

Project Agreement 22 Committee Budget for Fiscal Years Ending 2018 & 2019



Santa Ana
Watershed
Project Authority

Committee Budget

FYE 2018 and 2019 Budget



Ian Achimore
Senior Watershed Manager
Santa Ana Watershed Project Authority
June 22, 2017

Sub-Grantee Requests Regarding High Visibility Turf Removal and Retrofit Project Update



PA 22 COMMITTEE
JUNE 22, 2017



Critical Success Factors



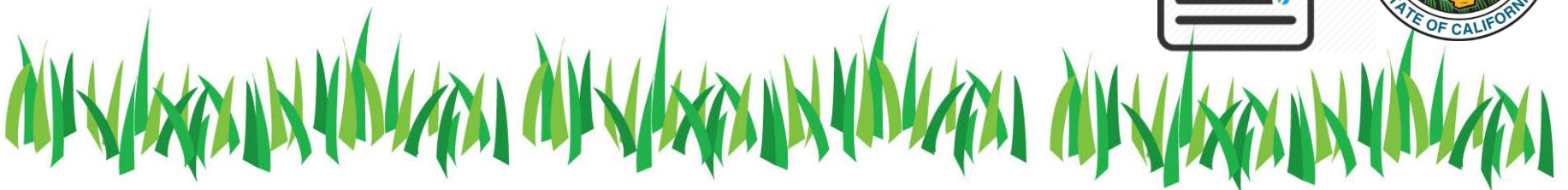
- Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
- Data and information needed for decision-making is available to all.



Background



- **Grant Agreement with DWR:**
 - Executed in summer 2015
 - Member agencies serve as Sub-Grantees to the Program planned to add up to \$1/SF of turf removed to the MWDSC turf rebate (or similar rebate program) per parcel basis up to (\$2/SF) with total of \$3/SF per parcel
- **DWR required local funding match:**
 - Local funding match should be outlaid first before the project proponent is eligible to receive grant reimbursement



Per Parcel Invoicing Based on Program Design

Project Design and DWR application:



- Page 3-13 of the June 2014 DWR application references “large turf parcels” receiving an additional \$1/SF of funding beyond MWDSC or a SBVMWD-duplicate program.

Grant Agreement:

- DWR’s invoice form reflects tracking by property/application because back up documentation is done through rebates, and rebates are allocated not programmatically in an agency-wide fashion, but on a customer by customer basis as they apply.

Sub-Grantee Agreement:

- *Section 1 Projection Description* describes the project as funding that supports individual landscape retrofit projects.
- *Section 3 Estimated Eligible Project Costs* describes that grant and local funds will be allocated to individual landscape retrofit projects; and states that individual properties cannot receive no more than \$250,000 in grant funds.

PA 22 Committee Policy Statement

- Also reflects the \$250,000 grant fund limit per property maintained by eligible entities.

DWR Requirements and Issues

- **Turf Removal Program:**

1. Local funding match must be outlaid first
2. DWR requires a minimum 30% local match on updated total turf removal project costs
3. Utilizing the up to \$2 per SF of local match for every up to \$1 per SF of grant reimbursement on a per parcel basis is concern since the MWDSC turf removal program and local program dollars to fund projects at the \$3 per SF level have largely discontinued.



Sub-Grantee request

- A “programmatic” approach, as opposed to a per-parcel approach be utilized for counting local match now.
- Cost savings from Aerial Mapping and Technology Based Information Tool redirected to support their turf removal programs
- Conservation Advisory Workgroup (SubGrantees) support first funding new esri tool and potentially funding Water Meter Geocoding and NAICS Classification work based on RFP



Sub-Grantees' Request



- Eastern Municipal Water District (EMWD):
 - \$470,000 from the cost savings from conservation component of Emergency Drought Grant Program be utilized to cover 235,000 SF of pending turf removal projects at under \$2/SF.
 - Programmatic approach be utilized and previous invoices be updated in order to reimburse \$89,844 in local costs that were deemed ineligible for reimbursement on a per-parcel basis.



Sub-Grantees' Request

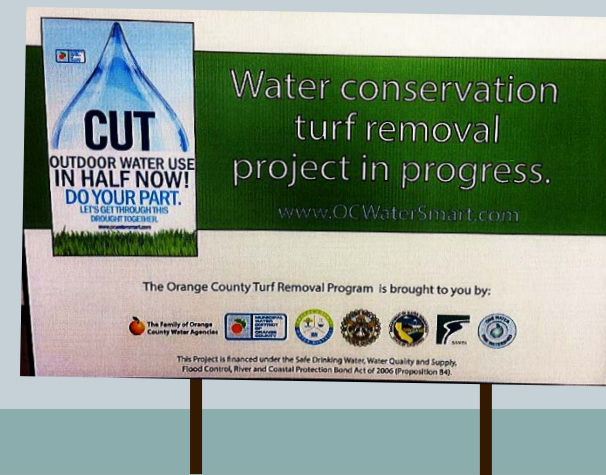


- Inland Empire Utilities Agency (IEUA):
 - Requests that if additional grant funding is being transferred from the cost savings from the conservation component, it have access to a portion of those funds to reimburse IEUA's expenses for providing more benefit beyond their SF floor requirement.
 - Their contribution to their program is \$245,114 and it would provide a benefit 245,114 SF of turf removed



Sub-Grantees' Request

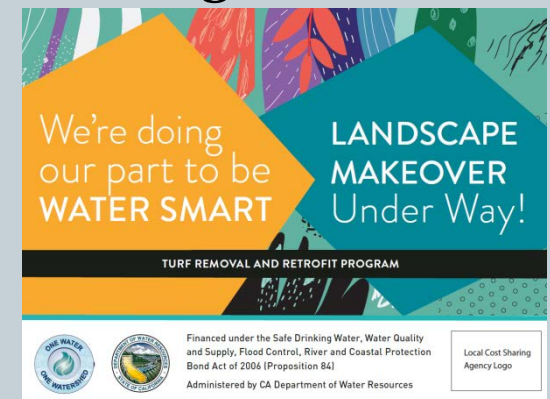
- Orange County Water District (OCWD)/
Municipal Water District of Orange County (MWDOC):
 - Remaining share of eligible grant funding be used to fund pending projects by using programmatic approach



Sub-Grantees' Request



- **Western Municipal Water District (WMWD):**
 - \$130,000 in grant funding from the cost savings be utilized for WMWD's projects in order to create a benefit of approximately 373,200 SF of turf removed.
 - Initiate a reallocation of per-project costs associated with all previously-submitted turf removal invoices to ensure that funds spent with local match in the earlier stages of implementation, when they were counted as funding match, are deemed reimbursable.



