



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/81049501169 • Meeting ID: 810 4950 1169 	<ul style="list-style-type: none"> • 1 (669) 900-6833 • Meeting ID: 810 4950 1169
<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 14, 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: SEPTEMBER 14, 2021 3

4. COMMITTEE DISCUSSION/ACTION ITEMS

- A. [ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE \(PA22#2021.11\)](#) 7
Presenter: Rick Whetsel
Recommendation: Receive and file.

- B. [SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM \(SARCCUP\) WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE \(PA22#2021.12\)](#) 23
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, 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 9, 2021, 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.

2022 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	June
3/8/22 Regular Committee Meeting	6/14/22 Regular Committee Meeting
September	December
9/13/22 Regular Committee Meeting	12/13/22 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
September 14, 2021

COMMITTEE MEMBERS PRESENT

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

COMMITTEE MEMBERS ABSENT

None.

STAFF PRESENT

Karen Williams, Mark Norton, Ian Achimore, Dean Unger, 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 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. APPROVAL OF MEETING MINUTES: JUNE 8, 2021

MOVED, approve the June 8, 2021 meeting minutes.

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

4. COMMITTEE DISCUSSION ITEMS

A. RECONSIDER PROJECT AGREEMENT 22 COMMITTEE REGULAR MEETING SCHEDULE

In response to Committee Miller's request to discuss moving the PA 22 Committee meeting onto a quarterly basis, Karen Williams presented the proposed quarterly regular meeting schedule. She noted that the requested schedule change will still allow the Committee meetings to occur right after the General Managers meetings.

MOVED, Effective December 2021, regular meetings of the Project Agreement (PA) 22 Committee will be held at 8:30 a.m. quarterly, on the 2nd Tuesday of March, June, September and December, at 11615 Sterling Avenue, Riverside, California; and, the October 12 and November 9, 2021 regular meetings are cancelled.

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

B. SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM (SARCCUP) WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE (PA22#2021.9)

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 13-19.

The purpose of the 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 Project cost is \$1,031,000.

The Project is currently in the Retail Agency Onboarding phase. SAWPA and NV5 (formally known as Quantum Spatial), have hosted two recruitment workshops. There are five (5) retail agencies that have signed up. SAWPA and its member agencies (excluding the Orange County Water District) are working on recruiting four (4) more agencies. If they are successful, this would accomplish the goal of having two (2) retail agencies from each member agency service area.

The Orange County Water District (OCWD) is in contract with the Municipal Water District of Orange County (MWDOC) for approximately \$118,000 in funding to implement the Project in north Orange County. OCWD is working to partner with the City of Fountain Valley and the City of Brea and should be in contract soon.

NV5 is currently analyzing the consumption of data to be able to create budgets. SAWPA staff intends to share these budgets at the next PA 22 Committee meeting.

Chair Mouawad asked which party was responsible for outreach. Mr. Achimore stated that both NV5 and the retail agencies are performing outreach. During the recruitment workshops, SAWPA staff have made it known that the retail agencies will need to assist with outreach as there is limited amount of funds in the Project.

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

C. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE (PA22#2021.10)

Rick Whetsel provided the PowerPoint presentation contained in the agenda packet on pages 23-35. 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 (3) 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.

The total budget for this Project is approximately \$1.5M. The project schedule is currently in quarter 3 of 2021, the Orange County Imagery Data Development task was recently completed, and the Reclamation has started its analysis of Orange County imagery. Mr. Whetsel noted that the Orange County area was not funded through the grant, the imagery data was provided by the Southern California Association of Governments and the Municipal Water District of Orange County.

SAWPA is QA/QC Orange County's data, while Geophex, Ltd. is working on the collection and orthorectification of the upper watershed imagery data.

Most of the imagery for the upper watershed has been collected. The data will soon be orthorectified. The data will be given to the Reclamation until Spring of 2022.

The Reclamation is preparing a model that will classify common outdoor landscape objectives. They have received the initial data from Orange County. Orange County deliverables are expected in the Spring of 2022. Once the Reclamation completes the deliverable, they'll start the upper watershed classification.

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

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 14, 2021.

Joe Mouawad, Chair

Attest :

Sara Villa
Clerk of the Board

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PA 22 COMMITTEE MEMORANDUM NO. 2021.11

DATE: December 14, 2021

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:

- 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 to be completed by end of 2021.,
- U.S. Bureau of Reclamation staff is working on the development of the GIS model that will classify common outdoor landscape objects (such as trees, shrubs, and grass),
- SAWPA has conducted conversations with PA 22 agencies and MWDOC to discuss the features and capabilities of the web-based decision support tool.

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 accessor 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

All costs for this project are included in the budget and are on track.

