Recommendation

Provide feedback based on the following options presented to increase the pace of Smartscape implementation and receive remarks from Garry Brown, Executive Director and CEO of Orange County Coastkeeper.

Garry Brown
Executive Director & CEO
Program Development and Task List

- Developed the Smartscape as a partnership between SAWPA member agencies and OC Coastkeeper in 2015 during SARCCUP development;
- Supports water customers ("clients") that have transitioned from turf grass to drought tolerant landscaping through specific tasks:
  - Landscape site visits
  - Develop written training materials
  - Workshops, training, etc.

See complete list in Attachment A in PA 22 Memo
Workshop at East Valley Water District

Brochure for West Valley Water District

Site Visit in Eastern Municipal Water District
Program Overview and Agreements

- Program descriptions contained in Sub-Agreement and SAWPA Member Agency Roles/Responsibilities Memo:
  - Defines two year schedule (March 2020 end date)
  - Defines scope and qualifications for OCCK training and outreach personnel
  - Task list and their specific costs
  - Deliverables
  - Process for reporting to SAWPA and the four member agencies
Roles of Project Partners
## Smartscape Budget

<table>
<thead>
<tr>
<th>Coastkeeper Sub-Agreement Amount</th>
<th>Grant Amount</th>
<th>Local Match*</th>
<th>Total Cost</th>
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<tr>
<td></td>
<td>$122,000</td>
<td>$278,000</td>
<td>$400,000</td>
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Note: OCWD’s SARCCUP local cost share funding originally intended for Smartscape was added to Conservation-Based Water Rates portion of SARCCUP.
## Spending Rates by Task

<table>
<thead>
<tr>
<th></th>
<th>EMWD</th>
<th>IEUA</th>
<th>SBMVWD</th>
<th>WMWD</th>
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<tr>
<td><strong>Actual To Date - Costs</strong></td>
<td></td>
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<td>2018Q1</td>
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<td>$96,509</td>
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<td><strong>Remaining</strong></td>
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<td>$95,259</td>
<td>$56,309</td>
<td>$93,009</td>
<td>$338,709</td>
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### Actual To Date - Task* Amounts

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<th>WMWD</th>
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<td>-</td>
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<td>-</td>
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<tr>
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<tr>
<td>Designs</td>
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<td>-</td>
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<td><strong>Totals</strong></td>
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<td>5</td>
<td>36</td>
<td>14</td>
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*Tasks shown are those being actively implemented.
# Projections

## Amount of Tasks Needed in Project Time Frame*

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<tr>
<th></th>
<th>EMWD</th>
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<th>Costs per Task</th>
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<td>$2,000</td>
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<tr>
<td><strong>Total Projection</strong></td>
<td><strong>$94,134</strong></td>
<td><strong>$95,259</strong></td>
<td><strong>$56,309</strong></td>
<td><strong>$93,009</strong></td>
<td><strong>$338,709</strong></td>
<td><strong>NA</strong></td>
</tr>
</tbody>
</table>

*Time frame ends March 2020
Reasons for Spending Rate

- Saturation of market in MWD service area for workshops and design assistance.
- The time needed to engage customers to register for Smartscape services, and the lack of interest from residential customers who previously received turf removal rebates.
In SBVMWD’s service area, the pace is faster largely because these services have not been previously available on a regional basis and they are in high demand by the retail water agencies.

