange County and Upper Santa Margarita Watershed.
- ▶ 4-band (red, green, blue, and near infrared) at 3 inch resolution
- ▶ Upper Watershed area flights conducted May-Aug 2021.
- ▶ Orange County 2020 data from SCAG
- ▶ Flight data converted to orthophoto maps
- ▶ Status: Complete



Landscape Modeling

- ▶ Identify and measure metered area irrigated and irrigable landscape
- ▶ Performed by U.S. Bureau of Reclamation.
- ▶ Employs GIS based software
- ▶ Incorporates derived mask layers
 - ▶ Building footprints
 - ▶ Agriculture
 - ▶ Open space
- ▶ Landscape classes based upon California Department of Water Resources Irrigated Landscape Measurement Project Classification Reference dataset
- ▶ Status: on-going
 - ▶ Expected completion date January 2024



Decision Support Tool

- ▶ Implement a Decision Support Tool to share the data with water agencies.
 - ▶ Dedicated SAWPA webpage
 - ▶ Accessible to Retail Water Agencies
 - ▶ Key features
 - ▶ Retail agency level data
 - ▶ Imagery
 - ▶ Modeled landscape
 - ▶ Landscape budgets
 - ▶ GIS Tools
 - ▶ Landscape Area Measurements Reports



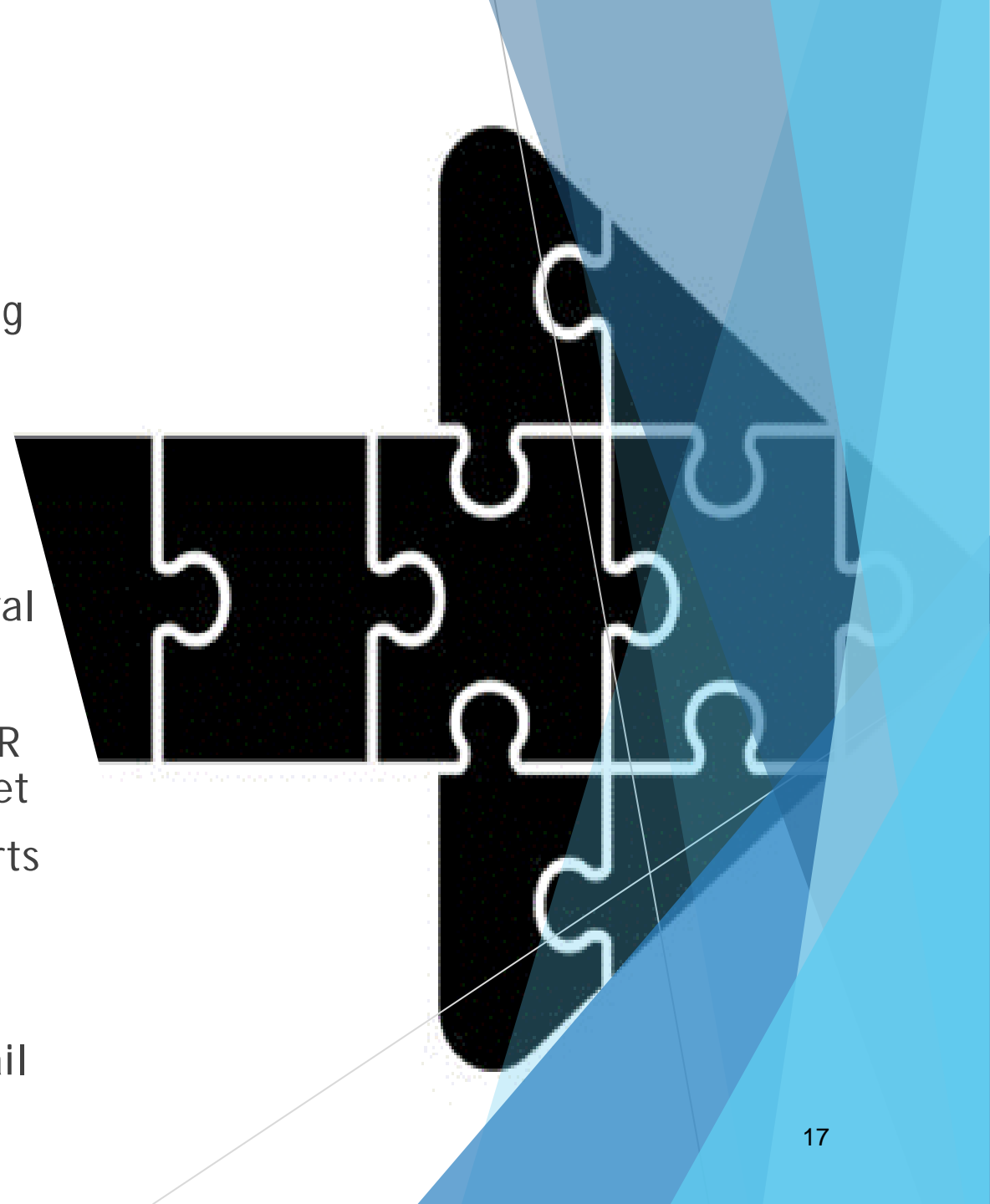
Project Status

- ▶ Upper Watershed Aerial Imagery
 - ▶ Complete
- ▶ Landscape Analysis
 - ▶ Reclamation
 - ▶ Ongoing landscape classification modeling
 - ▶ Orange County retail services areas
 - ▶ SAWPA
 - ▶ Updates to supporting GIS data layers
 - ▶ Developing data validation methodology
- ▶ Web-Based Tool
 - ▶ Begin work in Summer 2023