ATTACHMENT

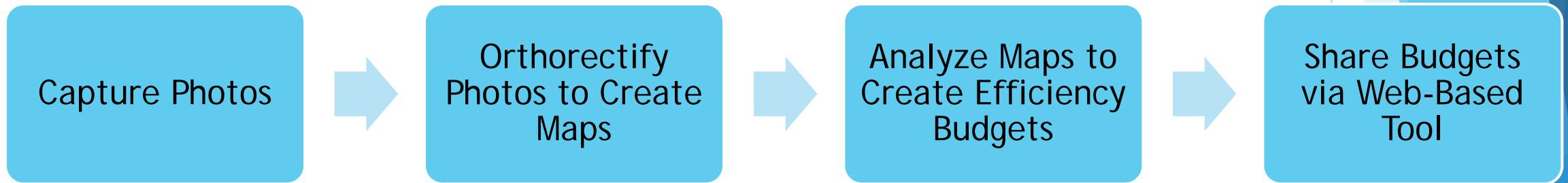
1. PowerPoint Presentation

Prop 1 Enhanced Decision Support Tool Update

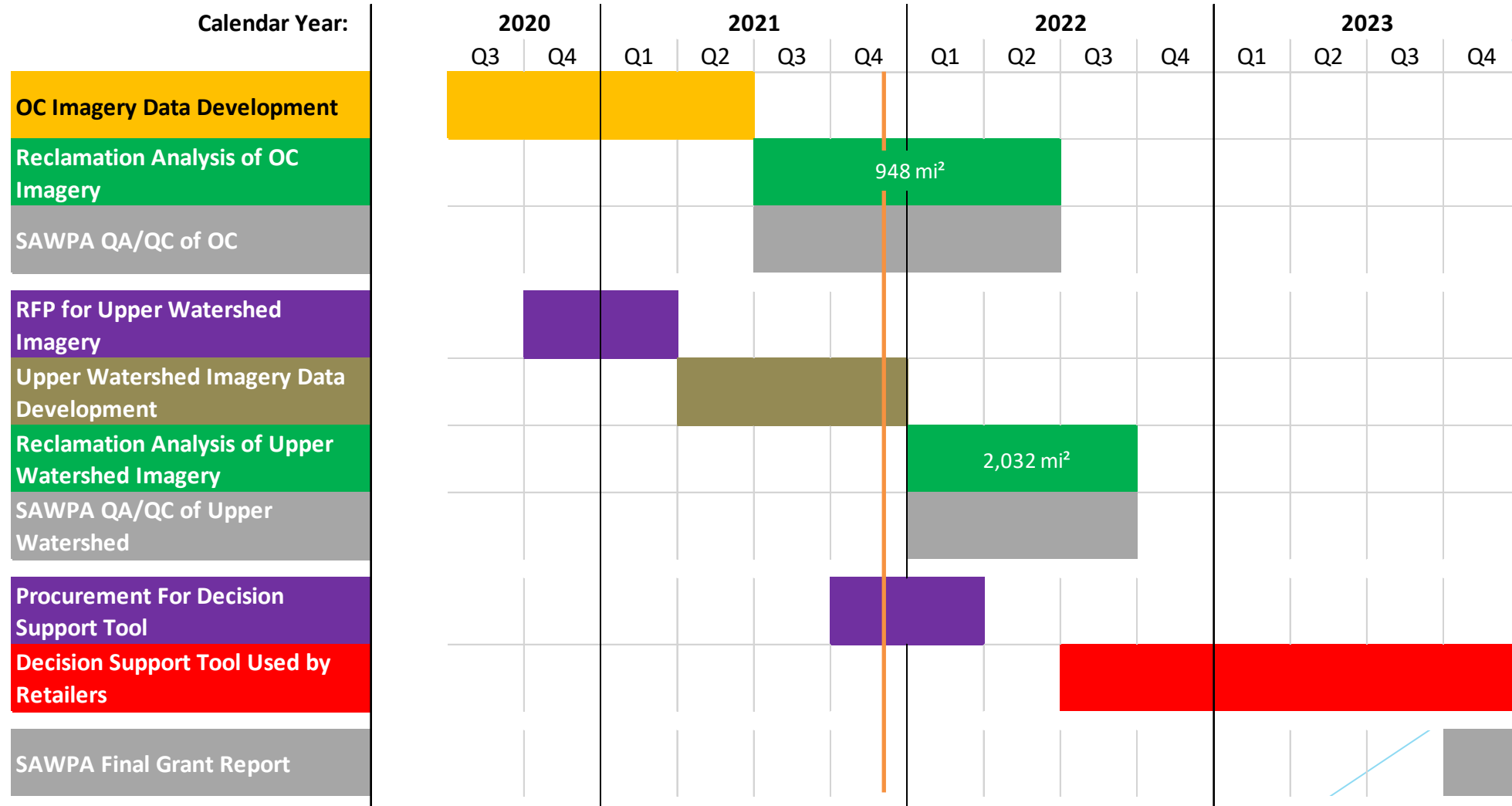
Rick Whetsel | Senior Watershed Manager
Project Agreement 22 Committee
December 14, 2021



Purpose of Project



Project Schedule



Project Status

- ▶ Upper Watershed Aerial Imagery (Geophex)
 - ▶ Completed collection of Aerial Imagery and Aerial Triangulation tying the imagery to known ground coordinates.
 - ▶ Production of orthophotos to be completed by end of 2021.
- ▶ Landscape Analysis (USBR)
 - ▶ Model to classify common outdoor landscape objects (such as trees, shrubs, grass) under development.
 - ▶ Model is currently being tested on Orange County Imagery.
- ▶ Web-Based Tool (SAWPA)
 - ▶ Initiate conversation with member agency staff on the features and capabilities of the tool.