SAWPA, DWR and Audit Compliance Concerns



- SAWPA notes the request by the turf agencies would not like any additional reported local match be required **but** DWR requirement is ratio based on total projects costs and cannot be determined upfront.
- SAWPA and the DWR will need to know the total project costs by SubGrantee and watershed to be able to ensure that at least 25% of those local match costs have been reported for total program.



Recommendation



- Approve expanding the accounting of grant reimbursement for turf removal and retrofit to allow participating agencies the option to account for grant dollars on a programmatic level rather than the current practice of a per parcel basis to expedite grant funding reimbursement.



Recommendation

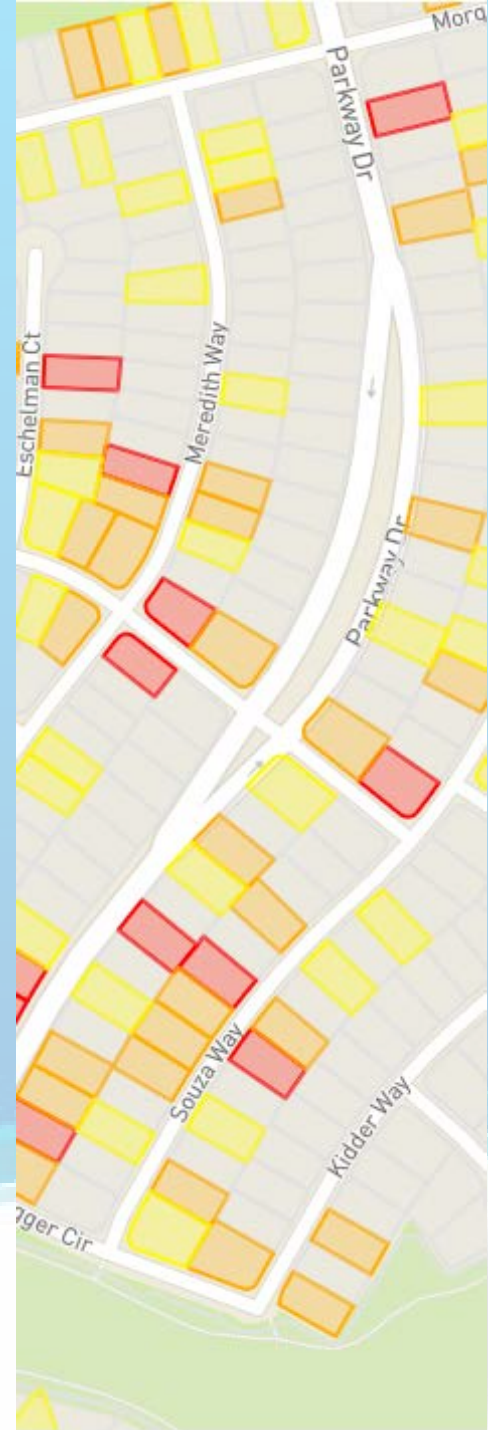
- Provide feedback regarding shifting excess and remaining grant funding from the conservation component of the Emergency Drought Grant Program to fund additional turf removal and retrofit projects under the same conditions of the Grant Agreement



Technology Based Information System: Web Based Water Consumption Reporting, Analytics and Customer Engagement Tool

IEUA Request for Reimbursement

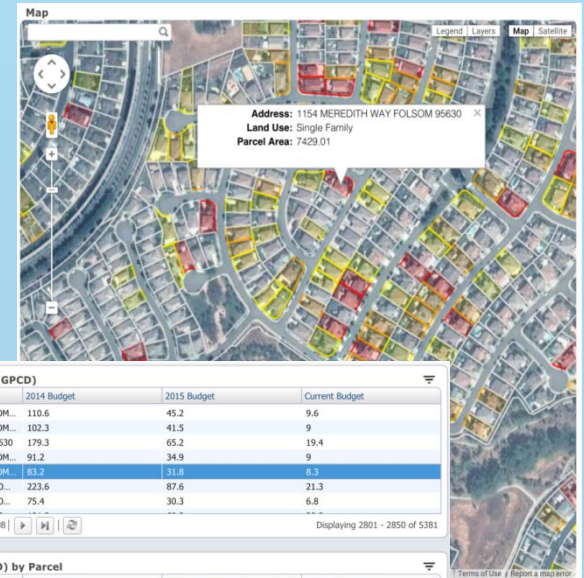
Request for Reimbursement
PA 22 Committee
July 28, 2016



Proposition 84 Funded - Web Based Water Consumption Reporting, Analytics and Customer Engagement Tool

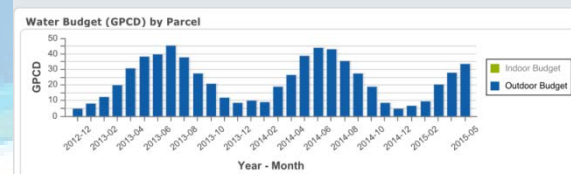
Overview of Work Conducted by OmniEarth

- Calculate Efficiency Based Indoor & Outdoor Water Budgets by Parcel for the entire Santa Ana River watershed and portions of the Upper Santa Margarita watershed that covers, RCWD, EMWD and WMWD service areas.
- Sq. Footage of Irrigated Area by Parcel
- Automatic identification of difference between budget and actual usage
- Inefficient User Identification
- Tracking Metrics for State Reporting
- Training and Support



