

# Notice and Agenda of a Workshop of the Yucaipa Groundwater Sustainability Agency

Wednesday, February 28, 2018 at 10:00 a.m.

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City of Yucaipa, 34272 Yucaipa Boulevard  
Yucaipa, California 92399  
(909) 797-2489

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- I. Call to Order**
- II. Roll Call**
- III. Public Comments** At this time, members of the public may address the representatives of the Yucaipa Groundwater Sustainability Agency on matters within its jurisdiction.
- IV. Review and Approval of Meeting Minutes**
  - A. Meeting Minutes - January 30, 2018 [[Page 2 of 69](#)]
- V. Discussion Items**
  - A. Overview of the Draft Bylaws of the Yucaipa Groundwater Sustainability Agency - Mark Iverson, Joseph Zoba, and Mike Podegracz [[Page 6 of 69](#)]
  - B. Status Report of the Department of Water Resources Grant Application and Proposed Schedule - Aaron Jones [[Page 22 of 69](#)]
  - C. Review of the Draft Request for Proposals for Consulting Support Services Related to the Preparation of a Groundwater Sustainability Plan - Aaron Jones [[Page 24 of 69](#)]
  - D. Discussion Regarding the Implementation of a Website and Public Outreach Campaign - Ray Casey [[Page 62 of 69](#)]
  - E. Discussion Regarding the Annual Filing of Groundwater Extraction Notices and Distribution of Data for the Yucaipa Basin - Aaron Jones
  - F. Discussion Regarding the Yucaipa Basin Recharge Study Involving Infiltration Testing of Thirteen Sites in the Yucaipa Basin Area - Aaron Jones
  - G. Status of Documentation for the Assignment of a Primary and Alternate Member to the Yucaipa Groundwater Sustainability Agency
- VI. Topics for Future Meetings**
  - A. Presentation of the San Bernardino Groundwater Sustainability Counsel and the San Bernardino Basin Framework Agreement - Bob Tincher
  - B. Discussion Regarding the Methodology for Achieving a Sustainable Groundwater Plan
- VII. Comments by Yucaipa Groundwater Sustainability Agency**
- VIII. Announcements - Future Meetings**
  - A. Wednesday, March 28, 2018 at 10:00 am
  - B. Wednesday, April 25, 2018 at 10:00 am
  - C. Wednesday, May 23, 2018 at 10:00 am
  - D. Wednesday, June 27, 2018 at 10:00 am
  - E. Wednesday, July 25, 2018 at 10:00 am
- IX. Adjournment**

**Review and Approval of Meeting  
Minutes for January 30, 2018**

# MINUTES OF THE YUCAIPA GROUNDWATER SUSTAINABILITY AGENCY

**January 30, 2018 - 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, were in attendance at the meeting:

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

A quorum of the Governing Board of the Yucaipa Groundwater Sustainability Agency was present at the meeting.

Members of the public and other attendees at the meeting included:

- Arron Jones, San Bernardino Valley Municipal Water District
- Bruce Granlund, Board Member, Yucaipa Valley Water District
- Lonni Granlund, Board Member, Yucaipa Valley Water District
- Tom Shalhoub, Board Member, Yucaipa Valley Water District

- III. Public Comments - There were no public comments.
- IV. Review and Approval of Meeting Minutes from December 19, 2017

David Armstrong moved, and Lori Askew seconded a motion to approve the meeting minutes as presented. The motion was approved.

V. Discussion Items

- A. Overview of the Draft Bylaws of the Yucaipa Groundwater Sustainability Agency - Mark Iverson and Joe Zoba

Mark Iverson and Joe Zoba provided an overview of the draft bylaws and draft charter that were distributed at the meeting. The bylaws and charter will be reviewed by GSA participants and comments will be emailed to Joe Zoba and Mark Iverson.

- B. Status Report of the Department of Water Resources Grant Application and Proposed Schedule - Aaron Jones

The Department of Water Resources SGMA grant application was distributed and discussed by Aaron Jones. Aaron Jones will email participants the schedule and draft agency expenses for the 40% grant match.

- C. Status Report of the Filing of a Notice of Intent to Create a Groundwater Sustainability Plan with the Department of Water Resources - Mark Iverson

The Notice of Intent to Create a Groundwater Sustainability Plan was provided to the San Bernardino Valley Municipal Water District for filing with the Department of Water Resources.

Joseph Zoba made a motion that the San Bernardino Valley Municipal Water District maintain sole responsibility to setup, manage, maintain and file documents using the Department of Water Resources online portal. Mark Iverson seconded the motion and discussed the importance of having one entity maintain the portal instead of multiple members. The motion was approved unanimously.