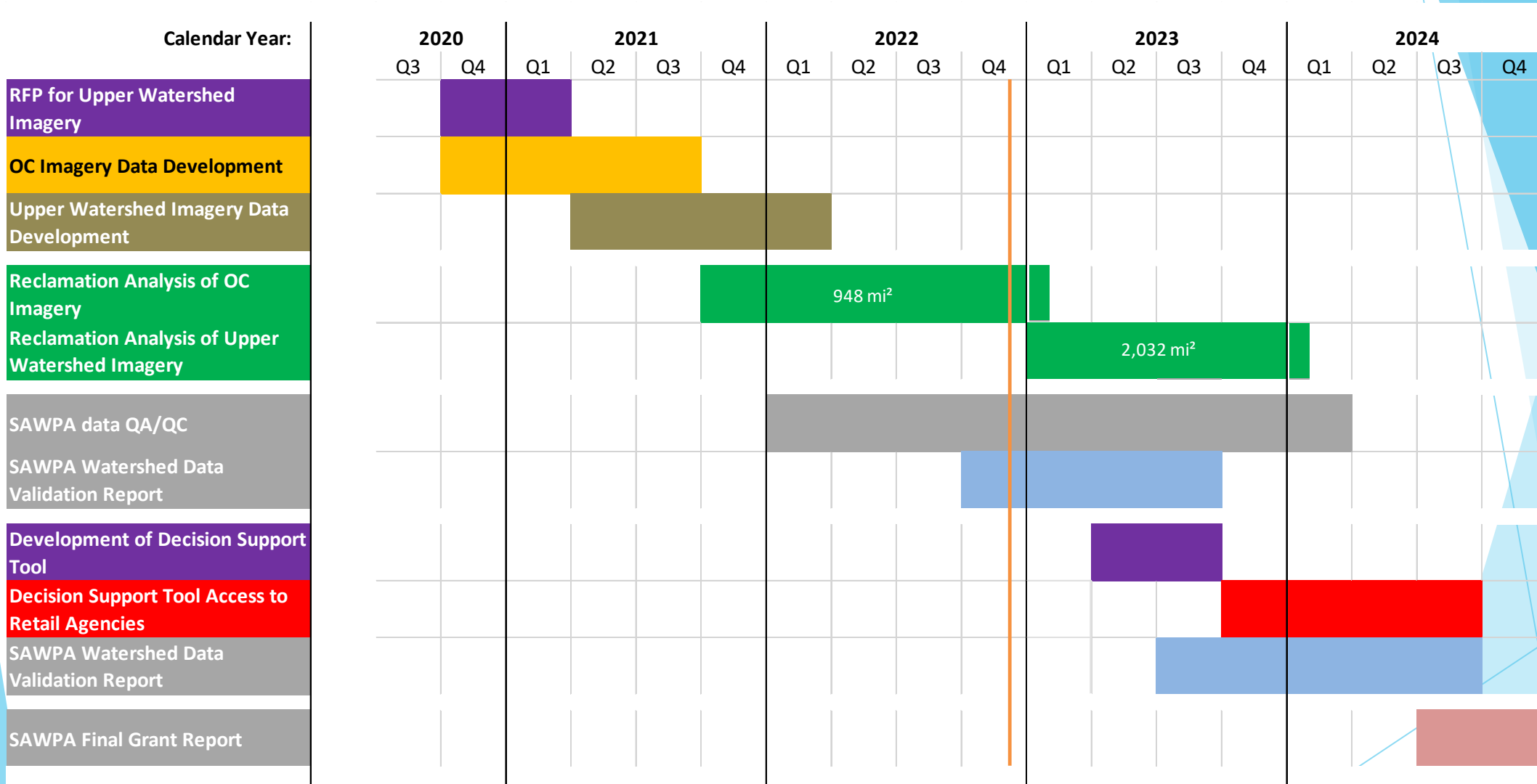


Project (Milestone) Next Steps

- ▶ Landscape Analysis (USBR)
 - ▶ Reclamation
 - ▶ Complete Orange County services areas modeling (Feb 2023)
 - ▶ Complete upper watershed retail service areas modeling (January 2024)
 - ▶ SAWPA staff (December 2022 - June 2023)
 - ▶ Submit Data Validation proposal for DWR approval
 - ▶ Prepare Data Validation Report
 - ▶ Submit Watershed Data Validation Report to DWR for approval as an Alternative Landscape Data set
 - ▶ Prepare individual retail agency validation reports
- ▶ Web-Based Tool (SAWPA) (March 2024)
 - ▶ Design/Develop “Enhanced Tool” webpage
 - ▶ Webpage and associated data accessible to Retail Water Agencies



Schedule



Term of this Grant Agreement states that all work shall be completed by December 31, 2025

Questions

Page Intentionally Blank

PA 22 COMMITTEE MEMORANDUM NO. 2022.2

DATE: December 13, 2022
TO: Project Agreement 22 Committee
SUBJECT: Committee Budget for Fiscal Years Ending 2024 and 2025
PREPARED BY: Mark Norton, Special Projects Manager

RECOMMENDATION

It is recommended that the Committee adopt the PA 22 Committee Budget for Fiscal Years Ending 2024 and 2025.

DISCUSSION

The PA 22 Committee Budget, like the PA 23 Committee Budget, employs the standard two-year budget planning timeframe. It includes two years of grant and matching funds for two projects that are funded by a Proposition 84 IRWM grant and Proposition 1 IRWM grant, and cost share (i.e. participant fees) from the SAWPA member agencies and the Municipal Water District of Orange County (MWDOC). It is important to note that although past PA 22 Committee budgets included participant fees to invoice the member agencies, this is not the case for this proposed budget. This is because SAWPA can utilize carry over funding that are funded upon previous invoicing to the member agencies.

The two projects and their funding sources are provided in the table below:

Project	Schedule	Grant	Match
SARCCUP Water Budget Assistance (NV5 Consultant)	2020 to 2023	Prop 84 IRWM*	Member Agencies
Enhanced Watershed-Wide Decision Support Tool (USBR Partner)	2020 to 2023	Prop 1 IRWM, Bureau of Rec Cooperative Funding	Member Agencies, MWDOC

*Integrated Regional Water Management

For ease of ratification, once a SAWPA member agency approves the SAWPA Budget, they will have approved the PA 22 Committee Budget.

For the SARCCUP Water Budget Assistance Project, expenses include:

- SAWPA project management, quality control process and committee management,
- NV5 Contract (sub-consultant: Eagle Aerial).

For the Enhanced Watershed-Wide Decision Support Tool, expenses include:

- SAWPA project management,
- Aerial imagery products,
- Tool development.

		Current Two Year Budget		Proposed Budget	
		FYE 2022 Actuals	FYE 2023 Projections	FYE 2024 Budget	FYE 2025 Budget
Revenues					
Budget Line Item					
Grants		\$244,838	\$599,386	\$515,540	\$168,776
Participant Fees to Invoice		\$82,868	\$0	\$0	\$0
Participant Fees Used from Reserves		\$171,773	\$497,293	\$498,793	\$92,880
TOTAL		\$499,479	\$1,096,678	\$1,014,333	\$261,656
Expenses					
Budget Line Item					
SAWPA Labor		\$222,370	\$264,876	\$274,166	\$163,776
Legal Fees		\$3,525	\$4,000	\$4,500	\$5,000
Consulting		\$273,584	\$827,803	\$735,667	\$92,880
Aerial Imagery Products Consultants (Prop 1)		\$210,353	\$150,000	\$50,000	\$0
W&C Project Management (SARCCUP)		\$63,231	\$65,000	\$86,000	\$92,880
NV5 Water Budgets (SARCCUP)		\$0	\$612,803	\$599,667	\$0
TOTAL		\$499,479	\$1,096,678	\$1,014,333	\$261,656

Note that Woodard and Curran (W&C) are shown in the budget as they are the overall project management consultant for SARCCUP (water conservation, water bank, and habitat).

CRITICAL SUCCESS FACTORS

- Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
- Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

None.

Attachments:

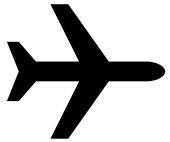
1. PowerPoint Presentation

PA 22 Committee Budget for Fiscal Years Ending 2024 & 2025

Mark Norton, Special Projects Manager
PA 22 Committee | December 13, 2022
Item No. 4.B.



Projects/Grants that Go Into PA 22 Budget

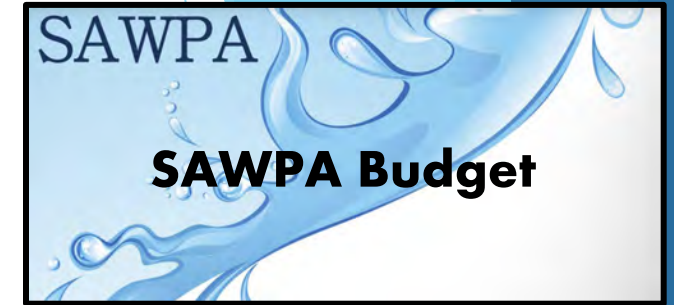


Project	Schedule	Grant	Match
SARCCUP Water Budget Assistance (NV5 Consultant)	2020 to 2023	Prop 84 IRWM*	Member Agencies
Enhanced Watershed-Wide Decision Support Tool (USBR Partner)	2020 to 2023	Prop 1 IRWM, Bureau of Rec Cooperative Funding	Member Agencies, MWDOC

*Integrated Regional Water Management (IRWM)

Relation to SAWPA Commission Budget

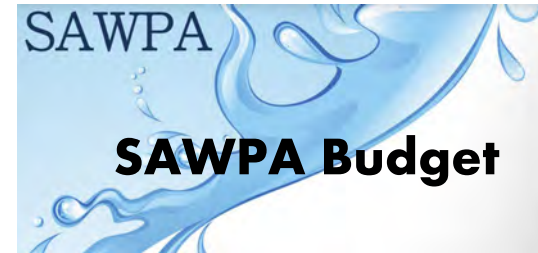
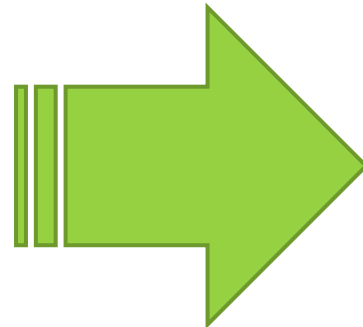
- ▶ PA 22 budget required per Section 10 of Project Agreement,
- ▶ PA 22 budget is also inserted into SAWPA two-year budget,
 - ▶ SAWPA two-year budget to be considered by Commission in May or June 2023.
 - ▶ Specific PA 22 budget does not require separate approval by SAWPA member agency boards.
- ▶ Historically the PA 22 Committee budget has included “participant fees” invoiced to the member agencies. This two-year budget has no participant fees to invoice.
 - ▶ This is because SAWPA can use carry over funding.