- In comparison, in IEUA has services offered by MWD such as landscape workshops that are no cost to IEUA.
Recommendations for Feedback

Provided by Advisory Workgroup:

- OCCK/IEWK develop a landscape maintenance program whereby staff adjusts controllers and makes minor adjustments to sprinkler heads.
  - May require OCCK/IEWK, or a subcontractor, to have C-27 Landscaping Contractor license.
- OCCK/IEWK can provide the outreach necessary to engage the public. Would entail reaching out to school districts, other public agencies.
Recommendations for Feedback (Continued)

Provided by Advisory Workgroup:

- OCCK/IEWK can offer their design services to customers at the same time they register for MWD turf removal rebates.
  - Customers receive Smartscape services and use the momentum of the rebate program to educate customers on maintenance.
Questions and Feedback
Emergency Drought Grant Program Update

Ian Achimore
Senior Watershed Manager
Santa Ana Watershed Project Authority
October 25, 2018
Emergency Drought Grant Program

Components

Project 1: Conservation Based Reporting Tools and Rate Structure Implementation

Project 2: High Visibility Turf Removal and Retrofit
Note the Following Items

- The funding amounts for Project 2 show that the Sub-Grantee agreements have been amended, per the approval of the PA 22 Committee on August 24, 2017.
  - That action increased the funding available to EMWD, IEUA and WMWD.
- The funding amounts reflect the latest invoices that have been submitted to SAWPA by August 31, 2018.
## Overall Program Status

<table>
<thead>
<tr>
<th></th>
<th>Grant</th>
<th>Required Funding Match</th>
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<tr>
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<td>$ 7,051,533</td>
<td>$ 19,911,643</td>
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<td><strong>Invoiced (%)</strong></td>
<td>55%</td>
<td>84%</td>
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</table>
Status by Individual Project

Scheduled dates of completion:

Project 1: April 2019
Project 2: March 2019
Status by Component (Project 1)

**Scheduled dates of completion:**
- Mapping: (Completed) July 2017
- Rates: April 2019
- Geocoding: Dec 2018
- Web-Based Tool: (Completed) June 2018
- ESRI Tool: Nov 2018

**Grant Funds Invoiced**

<table>
<thead>
<tr>
<th>Component</th>
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<tr>
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<tr>
<td>Rates</td>
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<tr>
<td>Geocode</td>
<td>51%</td>
<td>49%</td>
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<tr>
<td>Web-Based</td>
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<tr>
<td>ESRI</td>
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<td>46%</td>
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</table>
Status by Agency (Project 2)

Grant Funds Invoiced

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<td>IEUA</td>
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<tr>
<td>OCWD*</td>
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<td>11%</td>
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<tr>
<td>SBVMWD</td>
<td>100%</td>
<td>0%</td>
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<tr>
<td>WMWD</td>
<td>81%</td>
<td>19%</td>
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<tr>
<td>RCWD</td>
<td>100%</td>
<td>0%</td>
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Scheduled date of completion: March 2019

*OCWD has an agreement with MWDOC that passes down the conditions from their Sub-Grantee agreement to MWDOC
Questions
## SAWPA TOOLS ROAD SHOW

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>EMWD</strong></td>
<td>12:30 p.m. Monday, November 5, 2018</td>
</tr>
<tr>
<td><strong>IEUA</strong></td>
<td>Tentatively scheduled for 10:30 a.m. Wednesday, Nov. 28th or Jan 23rd</td>
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<tr>
<td><strong>MWDOC</strong></td>
<td>12:30 p.m. Thursday, December 6, 2018</td>
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<tr>
<td><strong>SBVMWD</strong></td>
<td>10:00 a.m. Wednesday, December 21, 2018</td>
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<tr>
<td><strong>WMWD</strong></td>
<td>2:30 p.m. Tuesday, November 13, 2018</td>
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## SAWPA TOOLS ROAD SHOW

<table>
<thead>
<tr>
<th>Association</th>
<th>Date and Time</th>
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<tbody>
<tr>
<td>EMWD</td>
<td>12:30 p.m. Monday, November 5, 2018</td>
</tr>
<tr>
<td>IEUA</td>
<td>Tentatively scheduled for 10:30 a.m. Wednesday, Nov. 28th or Jan 23rd</td>
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<td>MWDOC</td>
<td>12:30 p.m. Thursday, December 6, 2018</td>
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<tr>
<td>SBVMWD</td>
<td>10:00 a.m. Wednesday, December 21, 2018</td>
</tr>
<tr>
<td>WMWD</td>
<td>2:30 p.m. Tuesday, November 13, 2018</td>
</tr>
</tbody>
</table>
Meter / Commercial GIS Project