Parcel Information (GPCD)			
Address	2014 Budget	2015 Budget	Current Budget
1142 MEREDITH WAY FOLSOM...	110.6	45.2	9.6
1146 MEREDITH WAY FOLSOM...	102.3	41.5	9
617 ASCADA CT FOLSOM 95630	179.3	65.2	19.4
1150 MEREDITH WAY FOLSOM...	91.2	34.9	9
1154 MEREDITH WAY FOLSOM...	83.2	31.8	8.3
1172 CLEMENSEN CIR FOLSO...	223.6	87.6	21.3
1166 CLEMENSEN CIR FOLSO...	75.4	30.3	6.8

Water Budget (GPCD) by Parcel			
Year - Month	Indoor Budget	Outdoor Budget	Total Budget
2015-05	26.5	33.4	59.9
2015-04	26.5	27.6	54.1
2015-03	26.5	20.5	47
2015-02	26.5	9.6	36.1
2015-01	26.5	6.5	33
2014-12	26.5	4.9	31.4
2014-11	26.5	8.3	34.8
2014-10	26.5	19	45.4
2014-09	26.5	27.7	53.7



Task 4.3 Component 2 – Web-Based Water Consumption Reporting, Analytics and Customer Engagement Tool

Task Budget/Projected Expenses

Available Grant Funding	\$ 1,735,000
Grant Expenditures (projected)	
Water Retailer	
FULLERTON, CITY OF	\$ 43,101
WEST VALLEY WATER DISTRICT	\$ 36,572
LOMA LINDA, CITY OF	\$ 20,639
TUSTIN, CITY OF	\$ 27,729
EASTERN MUNICIPAL WATER DISTRICT	\$ 149,545
RIALTO, CITY OF	\$ 27,032
BREA, CITY OF	\$ 30,350
YORBA LINDA WATER DISTRICT	\$ 39,196
ONTARIO, CITY OF	\$ 43,153
MONTE VISTA WATER DISTRICT	\$ 26,517
NEWPORT BEACH, CITY OF	<u>\$ 41,625</u>
Sub-total (projected):	\$ 485,459
Other Expenditures under Task Order	
Watershed Budgets	\$ 525,000
Dashboards	\$ 1,000
Outreach Workshops & Toolset Training	<u>\$ 15,000</u>
Sub-total:	\$ 541,000
Total Grant Expenditures (projected):	\$ 1,026,459
Remaining Task Order Funding:	\$ 473,541
Unallocated Grant Funding:	\$ 235,000
Proposed IEUA Grant Funding Request :	\$ 50,000
Remaining Grant Funding:	\$ 658,541



IEUA Basis for Reimbursement



June 2015

- IEUA contracts with OmniEarth to assemble land cover of the IEUA service area develop parcel level water budgets
- Development of land cover data included the estimation of indoor and outdoor water budgets for over 175,000 residential parcels.
- Work by IEUA preceded SAWPA September 2015 contract with OmniEarth/Dropcountr to implement the Proposition 84 funded Web Based Water Consumption Reporting, Analytics and Customer Engagement Tool
- OmniEarth agreed to incorporate the existing IEUA land into to the SAWPA land cover to avoid double charging



Benefits to Project

IEUA by supporting their two member agencies (City of Ontario and Monte Vista Water District) by providing the \$5,000 opt-in fee for participation in the OmniEarth/Dropcountr project adds two more retail agencies to the project.

Participation of the two IEUA agencies provides increased water savings benefits for the project.



Recommendation:

Approve the reimbursement of \$50,000 to IEUA from available funding remaining in Task 4.3 Component 2 - Web Based Water Consumption Reporting, Analytics and Customer Engagement Tool of the Proposition 84 Emergency Drought Round Implementation Grant.



Questions?



Emergency Drought Grant Program

Request for Proposals: Retail Water Agency Meter Geocoding and Business Type Classification

June 22, 2017

Rick Whetsel
Senior Project Manager
Santa Ana Watershed Project
Authority



Data Requirements

SAWPA will provide:

- Santa Ana River Watershed Meter Service Areas
- North American Industry Classification System Database

Retailer will provide:

- Account information
- Meter IDs

NAICS Codes

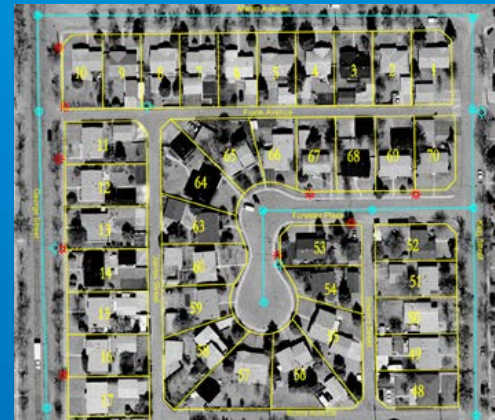
334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing
334416 Electronic Coil, Transformer and other Inductor Manufacturing
334511 Search Detection, Navigation, Guidance, Aerospace
334510 Electromedical and Electrotherapeutic Apparatus Manufacturing
334513 Instruments and related products for manufacturing for measuring, displaying, controlling industrial process variables
334516 Analytical Laboratory Instrument Manufacturing
334519 Other Measuring and Controlling Device Manufacturing
33599 All Other Electrical Equipment and Component Manufacturing
335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing
9271 Space Research and Technology
335931 Current-Carrying Wiring Device Manufacturing
335932 Noncurrent-Carrying Wiring Device Manufacturing
3364 Aerospace Product and Parts Manufacturing
33641 Aerospace Product and Parts Manufacturing
336411 Aircraft Manufacturing
336412 Aircraft Engine and Engine Parts Manufacturing
336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
336414 Guided Missile and Space Vehicle Manufacturing
336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
336992 Military Armored vehicle, Tank, and Tank Component Manufacturing
3391 Medical Equipment and Supplies Manufacturing
33911 Medical Equipment and Supplies Manufacturing
339112 Surgical and Medical Instrument Manufacturing
5950 Coils and Transformers
5995 Cable, Cord, and Wire Assemblies: Communication Equipment
5963 Electronic Modules
5998 Electrical and Electronic Assemblies, Boards, Cables, and Associated Hardware
1370 Pyrotechnics
3694 Clean workstations, Controlled environment, and related equipment