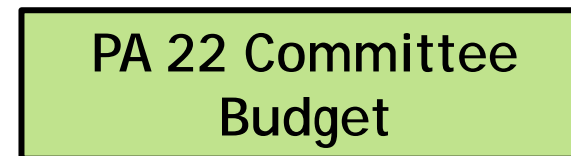
Prop 84 & Prop 1 Grants: Basis of Funding in Committee Budget



(Multi-Year Timeline)



And



(Two Year Timeline)

Separate Documents for Grant



Manage grant funding and track local match



Committee provides oversight for project

Enhanced Watershed-Wide Decision Support Tool



- ▶ Scope: Estimate outdoor water budgets at the parcel level for retail and wholesale water agencies in the Santa Ana River Watershed, South OC and the southern portions of EMWD/WMWD.
- ▶ Budgets will be disseminated through a tool that will allow retail water agencies to analyze the budgets in the context of their own customer data.
- ▶ Expenses:
 - ▶ SAWPA project management,
 - ▶ Aerial imagery products,
 - ▶ Tool development.

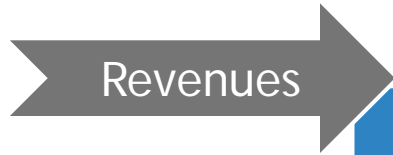
SARCCUP Water Use Efficiency (WUE)



- ▶ Scope: Create dedicated irrigation budgets.
- ▶ Expenses:
 - ▶ SAWPA project management, quality control process and committee management,
 - ▶ NV5 Contract (sub-consultant: Eagle Aerial).

Note: Woodard and Curran (W&C) are shown in the budget as they are the overall project management consultant for SARCCUP (water conservation, water bank, and habitat)

Proposed Budget (Prop 1 Support Tool)



Budget Line Item	Adopted Budget FYE 2022	Adopted Budget FYE 2023	Proposed Budget FYE 2024	Proposed Budget FYE 2025
Prop 1 Grant	\$179,384	\$240,751	\$120,000	\$36,489
Participant Fees To Invoice	\$472,224	\$20,955	\$0	\$0
Participant Fees Used from Reserves	NA	NA	\$46,329	\$0
TOTAL	\$651,608	\$261,706	\$166,329	\$36,489



Budget Line Item	Adopted Budget FYE 2022	Adopted Budget FYE 2023	Proposed Budget FYE 2024	Proposed Budget FYE 2025
SAWPA Labor (Prop 1 Related)	\$106,340	\$103,826	\$116,329	\$36,489
Aerial Imagery Products Consultants	\$545,268	\$157,880	\$50,000	\$0
TOTAL	\$651,608	\$261,706	\$166,329	\$36,489

Proposed Budget (Prop 84 SARCCUP)



Revenues

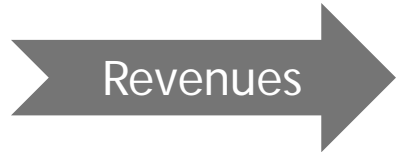
Budget Line Item	Adopted Budget FYE 2022	Adopted Budget FYE 2023	Proposed Budget FYE 2024	Proposed Budget FYE 2025
Prop 84 Grant	\$337,313	\$136,370	\$395,540	\$132,287
Participant Fees to Invoice	\$433,512	\$160,000	\$0	\$0
Participant Fees Used from Reserves	NA	\$386,877	\$452,464	\$92,880
Total	\$770,825	\$683,247	\$848,004	\$225,167

Expenses

Budget Line Item	Adopted Budget FYE 2022	Adopted Budget FYE 2023	Proposed Budget FYE 2024	Proposed Budget FYE 2025
SAWPA Labor	\$139,978	\$154,310	\$157,837	\$127,287
W&C Project Mgmt Consultant	\$170,000	\$160,000	\$86,000	\$92,880
Legal Fees	\$1,300	\$1,300	\$4,500	\$5,000
NV5 Water Budget Consultant	\$459,547	\$367,637	\$599,667	\$0
Total	\$770,825	\$683,247	\$848,004	\$225,167

Note: Majority of costs in FYE 2024 are NV5 consultant as they invoice when project is totally completed (instead of invoicing quarterly as work is completed)

Combined Totals - Comparison to Actual Spending

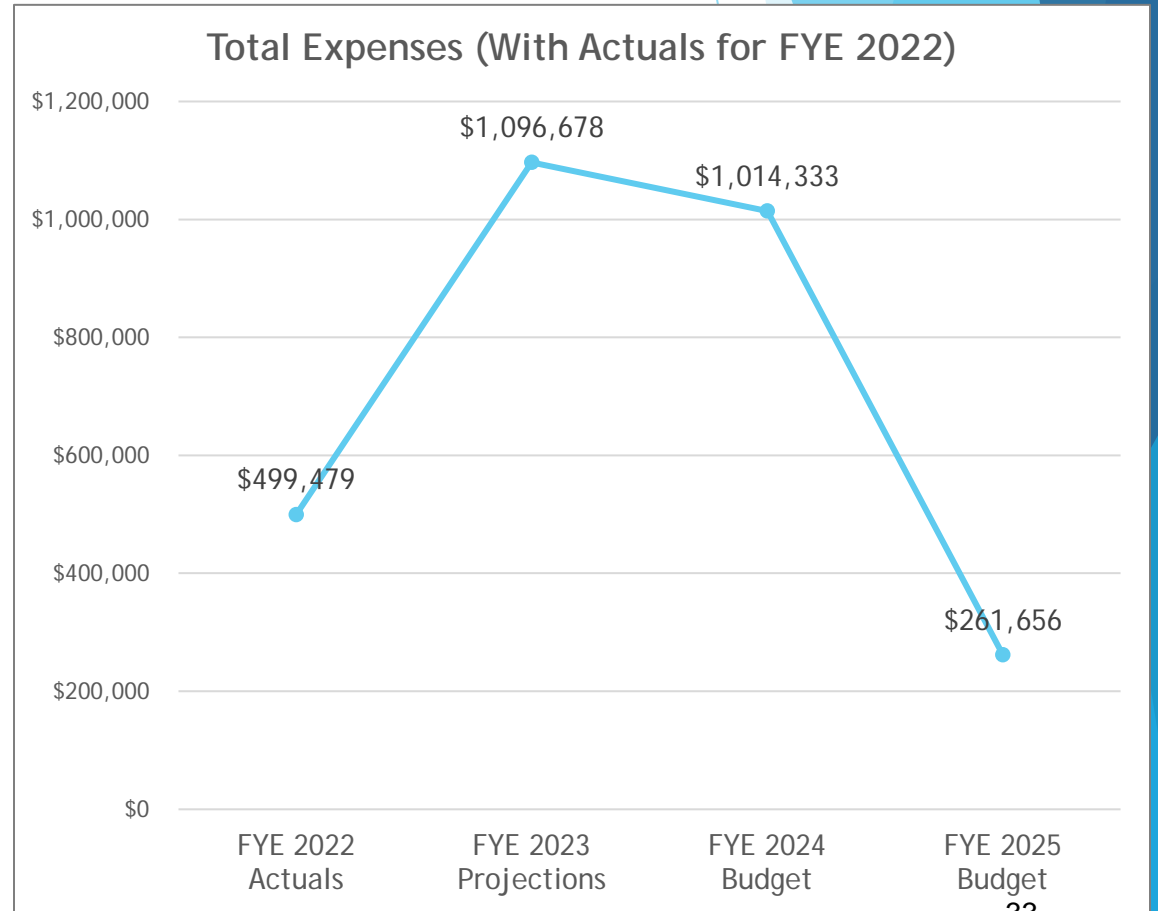
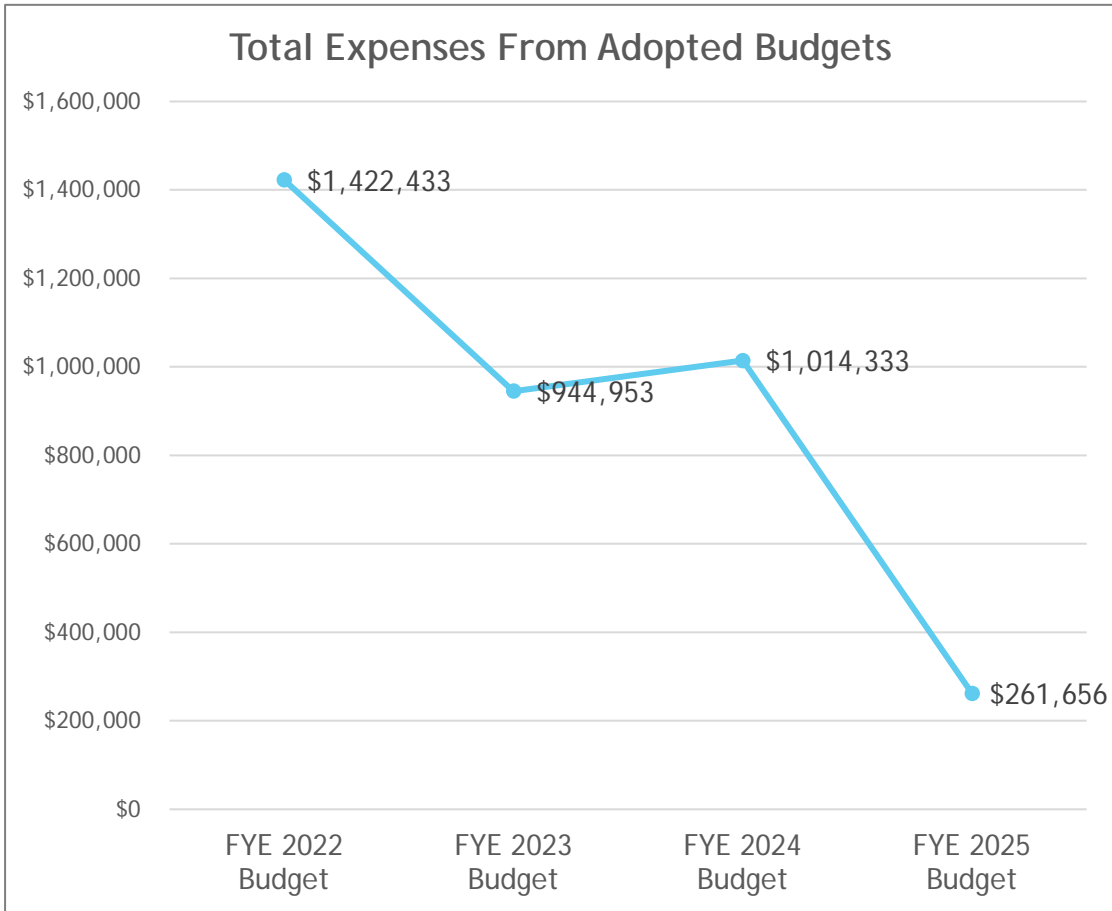


