

Notice and Agenda of a Workshop of the Yucaipa Sustainable Groundwater Management Agency

Wednesday, August 28, 2019 at 10:00 a.m.

City of Yucaipa, 34272 Yucaipa Boulevard
Yucaipa, California 92399
(909) 797-2489 | www.yucaipasgma.org

- I. **Call to Order**
- II. **Roll Call**
- III. **Introductions of Board Members and Public Participants**
- IV. **Public Comments** At this time, members of the public may address the representatives of the Yucaipa Groundwater Sustainability Agency on matters within its jurisdiction.
- V. **Review and Approval of Meeting Minutes**
 - A. Meeting Minutes - May 22, 2019 [[Page 3 of 16](#)]
 - B. Special Meeting - Presentation to Elected Officials - June 19, 2019 [[Page 6 of 16](#)]
 - C. Meeting Minutes - June 19, 2019 [[Page 11 of 16](#)]
 - D. Meeting Minutes - July 24, 2019 [[Page 14 of 16](#)]
- VI. **Discussion Items**
 - A. Discussion Regarding a Database Management System
 - B. Update on the Proposed Construction of Stream Gaging Site(s) by the Department of Water Resources (DWR)
 - Proposed gaging sites by DWR and by Yucaipa SGMA technical team
 - Proposed field tour with DWR to inspect potential stream gaging sites
 - C. Development of a Water Budget for the Yucaipa Region
 - Estimate of natural supply
 - Review of demand data to 2070 and data gaps
 - D. Information Needed to Simulate Future Projects in Numerical Model.
 - E. Status Report on the Sustainable Groundwater Management Act Grant and Financial Status - Bob Tincher [[Page 16 of 16](#)]
- VII. **Topics for Future Meetings**
 - Discuss potential recharge projects to be included in the groundwater model - February 2020
 - Discussion regarding groundwater dependent ecosystems - pending
- VIII. **Comments by Board of Directors**
- IX. **Announcements - Future Meetings**
 - A. Wednesday, September 25, 2019 at 10:00 am - Workshop
 - B. Wednesday, October 23, 2019 at 10:00 am - **Board Meeting**
 - C. *Wednesday, October 30, 2019 at 6:00 pm - Public Meeting No. 1 - Yucaipa Performing Arts Center, 12062 California Street, Yucaipa, California - **Tentative date and location.***
 - D. Wednesday, January 22, 2020 at 10:00 am - **Board Meeting**
- X. **Adjournment**

Roll Call - Board of Directors

	Present	Primary Representative	Present	Alternative Representative
Purveyors				
South Mesa Water Company		David Armstrong		George Jorritsma
South Mountain Water Company		Bob Martin		Rolland Moore
Western Heights Water Company		Mark Iverson		Tim Green
Yucaipa Valley Water District		Joseph Zoba		Jennifer Ares
Municipals				
City of Redlands		Cecilia Griego		Kevin Watson
City of Yucaipa		Ray Casey		Fermin Preciado
Regionals				
San Bernardino Valley MWD		Doug Headrick		Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis		Leonard Stephenson
* Quorum of the Board of Directors requires a total of five Purveyor, Municipal, Regional Members				
Stakeholders				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		- -
City of Calimesa		Lori Askew		Bonnie Johnson

Future Dates and Milestones

The dates provided below are subject to change.

Public Presentation of the Goals and Objectives of the Groundwater Sustainability Plan - Meeting Number 1	Wednesday, October 30, 2019
Distribution of the Administrative Draft of the Yucaipa SGMA Groundwater Sustainability Plan	Monday, July 20, 2019
Release of the Draft Yucaipa SGMA Groundwater Sustainability Plan for Public Comment	Monday, January 18, 2021
Final Groundwater Sustainability Plan Submitted to the Department of Water Resources for Review and Approval	Monday, May 24, 2021

MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

May 22, 2019 - 10:00 a.m.

City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California

I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:00 a.m.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	_____	George Jorritsma
South Mountain Water Company	✓	Bob Martin	✓	Rolland Moore
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District	✓	Joseph Zoba	✓	Jennifer Ares
Municipals				
City of Redlands	✓	Cecilia Griego	✓	Kevin Watson
City of Yucaipa	_____	Ray Casey	_____	Fermin Preciado
Regionals				
San Bernardino Valley MWD	✓	Doug Headrick	✓	Bob Tincher
San Gorgonio Pass Water Agency	_____	Jeff Davis	✓	Leonard Stephenson
Stakeholders				
County of Riverside	_____	Steve Horn	_____	Jeff Johnson
County of San Bernardino	_____	Bob Page	_____	
City of Calimesa	_____	Lori Askew	_____	Bonnie Johnson

A quorum of the Board of Directors was present to start the meeting.

III. Introductions of Board Members and Public Participants - In addition to the Board of Directors identified above, the following members of the public attended the meeting.

- Madeline Blua - Yucaipa Valley Water District
- Lonni Granlund - Yucaipa Valley Water District
- Bruce Granlund - Yucaipa Valley Water District
- Dan Haskins
- Derek Hoffman, Attorney representing South Mesa Mutual Water Company
- Tim Kellett - San Bernardino Valley Municipal Water District
- Landon Kern - City of Yucaipa
- Paul Kielhold - San Bernardino Valley Municipal Water District
- Mike Kostelecky - Yucaipa Valley Water District
- David Newland - City of Redlands

- Bob Ohlund - Dudek
- Steven Stuart - Dudek
- Gary Wilson - South Mesa Mutual Water Company

IV. Public Comments - There were no public comments.

V. Review and Approval of Meeting Minutes

A. Approval of Meeting Minutes of April 24, 2019

Leonard Stephenson moved to approve the meeting minutes of April 24, 2019. David Armstrong seconded the motion. The Board of Directors unanimously approved the motion.

VI. Discussion Items

A. Discussion Regarding the Preparation of a Groundwater Sustainability Plan

Tim Kellett provided an overview of the preparation of the Groundwater Sustainability Plan and the importance of achieving a water balance in the basin.

B. Status Report on the Sustainable Groundwater Management Act Grant and Financial Status

Tim Kellett reported that the first quarterly report was reviewed and accepted by the Department of Water Resources.

C. Consideration of Approving the Public Outreach Plan for the Yucaipa Sustainable Groundwater Management Agency

Steven Stuart provided an overview of the draft Outreach Plan and summarized the comments received regarding the draft document.

D. Discussion Regarding the Conceptual Model Used to Prepare the Groundwater Sustainability Plan

Steven Stuart discussed the conceptual model used to prepare the Groundwater Sustainability Plan. The presentation slides for this agenda item were included in the meeting packet for review prior to the meeting.

E. Discussion Regarding the Inclusion of Potential Recharge Projects in the Baseline Groundwater Model

Mark Iverson discussed the preparation of the groundwater model and the need for determining how to evaluate the impact of proposed projects. Steven Stuart stated that the decision to perform specific groundwater model scenarios would probably occur in early 2020.

- F. Discussion Regarding a Tentative Meeting Date for an Elected Official Meeting to Receive a Status Report of the Yucaipa Sustainable Groundwater Management Agency

Joseph Zoba moved to schedule a meeting with the elected officials on June 19, 2019 at 6:00 pm. Bob Martin seconded the motion. The motion was approved unanimously.

- VII. Topics for Future Meetings - Mark Iverson discussed adding the following topics to discuss in the future:

- Review the draft outreach and communication plan - June 2019
- Consideration of adopting the outreach and communication plan - July 2019
- Review the potential project criteria - August 2019
- Discuss potential recharge projects to be included in the groundwater model - February 2020
- Discussion regarding groundwater dependent ecosystems - pending

- VIII. Comments by the Board of Directors

- Joseph Zoba stated that seating at the meeting table should be reserved for Yucaipa SGMA Board of Directors, consultants from Dudek, and administrators from the San Bernardino Valley Municipal Water District.
- Mark Iverson stated that it would be helpful to have table tent cards with the name of each representative.

- IX. Announcements - The next meeting of the Yucaipa Sustainable Groundwater Management Agency will be a Board Meeting on Wednesday, May 22, 2019 at 10:00 a.m.

- X. Adjournment - The meeting was adjourned at 10:40 a.m.

MINUTES OF THE SPECIAL MEETING OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

ELECTED OFFICIALS OVERVIEW OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

June 19, 2019 - 6:00 p.m.
Yucaipa Performing Arts Center
12062 California Street, Yucaipa, California

I. Call to Order - Chairman Mark Iverson called the meeting to order at 6:00 p.m.

City Manager Ray Casey welcomed the group to the Yucaipa Performing Arts Center.