Deliverables

Consultant will provide:

- Documentation of Methods Applied
- Inventory of Data and Data Sources
- Quality Control Documentation
- Customized GIS Layers
 - Meter Point locations
 - NAICS codes linked to Meter ID
 - Meter Type linked to Meter ID



Proposed Schedule

- RFP Published June 22, 2017
- Responses due July 21, 2017
- Workgroup Recommendation Early August
- PA 22 Committee Approval August 24, 2017

Estimated six months to implement project



Recommendation

Authorize staff to issue a Request for Proposals to identify firms qualified to implement comprehensive water meter geocoding and business type classification including the identification of mixed meter CII accounts for up to six retail water agencies in the Santa Ana River Watershed, as well as the EMWD and WMWD service areas within the Upper Santa Margarita Watersheds.



Questions?





SAWPA Aerial Imagery and Landscape Measurement Data

ESRI On-line Web
Application and Cloud Services



Benefits to Current ESRI License Holders (Agencies)

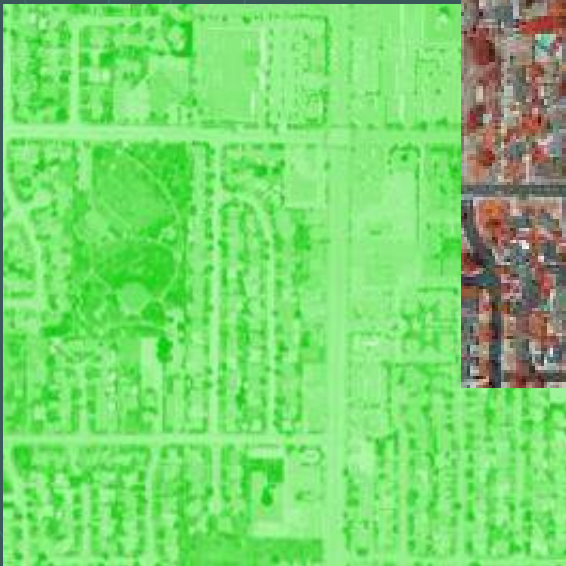
- achieve a significantly lower cost (approximately 50%) for hosting and serving this dataset
- member agencies will also enjoy the benefit of access to this immense data set without tying up their agencies' own computer data storage/networking services

Benefits to none ESRI License Holders (Agencies)

- Agencies lacking GIS capabilities, the application provides a platform to use the data.
- On-line web application eliminates the need and associated costs for each agency to store this large amount of data.
- predefined tools will enable water retail agency staff to access SAWPA's aerial imagery and the results of the landscape analysis

Imagery

- Standard
- Infrared
- NVDI



Veg Data Layer

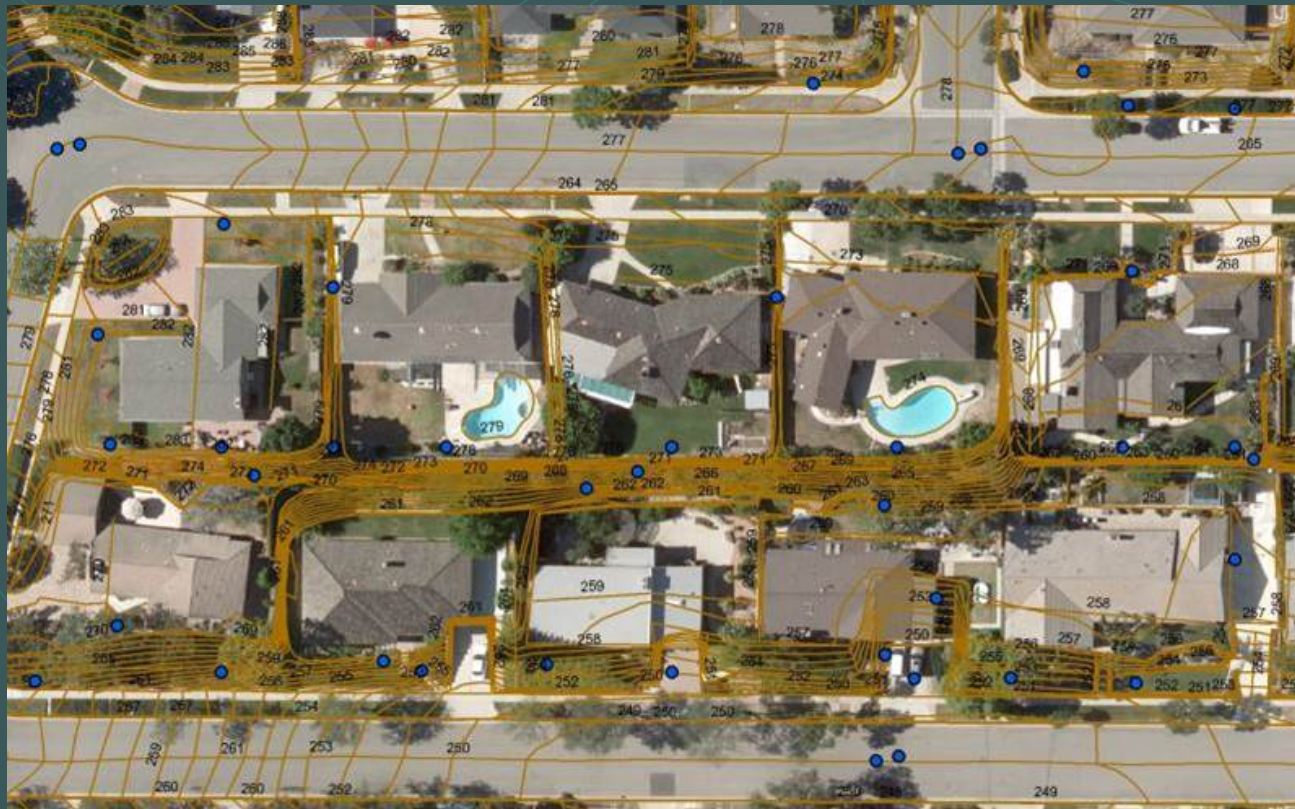
- Displays Irrigated Veg
- Displays Irrigable Area



