



# S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

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

**PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 19, 2020, THIS MEETING WILL BE CONDUCTED VIRTUALLY. ALL VOTES TAKEN DURING THIS VIRTUAL MEETING WILL BE CONDUCTED BY ORAL ROLL CALL.**

**This meeting will be accessible as follows:**

<b>Meeting Access Via Computer (Zoom)*:</b>	<b>Meeting Access Via Telephone*:</b>
<ul style="list-style-type: none"> <li>• <a href="https://sawpa.zoom.us/j/93992576156">https://sawpa.zoom.us/j/93992576156</a></li> </ul>	<ul style="list-style-type: none"> <li>• 1 (669) 900-6833</li> </ul>
<ul style="list-style-type: none"> <li>• Meeting ID: 939 9257 6156</li> </ul>	<ul style="list-style-type: none"> <li>• Meeting ID: 939 9257 6156</li> </ul>
<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, JUNE 8, 2021 – 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: MAY 11, 2021..... 3**

**4. COMMITTEE DISCUSSION/ACTION ITEMS**

- A. WATER EFFICIENCY BUDGET ASSISTANCE PROJECT – APPROVAL OF SUB-AGREEMENT AMENDMENT WITH ORANGE COUNTY WATER DISTRICT (PA22#2021.7) ..... 7**  
**Presenter:** Ian Achimore  
**Recommendation:** Approve execution of a Sub-Agreement Amendment with Orange County Water District (OCWD) in order to contract with the Municipal Water District of Orange County (MWDOC) for approximately \$118,000 in funding to implement the SARCCUP Water Use Efficiency Budget Assistance Task in North Orange County.
- B. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE (PA22#2021.8) ..... 29**  
**Presenter:** Ian Achimore  
**Recommendation:** Receive and file.

**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](http://www.sawpa.org), subject to staff's ability to post documents prior to the meeting.

**Declaration of Posting**

I, Sara Villa, Acting Clerk of the Board of the Santa Ana Watershed Project Authority declare that on June 3, 2021, a copy of this agenda has been uploaded to the SAWPA website at [www.sawpa.org](http://www.sawpa.org) and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

**2021 Project Agreement 22 Committee Regular Meetings**

Interregional Landscape Water Demand Reduction Program  
 Second Tuesday of Every Month

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

<b>January</b> 1/12/21 <del>Regular Committee Meeting</del> [cancelled]	<b>February</b> 2/9/21 Regular Committee Meeting
<b>March</b> 3/9/21 <del>Regular Committee Meeting</del> [cancelled]	<b>April</b> 4/13/21 Regular Committee Meeting
<b>May</b> 5/11/21 Regular Committee Meeting	<b>June</b> 6/8/21 Regular Committee Meeting
<b>July</b> 7/13/21 Regular Committee Meeting	<b>August</b> 8/10/21 Regular Committee Meeting
<b>September</b> 9/14/21 Regular Committee Meeting	<b>October</b> 10/12/21 Regular Committee Meeting
<b>November</b> 11/9/21 Regular Committee Meeting	<b>December</b> 12/14/21 Regular Committee Meeting

**Note:** Per Action of the PA 22 Cmte on 1-23-20, (agenda item No. 4.E.), beginning March 2020 the regular PA 22 Committee meetings shall be held 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**  
**May 11, 2021**

**COMMITTEE MEMBERS PRESENT**

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

**COMMITTEE MEMBERS ABSENT**

Shivaji Deshmukh, General Manager, Inland Empire Utilities Agency

**STAFF PRESENT**

Jeffrey Mosher, Karen Williams, Mark Norton, Ian Achimore, Dean Unger, Sara Villa, Zyanya Ramirez, Haley Mullay

**OTHERS PRESENT**

T. Milford Harrison, Andrew D. Turner, Lagerlof, LLP, Lisa Perales, Inland Empire Utilities Agency

**1. CALL TO ORDER**

The regular meeting of the PA 22 Committee was called to order at 8:30 a.m. by Vice Chair Michael Markus on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California. Pursuant to the provisions of Executive Order N-25-30, this meeting was conducted virtually.

**2. PUBLIC COMMENTS**

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

**3. SELECTION OF COMMITTEE CHAIR AND VICE CHAIR**

Due to the recent retirement of Eastern Municipal Water District's (EMWD) General Manager Paul D. Jones, the Project Agreement 22 Committee nominated new General Manager of EMWD, Joe Mouawad.

**MOVED**, approve the nomination of Joe Mouawad as Chair of the Project Agreement 22 Committee.

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

The remainder of the meeting was chaired by newly appointment Chair Joe Mouawad.

Next, the Project Agreement 22 Committee members nominated Michael Markus, of Orange County Water District, to serve as Vice Chair.

**MOVED**, approve the nomination of Michael Markus as Vice Chair of the Project Agreement 22 Committee.

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

**4. APPROVAL OF MEETING MINUTES: APRIL 13, 2021**

**MOVED**, approve the April 13, 2021 meeting minutes.

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

**5. COMMITTEE DISCUSSION ITEMS**

**A. WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE (PA22#2021.5)**

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 11-28. Mr. Achimore reviewed background information about the Water Efficiency Budget Assistance Project, the second task under the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP). In February 2021, the Project Agreement 22 Committee approved a contract with NV5 (formerly known as Quantum Spatial), which will partner with SAWPA, SAWPA member agencies, Municipal Water District of Orange County (MWDOC), and the selected retail agencies. There will be 2 retail agencies per SAWPA member agency to partner with SAWPA for the Water Efficiency Budget Assistance Project. In the past month, a Memorandum of Understanding (MOU) template and a webpage for the program have been developed. Two virtual workshops have been planned, for May 3 and May 11, for upper Santa Ana River watershed recruitment with many retail agencies registering for the events. SAWPA staff plans to meet with Eastern Municipal Water District to develop an approach to promote interest and recruitment from agencies in their service area since there was little-to-no response for the workshops. Retail recruitment for Orange County agencies will have a separate workshop and process.