Mayor Bobby Duncan called the special meeting of the City of Yucaipa to order.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	✓	George Jorritsma
South Mountain Water Company	✓	Bob Martin	✓	Rolland Moore
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District	✓	Joseph Zoba	✓	Jennifer Ares
Municipals				
City of Redlands	✓	Cecilia Griego	✓	Kevin Watson
City of Yucaipa	✓	Ray Casey	✓	Fermin Preciado
Regionals				
San Bernardino Valley MWD	_____	Doug Headrick	_____	Bob Tincher
San Gorgonio Pass Water Agency	_____	Jeff Davis	_____	Leonard Stephenson
Stakeholders				
County of Riverside	_____	Steve Horn	_____	Jeff Johnson
County of San Bernardino	_____	Bob Page	_____	
City of Calimesa	_____	Lori Askew	_____	Bonnie Johnson

A quorum of the Board of Directors was present to start the meeting.

Additional guests were requested to register (see attached sign in sheet).

III. Introductions of Board Members and Public Participants - In addition to the Board of Directors identified above, guests were requested to sign in (see attached).

IV. Public Comments - There were no public comments.

V. Overview of the Yucaipa Sustainable Groundwater Management Agency

Zoë Carlson from Dudek provided a presentation that included the following elements:

- An overview of the Sustainable Groundwater Management Act;
- Stakeholder engagement requirements of the Sustainable Groundwater Management Act;
- Overview of the Yucaipa Sustainable Groundwater Management Agency Outreach and Engagement Plan;
- Goals for Outreach and Engagement; and
- Overview of the Yucaipa Groundwater Sustainability Plan Development Process.

Following the presentation and questions from the audience, Mayor Bobby Duncan adjourned the special meeting of the City of Yucaipa.

VI. Adjournment - Mark Iverson adjourned the meeting at 6:40 p.m.

1093

Yucaipa Sustainable Groundwater Management Agency

Implementation of the Outreach Plan for Local Elected Officials

Wednesday, June 19, 2019 at 6:00 pm
12062 California Street, Yucaipa, CA

Sign in Sheet

Name	Agency	Email/Phone
TIMOTHY GREENE	W.H.W.C.	rcs40@earthlink.net
DAVE ARMSTRONG	S.M.W.C.	darmstrong@smwc.com
FERMIN PRECIADO	CITY OF YUCAIPA	fpreciado@yucaipa.org
Lay Casey	C.C.	lrcasey@yucaipa.org
Dick RIDDELL	C.C.	DRIDDELL@YUCAIPA.ORG
JIM CRAMPTON	SO MESA	JC3111945@GMAIL.COM

20F3

Yucaipa Sustainable Groundwater Management Agency

Implementation of the Outreach Plan for Local Elected Officials

Wednesday, June 19, 2019 at 6:00 pm
12062 California Street, Yucaipa, CA

Sign in Sheet

Name	Agency	Email/Phone
MARK INERSON	WHWC	951 206 1567
Jennifer Ares	YUWD	909 708 6958
Matt BORDS	YUWD	909 429 5677
Madeline Blue	YUWD	909 790 3311
Joyce McIntire	YUWD	909-795-1955
Joe Zehn	YUWD	
Bruce Granlund	YUWD	
Greg Boyl	City of Yucaipa	909 841 3149
George JOHNSON	S.H.W.C.	(909) 795-2401
Deane Bank	WHWC	909 709 4090
Denise Allen	City of Yucaipa	909-797-2489

Yucaipa Sustainable Groundwater Management Agency

Implementation of the Outreach Plan for Local Elected Officials

Wednesday, June 19, 2019 at 6:00 pm
12062 California Street, Yucaipa, CA

Sign in Sheet

Name	Agency	Email/Phone
Paul Kielhold	SBVMWD	Paul k@sbvmwd
ZOE CARLSON	DUDEIK	ZCARLSON@DUDEIK.COM
BEN KELLY	WHWC	909 794 7694
Carly Wolfe	NewsMirror	714-737-2566
Lorri Grantland	YVWD	909-224-0952
David Avita	City of Yucaipa	909 797 2489
Kevin Watson	City of Redlands	
Cecilia Ginego	City of Redlands	909-798-7553
PAUL SUE	"	
CHRIS MAUV	YVWD	CHRIS.MAUV76@GMAIL.COM

MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

June 26, 2019 - 10:00 a.m.

City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California

I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:00 a.m.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	✓	George Jorritsma
South Mountain Water Company		Bob Martin		Rolland Moore
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District		Joseph Zoba	✓	Jennifer Ares
Municipals				
City of Redlands	✓	Cecilia Griego	✓	Kevin Watson
City of Yucaipa		Ray Casey		Fermin Preciado
Regionals				
San Bernardino Valley MWD		Doug Headrick	✓	Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis		Leonard Stephenson
Stakeholders				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		
City of Calimesa		Lori Askew		Bonnie Johnson

A quorum of the Board of Directors was present to start the meeting.

III. Introductions of Board Members and Public Participants - In addition to the Board of Directors identified above, the following members of the public attended the meeting.

- Madeline Blua - Yucaipa Valley Water District
- Sam Fuller - South Mountain Water Company
- Kathryn Hallberg - Yucaipa Valley Water District
- Derek Hoffman - Attorney representing South Mesa Water Company
- Landon Kern - City of Yucaipa
- Mike Podegracz - City of Yucaipa
- Matthew Porras - Yucaipa Valley Water District
- Linda Shelton - Member of the Public
- Robert Zappia - Western Heights Water Company

IV. Public Comments – There were no public comments.

V. Review and Approval of Meeting Minutes

A. Approval of Meeting Minutes of May 22, 2019 and June 19, 2019.

David Armstrong requested that the workshop minutes from May 22, 2019 reflect the distribution of correspondence from South Mesa Water Company to the Yucaipa SGMA Board of Directors.

Jennifer Ares moved to approve the meeting minutes of May 22, 2019 and June 19, 2019. David Armstrong seconded the motion. The Board of Directors unanimously approved the motion.

VI. Discussion Items

A. Discussion Regarding the Preparation of a Groundwater Sustainability Plan

Bob Tincher provided a status report of the preparation of the Groundwater Sustainability Plan. The Board of Directors requested the Dudek status report be formatted to illustrate percentage complete and budget spent to date.

B. Status Report on the Sustainable Groundwater Management Act Grant and Financial Status

Bob Tincher stated there are no updates. All reports and reimbursements are current with the Department of Water Resources.

C. Review of the Public Outreach Plan for the Yucaipa Sustainable Groundwater Management Agency

The Public Outreach Plan comment deadline is July 3, 2019. Comments should be submitted to Bob Tincher. The Outreach Plan is anticipated to be approved by the Board of Directors at the July 24, 2019 board meeting.

D. Discussion Regarding Stream Flow Monitoring for the Yucaipa Groundwater Basin

The Department of Water Resources contacted Bob Tincher regarding the installation of stream gauges within the Yucaipa Sustainable Groundwater Management Agency. Member agencies will discuss and evaluate the most appropriate location(s) for the stream gauges.

VII. Topics for Future Meetings

- Consideration of the Final Public Notice Outreach Plan – July 2019
- Review of Yucaipa SGMA Bylaws – July 2019
- Review and creation of potential project evaluation criteria – August 2019
- Discuss potential recharge projects to be included in the groundwater model – February 2020 – Mark Iverson provided copies of potential recharge locations to discuss at the next Yucaipa SGMA meeting.
- Discussion regarding groundwater dependent ecosystems – pending

VIII. Comments by the Board of Directors

Tim Greene asked about the status of the USGS groundwater model. Bob Tincher will provide an update at the July 24, 2019 meeting.

IX. Announcements

The next meeting of the Yucaipa Sustainable Groundwater Management Agency will be a Board Meeting on Wednesday, July 24, 2019 at 10:00 a.m.

X. Adjournment - The meeting was adjourned at 10:45 a.m.

MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

July 24, 2019 - 10:00 a.m.

City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California

I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:00 a.m.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	✓	George Jorritsma
South Mountain Water Company		Bob Martin		Rolland Moore
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District		Joseph Zoba	✓	Jennifer Ares
Municipals				
City of Redlands	✓	Cecilia Griego		Kevin Watson
City of Yucaipa		Ray Casey	✓	Fermin Preciado
Regionals				
San Bernardino Valley MWD		Doug Headrick		Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis	✓	Leonard Stephenson
Stakeholders				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		
City of Calimesa		Lori Askew		Bonnie Johnson

A quorum of the Board of Directors was present to start the meeting.

III. Introductions of Board Members and Public Participants - In addition to the Board of Directors identified above, the following members of the public attended the meeting.