Contours

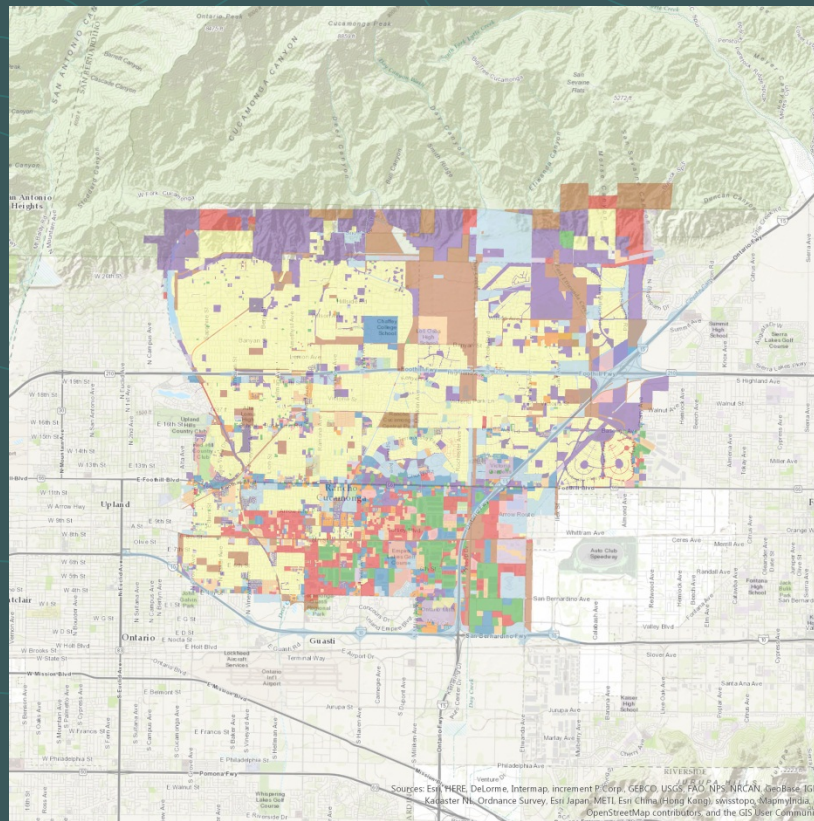


 Displays 1 Foot Contours

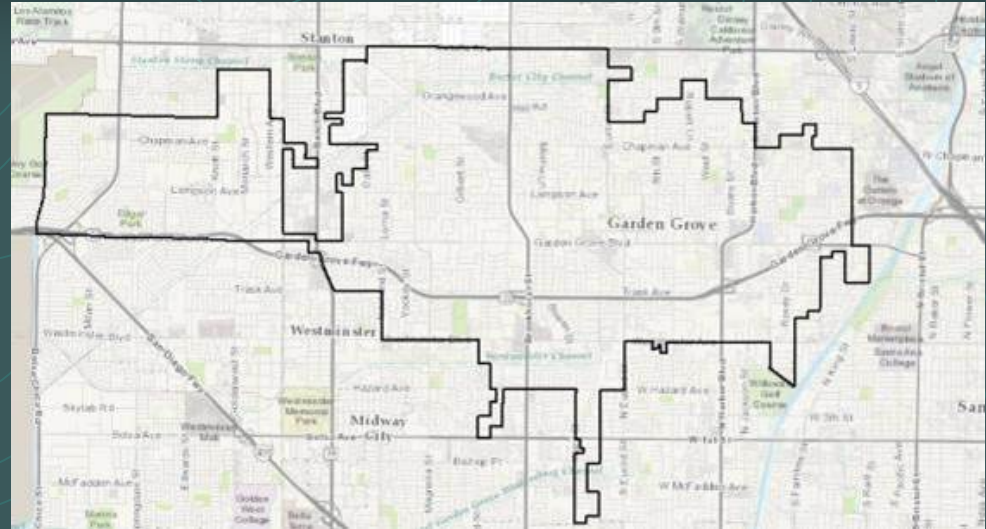


Watershed

● Able to click on Landuse high level category and get totals

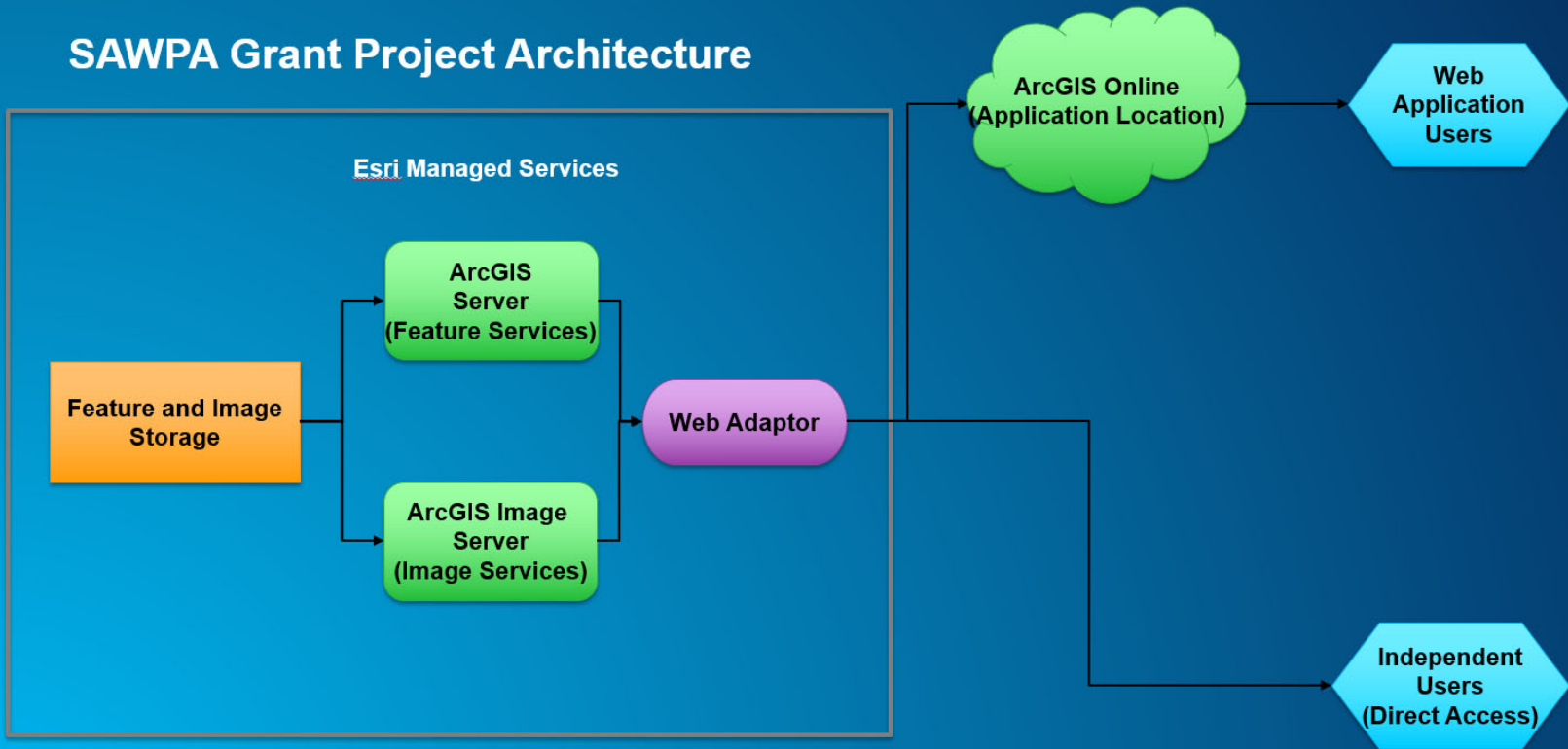


Agency



- Select tool
- Agency attributes: Name, square miles
- Agency Veg Attributes: Total Turf, Total TreeShrub, Total Pools, Total Dead Veg, Total Irrigitable, Total Irrigated