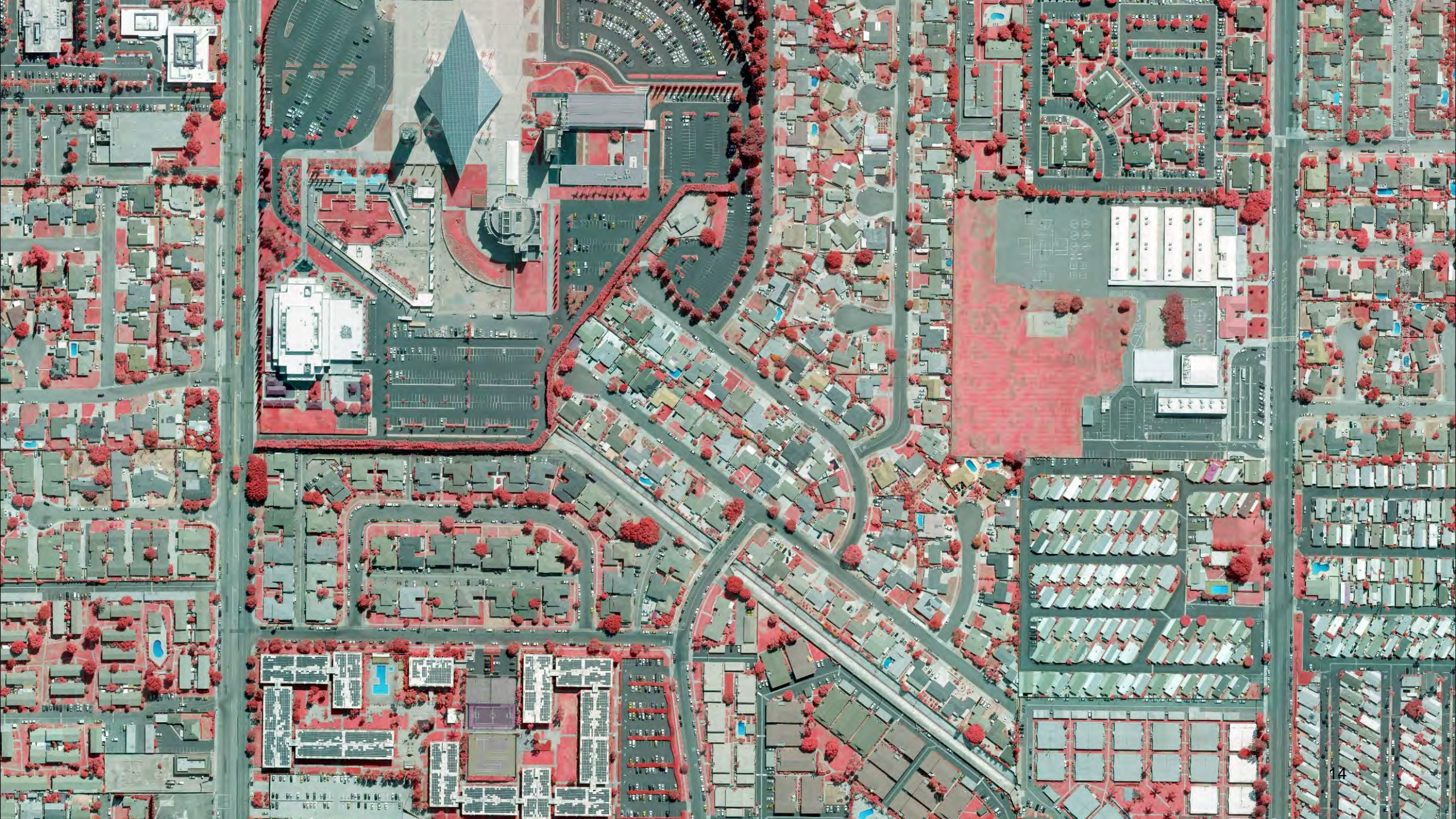
Classification Table Bureau To Use

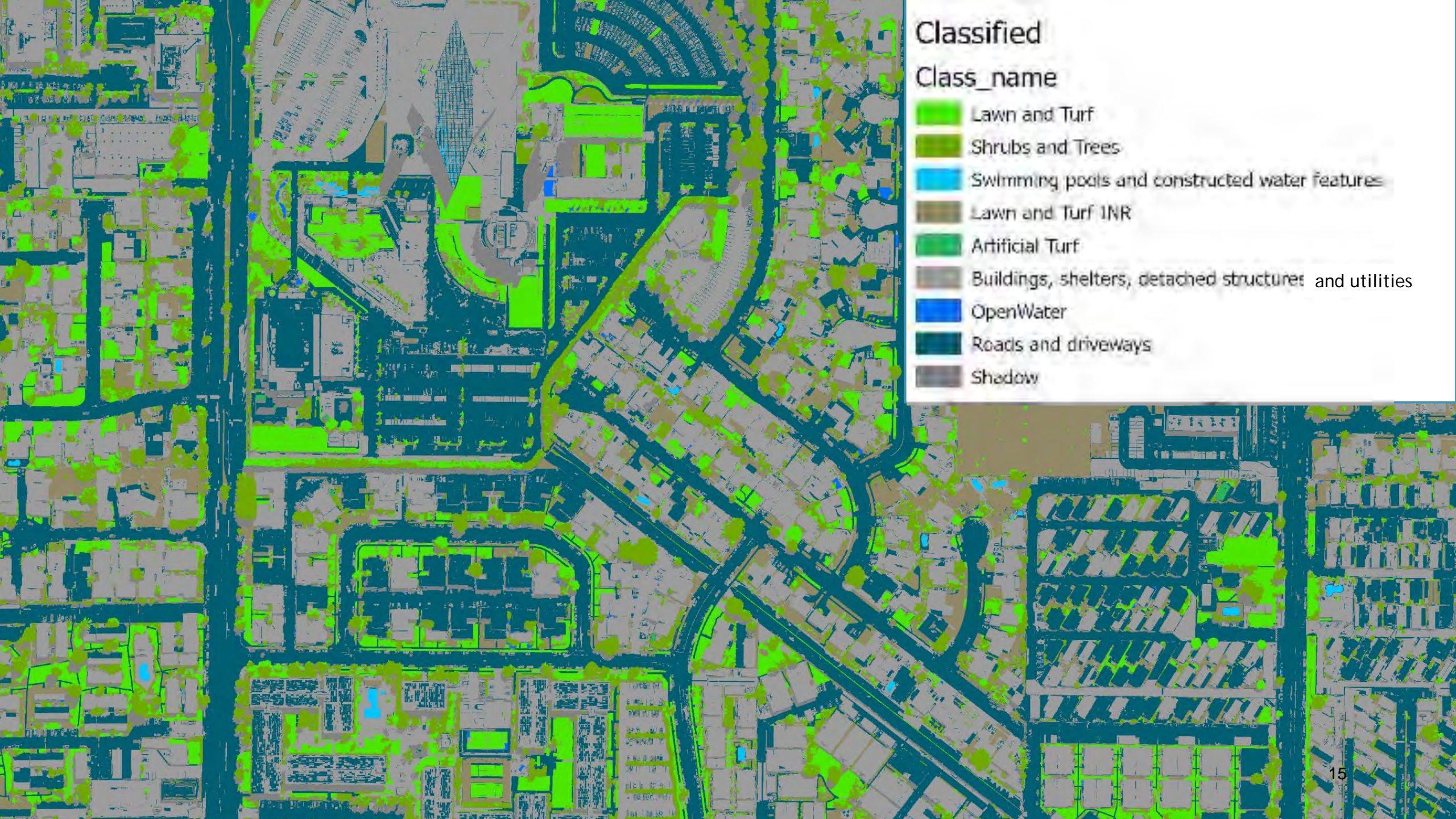
Canopy Priority Classification System	
Level 1	Level 2
1. Impervious	Impervious
2. Pools	Swimming pools/man made water features
3. Irrigated	3.1 Turf grass/ground cover
	3.2 Canopy/planting beds
4. Irrigable not irrigated	4.1 Turf grass/ground cover
	4.2 Canopy/other
5. Non irrigated vegetation	Undeveloped for the purposes of irrigation
6. Undeveloped lands	Undeveloped Lands
7. Horse Corrals	Horse Corrals
8. Open Water	Other open natural water (rivers/ponds)
9. Artificial Turf	Artificial Turf
10. Agricultural Land	Agricultural Land (.25 acre mmu)

Classified

Class_name

-  Lawn and Turf
-  Shrubs and Trees
-  Swimming pools and constructed water features
-  Lawn and Turf INR
-  Artificial Turf
-  Buildings, shelters, detached structures and utili
-  Open/Water
-  Roads and driveways
-  Shadow