- D. Status Report for the Implementation of a Website, Distribution of Meeting Notifications, and Brown Act Compliance - Ray Casey

Mike Podegracz discussed the need to meet the specific requirements for public outreach with a discussion about the article distributed, *"As California Groundwater Regulation Unfolds, Some Feel Left Out"*.

Following a brief discussion, the Groundwater Sustainability Agency members agreed to perform outreach without a consultant at this time and focus initially on the development of an email distribution list and website. Joseph Zoba offered to initiate the website development in a manner similar to the Beaumont Basin Watermaster. Mike Podegracz agreed to focus on the requirement for additional outreach elements.

- E. Discussion Regarding the Use of Workshops and Meetings for Administrative Proceedings - Ray Casey

Joseph Zoba stated that the use of workshops and regular meetings are included in the Draft Bylaws of the Yucaipa Groundwater Sustainability Agency as Article III. An option was discussed that regular meetings can be conducted quarterly and

workshops would occur more regularly and as needed. This item will be discussed in more detail at the next meeting.

F. Discussion of Recording Roll Call Votes in Meeting Minutes - Joseph Zoba

The members discussed the value of conducting roll call votes to document actions by the Groundwater Sustainability Agency. A motion to utilize roll call votes for future actions was made by Mark Iverson and seconded by Dave Armstrong. The motion was approved unanimously.

G. Discussion Regarding the Time and Date of Recurring Workshops and/or Meetings of the Groundwater Sustainability Agency - Ray Casey

Following a brief discussion, there was a concurrence to conduct regular meetings on the fourth Wednesday of each month at 10 a.m.

VI. Topics for Future Meetings

The group discussed the topics for future meetings and requested the following items be added to the next meeting agenda:

A. Review of Request for Proposals for the Preparation of a Groundwater Sustainability Plan for the Yucaipa Groundwater Sustainability Agency

B. Review of the Draft Request for Proposals for Consulting Support Services as Submitted in the Grant Application by the San Bernardino Valley Municipal Water District

VII. Comments by Members Assigned to the Yucaipa Groundwater Sustainability Agency

Joseph Zoba requested documentation from Groundwater Sustainability Agencies related to the assignment of representatives for each entity.

VIII. Announcements - The next meeting of the Yucaipa Groundwater Sustainability Agency will be held on Wednesday, February 28, 2018 at 10:00 a.m.

IX. Adjournment - The meeting was adjourned at 2:15 p.m.

# **Overview of the Draft Bylaws of the Yucaipa Groundwater Sustainability Agency**

**BYLAWS OF THE  
YUCAIPA GROUNDWATER SUSTAINABILITY AGENCY  
(Department of Water Resources Sub-Basin No. 8-02.07)**

ARTICLE I - NAME, ORGANIZATION, REPRESENTATIVES, PRINCIPAL OFFICE

Section 1.1 Name. The name of this organization is the YUCAIPA GROUNDWATER SUSTAINABILITY AGENCY (hereinafter referred to as the "Yucaipa-GSA").

Section 1.2 Organization. The Yucaipa-GSA was formed by a Memorandum of Agreement in 2017 by and among: South Mesa Water Company, South Mountain Water Company, Western Heights Water Company and Yucaipa Valley Water District, herein collectively referred to as the "Water Purveyors"; and the City of Calimesa, the City of Redlands, and the City of Yucaipa, herein collectively referred to as the "Municipalities"; and the San Bernardino Valley Municipal Water District, and the San Gorgonio Pass Water Agency, herein collectively referred to as the "Regionals." Each of the above-described entities is individually referred to as a "Party" and collectively referred to as the "Parties".

Section 1.3 Representatives. The governing board or each Party shall designate a principal representative and alternative representative for that Party, who may be changed from time to time at the sole discretion of the designating Party. Written confirmation from the governing board shall be provided to the Parties following any change in representation.

Section 1.4 Principal Office. The principal office of the Corporation is hereby fixed and located at the offices of the [NAME], [ADDRESS]. The Parties hereby granted full power and authority to change said principal office from one location to another. Any such change shall be noted by the Secretary but shall not be considered an amendment to these Bylaws.

ARTICLE II - ROLES AND RESPONSIBILITIES

Section 2.1 Sustainable Groundwater Management Act. The Parties agree to jointly implement the Sustainable Groundwater Management Act (“SGMA”), codified in certain provisions of the California Government Code, including commencing with Section 65350.5, and codified in Part 2.74 of Division 6 of the California *Water Code*, commencing with Section 10720, and amending other provisions of the California *Government Code* and California *Water Code*.