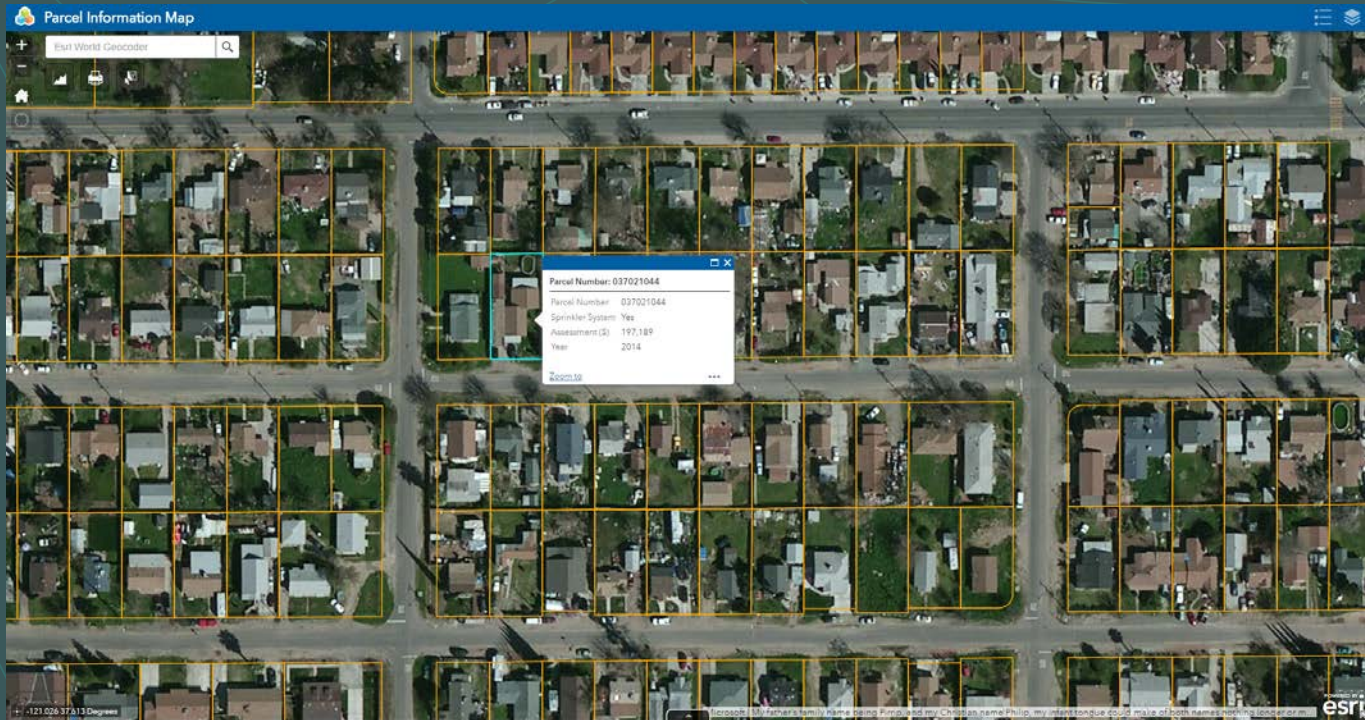
SAWPA Grant Project Architecture



Parcels

 Address locator

 Select tool



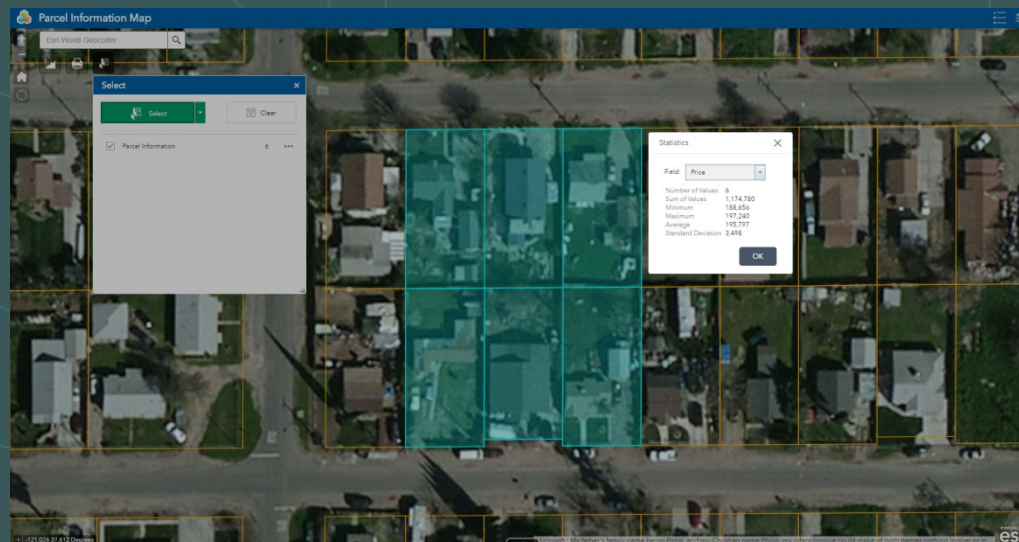
Parcels

Statistics



Parcel Attributes

- Show parcel with parcel boundary + MSA boundary. Parcel attributes: Parcel Address, APN, and Land Use
- Agency where Parcel resides in.
- Veg attributes: Turf sqft, Treeshrub sqft,



Multi Select Tool

- Works against Parcel layer
- Selects one or More by point, Line or Polygon



Recommendation