Classified

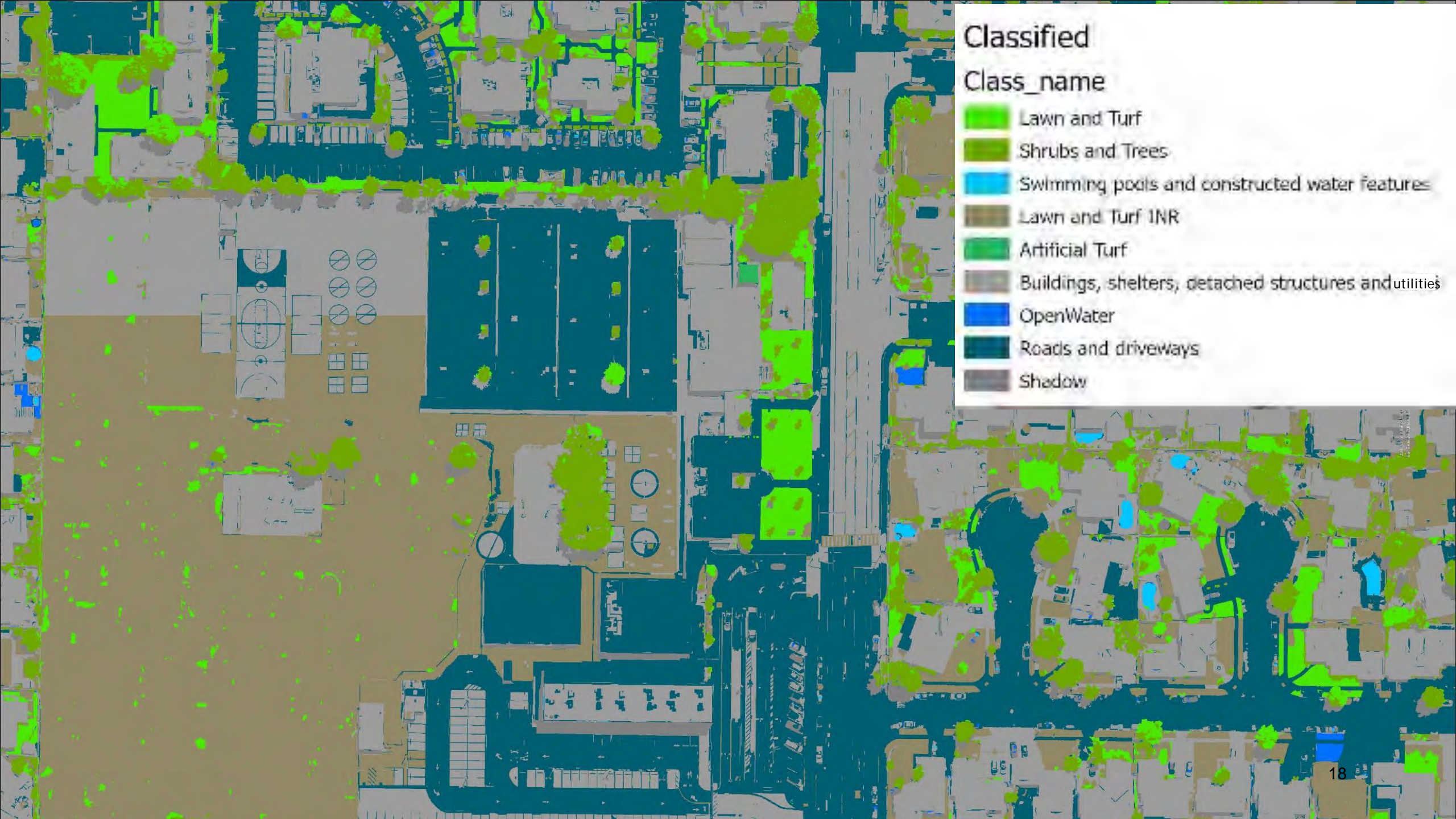
Class_name

- Lawn and Turf
- Shrubs and Trees
- Swimming pools and constructed water features
- Lawn and Turf INR
- Artificial Turf
- Buildings, shelters, detached structures and utilities
- OpenWater
- Roads and driveways
- Shadow












Classified	
Class_name	
	Lawn and Turf
	Shrubs and Trees
	Swimming pools and constructed water features
	Lawn and Turf INR
	Artificial Turf
	Buildings, shelters, detached structures and utilities
	OpenWater
	Roads and driveways
	Shadow





Classified

Class_name

-  Lawn and Turf
-  Shrubs and Trees
-  Swimming pools and constructed water features
-  Lawn and Turf INR
-  Artificial Turf
-  Buildings, shelters, detached structures and utilities
-  OpenWater
-  Roads and driveways
-  Shadow



Classified

Class_name	
Light Green	Lawn and Turf
Dark Green	Shrubs and Trees
Light Blue	Swimming pools and constructed water features
Brown	Lawn and Turf INR
Light Green	Artificial Turf
Brown	Buildings, shelters, detached structures and utilities
Dark Blue	OpenWater
Dark Blue	Roads and driveways
Grey	Shadow

Web-Based Tool

- ▶ Imagery Data (Bureau of Reclamation)
 - ▶ Irrigated landscape and irrigable land measurements sufficiently detailed to provide customer parcel-level outdoor water budgets.
 - ▶ Evapotranspiration Coverage (Spatial CIMIS?)
 - ▶ (Retail Agency water budgets from State?)
- ▶ Features
 - ▶ Web-based tool with GIS interface and dashboard
 - ▶ 2021 aerial imagery
 - ▶ Retail service area/parcel level boundaries
- ▶ Capabilities
 - ▶ Parcel level outdoor landscape measurements
 - ▶ Estimated annual/monthly parcel level outdoor water budgets (retail/parcel level)
 - ▶ (Estimate indoor budgets?)
 - ▶ (Edit features?)



Questions

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PA 22 COMMITTEE MEMORANDUM NO. 2021.12

DATE: December 14, 2021
TO: Project Agreement 22 Committee
SUBJECT: SARCCUP Water Efficiency Budget Assistance Project Update
PREPARED BY: Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Receive and file.

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 (Project). As approved by the PA 22 Committee, SAWPA contracted with Quantum Spatial (now doing business as "NV5") in February 2021 for the Project. As of 2020, the Smarstcape Task is complete. For this Project, the PA 22 Committee approved a plan whereby SAWPA would partner with two retail water agencies per SAWPA member agency in the upper watershed, and OCWD/MWDOC would partner with several retail water agencies in Orange County as covered by \$118,000 in SARCCUP funding from the grant and local match.

SAWPA, as well as MWDOC, have executed contracts with NV5 who will be creating water efficiency budgets for some (or all) of the retail partners' dedicated irrigation meter customers. The focus is on dedicated irrigation meter customers because upcoming regulations stemming from Assembly Bill 1668 and Senate Bill 606 (collectively known as the "Making Water Conservation a California Way of Life" Act) require urban water agencies over a certain size to create service area wide water efficiency budgets by January 2024. As part of these service area wide water budgets, one customer group that needs to be included is those that use dedicated irrigation meters. Provided below is the status of the six retail water agencies that SAWPA has executed memorandum of understandings (MOU) with. The MOUs allow them to participate in the Project and receive the services of the SAWPA consultant, NV5.