Budget Line Item	Current Two Year Budget		Proposed Budget	
	FYE 2022 Actuals	FYE 2023 Projections	FYE 2024 Budget	FYE 2025 Budget
Grants	\$244,838	\$599,386	\$515,540	\$168,776
Participant Fees to Invoice	\$82,868	\$0	\$0	\$0
Participant Fees Used from Reserves	\$171,773	\$497,293	\$498,793	\$92,880
TOTAL	\$499,479	\$1,096,678	\$1,014,333	\$261,656

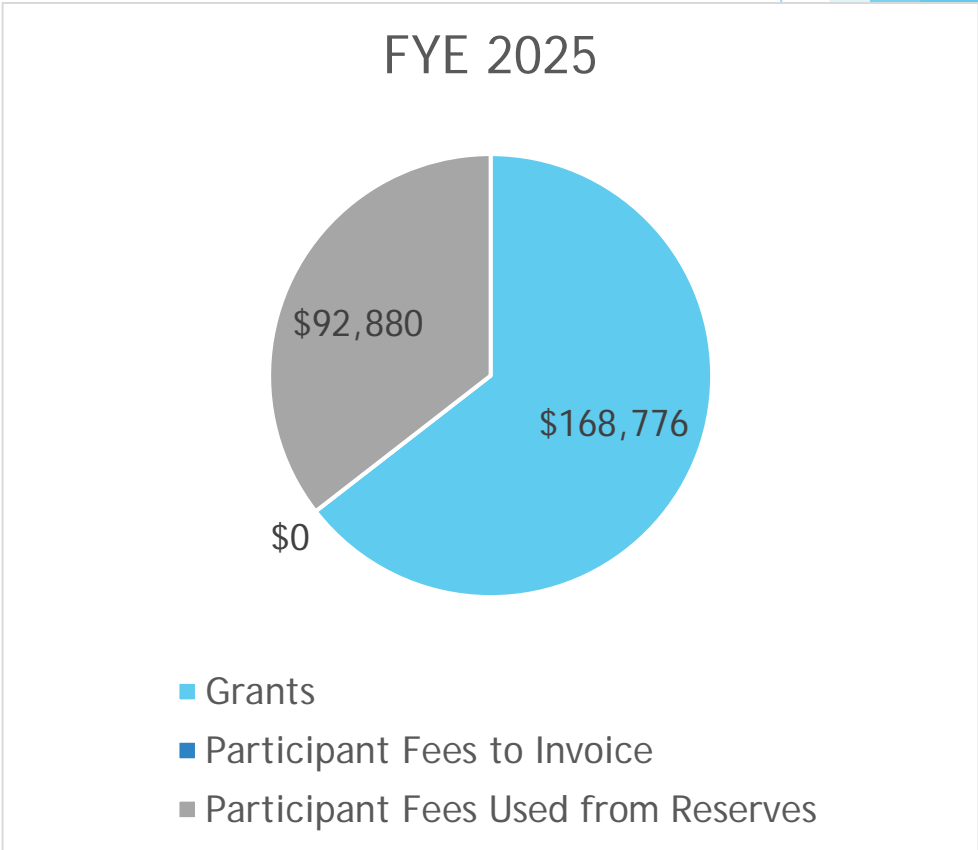
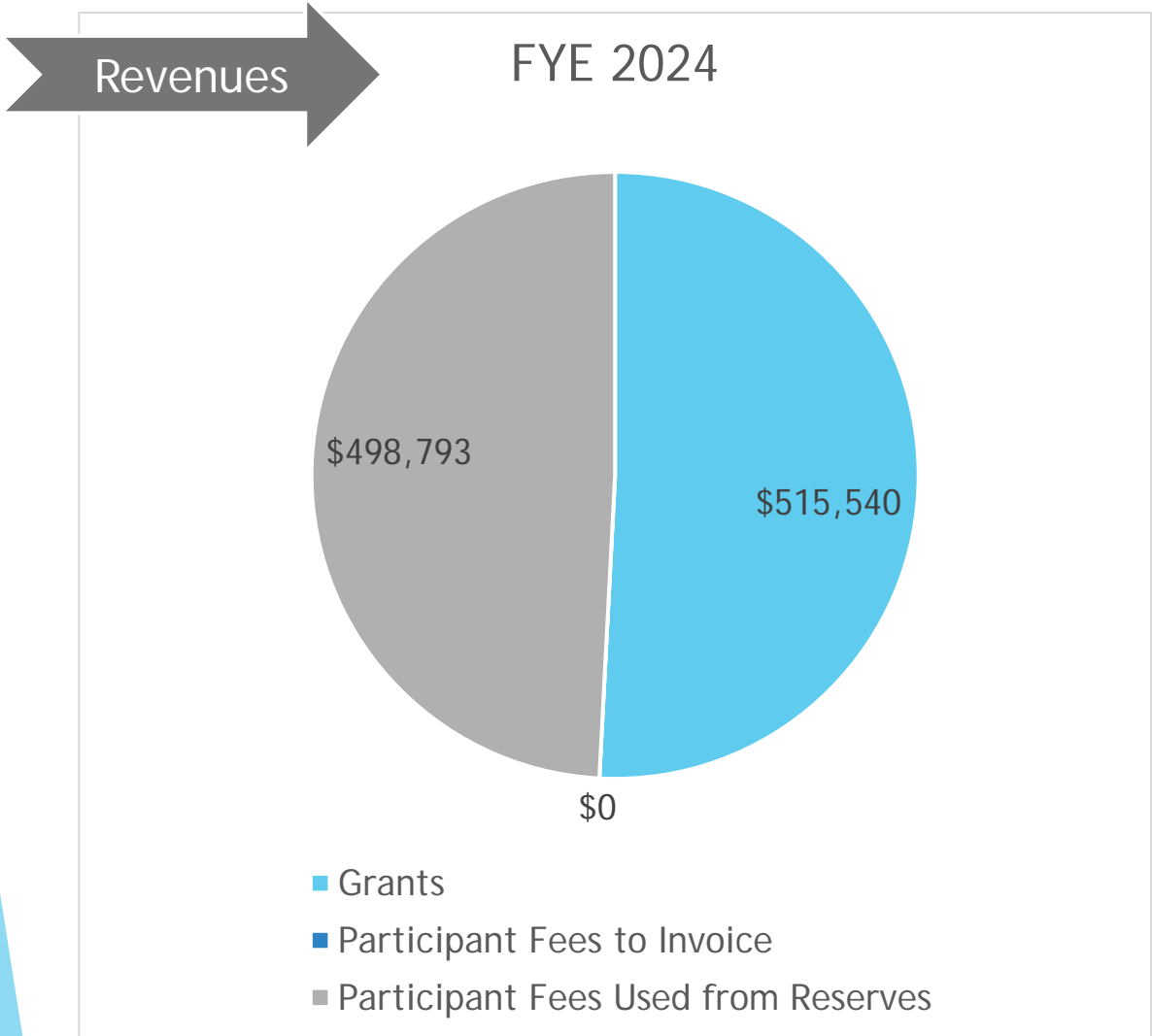