- Authorize a Task Order with ESRI for an amount not to exceed \$ 100,000 to develop and manage an online web application and cloud services to provide retail agency staff improved access to SAWPA aerial imagery and landscape measurement data.

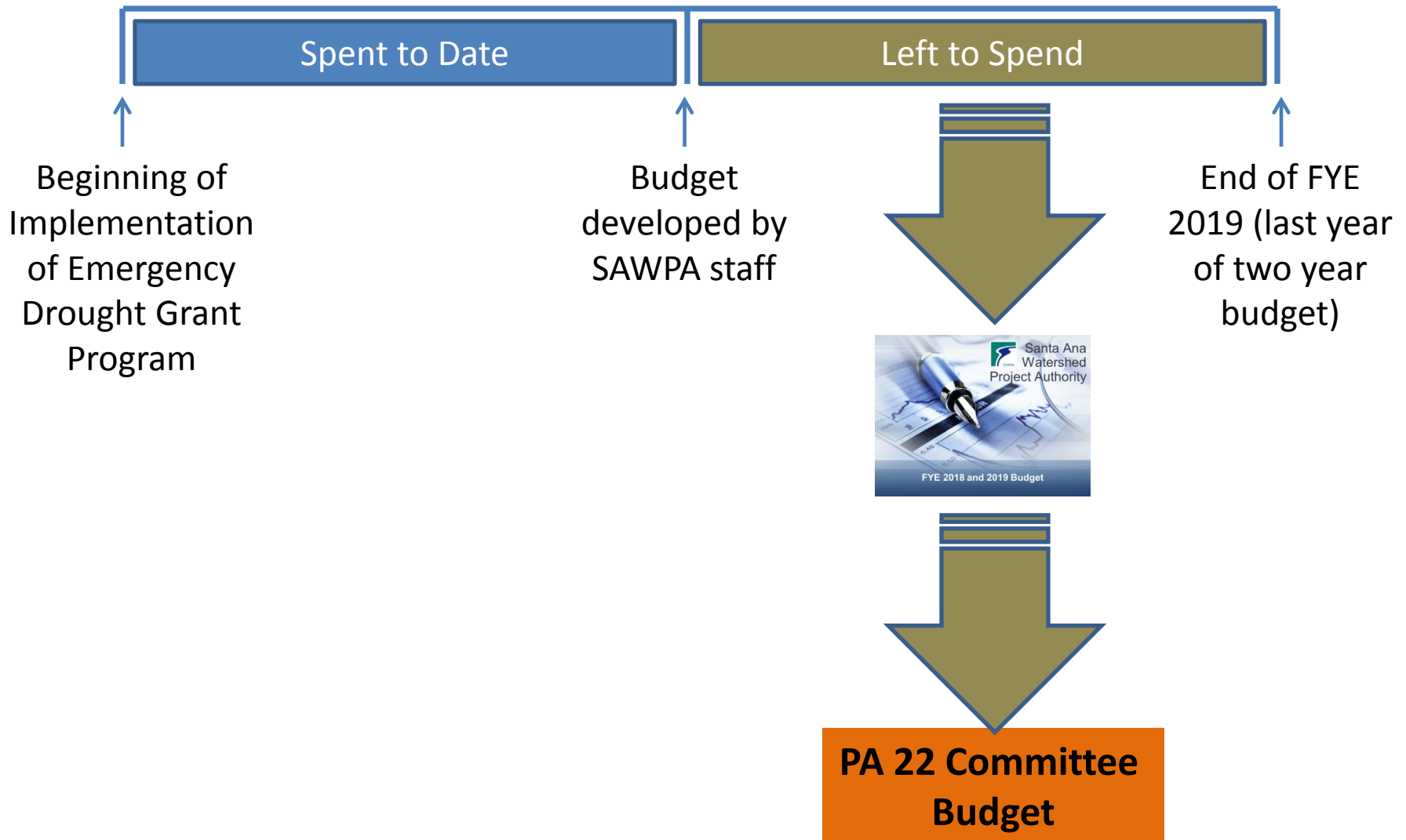


Background - Projects

- Project 1: Conservation Based Reporting Tools and Rate Structure Implementation
 - Technical assistance, contract work, consultant management
- Project 2: High Visibility Turf Removal and Retrofit