SAWPA has been working with MWDOC on a potential coordinated approach to recruit and manage retail agency partners in North Orange County. MWDOC is also utilizing the services of NV5, as a consultant. Mr. Achimore provided information on the benefits of partnering with MWDOC for the north Orange County agencies, including cost-share and efficiency of project management throughout the region. Feedback from the Committee included having project management filter through Orange County Water District (OCWD), like previous projects conducted in the past. SAWPA staff plans to make a recommendation at the next PA 22 meeting based on feedback from the Committee and from the consultant.

This item was for informational and discussion purposes; no action was taken on Agenda Item No. 5.A.

**B. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION  
SUPPORT TOOL PROJECT UPDATE (PA22#2021.6)**

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 35-43. The main objective of the project is to collect aerial imagery to provide recommendations for water usage and budgeting by land parcel. This effort is supported by in-kind staff time partnership with the U.S. Bureau of Reclamation (USBR) as well as cost share provided by the PA 22 agencies and the Municipal Water District of Orange County (MWDOC). At the April 2021 PA 22 meeting, a contract with consultant, Geophex Ltd., was approved to provide imagery of the upper Santa Ana River Watershed imagery. The collection of imagery is set to begin in the next week or two and is anticipated to be completed in May or June 2021.

The Southern California Association of Governments (SCAG) have a contract with consultant, Eagle View, to produce imagery of Orange County. The imagery provided by SCAG is anticipated to be available to SAWPA and USBR in July 2021 and will supplement the imagery provided by Geophex.

The U.S. Bureau of Reclamation is currently working on finalizing server storage for maintaining the imagery, as well as crafting a model to classify common outdoor landscape objects (such as trees, shrubs, and grass). Once the imagery from Orange County is received, the landscape classification will begin. SAWPA staff and USBR continue to meet monthly to discuss project status.

This item was for informational and discussion purposes; no action was taken on Agenda Item No. 5.B.

**6. FUTURE AGENDA ITEMS**

None.

**7. ADJOURNMENT**

There being no further business for review, the meeting ended at 9:13 a.m.

**Approved at a Regular Meeting of the Project Agreement 22 Committee on Tuesday, June 8, 2021.**

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Joe Mouawad, Chair

Attest :

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Sara Villa  
Acting Clerk of the Board

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## PA 22 COMMITTEE MEMORANDUM NO. 2021.7

**DATE:** June 8, 2021

**TO:** SAWPA Project Agreement 22 Committee

**SUBJECT:** Water Efficiency Budget Assistance Project – Approval of Sub-Agreement Amendment with Orange County Water District

**PREPARED BY:** Ian Achimore, Senior Watershed Manager

### RECOMMENDATION

Per the feedback of the Committee at their May 11, 2021, approve execution of a Sub-Agreement Amendment with Orange County Water District (OCWD) in order to contract with the Municipal Water District of Orange County (MWDOC) for approximately \$118,000 in funding to implement the SARCCUP Water Use Efficiency Budget Assistance Task in North Orange County.

### DISCUSSION

The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) includes a Water Use Efficiency Task in the Department of Water Resources' Proposition 84 grant agreement scope of work, whereby SAWPA is the lead to implement its two sub-tasks: 1) the Smartscape Program, and 2) the Water Efficiency Budget Assistance Project. As approved by the PA 22 Committee, SAWPA contracted with Quantum Spatial (now doing business as "NV5") in February 2021 for the Water Efficiency Budget Assistance Project. As of 2020, the Smarstcape Task is complete. In February 2021, the PA 22 Committee approved a plan whereby SAWPA would partner with two retail water agencies per SAWPA member agency on the Water Efficiency Budget Assistance Project.

SAWPA has worked with MWDOC, the PA 22 Committee and the PA 22 Advisory Workgroup on the modified approach for recruiting and managing retail water agency partners in North Orange County (i.e. part of the Santa Ana River Watershed). Per the PA 22 Committee's feedback at their May 11, 2021 meeting, staff is recommending executing an agreement to transfer to MWDOC approximately 1/5<sup>th</sup> (i.e. \$118,000) of the existing contract amount of approximately \$594,000 between SAWPA and NV5. This agreement would be with OCWD, who already has a sub-grantee agreement with SAWPA for implementing the Arundo Donax Removal and Conjunctive Use tasks of SARCCUP. The amendment recommended for approval would amend the sub-grantee agreement to:

- Reiterate the intent of the PA 22 Committee that this amendment between OCWD and SAWPA will allow OCWD to contract with MWDOC on implementation of the SARCCUP task,
- Require the implementation of efficiency budgets for at least 284 customers, and
- OCWD to contract with MWDOC for approximately \$118,000 in funding for this work.

Once OCWD executes an agreement with MWDOC, which is also scheduled for June 2021, MWDOC would work with all Orange County agencies, including the two that would have been managed by SAWPA. As discussed with the PA 22 Committee at their May meeting, there are benefits to this approach in Orange County, including the following:

- Streamlines project implementation in Orange County as MWDOC is already working with NV5 consultant,
  - Under their contract, the retailers are funding consultants' costs (i.e. they provide their own funding to MWDOC), and MWDOC in turn serves as project manager of consultant,
- Fixes perceived inequity, as under current approach two OC retailers would receive consultant services fully funded (by SAWPA grant and cost share) and the other OC retailers would fully fund the consultant themselves via MWDOC,
- Reduces SAWPA's project management costs as less retailers are managed under the SAWPA-led effort, and
- SAWPA is able to claim grant-funded benefits under the Department of Water Resources' (DWR) grant agreement because grant (and local cost share as funding match) would help support MWDOC's retail water agencies in the Santa Ana River Watershed.