Doug Mende
Miller Spatial
October 2018
Geographic Information Systems Methods

• ESRI ArcGIS
  • All districts have licenses
  • Different levels of use, data integration, and expertise

• SAWPA GIS project goals
  • Create conservation data
  • Irrigated and Irrigable areas
  • Create MSAs to overlay meters and NAICS

• Miller Spatial
  • Water Asset Management
    • System Implementation
    • Data Integrations
    • Application Developers
Project Overview

• Link NAICS Business Data to Meter Data for Districts
  • Districts have varying degrees of GIS capability
• Complete 14 Agencies Complete by December 2018
Current Project Status

• 23 Districts Signed Up

• 14/23 Agreements

• 20/23 Districts have NAICS Business Points Complete

• 9/23 Meters/MSA
  • 4/23 In Process
  • 5/23 Complete
Additional Work

• Jurupa Commercial Meter Accuracy / GPS (Plus, Asset Management System)
• Chino Meter / Budget-Based Rates
• Hemet Budget-Based Rates / Operational Dashboard
• Rancho California / Business to Landscape Tracing
GIS Design

- 2016 MSA
  - Imagery Analysis
  - Outdoor Irrigable and Irrigated Areas
GIS Design

- 2018 Business Point
  - NAICS
  - Located inside MSA on Building
- 2018 Meter Point
  -Located Inside MSA
- GIS Overlay creates relationship between Meter and Business Data
- Output data integrated with Billing System and Analysis
Current Application
Future Design

- Evapotranspiration
- Household Data
  - Number of People
  - Ages of Household
- Building Footprints
  - Becoming Readily Available
Step by Step Example
### Billing System Data

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<th>end_on</th>
<th>billing_units</th>
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### Metered Consumption Info

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<td>5.73</td>
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### Typical Service Account Info

### CIMIS Eto Info
Geocoding

- Locate Business Points (NAICS)
- Locate Service Location Points
- Typical GIS will NOT have precise address locations...
- Further edits within the MSA...
Editing

• Edit MSA polygons...

• Move Service Locations/Meter Data to Proper MSA Location...

• Move Businesses to more accurate location...
Editing

• Edited results…
C II Clusters (Mixed Meters/Landscape)
Editing NAICS Data
CII Data Overlay
## Data Summary

| service_id | billing_un | status | ADDRESS | suite_type | RATE_TYPE | SERVICE_TV | METER_SIZE | BILLING_UN | suite | RATE | TV_SERVICES | SERVICE_TYPE | BILLING_UN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMUN | X_PMU...
Needed

• Districts are at widely different stages of GIS
• Almost all districts don’t have GIS linked to consumption/billing system
Conservation-Based Water Rates Update

Ian Achimore
Senior Watershed Manager
Santa Ana Watershed Project Authority
October 25, 2018
Cities Participating

Chino
- Prop 218 Hearing: June 19, 2018
- Implement rates: February 2019

Chino Hills
- Prop 218 Hearing: May 8, 2018
- Has Implemented rates: October 2018

Hemet
- Prop 218 Hearing: March 2018
- Implement rates: June 2019
SAWPA Assistance to Cities

- $25,000 Task Order with CV Strategies following for Factsheets
- $14,000 Change Order to Develop Website Content and Implement Changes

- Excerpt from factsheet about fixed costs -
Rate Fact Sheets

1. Why Conservation Based Rates and Why Now?
2. What is the Difference Between Conservation-Based and Other Rate Structures?
4. Legality of Conservation-Based Rates. Why Are They Defensible? San Juan Capistrano?
5. How to Talk About Fixed Costs.
6. How Are Conservation-Based Rates Fair to All Customers?
7. Maintaining the Structure during the Implementation Phase.
Water Use Efficiency Tools

Webpage – SAWPA Website

- Assist in outreach with rates and marketing of tools with SAWPA website development, graphics, content, and forms retail agencies can fill in.