Section 2.2 Groundwater Sustainability Plan. Specifically, the Parties agree to develop, implement, and maintain a Groundwater Sustainability Plan (“Plan”) prepared pursuant to the Sustainable Groundwater Management Act (Part 2.74 of Division 6 of the *Water Code*, beginning with Section 10720),

The following general principles shall guide the Parties in the implementation of a Groundwater Sustainability Plan: (a) Adopt a Plan that defines the basin setting and establishes criteria that will maintain or achieve sustainable groundwater management; (b) Monitor and report groundwater conditions to demonstrate that the Plan is achieving the sustainability goal for the basin; (c) Document the effect of the implementation of the Plan on adjacent basins; (d) Modify the Plan as needed, and report on a substantial compliance to the California Department of Water Resources; (e) Establish and report sustainable management criteria, projects, and management actions; and (f) Justify that the Plan provides a sustainably managed basin for 20 years following Plan implementation without adversely affecting the ability of an adjacent basin to achieve and maintain its sustainability goal.

ARTICLE III - MEETINGS

Section 3.1 Regular Meetings. The Parties shall hold regular quarterly meetings for the purpose of routine business matters. The Parties by resolution may fix the time, date, and place of holding such meetings.



Section 3.2 Workshops and Special Meetings. The Parties may hold workshops and special meetings. The Parties by resolution may fix the time, date, and place of holding such meetings.

**Commented [Office1]:** Would the Board want the flexibility to hold a Special Meeting at any time and place at the direction of a majority of the Board, or by just the President and Vice-President? If so, then you might want to include a separate Section stating such.

Section 3.3 Voting Methodology. The voting structure for matters pertaining to the establishment and implementation of the administrative components of the YUCAIPA-GSA shall be by simple majority (51%) of the voting Parties, wherein each WATER PURVEYOR, MUNICIPALITY and REGIONAL holds a single vote. A WATER PURVEYOR that has sole responsibility for groundwater production and management for a DWR-recognized sub-basin shall have the power to continue exercising responsibilities related to the planning, implementation and on-going financing of facilities related to groundwater production and management of that DWR recognized sub-basin; providing that it is exercised in accordance with state recognized "best management practices" and subject to the provisions of the GSP established for the Basin; and further provided that the exercise of the responsibilities of the sole WATER PURVEYOR can be vetoed by a majority vote of the remaining WATER PURVEYORS and MUNICIPALITIES.

**Commented [Office2]:** This language was originally proposed, however, is not in the approved MOU. The Board should discuss its inclusion.

Section 3.4 Fees and Compensation. Representatives from each Party shall receive no compensation or expenses from the Yucaipa-GSA.

Section 3.5 Ralph M. Brown Act. Notwithstanding any of the provisions of these Bylaws to the contrary, all meetings shall be subject to the Ralph M. Brown Act, commencing at Section 54950 of the Government Code of the State of California.

Section 3.6 Conduct of Meetings. The President or, in the absence of the President, the Vice President, or, in the absence of the Vice President, a Chairperson chosen by a majority of the Parties present, shall preside.

Section 3.13 Quorum. A majority of the Parties constitutes a quorum for the transaction of business.

ARTICLE IV - OFFICERS

Section 4.1 Officers. The officers of the Yucaipa-GSA shall be a President, a Vice President, a Secretary, a Treasurer.

Section 4.2 Election. The Board of Directors shall elect, from its members, officers who shall be chosen at the first Regular Meeting held each calendar year and each shall hold office until the officer shall resign, be removed, or be otherwise disqualified to serve, or the officer's successor shall be elected and qualified.

Section 4.3 Removal and Resignation. Any officer may resign, or may be removed, with or without cause, at any time. Vacancies caused by death, resignation or removal of any officer may be filled by appointment by the Parties.

Section 4.4 President. The President shall preside at all meetings of the Parties shall appoint each committee, and perform all duties necessary or incidental to the office.

Section 4.5 Vice President. In the absence of the President, the Vice President shall perform all the duties of the President.

Section 4.6 Secretary. The Secretary shall keep a book of minutes of all meetings, with the time and place of holding, the names of those present, and actions taken by the Parties.

Section 4.7 Treasurer. The Treasurer shall keep and maintain adequate and correct books of account showing the receipts and disbursements of the Yucaipa-GSA, and an account of its cash and other assets, if any. Such books of account shall at all reasonable times be open to inspection by any Director.