SAWPA is recommending that the existing SAWPA-NV5 contract remain unmodified despite the \$118,000 budget transfer to OCWD for MWDOC because the existing SAWPA-NV5 task order is defined as a not-to-exceed value, still provides the flexibility of increased support at set threshold rates if upper watershed needs exceed early estimates and does not change the minimum guaranteed contract amount. As shared with the PA 22 Committee, the estimated three-year costs for this project are approximately \$913,000 and there is sufficient budget from local cost share and the Proposition 84 grant to cover the transfer of \$118,000 to Orange County. It is also early in the implementation of the Project, SAWPA is tracking requests from interested retail water agency partners and the amount of customers that they are interested in creating efficiency budgets for.

The proposed Sub-Agreement Amendment with OCWD and SAWPA is attached and reflects changes to the original agreement in bold or strikethrough text. The Sub-Agreement has been reviewed by SAWPA's legal counsel and is scheduled for OCWD board approval in mid-June 2021.

## **BACKGROUND**

Initially, the SARCCUP scope of work in the Department of Water Resources (DWR) Proposition 84 grant agreement included the SARCCUP conservation-based water rates sub-task in order to build on the success of the Emergency Drought Grant Program (funded by a prior round of Proposition 84 IRWM funding). The Emergency Drought Grant Program assisted/funded nine agencies with their budget-based rates studies. Three ultimately adopted budget-based rates (Chino, Chino Hills and East Valley Water District) after the rate studies were presented to their elected boards. It was thought that SARCCUP could further assist more retail agencies in the watershed by incentivizing them to study, and hopefully, implement budget-based rates.



### **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

- PowerPoint Presentation
- Sub-Agreement Amendment with Orange County Water District

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# Water Efficiency Budget Assistance Project – Approval of Sub-Agreement Amendment with Orange County Water District

Agenda Item No. 4.A.

Ian Achimore | Senior Watershed Manager

PA 22 Committee | June 8, 2021

# Recommendation

Per the feedback of the Committee at their May 11, 2021, approve execution of a Sub-Agreement Amendment with Orange County Water District (OCWD) in order to contract with the Municipal Water District of Orange County (MWDOC) for approximately \$118,000 in funding to implement the SARCCUP Water Use Efficiency Budget Assistance Task in North Orange County.

# Project Purpose

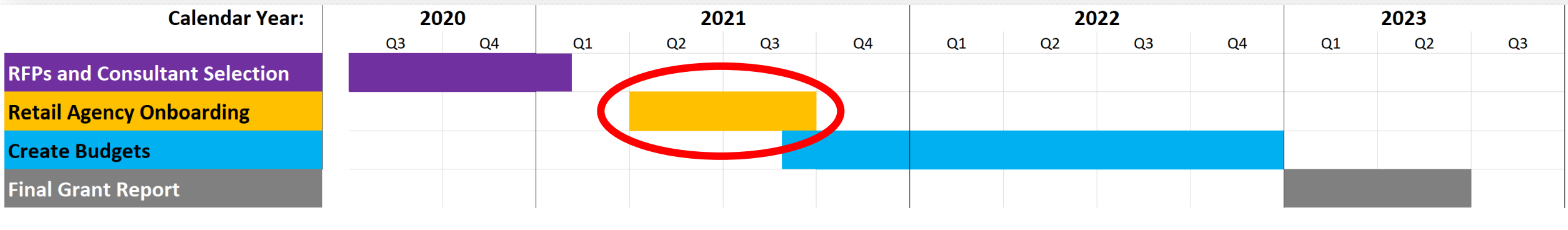
- Help **10** retail agencies comply with State regulations\* that require water agencies to adhere to agency-wide water use efficiency budgets,
  - Project specifically creates dedicated landscape meter water efficiency budgets through GIS and in-field consultant work.
- PA 22 Committee approved two retail water agency partners per SAWPA member agency.