Agency Who Has Signed MOU	MOU Signature Date	Status Updates
Chino Hills	Nov 2, 2021	City staff is providing NV5 with their data soon for their city-maintained properties.
Hemet	Aug 19, 2021	NV5 and the City met on 12/1 to confirm certain nuances of their data.

Monte Vista Water District	June 29, 2021	NV5 and SAWPA had customer prioritization meeting with MVWD staff on 10/14. MVWD will review and provide feedback on prioritization. NV5 is confirming certain nuances of their data.
Perris	Aug 9, 2021	City staff to provide billing dataset to NV5 by 12/15 for their 55 dedicated landscape meters.
Riverside Public Utilities	June 29, 2021	Had customer prioritization meeting with RPU staff on 11/30. Waiting on HOA data from Department of Water Resources before moving forward with final customer prioritization.
San Bernardino Municipal Water Department	Nov 10, 2021	Had kick-off meeting with SBMWD staff on 11/10. City staff has provided GIS data to NV5 but is still compiling water usage data.

Provided in the table below is the status updates for the two retail agencies that SAWPA is still recruiting to participate in the Project:

Agency Actively Being Recruited	Status Updates
Jurupa Community Services District	SAWPA followed up with Jurupa staff on 11/30 to check-in. Their staff is still interested in the Project.
Loma Linda	SAWPA sent information on how to streamline the Project for just city-owned properties and updated MOU to City staff on 11/15. They have about 260 dedicated irrigation meters.

And provided below are the status updates from the latest progress with Orange County partners:

- The cities of Brea, Fountain Valley and Newport Beach, Orange, and Seal Beach have signed project agreements with MWDOC,
 - These five cities will all 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,
- Each city has had, or is planning, kick-off meetings with MWDOC and NV5,
- The City of Brea’s analysis has started, and the other cities are currently compiling data for NV5 and will submit it in December or early 2022.

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.

Attachment

- PowerPoint Presentation

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SARCCUP Water Efficiency Budget Assistance Project Update

Agenda Item 4.B.

Ian Achimore | Senior Watershed Manager

PA 22 Committee | December 14, 2021



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
 - OCWD/MWDOC are lead in North OC per PA 22 Committee approval.

Dedicated Landscape Meter Customer Example



* Senate Bill 606 and Assembly Bill 1668

Water Efficiency Budget Regulations

- Per Senate Bill 606 and AB 1668, most urban retail agencies will have to create service area wide water efficiency budgets by January 2024.
- Gradually escalating enforcement by the State could potentially result in a civil fine on retailers for service area wide water efficiency budget non-compliance.

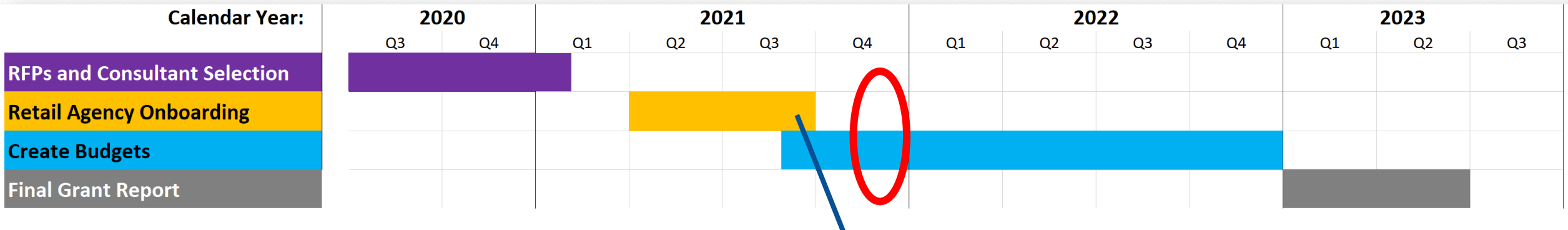
Project helps fill in the blank here

Service Area Wide Water Budget

Residential Customers A, B, C	Water Used = ___	Budget = ___
Dedicated Landscape Customers A, B, C ...	Water Used = ___	Budget = ___
Approved Variances	Water Used = ___	Budget = ___
Efficient Water Losses	Water Used = ___	Budget = ___
	Sum	≤ Sum