- Madeline Blua - Yucaipa Valley Water District
- Paul Kielhold – San Bernardino Valley Municipal Water District
- Joyce McIntire – Yucaipa Valley Water District
- Trevor O’Rear – Hillwig-Goodrow Land Surveying
- Bob Ohlund - Dudek

IV. Public Comments – Joyce McIntire addressed the Board regarding earthquake preparedness. Chairman Iverson stated each agency has an earthquake plan and emergency preparedness will be addressed in the Groundwater Sustainability Plan.

V. Review and Approval of Meeting Minutes

A. Approval of Meeting Minutes of May 22, 2019 and June 19, 2019.

The approval of the May 22, 2019 and June 19, 2019 meeting minutes were tabled until the August 28, 2019 meeting.

VI. Discussion Items

A. Discussion Regarding the Preparation of a Groundwater Sustainability Plan

Bob Ohlund updated the Board stating that all tasks are on schedule.

B. Discussion and Possible Action Regarding the Adoption of the Public Outreach Plan for the Yucaipa Sustainable Groundwater Management Agency

Cecilia Griego asked if there were additional edits since the Outreach Plan was presented. Chairman Iverson stated only agency acronyms and a map revision. Mark Iverson moved to approve the Public Outreach Plan. Fermin Preciado seconded the motion.

VII. Topics for Future Meetings

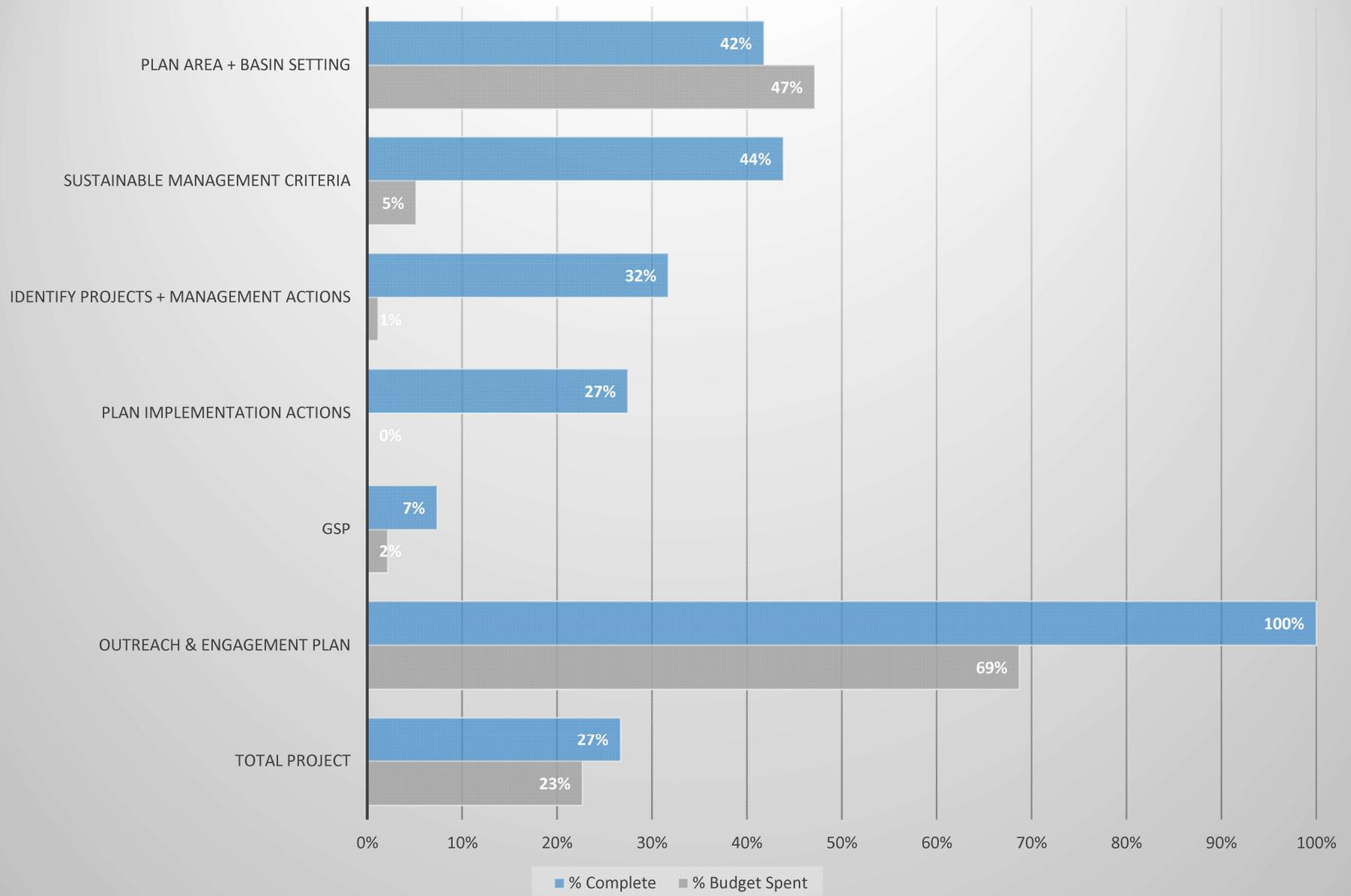
- Workshop – August 28, 2019
 - Review and creation of potential project evaluation criteria
 - Discussion Regarding Stream Gauge Installation and Maintenance
 - Discussion Regarding Potential Recharge Project Locations
Mark Iverson suggested USGS be in attendance for this workshop item.
 - Status Report on the Groundwater Flow Model
- Workshop – February 26, 2020
 - Discuss potential recharge projects to be included in the groundwater model
- Unscheduled Future Topics
 - Discussion regarding groundwater dependent ecosystems – pending

VIII. Comments by the Board of Directors

IX. Announcements - The next meeting of the Yucaipa Sustainable Groundwater Management Agency will be a Board Meeting on Wednesday, August 28, 2019 at 10:00 a.m.

X. Adjournment - The meeting was adjourned at 10:20 a.m.

Yucaipa GSP Development (as of 7/26/2019)



An aerial photograph of a suburban town, likely Yucaipa, California. The image shows a mix of residential housing, commercial buildings, and green spaces. A prominent feature is a large, rectangular lake or reservoir in the lower-left quadrant, surrounded by trees and a paved area. The overall scene is a typical suburban landscape with a mix of urban and natural elements.

Yucaipa SGMA

Groundwater Sustainability Plan (GSP)

Development

Yucaipa GSA Workshop
August 28, 2019

2011

Safe Yields & Capacities
(Geoscience, 2012-13)

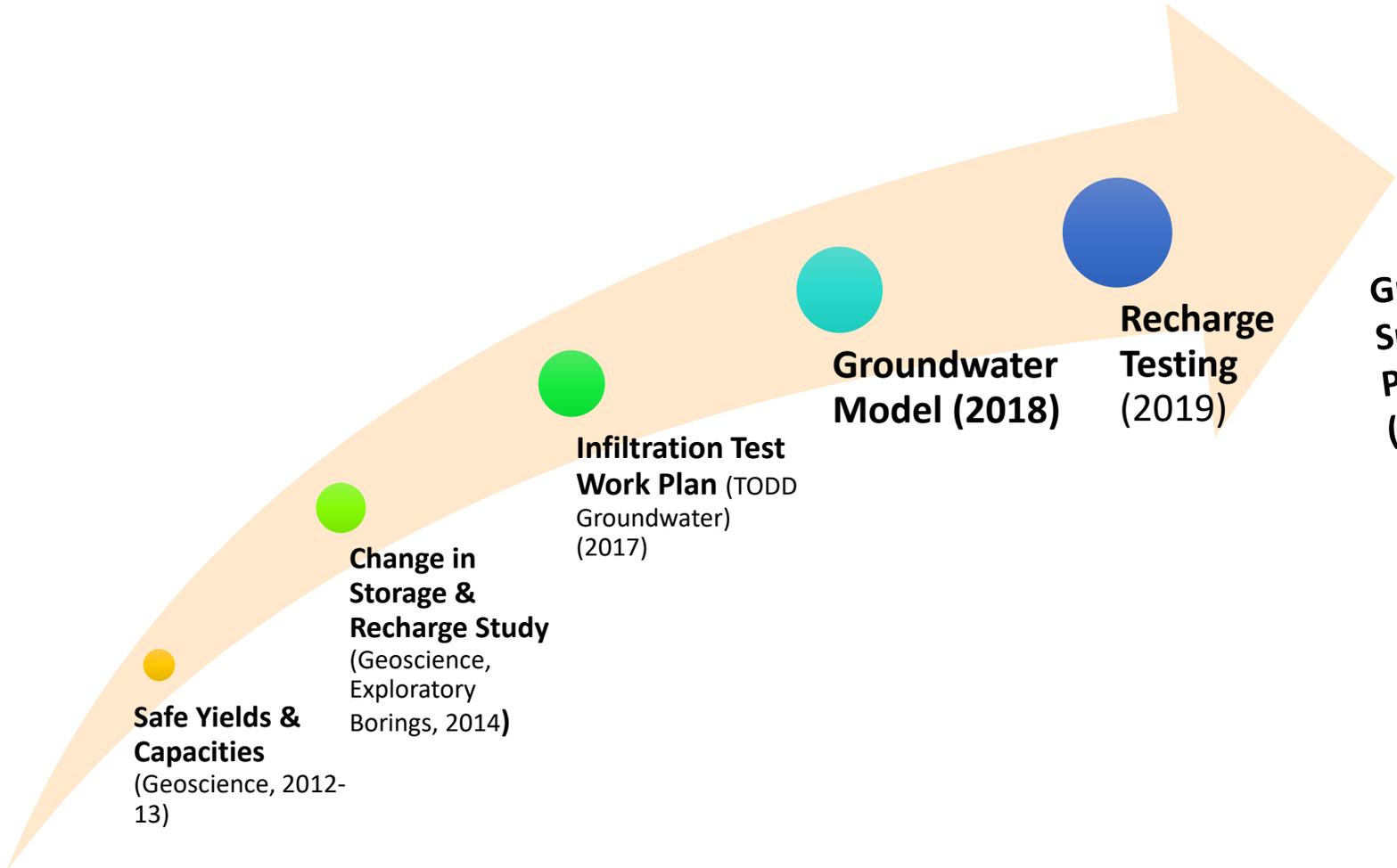
Change in Storage & Recharge Study
(Geoscience, Exploratory Borings, 2014)