## Dedicated Landscape Meter Customer Example



\* Senate Bill 606 and Assembly Bill 1668

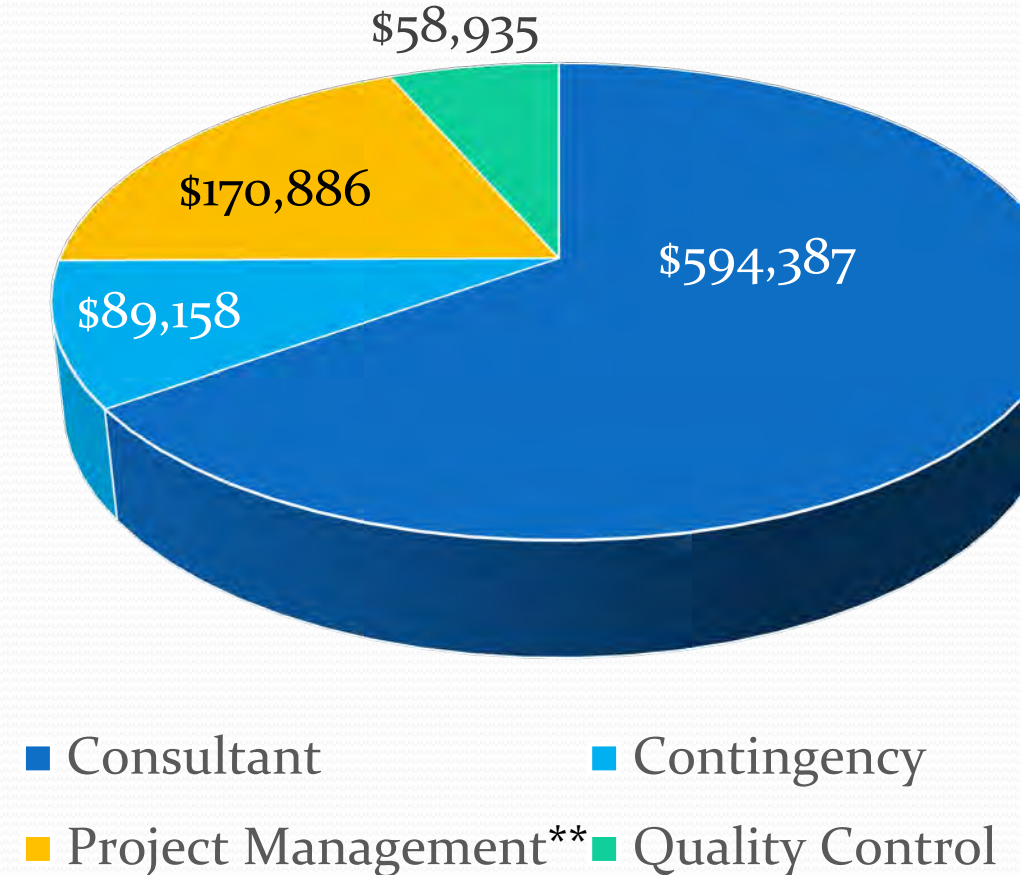
# Overall Project Schedule



= Current phase

# Estimated 3 Year Project Costs

- Consultant = NV5, Eagle Aerial and Waterfluence,\*
- Contingency = Consultant (15% of consultant contract),
- Project Management, Outreach and MOUs = SAWPA staff costs, and
- Quality Control = SAWPA GIS staff costs.



**Total Costs = Approximately \$913,000**

\*\$594,387 represents contract approved by PA 22 Committee.

\*\*Includes outreach and MOU execution with retailers.

# Interested Retailer List

<b>SAWPA Agency</b>	<b>Retailer</b>	<b>Interest Status</b>
EMWD	City of Hemet	Verbal After Workshop
EMWD	City of Perris	Verbal After Workshop
IEUA	Monte Vista Water District	Letter/Questionnaire
IEUA	City of Chino	Verbal After Workshop
IEUA	City of Chino Hills	Verbal After Workshop
IEUA	Cucamonga Valley Water District	Attended Initial Workshop
IEUA	City of Upland	Attended Initial Workshop
SBVMWD	City of Redlands	Attended Initial Workshop
SBVMWD	City of Loma Linda	Attended Initial Workshop
SBVMWD	Yucaipa Valley Water District	Attended Initial Workshop
SBVMWD	City of San Bernardino	Attended Initial Workshop
WMWD	City of Riverside	Letter of Interest
WMWD	Jurupa CSD	Letter of Interest

Note: Virtual workshops held to recruit retail agencies on May 3 and May 11. OCWD agencies not listed due to OC process discussed on next slide.



# Orange County Process for Project

- SAWPA has worked with MWDOC and the Committee on the modified approach for recruiting and managing retail water agency partners in North Orange County\*.
- Per the PA 22 Committee's feedback at their May 11, 2021 meeting, staff is recommending executing an agreement to transfer approximately 1/5<sup>th</sup> (i.e. \$118,000) of the existing contract amount of approximately \$594,000 between SAWPA and NV5.
- This agreement would be with OCWD, who already has a sub-grantee agreement with SAWPA for implementing the Arundo Donax Removal and Conjunctive Use tasks of SARCCUP.



\*South OC is outside the SAR Watershed.<sup>17</sup>

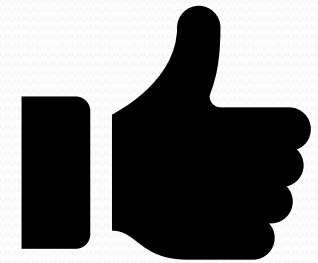
# Provisions of SAWPA & OCWD Amendment

- The amendment recommended for approval would amend the sub-grantee agreement by:
  - Reiterate the Committee's intent that this amendment will allow OCWD to contract with MWDOC on implementation of this SARCCUP task,
  - Require the implementation of efficiency budgets for at least 284 customers, and
  - OCWD to contract with MWDOC for approximately \$118,000 in funding for this work.



# Benefits of Executing SAWPA & OCWD Amendment

- Streamlines Project implementation in OC as MWDOC is already working with NV5 consultant,
- Fixes perceived unfairness, as under current approach two OC retailers would receive consultant services fully funded and the other OC retailers would fully fund the consultant themselves via MWDOC\*,
- Reduces SAWPA's project management costs as less retailers are managed under the SAWPA-led effort, and
- SAWPA would be able to claim grant-funded benefits under the Department of Water Resources' grant.



\*MWDOC's process uses retail agency partnership funding to fund their consultant<sup>19</sup> contract.

# Interested Agencies in Orange County

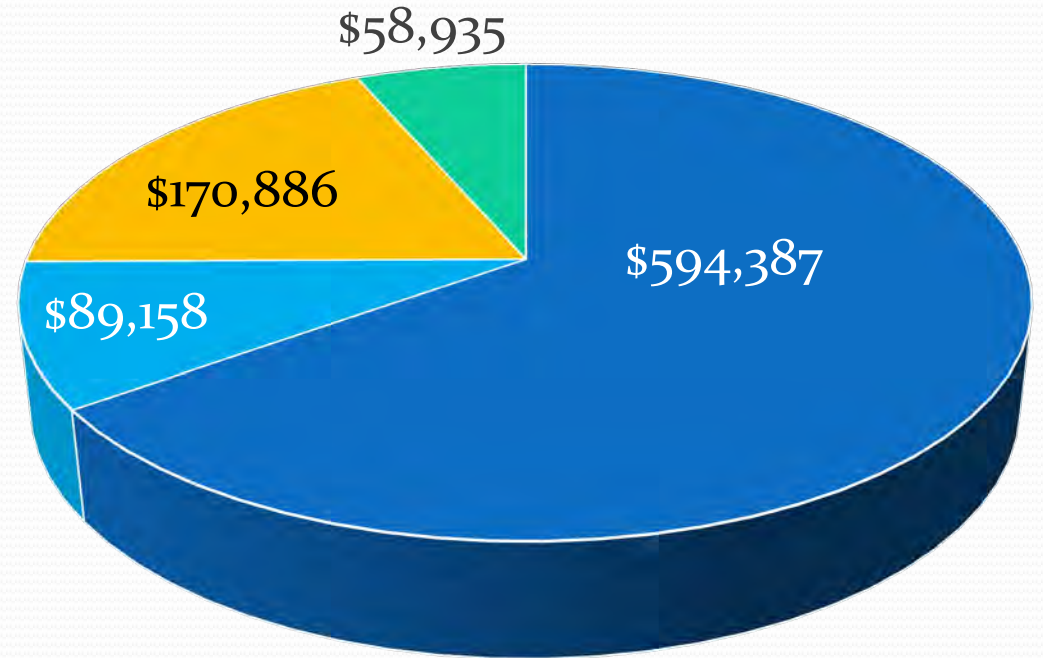
- Table reflects agencies who have expressed interest in the Project in OC and an estimated number of dedicated irrigation meter (DIM) customers that may need consultant services.
  - Note: This list is preliminary and subject to change as agencies refine their needs.
  - Agencies not currently included on this list are still welcome to participate.