Budget Line Item	Current Two Year Budget		Proposed Budget	
	FYE 2022 Actuals	FYE 2023 Projections	FYE 2024 Budget	FYE 2025 Budget
SAWPA Labor	\$222,370	\$264,876	\$274,166	\$163,776
Legal Fees	\$3,525	\$4,000	\$4,500	\$5,000
Consulting	\$273,584	\$827,803	\$735,667	\$92,880
Aerial Imagery Products Consultants (Prop 1)	\$210,353	\$150,000	\$50,000	\$0
W&C Project Management (SARCCUP)	\$63,231	\$65,000	\$86,000	\$92,880
NV5 Water Budgets (SARCCUP)	\$0	\$612,803	\$599,667	\$0
TOTAL	\$499,479	\$1,096,678	\$1,014,333	\$261,656

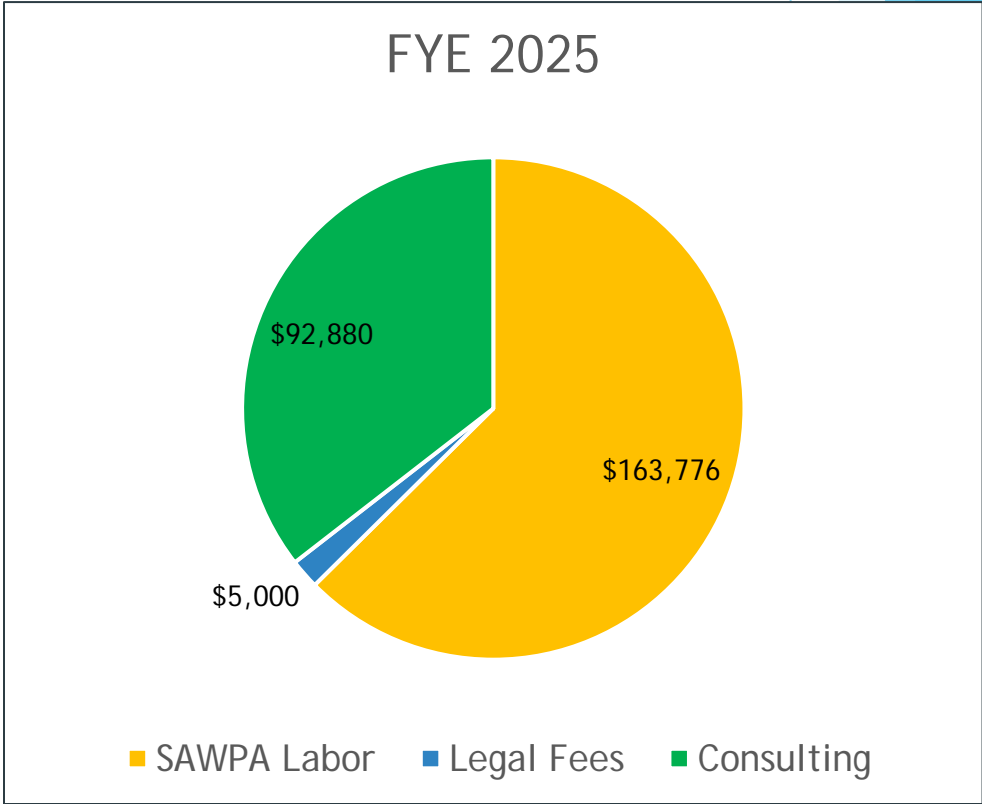
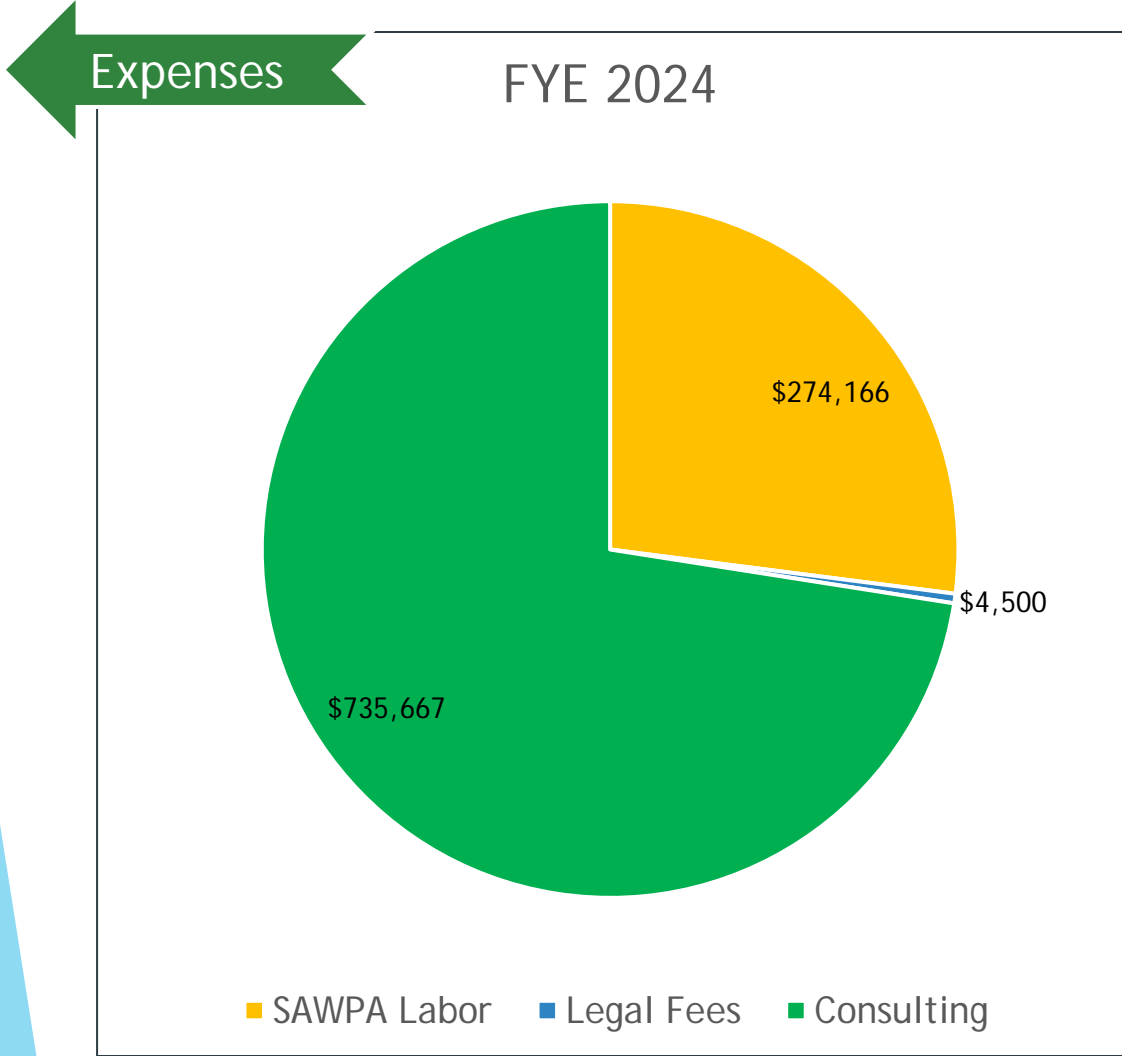
Total Expenses By Year



Revenue-Split for Proposed Budget



Expense-Split for Proposed Budget



Recommendation

It is recommended that the Committee adopt the PA 22 Committee Budget for Fiscal Years Ending 2024 and 2025.