Infiltration Test Work Plan (TODD Groundwater)
(2017)

Groundwater Model (2018)

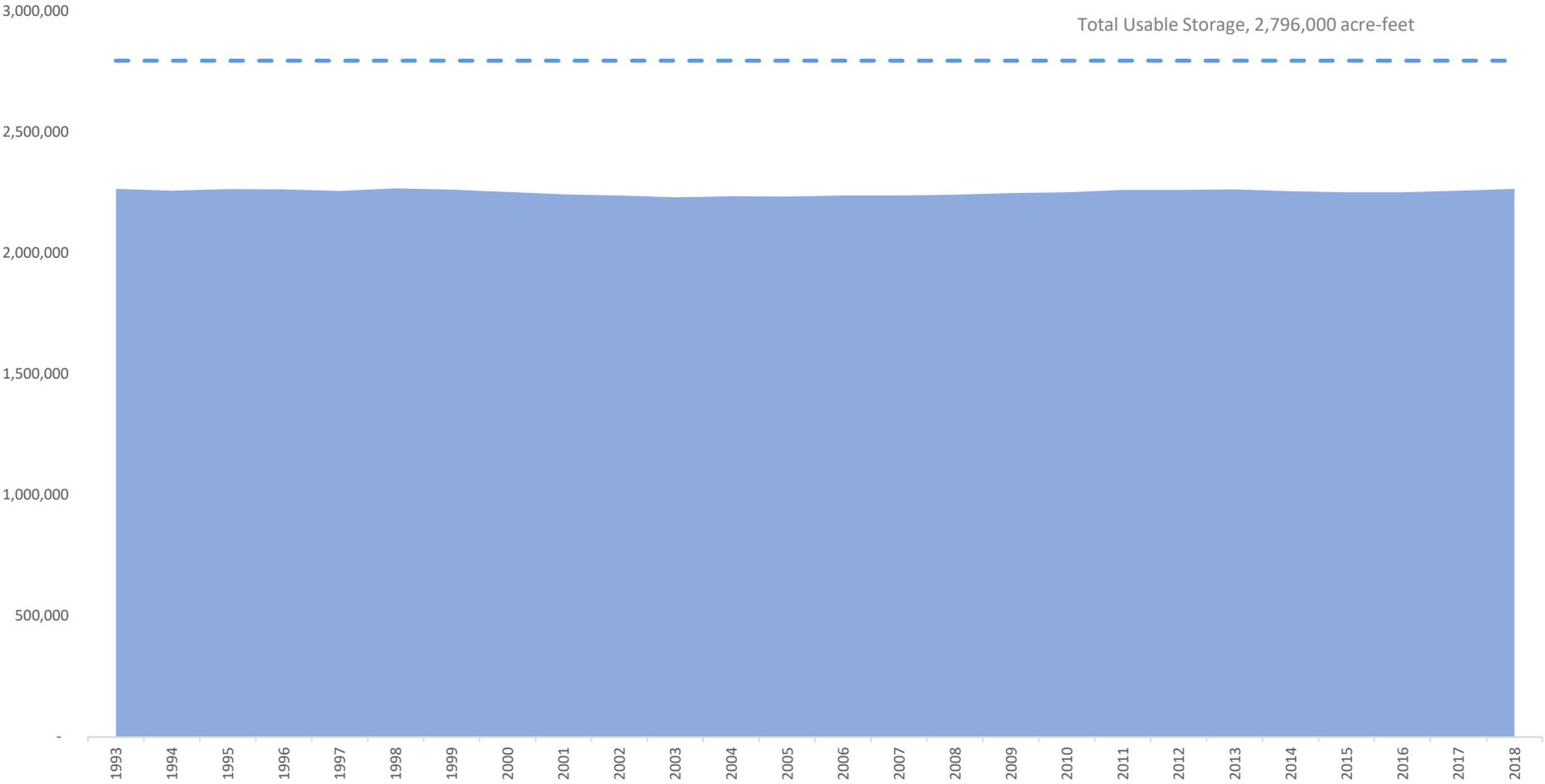
Recharge Testing (2019)

Basin Management Plan
Groundwater Sustainability Plan, GSP (Due 1/31/22)

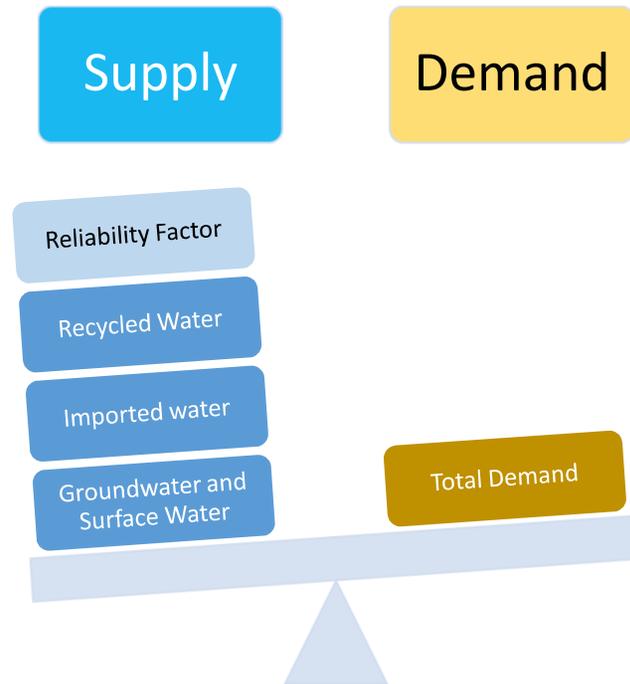


Yucaipa Basin Storage

(in acre-feet)



GSP GOAL - Sustainability



YUCAIPA SGMA

Yucaipa Sustainable Groundwater Management Agency

GSP Requirements under SGMA

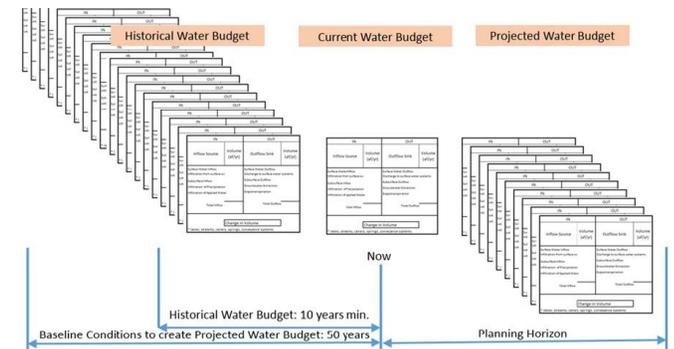
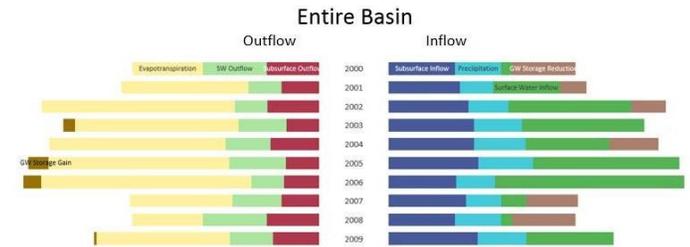
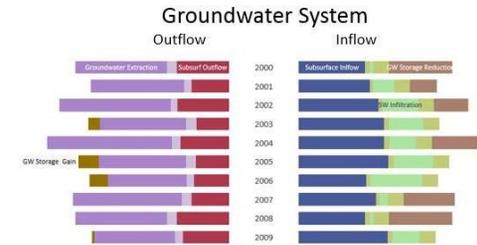
- Show that Basin is Sustainable