★ = In Santa Ana River Watershed

Agency	Estimated Number of DIM Customers
City of Anaheim ★	528
City of Brea ★	156
City of Buena Park ★	177
El Toro Water District ★	176
City of Fountain Valley ★	90
City of Fullerton ★	259
City of Garden Grove ★	326
Golden State Water Company ★	225
City of La Habra ★	91
Laguna Beach County Water District	43
Mesa Water District ★	616
Moulton Niguel Water District	200
City of Newport Beach ★	704
City of Orange ★	73
City of San Clemente	247
City of Seal Beach ★	47
South Coast Water District	209
Trabuco Canyon Water District	28
City of Westminster ★	276
Yorba Linda Water District ★	232
<b>Estimated Total:</b>	<b>4,703</b>

# Effect on Budget

- SAWPA not recommending to decrease the SAWPA and NV5 contract by \$118k,
- The existing SAWPA-NV5 task order is defined as a not-to-exceed value and still provides the flexibility of increased support if upper watershed needs exceed early estimates.



- Consultant
- Contingency
- Project Management
- Quality Control

**Total Costs = Approximately \$913,000**

# Recommendation

Per the feedback of the Committee at their May 11, 2021, approve execution of a Sub-Agreement Amendment with Orange County Water District (OCWD) in order to contract with the Municipal Water District of Orange County (MWDOC) for approximately \$118,000 in funding to implement the SARCCUP Water Use Efficiency Budget Assistance Task in North Orange County.

PROPOSITION 84 INTEGRATED REGIONAL WATER MANAGEMENT  
2015 ROUND IMPLEMENTATION  
GRANT FUNDING CONTRACT AMENDMENT NO. 2  
BETWEEN

SANTA ANA WATERSHED  
PROJECT AUTHORITY

AND

ORANGE COUNTY  
WATER DISTRICT

This Proposition 84 Integrated Regional Water Management Program ("IRWMP") Implementation Grant Funding Contract ("SAWPA Contract") Amendment No. 2 ("Amendment") is made between Santa Ana Watershed Project Authority ("SAWPA") and Orange County Water District, (the "Sub-Grantee" or "OCWD"). 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 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 partner with the Municipal Water District of Orange County on implementation of the SARCCUP Water Use Efficiency Budget Assistance Task by way of this Amendment.

WHEREAS, Section 10 of the SAWPA Contract allows OCWD, with the prior written consent of SAWPA, to assign duties and obligations under the SAWPA Contract and the Grant Agreement with DWR, such as the Water Use Efficiency Budget Assistance Task, to water agencies such as the Municipal Water District of Orange County ("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 to the Contract, and this Amendment, the Parties hereby agree to the following changes to the provisions and implementation of the Contract shown below, with all other provisions of the Contract remaining in effect:

Per Section 10 of the SAWPA Contract, OCWD requests, and SAWPA grants, SAWPA's consent for OCWD to assign its duties and functions with regard to the Water Use Efficiency Budget Assistance Task to MWDOC, and the Parties agree that MWDOC shall be directly responsible for compliance with all applicable terms of the SAWPA Contract as to the assigned task.

Section 2 of the Contract is hereby amended (with new language indicated 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 period<sup>1</sup>

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<sup>1</sup> Performance subject to California Civil Code 1511(2).

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 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 and/or its assignee, will implement the Water Use Efficiency Budget Assistance Task<sup>2</sup> 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 284. 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 developed per this task will be available to the (at least two) 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 (with new language indicated 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 **\$29,013,309** ~~\$28,894,544~~. Subject to all of the terms, provisions, and conditions of this

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<sup>2</sup> This task is 12.5.1 as defined in Amendment No. 2 to the Grant Agreement.



Contract, including appropriate invoicing and reporting, and subject to the availability of the grant funds, SAWPA shall reimburse Projects costs from grant funds in a sum not to exceed ~~\$9,487,109~~ **\$9,368,344**. 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. 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.

Section 5 of the Contract is hereby amended (with new language indicated in bold) as follows:

## **SECTION 5.                    SCOPE OF WORK; TASKS**

The Scope of Work is described in the Grant Agreement Work Plan. The Sub-Grantee is entirely responsible for the following:

- Task 8.3 – SARCCUP Conjunctive Use Program Design in the Orange County Basin
- Task 8.4.1 – Arundo Donax Removal Design
- Task 12.3 – SARCCUP Conjunctive Use Program Implementation in the Orange County Basin
- Task 12.4.1 – Arundo Donax Removal

The Sub-Grantee is responsible collectively with the other SARCCUP Sub-Grantees for the completion of the following tasks, which are cooperatively managed among the SARCCUP Sub-Grantees:

- Task 1 – Project Management
- Task 2 – Labor Compliance Program
- Task 3 – Reporting
- Task 4 – Land Purchase/Easement
- Task 5 – Feasibility Studies.
- Task 6 – SARCCUP CEQA Documentation.