The Treasurer shall deposit all moneys of the Yucaipa-GSA with such depositories as are designated by the Parties, and shall disburse the funds of the Yucaipa-GSA as may be ordered, and shall render to the Parties, regular statements of the financial condition of the Yucaipa-GSA.

ARTICLE V - MISCELLANEOUS

Section 5.1 Execution of Documents. The Parties may authorize any officer or officers as agent or agents, to enter into any contract or execute any instrument in the name of and on behalf of the Yucaipa-GSA and such authority may be general or confined to specific instances; and unless so authorized, no officer, agent or other person shall have any power or authority to bind the Yucaipa-GSA by any contract or engagement or to pledge its credit or to render it liable for any purpose or to any amount.

Section 5.2 Inspection of Bylaws. The Yucaipa-GSA shall keep in its principal office the original or a copy of these Bylaws, as amended or otherwise altered to date, certified by the Secretary, which shall be open to inspection by members of the public at all reasonable times during office hours.

Section 5.3 Fiscal Year. The fiscal year of the Yucaipa-GSA shall begin July 1 of each year and end on the last day of June of the succeeding year.

Section 5.4 Construction and Definitions. Unless the context otherwise requires, the general provisions, rules of construction and definitions contained in the Law shall govern the construction of these Bylaws. If any section, subsection, sentence, clause or phrase of these Bylaws, or the application thereof, is contrary to the Law, the provisions of the Law shall prevail. Without limiting the generality of the foregoing, the masculine gender includes the feminine and neuter, the singular number includes the plural and the plural number includes the singular, and the term "person" includes a corporation as well as a natural person.

Section 5.5 Amendments. New Bylaws may be adopted, or these Bylaws may be amended or repealed by the vote of the Parties. No amendment to these Bylaws shall be effective until approved by the Parties.

Section 5.6 Committees. Committees shall perform such duties as shall be prescribed at the time of the creation or from time to time by the Board or President.

Version History:

- Original Bylaws: Adopted on \_\_\_\_\_.

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**CHARTER**  
**for the Yucaipa Basin Groundwater Sustainability Agency**

**Purpose and Goals**

The purpose of the Yucaipa Basin Groundwater Sustainability Agency (GSA) is to fulfill the requirements of the Sustainable Groundwater Management Act (SGMA). All recommendations will be reviewed and vetted between meetings by member organizations’ boards and constituencies. The purpose of this charter is to :

- Develop a common understanding of the authority and responsibility of GSA in the Yucaipa Basin.
- Share information, ideas, and concerns pertaining to the SGMA process in the Yucaipa Basin.
- Solicit and respond to input from both agency boards and public stakeholder groups.
- Provide the necessary funding and technical resources in order to develop the Groundwater Sustainability Plan (GSP).
- Provide a forum for the deliberation of technical data about the groundwater basin and frame agreements about the sustainable operation of the Groundwater basin.

**Membership**

The GSA Board of Directors is structured to include representatives from GSA-eligible agencies of the Yucaipa Basin , as defined by state-administered maps, as well as representatives from a limited number of stakeholder groups that the board may choose to include. For size management, only one representative per GSA-eligible agency may actively participate in each meeting. The Board of Directors will be most effective where the same participant attends all meetings, however, each agency can nominate an alternate to fill in as necessary. Alternates are expected to be fully briefed and able to represent the member during decision-making. Invited membership includes one representative from the following GSA-eligible agencies:

<b>AGENCY</b>	<b>REPRESENTATIVE</b>	<b>ALTERNATE(S)</b>
<i>PURVEYORS</i>		
South Mesa Water Company	Dave Armstrong, General Manager (Vice President)	Adan Ortega, Advisor to South Mesa
South Mountain Water Company	Cecilia Griego, Water Resources Specialist	
Western Heights Water Company	Mark Iverson, General Manager (President)	Robert Zappia, Board Chair Timothy Green, Board Member
Yucaipa Valley Water District	Joseph Zoba, General Manager (Secretary)	Jennifer Ares, Water Resource Manager
<i>MUNICIPALS</i>		
Calimesa, City of	Bonnie Johnson, City Manager	Lori Askew, Public Works Director
Redlands, City of	Cecilia Griego, Water Resources Specialist	

Yucaipa, City of	Ray Casey, City Manager	Fermin Preciado, City Engineer
<i>REGIONALS</i>		
San Bernardino Valley Municipal Water District	Douglas Headrick, General Manager & Chief Engineer (Treasurer)	
San Gorgonio Pass Water Agency	Jeff Davis, General Manager & Chief Engineer	
<i>COUNTIES</i>		
Riverside, County of	Steve Horn, Senior Management Analyst	
San Bernardino, County of	Bob Page, Principal Management Analyst	

## **Roles and Responsibilities**

### ***Administration***

The President of the Board of Directors will provide administrative support to The Board of Directors until and unless the Board of Directors chooses otherwise. The administrative role is to support the collaborative interagency process in creating a GSP and does not presume to have any governance authority over the GSA itself.