PA 22 COMMITTEE MEMORANDUM NO. 2022.3

DATE: December 13, 2022

TO: Project Agreement 22 Committee

SUBJECT: SARCCUP Water Use Efficiency Budget Assistance Cost Savings

PREPARED BY: Mark Norton, Special Projects Manager

RECOMMENDATION

Authorize staff to allocate \$340,000 cost savings as follows:

- \$100,000 to the OCWD/MWDOC water use efficiency budget assistance effort. Approve OCWD Sub-Agreement Amendment No. 3 to pass along the \$100,000 to OCWD/MWDOC.
- \$20,000 to the upper watershed water use efficiency budget assistance effort. Approve a change order with SAWPA's consultant for this work, NV5, for \$20,000 for additional customer budgets, and lengthen the schedule in the contract with NV5 from February 28, 2023 to September 30, 2023; and
- The use of the \$220,000 (the remaining of the \$340,000) to be recommended to the PA 22 Committee at a later date.

DISCUSSION

SAWPA's scope of work for the SARCCUP Water Use Efficiency Budget Assistance task is contained in the Department of Water Resources Proposition 84 2015 Round Integrated Regional Water Management (IRWM) Grant Agreement.

The scope of work in the DWR Grant Agreement includes the following details:

- SAWPA will work with up to ten retail water agencies in the watershed to create efficiency-based water budgets for their customers.
- These efficiency budgets will provide 1,200 acre-feet over a three-year period (i.e. 400 AFY).

Since starting the effort in 2020, SAWPA implements this task through the following approach:

- SAWPA and consultant, NV5, are working with eight upper watershed retail water agencies.
- Municipal Water District of Orange County (MWDOC) is working with 11 retail water agencies in northern Orange County.
 - SAWPA and OCWD have sub-agreement amendment to fund MWDOC. MWDOC then has an individual agreement with OCWD to receive these funds.

It is important to note that these retailers are motivated to partner on the project as they are required to create efficiency budgets for the majority of their customers per legislation passed under the Governor Edmund "Jerry" Brown administration in 2018. This legislation includes Assembly Bill 1668 and Senate Bill 606, collectively known as the "Making Water Conservation a California Way of Life."

Under the current approach, SAWPA will have met its requirements under the DWR grant agreement and have approximately \$340,000 in cost savings. Staff has worked with the PA 22 Advisory Workgroup over the past several months to brainstorm ideas on the use of this \$340,000, which is match funding from the member agencies that has already been invoiced to the member agencies and paid to SAWPA. \$340,000 in savings occurred because SAWPA, and OCWD/MWDOC, were able to implement the DWR Grant Agreement scope of work under the initial budget.

Orange County and the upper watershed areas can both utilize the funding to do more customers (also known as Meter Service areas or “MSAs”) for several retail water agency partners. There are multiple Orange County retail partners who will benefit from the \$100,000. The upper watershed retail partners who will benefit from the \$20,000 are Monte Vista Water District, Jurupa Community Services District and Riverside Public Utilities. A detailed outlook of the additional MSAs that can be created under the project is included below:

Accomplished Under Current Plan		MSAs	Water Savings AFY*	Grant/Match Funding
		OCWD/MWDOC	1,076	231
	Upper Watershed	1,545	331	\$594,387
	Total	2,621	562	\$713,152
Accomplished with Cost Savings		Extra MSAs	Water Savings AFY*	Grant/Match Funding
		OCWD/MWDOC	299	64
	Upper Watershed	64	14	\$20,000
	Total	363	78	\$120,000
Total with Both		Total MSAs	Water Savings AFY*	Grant/Match Funding
		Grand Total	2,984	639
	Total OCWD/MWDOC	1,375	295	\$218,765
	Total Upper Watershed	1,609	345	\$614,387

*Based on Evaluation of the Landscape Performance Certification Program (January 2004), A&N Technical Services, Inc.

In order to complete this work for the additional customers, SAWPA would not only need to execute a \$20,000 change order with NV5 (bringing their total to \$614,387) but also increase the schedule from February 2023 to September 2023. MWDOC will need the same amount of time to complete this work. Thus, the recommendation includes approval of a change order with NV5 for additional time of seven months and additional funding of \$20,000. This schedule increase will not be an issue for the DWR Grant Agreement as the State’s schedule for SARCCUP lasts until March 2025 for implementation.

CRITICAL SUCCESS FACTORS

- Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
- Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

None as these costs have already been invoiced to the member agencies and paid to SAWPA.

Attachments:

1. PowerPoint Presentation
2. Sub-Agreement Amendment No. 3 with Orange County Water District

SARCCUP Water Efficiency Budget Assistance Cost Savings

Agenda Item 4.C.

Mark Norton | Special Projects Manager

PA 22 Committee | December 13, 2022



Recommendation



- ▶ Authorize staff to allocate \$340k cost savings as follows:
 - ▶ \$100k to the OCWD/MWDOC water use efficiency budget assistance effort. Approve OCWD Sub-Agreement Amendment No. 3 to pass along the \$100k to OCWD/MWDOC.
 - ▶ \$20k to the upper watershed water use efficiency budget assistance effort. Approve a change order with SAWPA's consultant for this work, NV5, for \$20k for additional customer budgets, and lengthen the schedule in the contract with NV5 from February 28, 2023 to September 30, 2023, and
 - ▶ The use of the \$220k (the remaining of the \$340k) to be recommended to the PA 22 Committee at a later date.

Purpose of Task

High-level Scope of work from grant agreement:

- ▶ SAWPA will work with **up to ten retail water agencies** in the watershed to create efficiency-based water budgets.
- ▶ Efficiency budgets will provide **1,200 acre-feet** over a three-year period (i.e. 400 AFY).

How task is implemented:

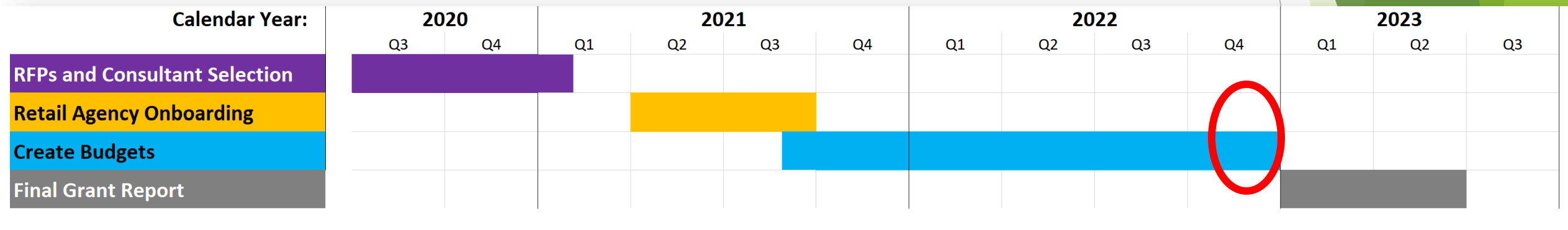
- ▶ SAWPA and consultant, NV5, are working with eight upper watershed retail water agencies.
- ▶ Municipal Water District of Orange County is working with 11 retail water agencies in northern OC.
 - ▶ SAWPA and OCWD have sub-agreement amendment to fund MWDOC.