SB 606 and AB 1668

Aerial Imagery, Geocoding & ESRI

Water Rates

Draft Page in PA 22 Packet

Text Drafted

Draft Page in PA 22 Packet
ACWA Conference Panel on Rates and Other Tools

- November 28, 2018, 3:30 PM, San Diego

Panelists:
- Larry McKenney, representing Municipal Water District of Orange County (Moderator)
- Ian Achimore, Senior Watershed Manager, Santa Ana Watershed Project Authority
- Peter Brostrom, Water Use Efficiency Program Manager, Department of Water Resources
- Nadeem Majaj, Public Works Director, City of Chino Hills
- Richard Harris, Manager of Water Conservation, East Bay Municipal Utilities District
Questions
DWR and New Water Use Efficiency Legislation

- DWR is the lead for technical assistance related to urban water use targets per Making Water Conservation A California Way of Life legislation (AB 1668 and SB 606)
- PA 22 Committee recommended SAWPA staff connect with DWR Water Use Efficiency Program Manager Peter Brostrom and share Drought Grant tools,
- SAWPA met with Brostrom twice and he recommended a study SAWPA can manage.
Bostrom's Recommended Study

Scope

- SAWPA ensures approximately three retailers use the aerial imagery data via the ESRI Customer Parcel Water Budget Tool and upload their billing data to compare customer budgets to the volume of water used per customer.
- By involving the retail agency partners, DWR would be interested in knowing:
  - How many customers are over budget,
  - How many customers are under budget, and
  - What’s the most effective way to let customers know they are over budget?
DWR’s Needs for this Study

- DWR wants to ensure aerial imagery data can be a tool for retail water agencies, rather than just a mandated water budget.
- DWR wants to understand a major challenge for water users related to the new legislation - comparing area measurement data (outdoor water budgets) to billing data (customer water use).
- DWR wants to understand:
  - Are a marginal group of customers in a given service area driving an agency’s high water use, and
  - How difficult is it to change the habits of that marginal group?
Data Needed to Perform Study: Water Usage

To be able to compare outdoor budgets to customer usage, the data from partnering retailer agencies needed is:

- Customer Physical address,
- Customer Assessor Parcel Number (APN), and
- Customer’s water volume used.

Note: do not need customer ID numbers.

Partnering retail agencies would likely be comfortable sharing historic data and their 2015-2017 data would be usable for this study.

- 2015-2017 water usage data would still be comparable to SAWPA’s 2015 aerial imagery data.
Data SAWPA Has to Perform Study

- Outdoor water budgets (Historical from 2015)
- Evapotranspiration layers (Historical by month)

Important to note:
- SAWPA can purchase indoor budget data via consultant InfoGroup.
- SAWPA has tool to view and compare data (ESRI Customer Parcel Water Budget Tool).
Benefits of Study and Next Steps

- Study benefits PA 22 and Watershed by:
  - Our region is taking a leadership role related to water use efficiency state policy and aerial imagery,
  - Demonstrating value of locally produced imagery, and
  - Helping us refine imagery collection and related water use efficiency tools.

- Next Steps:
  - SAWPA develops scope and budget and present to PA 22.
  - SAWPA develops talking points and outreach plan to incentivize retailers in the watershed to partner on study.
  - DWR researches available budget for study and whether an existing consultant can also support it if statistical analysis is necessary.
Update on DWR’s Aerial Image Efforts

• DWR will be making retail agency water budgets available by January 2021
  • Budgets will be based on DWR’s 2018 aerial imagery (4 band; 1 foot resolution)
  • Agencies can buy actual imagery data for $5 per square mile (DWR will not own data per licensing agreement with contractor)
Questions