- Water Budget

- Past, Present and Future
 - Evaluate Future with Projected Demands + Climate Change
 - Inflows vs. Outflows = Δ in storage
 - Water supply portfolio to meet demands
 - Withdrawal of water for the long-term without causing undesirable results

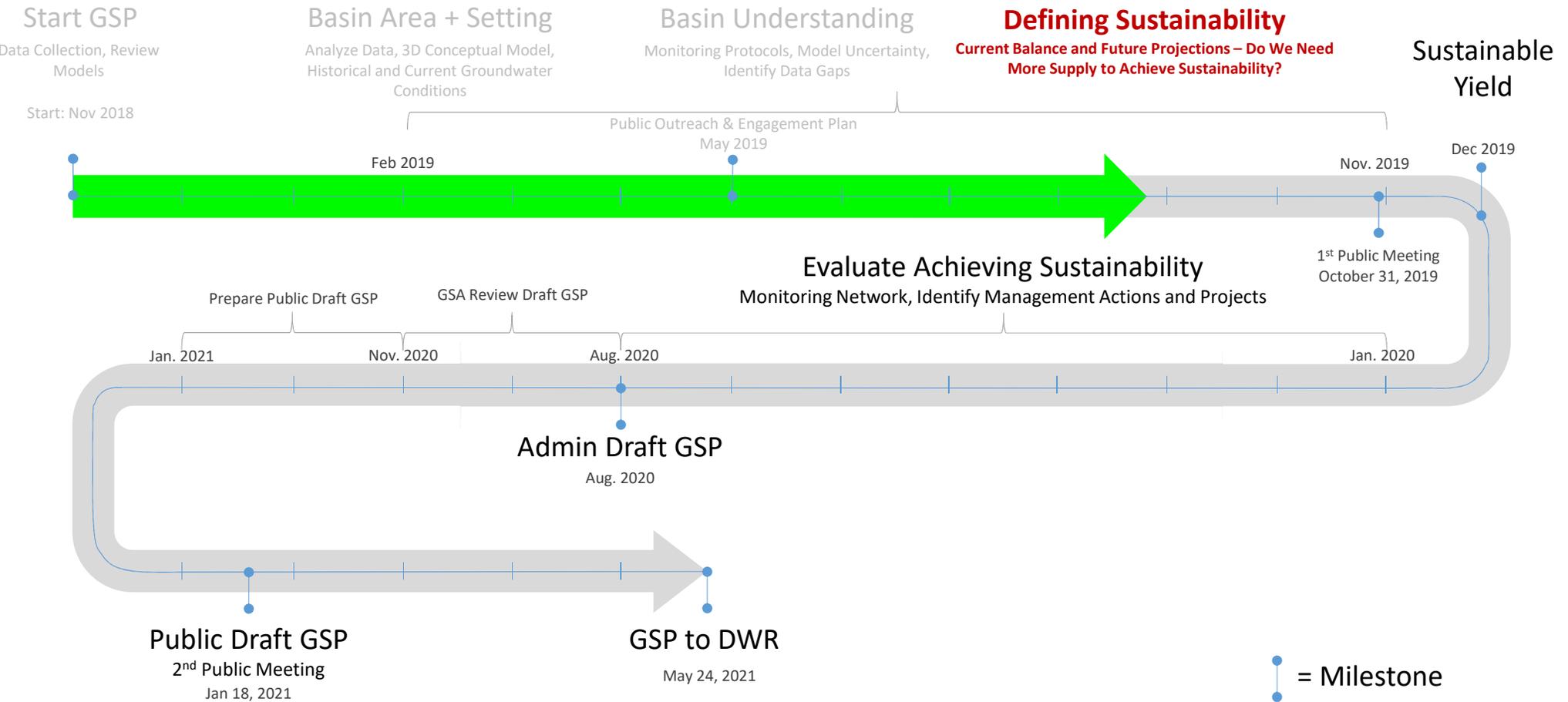
- SGMA Sustainability Indicators:

- ✓ Water levels
 - ✓ Storage
 - ~~✗ Subsidence~~
 - ~~✗ Water quality~~
 - ✓ Groundwater dependent ecosystems
 - ~~✗ Seawater intrusion~~



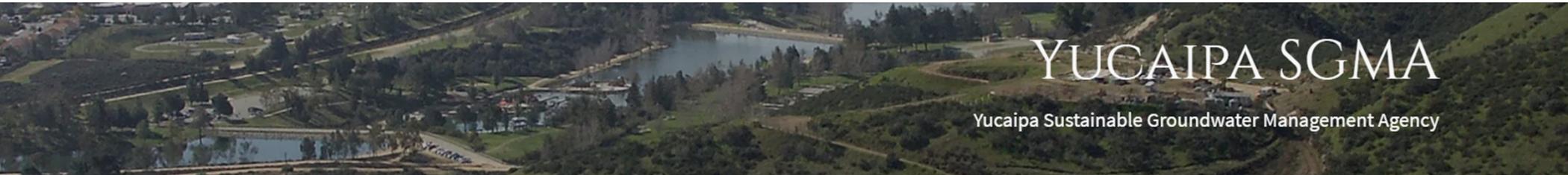
YUCAIPA SGMA
Yucaipa Sustainable Groundwater Management Agency

GSP Road Map



Presentation Outline

- Basin Understanding
 - Data Collection and Management
 - DWR & Stream Flow Gaging Stations (Site visit on Monday)
- Defining Sustainability
 - Water Budget Analysis
 - Estimate of Natural Supply, Safe yield (known)
 - Use numerical model for baseline (1966-2016) and future projections
 - Review of Demand Data to 2070
 - Develop Sustainable Management Criteria (next step)
- Future Projects
 - Information needed to simulate in numerical model
- Budget Update



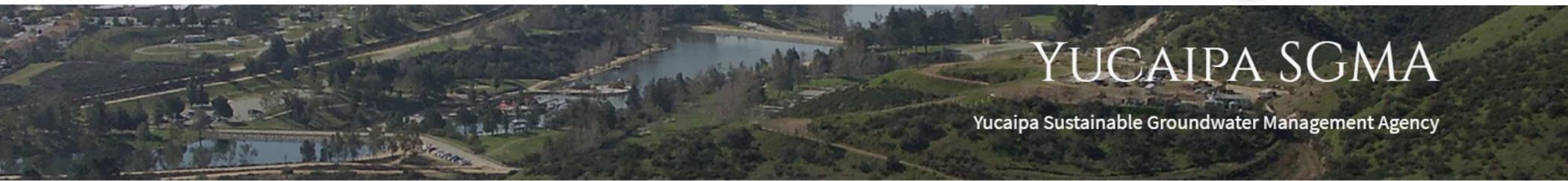
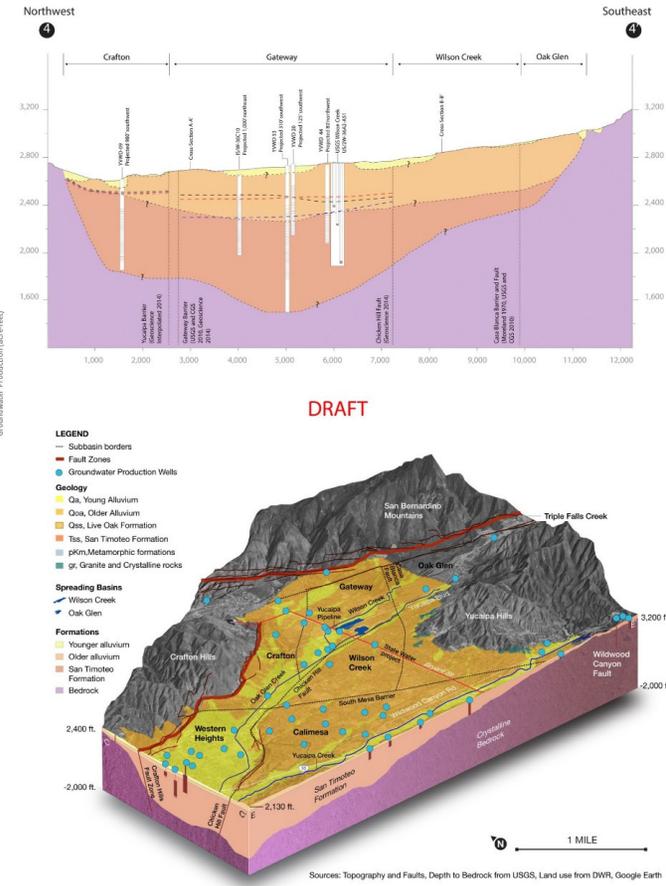
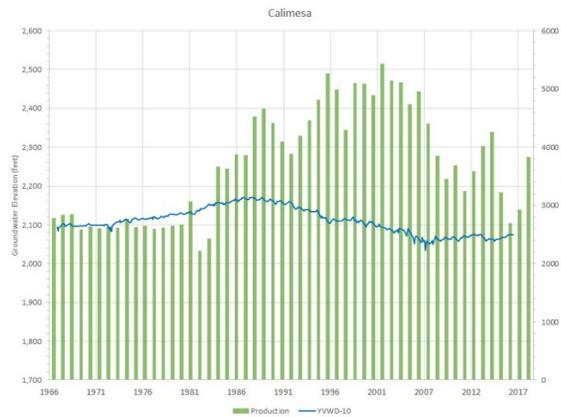
YUCAIPA SGMA