Dedicated Landscape Meter Customer Example



Meter service area
(MSA)

Overall Project Schedule



 = Current phase

Estimating Future Costs

- ▶ By estimating our future costs, we have found that we will have about \$340k in cost savings.

	Match/Grant Total	<i>Match Portion</i>	<i>Grant Portion</i>
Costs Under Current Approach	\$713,152	\$442,277	\$270,875
Cost Savings	\$340,138	\$340,138	\$0
Total	\$1,053,290	\$782,415	\$270,875

- ▶ This \$340k is made up by match from the five member agencies (that has already been paid to SAWPA).
- ▶ \$340k in savings occurred because SAWPA, and OCWD/MWDOC, were able to implement the grant agreement scope under the initial task budget.

OCWD/MWDOC Partners

RETAIL PARTNER
BREA
BUENA PARK
FOUNTAIN VALLEY
FULLERTON
GARDEN GROVE
NEWPORT BEACH
ORANGE
SANTA ANA
SEAL BEACH
TUSTIN
WESTMINISTER

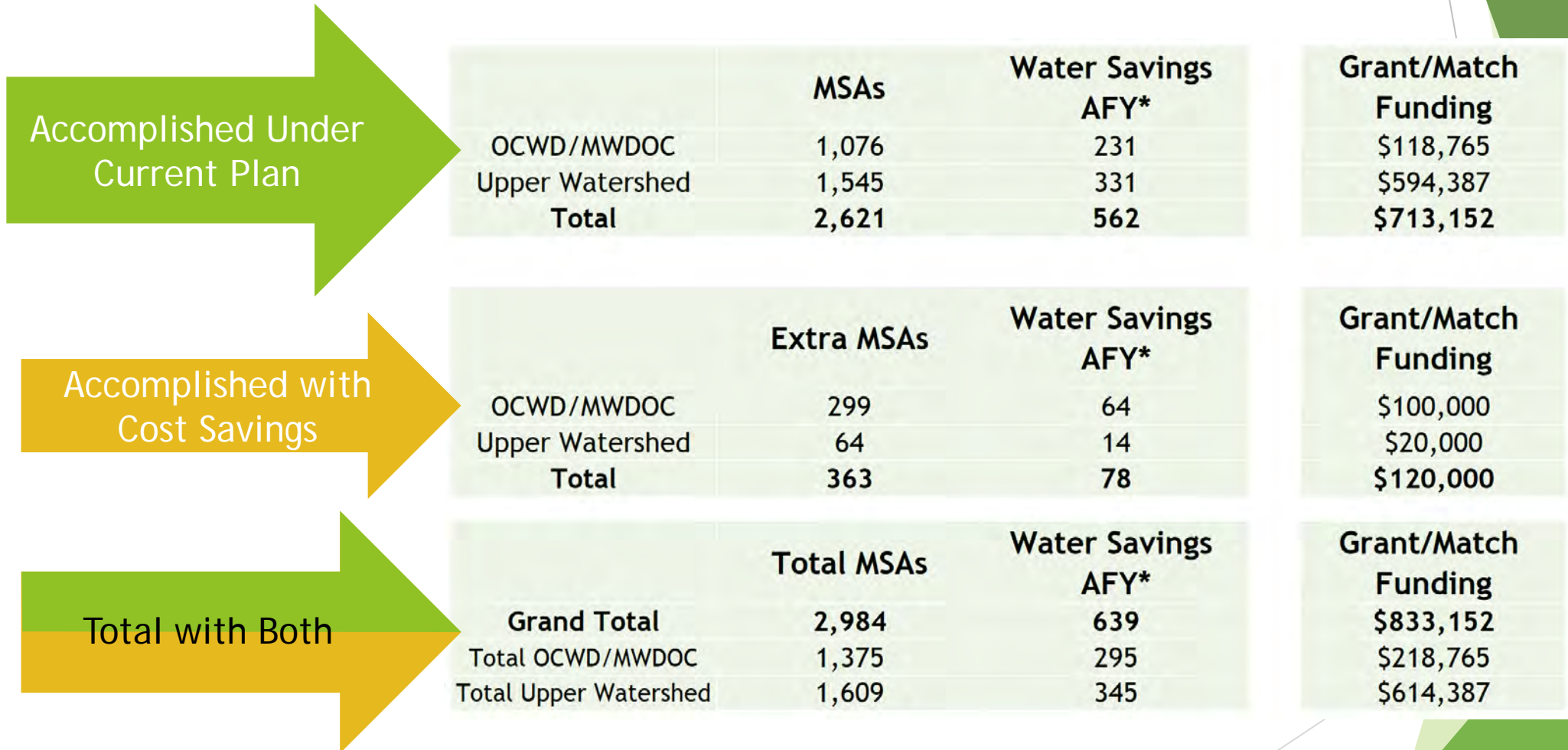
Latest Progress with Retail Partners in Upper Watershed

Upper Watershed Member Agency	Retail Partner	Status Update
EMWD	City of Hemet	MSA boundary report to be approved by City staff soon.
EMWD	City of Perris	New City staff is coordinating with SAWPA/consultant.
IEUA	Monte Vista WD	District staff approved the MSA boundary report. Their MSAs are also fully mapped by the SAWPA consultant's GIS software. Mapping to be approved by staff soon.
IEUA	Chino Hills	MSA boundary report to be approved by City staff soon.
SBVMWD	San Bernardino	District staff has received the MSA boundary report. SAWPA assisting in review of the report to help the District.
SBVMWD	Loma Linda	MSA boundary report to be approved by City staff soon.
WMWD	Riverside	Same status as Monte Vista (see above).
WMWD	Jurupa CSD	MSA boundary report to be approved by District staff soon.

MSA's Per Upper Watershed Agency and Retail Partner

Upper Watershed Member Agency	Retail Partner	MSA Count
EMWD	City of Hemet	148
EMWD	City of Perris	25
IEUA	Monte Vista WD*	197
IEUA	Chino Hills	100
SBVMWD	San Bernardino	190
SBVMWD	Loma Linda	116
WMWD	Riverside*	398
WMWD	Jurupa CSD*	435
	Totals	1,609

Allocation of Cost Savings



*Based on Evaluation of the Landscape Performance Certification Program (January 2004), A&N Technical Services, Inc

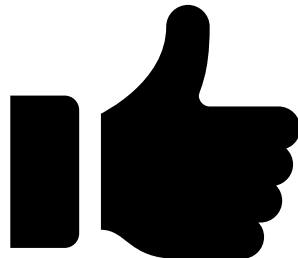
Sub-Agreement Amendment with OCWD

- ▶ In June 2021, the PA 22 Committee approved a sub-agreement amendment with OCWD to provide OCWD with \$118k in grant funding for this task,
 - ▶ OCWD also agreed to execute an agreement with MWDOC to transfer this \$118k to them on an invoice-for-work basis,
- ▶ This June 2021 action by the committee amended an existing OCWD sub-agreement that was adopted in April 2019,
 - ▶ The focus of this existing sub-agreement was to transfer grant funding to OCWD for the Arundo Donax Removal and Conjunctive Use tasks of SARCCUP.
- ▶ This sub-agreement amendment has been reviewed by staff at both OCWD and MWDOC.



Benefits of the New OCWD Sub-Agreement Amendment

- ▶ Continues to streamline SARCCUP water use efficiency task implementation in Orange County -
 - ▶ MWDOC already working with NV5 consultant under their own contract,
 - ▶ Reduces SAWPA's project management costs as less retailers are managed under the SAWPA-led upper watershed effort, and
 - ▶ SAWPA would still be able to claim benefits to DWR because grant/match would go toward MWDOC/OCWD retail water agencies in the Santa Ana River Watershed.