Not shown in table is potential retailer bonus for recycled water

Overall Project Schedule

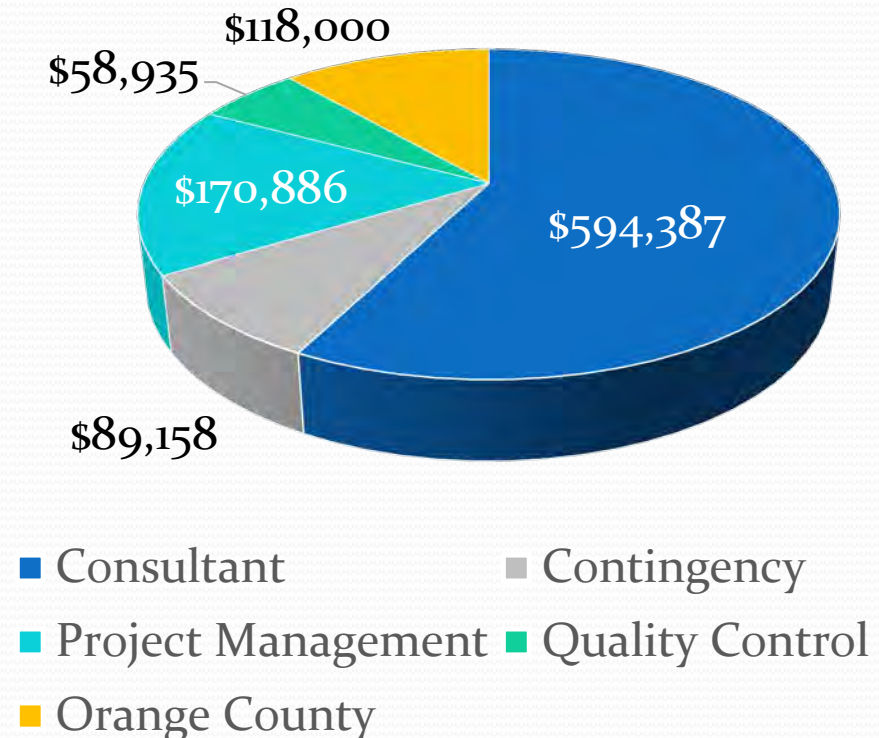


 = Current phase

Still recruiting last two retail partners.

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 \$1,031,000

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

**Includes outreach and MOU execution with retailers.

Latest Progress with Retail Partners

Agency Who Has Signed MOU	MOU Signature Date	Status Updates
Chino Hills	Nov 2, 2021	City staff is providing NV5 with their data soon for their city-maintained properties.
Hemet	Aug 19, 2021	NV5 and the City met on 12/1 to confirm certain nuances of their data. NV5 now waiting on a full-year of consumption data, once received they will then prioritize Hemet's customers for analysis.
Monte Vista Water District	June 29, 2021	Had customer prioritization meeting with MVWD staff on 10/14. MVWD will review and provide feedback on prioritization. NV5 is confirming certain nuances of their data.
Perris	Aug 9, 2021	City staff to provide billing dataset to NV5 by 12/15 for their 55 dedicated landscape meters.
Riverside Public Utilities	June 29, 2021	Had customer prioritization meeting with RPU staff on 11/30. Waiting on HOA data from Department of Water Resources before moving forward with final customer prioritization.
San Bernardino Municipal Water Dept.	Nov 10, 2021	Had kick-off meeting with SBMWD staff on 11/10. City staff has provided GIS data to NV5 but is still compiling water usage data.

Ongoing Recruitment with Retailers

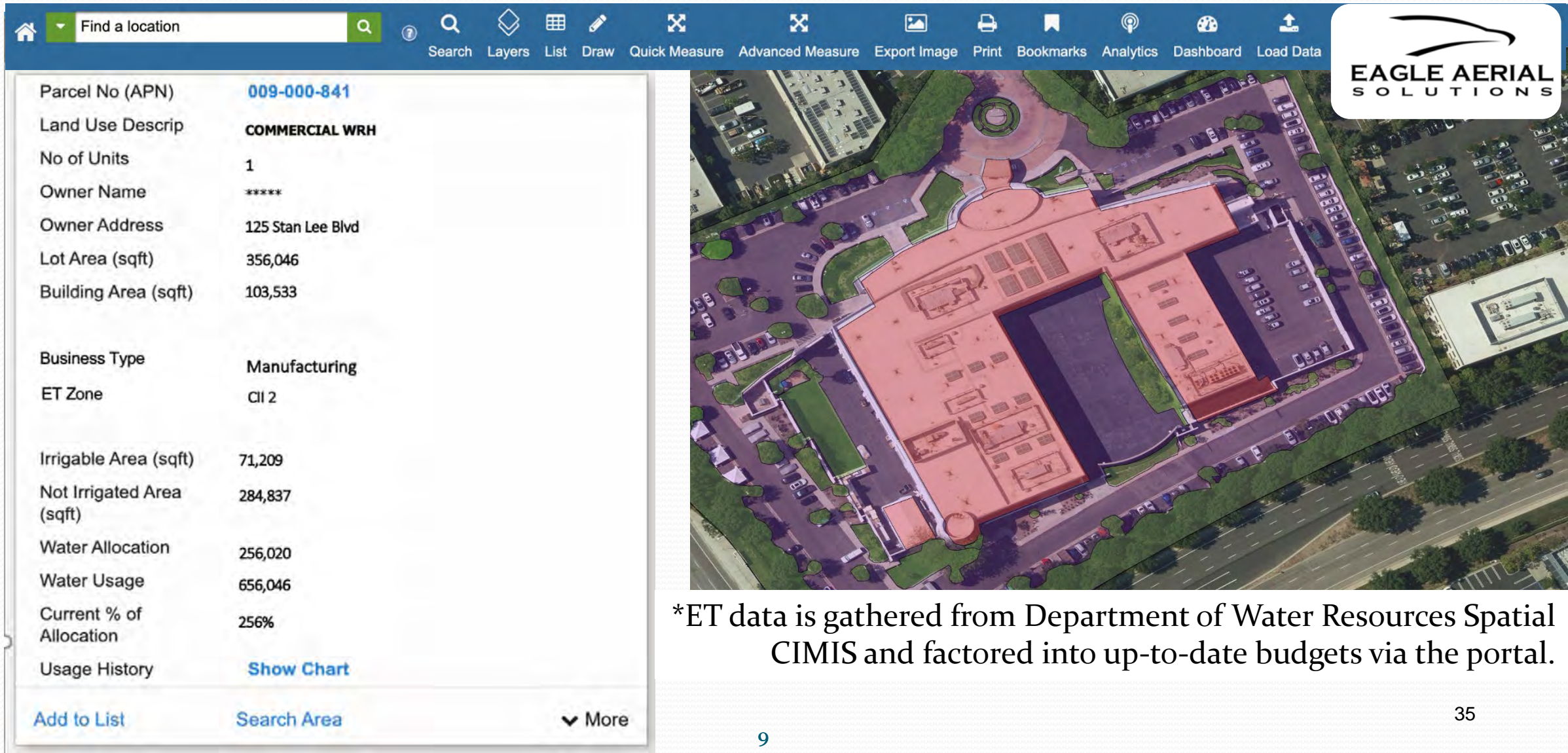
- SAWPA is still working with the following retailers to encourage them to participate:

Agency Actively Being Recruited	Status Updates
Jurupa Community Services District	SAWPA followed up with Jurupa staff on 11/30 to check-in. Their staff is still interested in the Project.
Loma Linda	SAWPA sent information on how to streamline the Project for just city-owned properties and updated MOU to City staff on 11/15. They have about 260 dedicated irrigation meters.

Project Tasks for Each Recruited Retailer

1. Hold individual kick-off meeting with NV5 and SAWPA,
2. Retailer to provide NV5 their data for the customers included in the project,
3. NV5 analyzes data and labels customers needing complex budget analysis,
4. Optional meeting held to discuss final prioritization customer list,
5. NV5 begins GIS analysis (and any in-field analysis if needed) to create budgets,
6. NV5 will provide the final budgets digitally to retailer for their approval, and
7. Through a web portal, ongoing local evapotranspiration data will be incorporated to create up-to-date efficiency budgets for the customers (for one year).

Evapotranspiration (ET)* and Web Portal



The screenshot displays a web portal interface for Eagle Aerial Solutions. The top navigation bar includes a search bar and various tool icons. The main content area is split into two panels. The left panel shows detailed parcel information for APN 009-000-841, including land use, area, and water allocation data. The right panel shows an aerial view of the corresponding commercial building with a red roof and surrounding parking lot. The Eagle Aerial Solutions logo is in the top right corner.

Parcel No (APN)	009-000-841
Land Use Descrip	COMMERCIAL WRH
No of Units	1
Owner Name	*****
Owner Address	125 Stan Lee Blvd
Lot Area (sqft)	356,046
Building Area (sqft)	103,533
Business Type	Manufacturing
ET Zone	CI 2
Irrigable Area (sqft)	71,209
Not Irrigated Area (sqft)	284,837
Water Allocation	256,020
Water Usage	656,046
Current % of Allocation	256%
Usage History	Show Chart

[Add to List](#) [Search Area](#) [More](#)

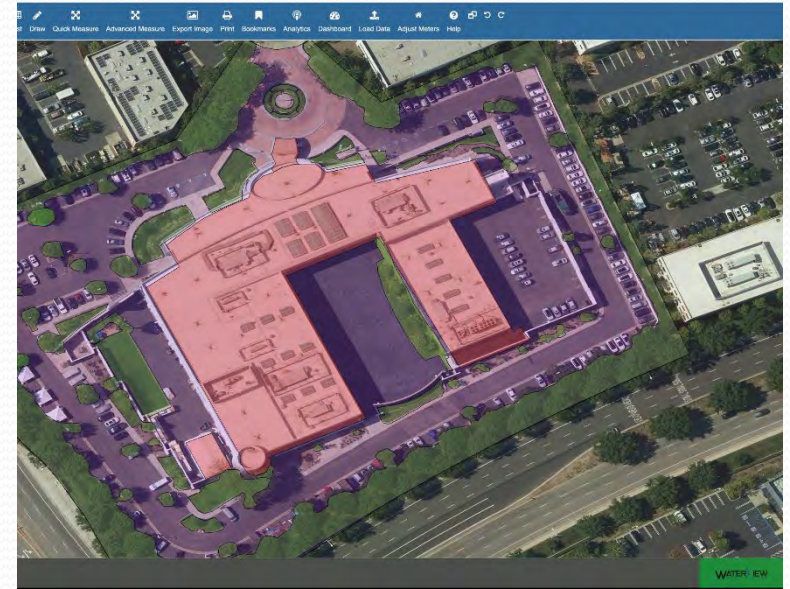
EAGLE AERIAL SOLUTIONS

*ET data is gathered from Department of Water Resources Spatial CIMIS and factored into up-to-date budgets via the portal.

Final Project Deliverables

1

Online Portal (Will Include Continually Updated ET data)
Each retailer has access for one year.



2

Table Format (Retailers will also get shapefiles of new Meter Service Areas and irrigated/irrigable areas)

Customer ID	Historical ET Average	Meter Location or Meter Service Area Points	Meter Service Area (MSA)	Irrigated Area	Irrigable Area
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Update from OC Partners

- The cities of Brea, Fountain Valley and Newport Beach, Orange, and Seal Beach have signed project agreements with MWDOC,
 - These five cities will all likely be included in Project as their amount of dedicated irrigation meters can be covered by SARCCUP grant/match funding,
- Each city has had, or is planning, kick off meetings with MWDOC and NV5,
- Brea's analysis has started, other cities are currently compiling data for NV5 and will submit it in December or early 2022.



Questions