Yucaipa Sustainable Groundwater Management Agency

Data Requirements under SGMA

- Basin Setting
 - Geology and Hydrogeology
 - Historical Data – levels and pumping
 - Conceptual Model

- Monitoring Network and Data Collection



Data Management



Field Collection

- Collect electronically
- Download into DMS



Database Management System (DMS)

- User-friendly
- Host?



DMS Uses

- Tracking
- Flow Model
- CASGEM
- etc.

Data Collection & Management

- Establish a Monitoring Network
 - Wells
 - Stream flow gaging stations
 - Climatic stations
- Develop Monitoring Standards and Protocol for the GSA
 - Uniform and consistent method of collecting and reporting data across the basin by multiple agencies.
 - Allows for direct comparison and evaluation of conditions in the basin.

WATER-LEVEL MEASUREMENT FIELD FORM

Site Information

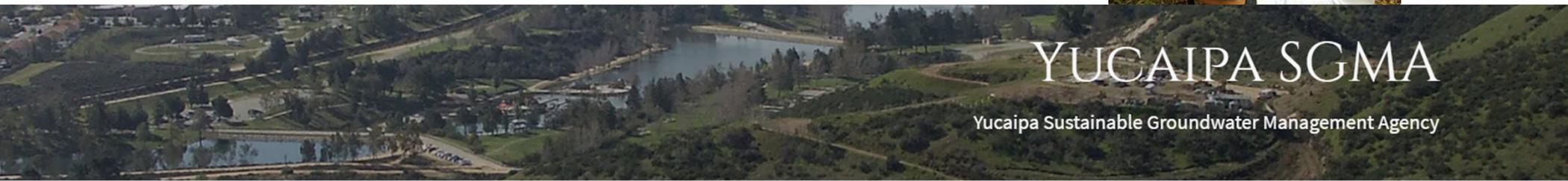
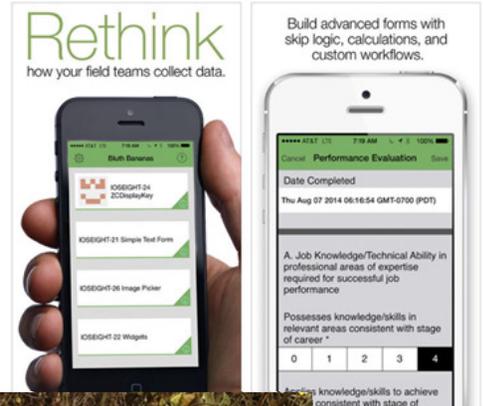
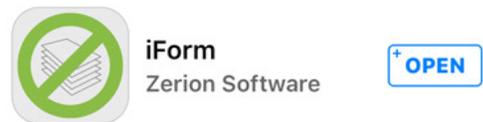
Site ID _____ Equipment ID _____
 Date of Field Visit _____ Monitoring Entity _____

WATER-LEVEL DATA

Time				
Hold				
Tape Correction				
WL below MP				
MP correction				
WL below LSD				

Measured by _____ Comments* _____
*Comments should include quality concerns and changes in: M.P., ownership, access, locks, dogs, measuring problems, et al.

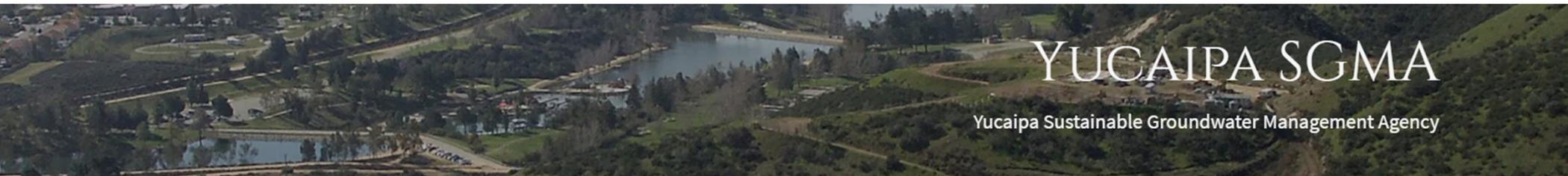
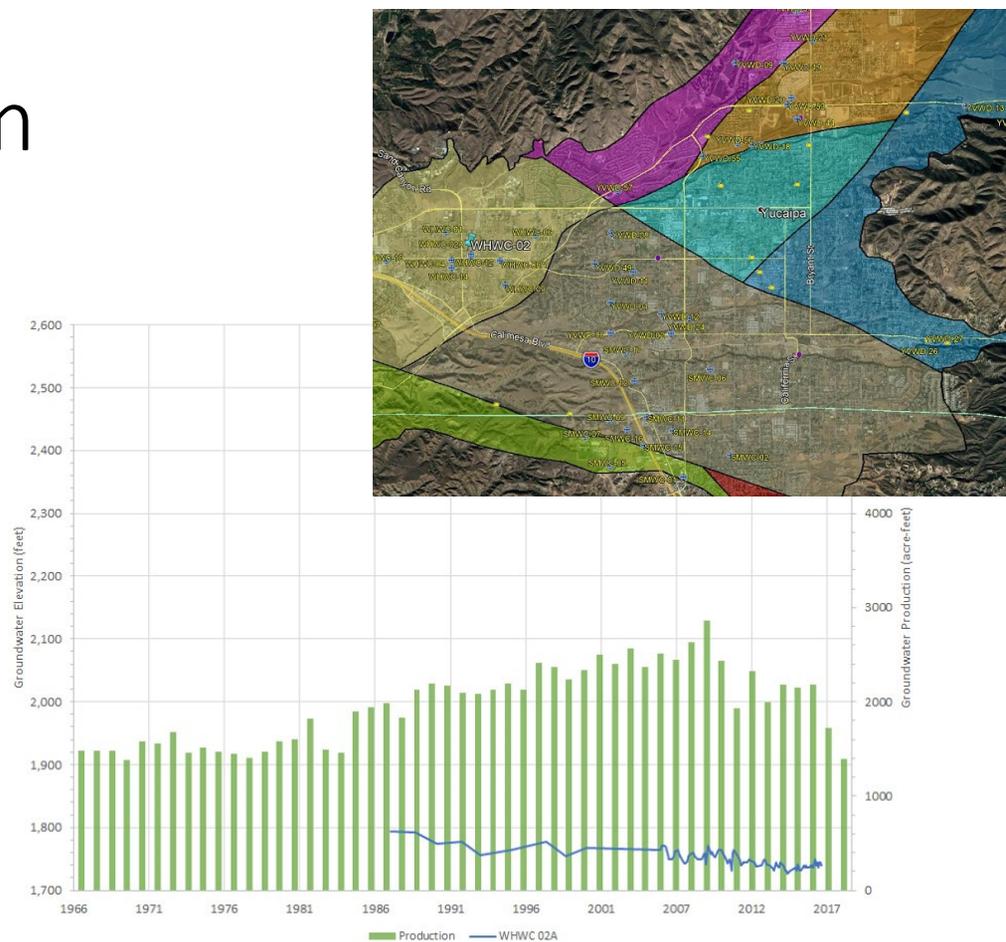
Final Measurement for Maximum Benefit Monitoring Program _____
 Date Water Level Measured (MM/DD/YYYY): _____ Time: _____
 Site Status (see below): _____ Method of Water-Level Measurement: _____