Recommendation



- ▶ Allocate \$340k cost savings as follows:
 - ▶ \$100k to the OCWD/MWDOC water use efficiency budget assistance effort. Approve OCWD Sub-Agreement Amendment No. 3 to pass along the \$100k to OCWD/MWDOC.
 - ▶ \$20k to the upper watershed water use efficiency budget assistance effort. Approve a change order with SAWPA's consultant for this work, NV5, for \$20k for additional customer budgets, and lengthen the schedule in the contract with NV5 from February 28, 2023 to September 30, 2023, and
 - ▶ The use of the \$220k (the remaining of the \$340k) to be recommended to the PA 22 Committee at a later date.

PROPOSITION 84 INTEGRATED REGIONAL WATER MANAGEMENT
2015 ROUND IMPLEMENTATION
GRANT FUNDING CONTRACT AMENDMENT NO. 3
BETWEEN

SANTA ANA WATERSHED
PROJECT AUTHORITY

AND

ORANGE COUNTY
WATER DISTRICT

This Proposition 84 Integrated Regional Water Management Program ("IRWMP") Implementation Grant Funding Contract Amendment No. 3 ("Amendment") is made between Santa Ana Watershed Project Authority ("SAWPA") and Orange County Water District, (the "Sub-Grantee"). SAWPA and the Sub-Grantee may be individually referred to as "Party" and collectively referred to as the "Parties".

WHEREAS, consistent with the Grant Agreement, SAWPA intends to disburse to the Sub-Grantee a portion of the \$64,267,686 in grant funds and matching funds from the SAWPA member agencies for the Santa Ana River Conservation and Conjunctive Use ("SARCCUP") Water Use Efficiency Budget Assistance Task by way of this Amendment.

WHEREAS, consistent with direction from the SAWPA Project Agreement 22 Committee the Sub-Grantee will continue to partner with the Municipal Water District of Orange County ("MWDOC") on implementation of the SARCCUP Water Use Efficiency Budget Assistance Task by way of this Amendment.

WHEREAS, through management of the project by SAWPA, SAWPA has a cost savings of approximately \$340,000, which is a combination of grant and matching funds, which can be provided to the Sub-Grantee's partner MWDOC.

THEREFORE, based on the foregoing incorporated recitals and in consideration of the mutual covenants and conditions set forth in this Contract, Amendment No. 1 and No. 2 to the Contract, and this Amendment, the Parties hereby agree to the following changes to the provisions of the Contract shown below, with all other provisions of the Contract remaining in effect:

Section 2 of the Contract is hereby amended (in bold) as follows:

SECTION 2. SUB-GRANTEE DELIVERABLES

The Sub-Grantee, along with other SARCCUP Sub-Grantees, will finalize a decision support model and take into consideration the Santa Ana River Watershed's hydrology, planned and existing facilities, and groundwater put- and- take scenarios in order to better define agreements and needs for possible future expansion.

The Sub-Grantee, per the Grant agreement, will implement the Program by storing at least 36,000 AF, or 137,000 AF collectively with other Project Sub-Grantees, of wet-year water over each ten-year period¹ and through such actions such as direct pumping or in lieu transfers in dry years convey SARCCUP Project water, over the ten year period, to its own customers and other Santa Ana River Watershed water agencies.

The Sub-Grantee will implement the SARCCUP Orange County well component ("Well Component") by

¹ Performance subject to California Civil Code 1511(2).

designing and constructing three or more new groundwater production wells.

The Sub-Grantee will, unless otherwise restricted by law or court decision, implement the SARCCUP Arundo Component (“Arundo Component”) by eradicating approximately 640 acres of the invasive and heavy water-using plant Arundo Donax just upstream of Prado Dam in Riverside County by utilizing heavy machinery in the floodplain, herbicide and maintenance sweeps by working with its partners. The Sub-Grantee will also complete a study of the effectiveness of removal of Arundo Donax in terms of an overall goal of eradicating Arundo Donax from the Santa Ana River Watershed (“Study Component”) without seeking reimbursement through this Contract. The Study Component shall be complete before the Sub-Grantee requests grant reimbursement through this Contract.

In order to implement the Program, the Sub-Grantee, along with other SARCCUP Sub-Grantees will execute joint agency agreement(s) (“Agreements”) that establish the 137,000 AF groundwater bank that the Program will operate.

The Sub-Grantee will implement the Water Use Efficiency Budget Assistance Task by working with at least two retail water agencies in the Santa Ana River Watershed to create efficiency-based water budgets for their dedicated landscape meter customers. The amount of dedicated landscape meter customer budgets to create through this Task is at least **1,375**. The Sub-Grantee will use tools such as aerial imagery and landscape measurements to calculate outdoor area measurements served by these customers’ water meters. The area measurements will then be applied to a factor that accounts for changes in the weather (i.e. evapotranspiration rates) in order to calculate the amount of water needed by customers for outdoor irrigation. These water budgets will be available to the (at least six) retail water agencies through an online-based tool that they can use to track their customers’ budgets in comparison to their customers’ water usage.

In order to monitor deliverables, the Sub-Grantee, along with the other SARCCUP Sub-Grantees will implement the Project Monitoring Plan as described in Paragraph 21 of the Grant Agreement. The Project Monitoring Plan must be approved by SAWPA and DWR before the Sub-Grantee implements any sampling or monitoring activities. The Sub-Grantee will report on the benefits of the Project based on the Project Monitoring Plan using a final Project Completion Report and Post Performance Reports described in Section 19 and Section 21 of this Contract.

The Sub-Grantee will provide all other deliverables described in the Grant Agreement such as the deliverables listed in Paragraph 15 of the Grant Agreement.

Section 4 of the Contract is hereby amended (in bold) as follows:

SECTION 4. SUB-GRANTEE’S ESTIMATED ELIGIBLE PROJECT COSTS; GRANT AMOUNT; LOCAL FUNDING MATCH

The Sub-Grantee's estimated reasonable cost of the Project at the time of SAWPA's and DWR' s approval of the Project is **\$29,113,421** ~~\$29,013,421~~. Subject to all of the terms, provisions, and conditions of this Contract, including appropriate invoicing and reporting, and subject to the availability of the grant funds, SAWPA shall reimburse Projects costs from A) grant funds in a sum not to exceed approximately **\$9,529,929** ~~\$9,487,221~~, and B) matching funds from the SAWPA member agencies that SAWPA is holding in a special project fund in a sum not to exceed approximately \$183,333. The Sub-grantee's required cost share is \$8,909,588. Work performed after January 17, 2014 by the Sub-Grantee, is eligible for grant reimbursement. Per Exhibit D of the Grant Agreement, the DWR shall withhold retention. SAWPA's actual grant disbursements to the Sub-Grantee under this Contract shall not exceed payments received by SAWPA from the DWR and the SAWPA member agencies. If actual Project costs exceed the

Project's estimated reasonable cost, SAWPA shall have no obligation to provide grant funds for such exceedance.

Work performed by Sub-Grantee to advance the Project after January 1, 2011 is eligible to be counted as the Sub-Grantee's local funding match used to complete the Project.

If the Sub-Grantee proceeds to implement the Project, the final grant amount will be determined in accordance with the provisions of this Contract. If the Sub-Grantee fails or refuses to proceed with or complete construction of the Project, SAWPA shall consider such failure or refusal to be a material violation and breach of this Contract. SAWPA shall have all rights and remedies as are otherwise available to it for breach of this Contract by the Sub-Grantee.

Eligible Project costs include the reasonable costs of studies, engineering, design, land and easement acquisition, legal fees, preparation of environmental documentation, environmental mitigations, monitoring, and Project construction. Costs that are not eligible for reimbursement or eligible to be counted as the Sub-Grantee's local funding match are described in Paragraph ten (10) of the Grant Agreement.

Reasonable administrative expenses may be included as eligible project costs and will depend on the complexity of the project preparation, planning, coordination, construction, acquisitions, implementation, and maintenance. Reasonable administrative expenses are the necessary costs incidentally but directly related to the Project including the portion of overhead and administrative expenses that are directly related to the Project.

IN WITNESS THEREOF, the parties have executed this Amendment on the later date set forth below.

SANTA ANA WATERSHED PROJECT
AUTHORITY

Dated: _____

By: _____
Jeffrey J. Mosher, General Manager

ORANGE COUNTY WATER DISTRICT
Sub-Grantee

Dated: _____

By: _____
Michael R. Markus, General Manager