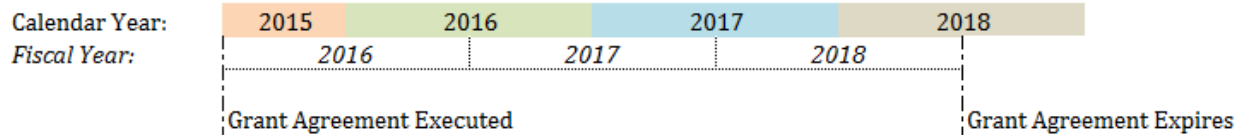
Development of Budget and Origin of Dollar Values



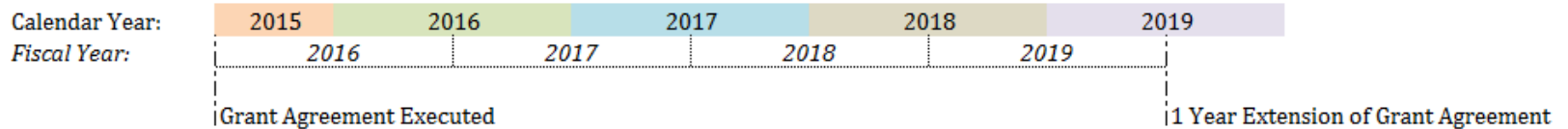


Schedule Increase Incorporated Into Budget

Current Grant Agreement




Grant Agreement Extended






FYE 2018 Committee Budget



Source of Funds	Funding
Grant – SAWPA Implementation	\$1,265,683
Grant – Pass Through to Agencies	\$4,133,341
Total	\$5,399,024



Use of Funds – SAWPA Implementation	Funding
Labor	\$109,479
Benefits	\$47,824
Indirect Costs	\$154,453
Program Expenses	\$953,927
Total	\$1,265,683



Use of Funds – Pass Through Reimbursement to Agencies	Funding
	\$4,133,341



FYE 2019 Committee Budget



Source of Funds	Funding
Grant – SAWPA Implementation	\$1,182,042
Grant – Pass Through to Agencies	\$100,000
Total	\$1,282,042



Use of Funds – SAWPA Implementation	Funding
Labor	\$81,866
Benefits	\$35,772
Indirect Costs	\$115,478
Program Expenses	\$948,927
Total	\$1,182,043



Use of Funds – Pass Through Reimbursement to Agencies	Funding
	\$100,000



Source of Funding

Source of Funding	FYE 2018	FYE 2019
Grant – SAWPA Managed	\$1,265,683	\$1,182,042
Grant – Pass Through to Agencies	\$4,133,341	\$100,000
Total	\$5,399,024	\$1,282,042



SAWPA Implementation and Program Expenses

Use of Funds	FYE 2018	FYE 2019
Labor	\$109,479	\$81,866
Benefits	\$47,824	\$35,772
Indirect Costs	\$154,453	\$115,478
Total	\$311,756	\$233,116

Program Expenses	FYE 2018	FYE 2019
Drought Program: Executive Order Support to Retail Agencies	\$953,927	\$948,927



Pass Through

Sub-Grantee	FYE 2018	FYE 2019
Drought Program: Turf Retrofit		
EMWD	\$847,971	\$0
EMWD (USMW)	\$420,000	\$0
IEUA	\$0	\$0
OCWD	\$876,162	\$0
RCWD (USMW)	\$0	\$0
SBVMWD	\$828,499	\$0
WMWD	\$377,736	\$0
WMWD (USMW)	\$52,500	\$0
Sub-Total	\$3,402,868	\$0
Drought Program: Conservation-Based Water Rates		
Chino City	\$100,103	\$0
Chino Hills City	\$48,930	\$50,000
Cucamonga Valley WD	\$57,515	\$50,000
East Valley WD	\$0	\$0
Garden Grove City	\$107,515	\$0
Hemet City	\$107,515	\$0
Rialto City	\$93,865	\$0
San Jacinto City	\$107,515	\$0
Tustin City	\$107,515	\$0
Sub-Total	\$730,473	\$100,000
Total	\$4,133,341	\$100,000



FYE 2018 SARCCUP WUE Component

As reflected in the PA 23 Budget



Source of Funds	Funding
Grant – SAWPA Implementation	\$193,097
Participant Fees	\$193,097
Total	\$386,194



Use of Funds – SAWPA Implementation	Funding
Labor	\$17,811
Benefits	\$7,784
Indirect Costs	\$25,132
Program Expenses	\$335,468
Total	\$386,194



FYE 2019 SARCCUP WUE Component

As reflected in the PA 23 Budget



Source of Funds	Funding
Grant – SAWPA Implementation	\$241,371
Participant Fees	\$196,795
Total	\$438,166



Use of Funds – SAWPA Implementation	Funding
Labor	\$35,992
Benefits	\$15,728
Indirect Costs	\$50,784
Program Expenses	\$335,662
Total	\$438,166



Recommendation

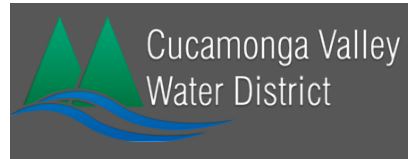
Adopt the PA 22 Committee Budget for Fiscal Years Ending 2018 and 2019.



Backup



Agency Coordination



Yorba Linda Water District