YUCAIPA SGMA
 Yucaipa Sustainable Groundwater Management Agency

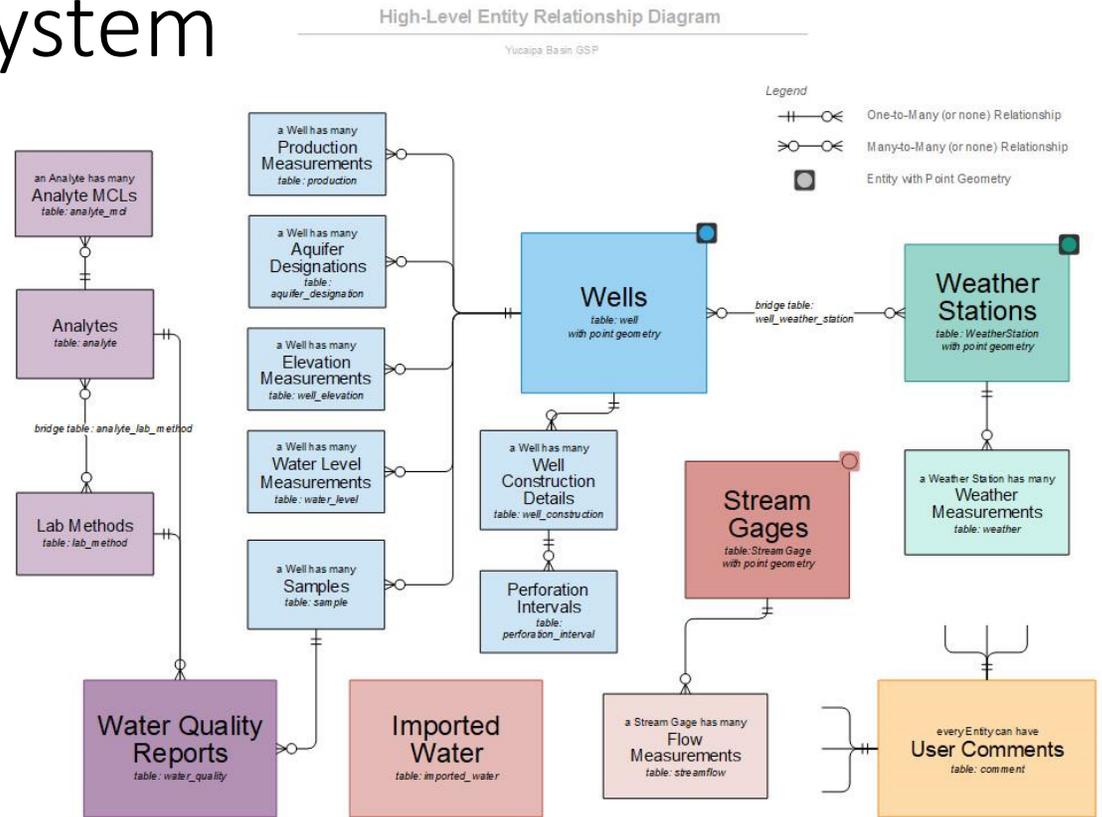
Data Management System

- Digital, GIS-based Centralized Repository for Data
- Accessible to the GSA, but configured with layers of security and accessibility
- Designed to easily incorporate data, past and new
 - Automatically pull data from USGS
 - Upload to CASGEM



Data Management System

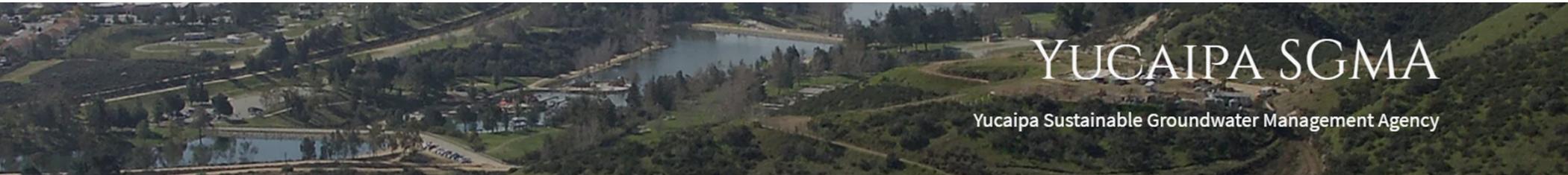
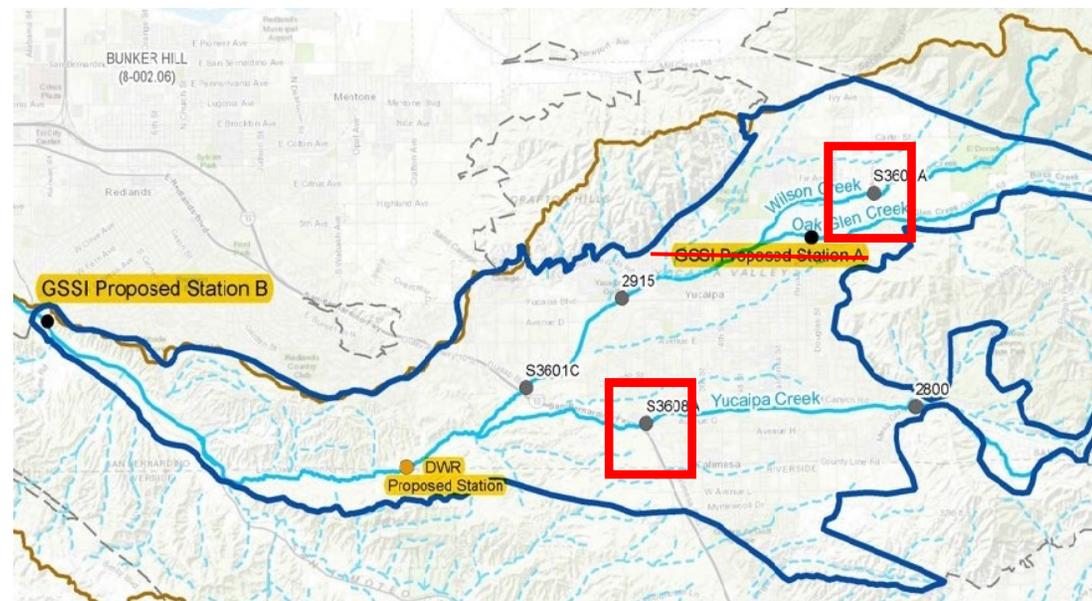
- Next Steps



YUCAIPA SGMA
Yucaipa Sustainable Groundwater Management Agency

Proposed Stream Flow Gaging Site(s)

- DWR has funding available to install gaging stations
- DWR identified a gaging station
- GSP technical team identified two additional gaging stations
- DWR field visit 8/26
 - DWR Proposed Station: in process
 - Proposed Station A: Technically difficult
 - Install new equipment at FCD sites?
 - Proposed Station B: OK



DWR Gage Site







Proposed Station B Gage Site



Proposed Station B Gage Site



Proposed Station A Gage Site



Proposed Station A Gage Site



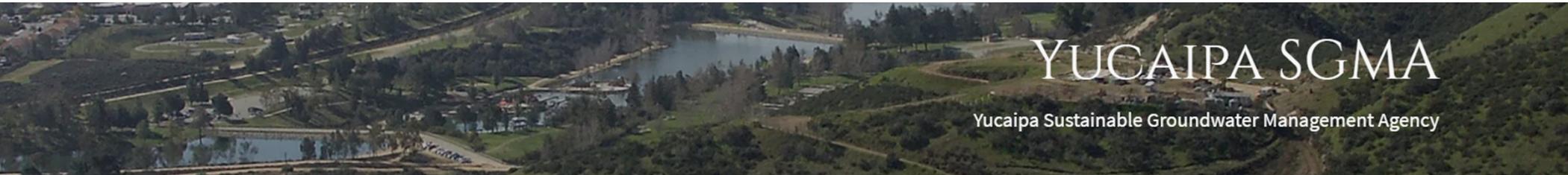
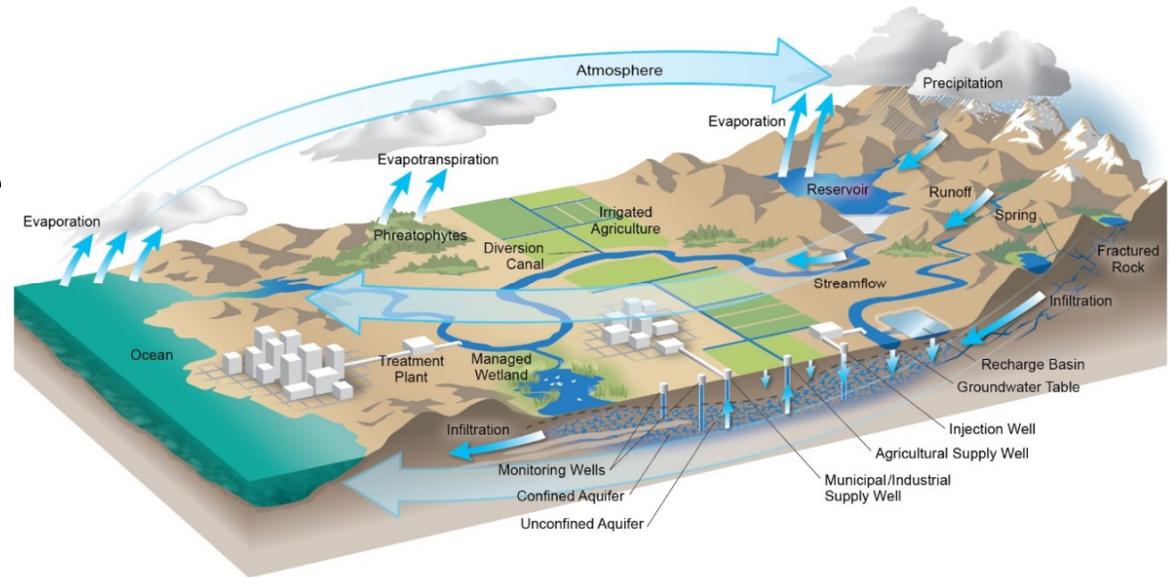