- Task 7 – Permitting.
- Task 9 – Project Monitoring Plan.
- Task 10 – Construction Contracting.
- Task 11 – Construction Administration.
- **Task 12.5.1 - Water Use Efficiency Budget Assistance**

The Sub-Grantee understands that time is of the essence, and agree to expeditiously proceed with and complete the Project.

Section 21 of the Contract is hereby amended (with new language indicated in bold) as follows:

**SECTION 21. POST-PERFORMANCE REPORTS**

Post-Performance Reports as described in Exhibit G of the Grant Agreement shall be submitted to SAWPA by the Sub-Grantee within seventy (70) calendar days after the first operational year of the Project has elapsed. This record keeping and reporting process shall be repeated annually for a total of ten (10) years after the completed Project begins operation. The format of the Post Performance Report is outlined in both the Post-Performance Report Section 19(f) and in Exhibit G of the Grant Agreement. **The report shall include measurements for retail water agency meter service areas, irrigated areas, irrigable areas, and associated assessor parcel numbers that were created through the SARCCUP Water Use Efficiency Budget Assistance Task.** The Parties understand and agree that this covenant shall survive the expiration or termination of this Contract while not to exceed the Post-Performance Reporting period.

**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

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## PA 22 COMMITTEE MEMORANDUM NO. 2021.8

**DATE:** June 8, 2021

**TO:** SAWPA Project Agreement 22 Committee

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

**PREPARED BY:** Ian Achimore, 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:

- Geophex, Ltd. (consultant for the upper watershed aerial imagery) are starting aerial capture through aircraft in late May 2021,
- SAWPA and Reclamation are meeting monthly and discussing the following items:
  - Finalizing server storage for maintaining large terabytes of upper watershed and Orange County imagery,
  - Starting to craft GIS model that will classify common outdoor landscape objects (such as trees, shrubs, and grass), and
- The Orange County imagery files will be provided by the Southern California Association of Governments (SCAG) by July 2021 and shared with SAWPA and the Reclamation for analysis.

Tasks 2 is expected to begin in July 2021, after imagery is shared by SCAG with SAWPA and Reclamation. And Task 3 is expected to begin in late 2021 as SAWPA begins to develop a detailed scope for the decision support tool, which will likely be provided by a third-party consultant.

## **BACKGROUND**

The Project will create water efficiency budgets across the Santa Ana River Watershed and South Orange County. 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

Ian Achimore | Senior Watershed Manager

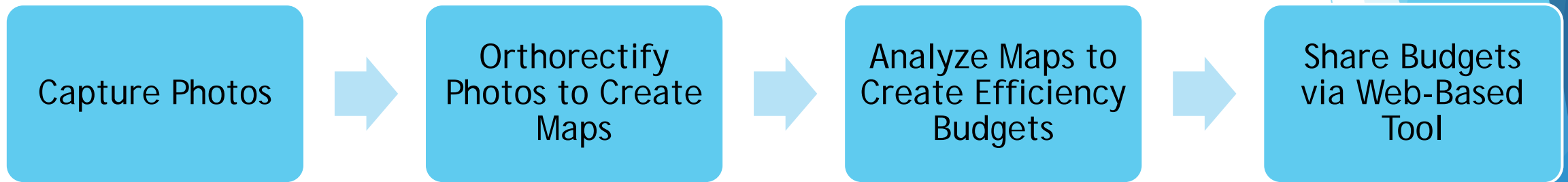
PA 22 Advisory Committee | Agenda Item No. 4.B.