Typical Installation

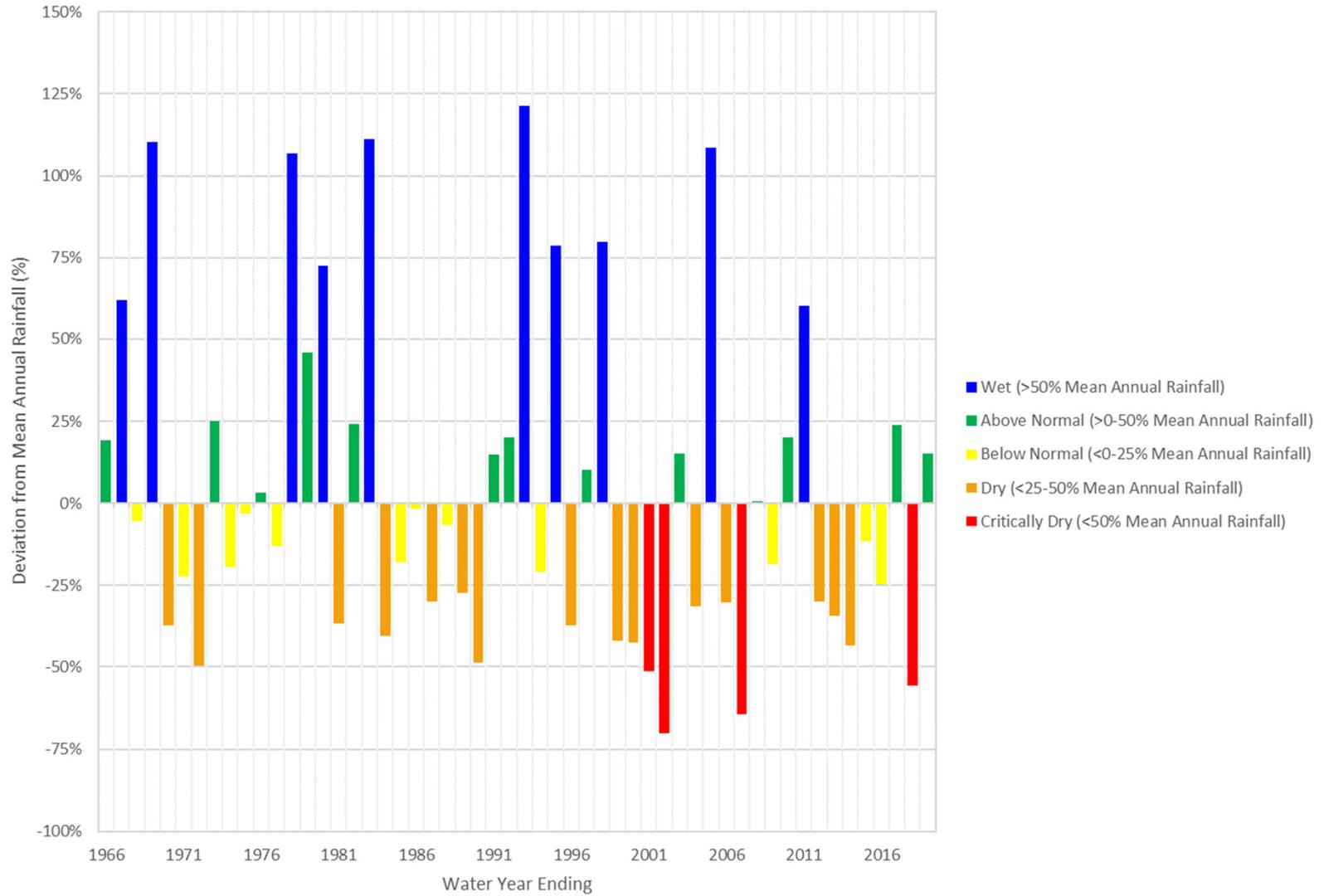


Approach to Water Budget Evaluation

- Annual Accounting of Water in Basin over 50-Year Baseline
 - Water Year (Oct 1 – Sep 30)
 - Accounting by Water Year Type based on Rainfall
 - Wet
 - Above Normal
 - Below Normal
 - Dry
 - Critically Dry



Water Year Type in Yucaipa Basin

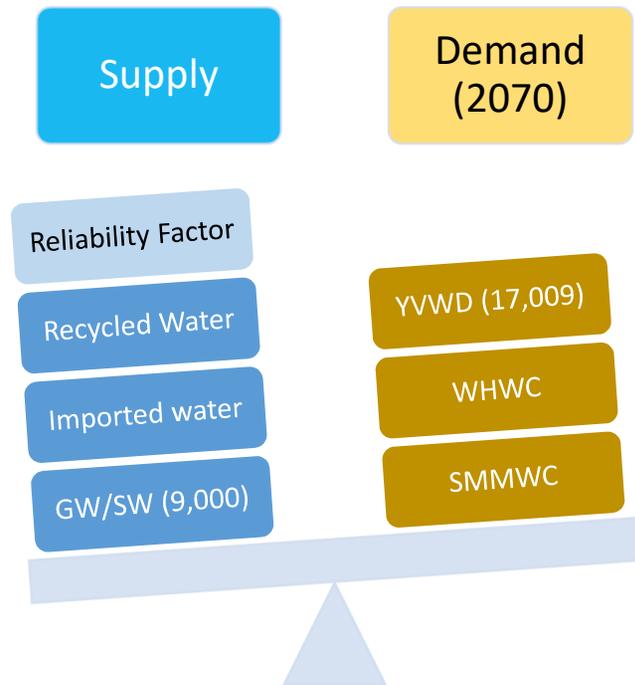


Overall Water Budget (average)

- Supplies
 - Safe Yield: 9,000 AFY
 - Stormwater
 - Imported Water
 - Recycled Water

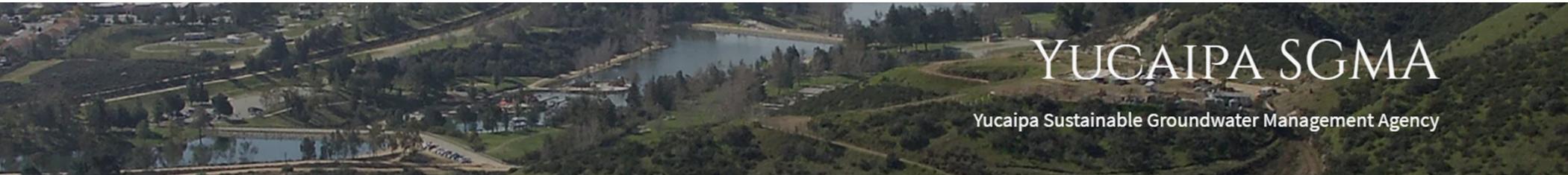
• Demand

Agency	2040	2070
SMMWC		
WHWC		
YVWD	17,009	
Total		



Next Step: Establish Sustainable Management Criteria (Future Meeting)

Criteria	Trigger(s) for Action Step(s)
Storage Levels	
Water Levels	
Water Quality	
Ecosystems	



YUCAIPA SGMA

Yucaipa Sustainable Groundwater Management Agency

Information Required for Evaluating Future Projects

- Projected Monthly Volume of Water to Proposed Project
 - Source of Water?
- Project Location
- Schematic Design
- Proposed Operational Plan



Yucaipa GSP Development (as of 7/26/2019)