June 8, 2021

Proposition 1  
IRWM Grant

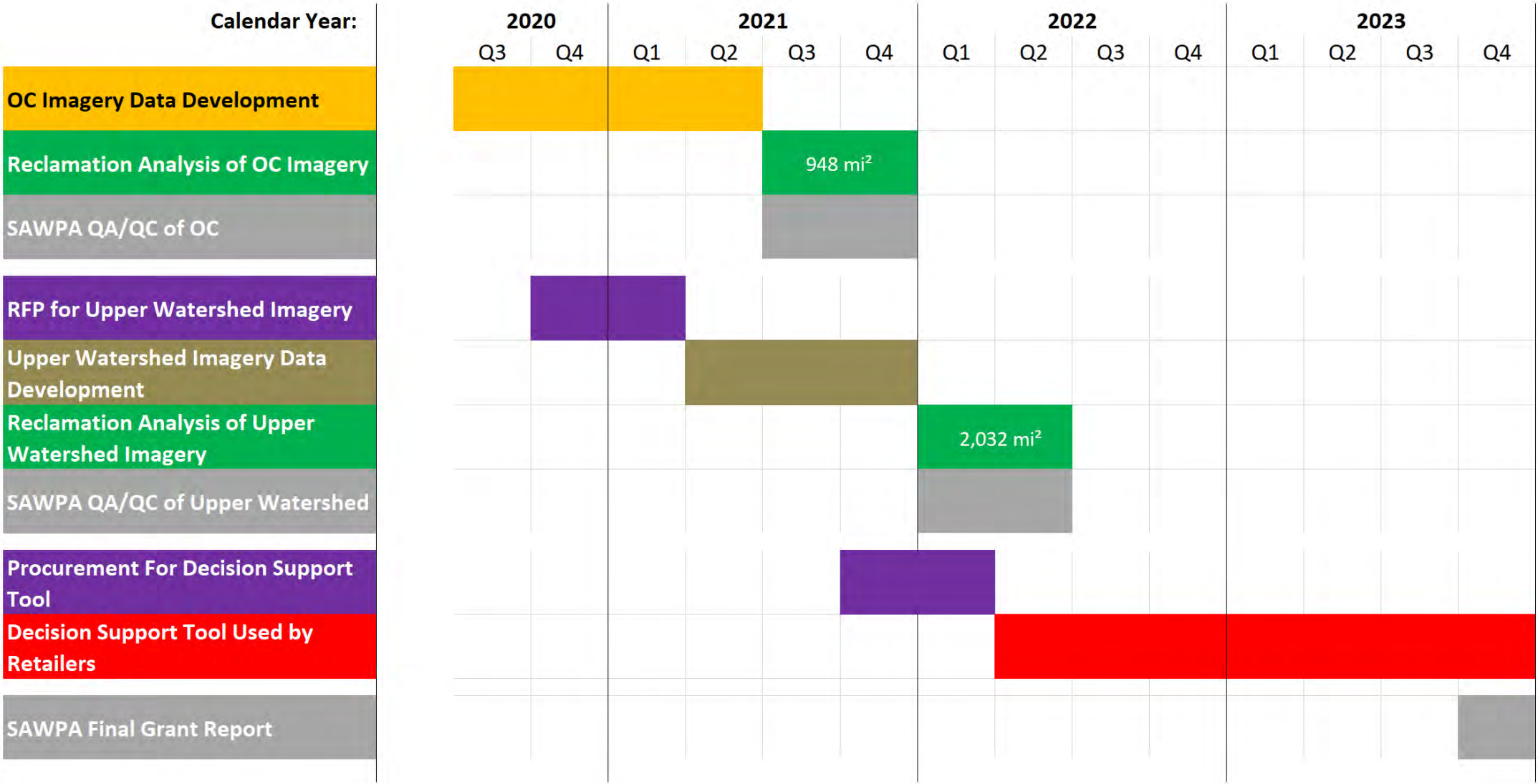


# Purpose of Project

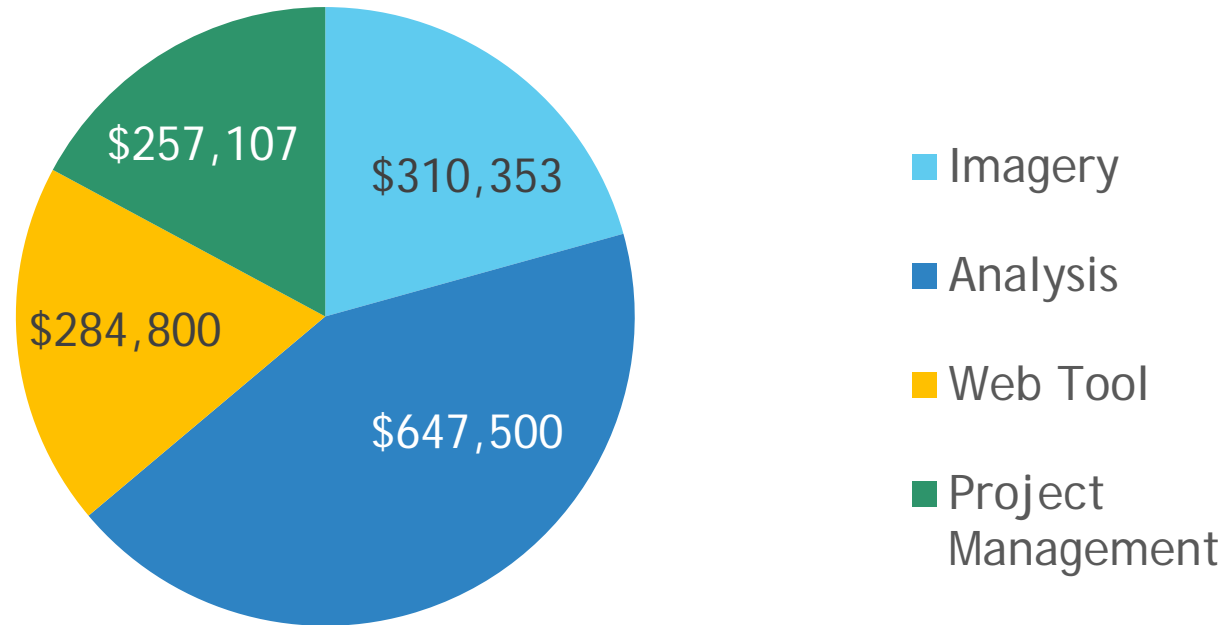




# Project Schedule



# Project Budget



**Total Cost = Approximately \$1.5 Million**

# Area of Interest (i.e. "AOI")

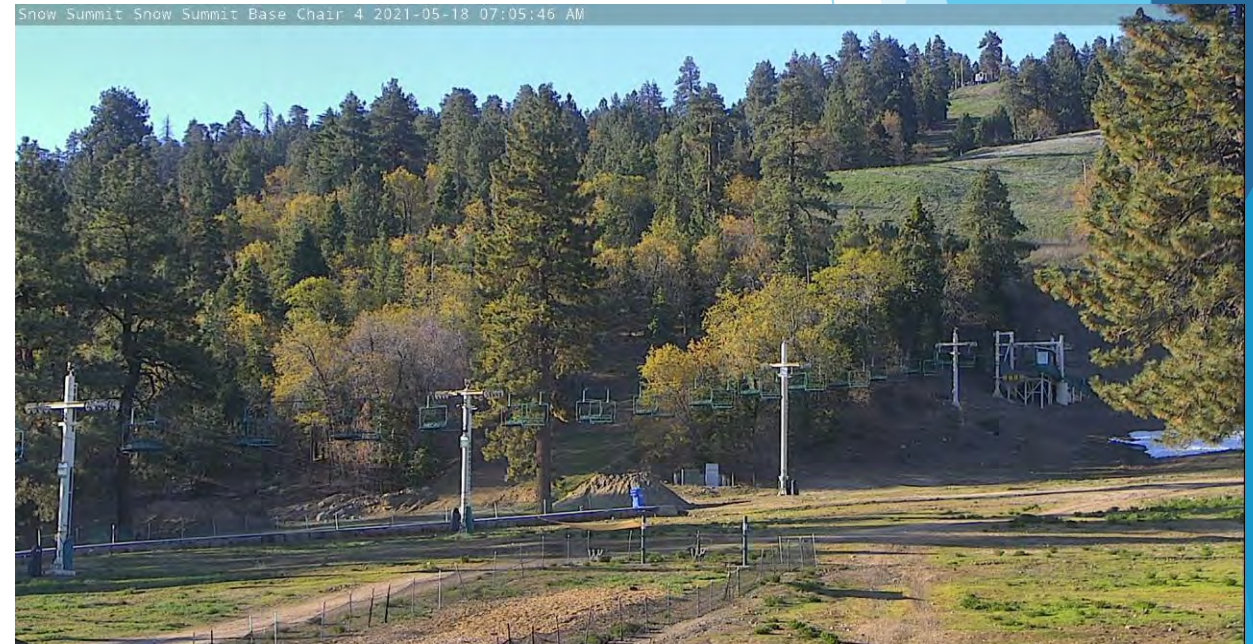


# Geophex Schedule Update

Project Phase	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Project Start-up	█								
Ground Control									
Air Photo Acquisition	█	█	█	█					
Internal Air Photo Imagery Review and Quality Confirmation		█	█	█					
Online Air Photo Review Portal for SAWPA		█	█	█	█				
Raw Air Photo Post Proc. to Lvl02				█	█				
Aerial Triangulation					█	█			
Raw Air Photo Color Balance and generation of Lvl03 non-proprietary TIFF imagery						█	█		
Orthorectifications / QC						█	█	█	█
Orthophoto Deliveries								█	█
Project Wrap-up									█

# Air Photo Update

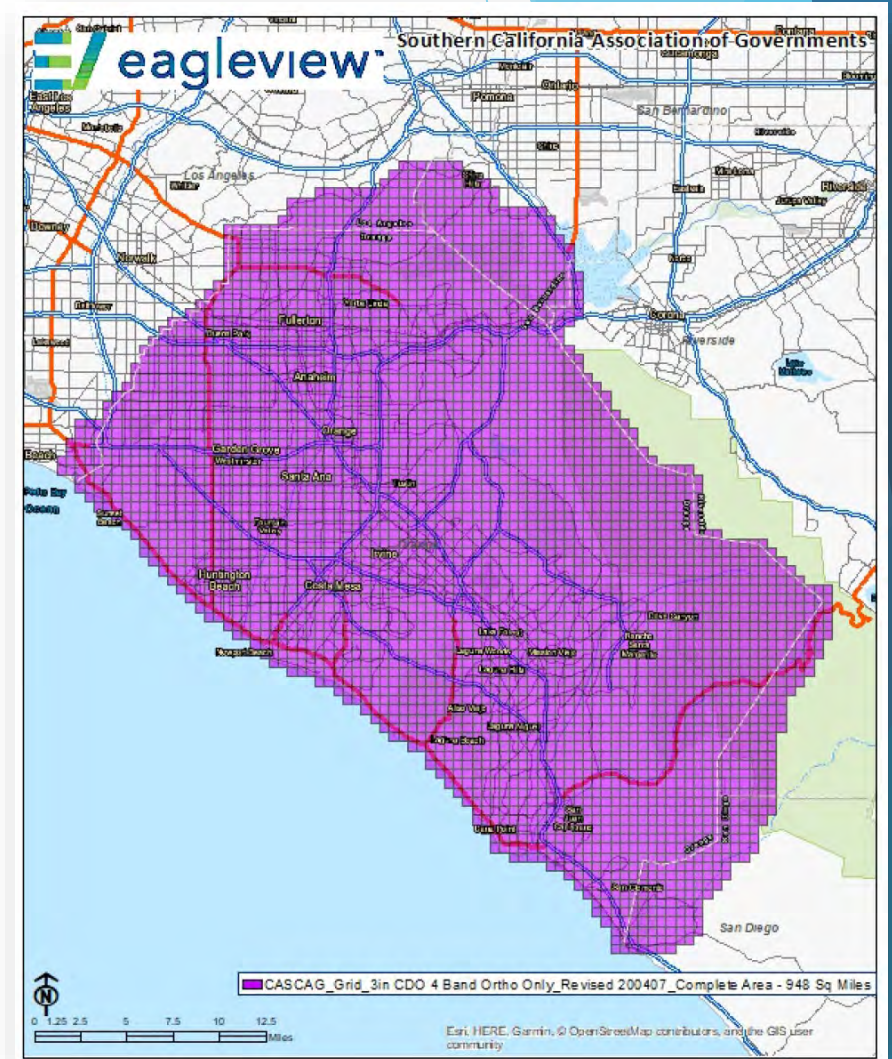
- ▶ Planes in the air late May 2021,
- ▶ Capture time should take 6 weeks if no weather delays, and
- ▶ Sub-contractor Aero-Graphics is creating the web-based portal so SAWPA member agencies can view initial imagery a couple days after it's captured.



Recent Santa Ana River Watershed monitoring photos from Aero-Graphics and Geophex

# Orange County Imagery Status

- ▶ 3-inch resolution imagery produced by Eagle View via contract with Southern California Association of Governments (SCAG),
- ▶ Final imagery files available for analysis by SAWPA and partner, Bureau of Reclamation, in July 2021, and
- ▶ Effort funded, in part, by OCWD and MWDOC.
  - ▶ Not funded by Proposition 1 or USBR partnership, but the 3-inch data is available to SAWPA to implement the Project.



# Landscape Analysis Update

- ▶ Monthly check-in meetings between Bureau of Reclamation and SAWPA staff,
- ▶ Finalizing server storage to use for maintaining large terabytes of upper watershed and Orange County imagery,
- ▶ Starting to craft model that will classify common outdoor landscape objects (such as trees, shrubs, grass), and
- ▶ Awaiting initial data from Orange County to begin landscape classification - will receive in June 2021.



# Web-Based Tool Update

- ▶ Will start to work with SAWPA member agencies to define specific scope and needs for web-based tool.
  - ▶ Scheduled for late 2021.
- ▶ Tool would be utilized by retail water agencies without in-house GIS.





# Questions