### ***Facilitation***

The Board of Directors will be facilitated by the President. The President will remain impartial toward the content of the issues under discussion. The President will work with all the parties to ensure the process is credible, fair, and effective and will:

- Chair meetings of The Board of Directors.
- In consultation with the staff, formulate the agenda and desired outcomes for the sessions, including developing a meeting work plan.
- Identify and synthesize points of agreement and disagreement.
- Assist in building consensus among participants.
- Work with members to ensure process and participation agreements are followed.
- Assure a fair, effective, and credible process, but remain impartial with respect to the outcome of the deliberations.

### ***Sub-Committees***

In lieu of Sub-Committees, The Board of Directors may identify individual members to take the lead in develop options for The Board of Directors to contemplate and refine. Individual members will be assigned a particular task and are encouraged to engage assistance from other members, Member organization staff and stakeholders with related expertise.

Individuals or Sub-Committees could be assigned to draft develop a Request for Proposal for needed Consultant support, develop a communication and engagement plan, etc. A Technical Sub-Committee will advise on development of the groundwater sustainability plan.

### *Communication & Media*

The President will serve as primary contacts for all GSA communication, outreach and media. Whenever possible official announcements will be reviewed and approved by The Board of Directors in advance of media communications.

GSA Board of Directors reserve freedom to express their own opinions to media representatives, but not the opinions of others. The temptation to discuss someone else's statements or position should be avoided. Participants can refer media inquiries to other members for individual comments.

If contacted by the press or an external party concerning the discussions, participants are asked to:

- Point out that they are not speaking on behalf of the Board of Directors unless specifically authorized by the Board to do so.
- Present their views only and conscientiously refrain from expressing, characterizing, or judging the views of others.
- Avoid using the press as a vehicle for negotiation.

### **Brown Act, Open Process and Conflicts of Interest**

GSA meetings are subject to the Brown Act. All meetings of The Board of Directors are open to the public. The Board of Directors shall adopt a schedule and location for regular meetings, and meeting agendas shall be posted in compliance with the Brown Act.

### **Meeting Ground Rules**

The Board of Directors will use the following standing ground rules to establish a productive protocol for meetings and may modify them as appropriate.

- **Be Present:** Give each other the gift of our time (cell phones off).
- **Listen Openly:** Practice patience, attention, and respect for different views.
- **Speak Courteously:** Share your views candidly, define key terms, and share the floor generously.
- **Suspend Certainty:** Be curious about new information, approaches, and opinions.
- **Represent your Agency and/or Constituency Interests:** As representatives of a larger stakeholder group, members agree to:
  - a) consider these group interests over individual interests at all points in the deliberation process and
  - b) act as liaisons with these groups and their Elected Bodies to share updates on and solicit input into deliberations and recommendations.

### **Organizational Procedures**

Robert's Rules of Order govern the operation of The Board of Directors. In all cases not

covered by this Charter The Board of Directors may formulate specific procedural rules of order to govern the conduct of its meeting.

Any voting is on the basis of one vote per member agency. No proxy or absentee voting is permitted.

**Decision-Making**

The Board of Directors is a working group tasked to develop recommendations regarding the GSP for the Yucaipa Basin, for consideration by all member agency boards as well as vetting through a formal public input process. In the development of the recommendations, The Board of Directors will strive for consensus (agreement among all participants) in decision-making. **Consensus here means that all group members either fully support or can live with the decision or overall recommendations and believe that their agencies and organizations can as well.**

In reaching consensus, it is useful to refer to the Gradients of Agreement below. This scale makes it easier for participants to be honest and register less-than-whole-hearted support without fearing that their statement will be interpreted as a veto. When differences of opinion exist after extensive discussion, a straw poll will be taken using the Gradients of Agreement. Unless a member votes to reject (level 6), the proposal will move forward.

1	2	3	4	5	6
Fully endorse!	Endorsement with minor issues	Conditional agreement	Stand Aside /Abstain /Neutral	Disagreement	Reject
I strongly support the proposal.	I generally like it. Proceed with my support.	I can support if some steps are taken now or in the future.	I neither support nor reject the proposal – Proceed.	I don't agree with the proposal in its current form but will not reject it outright.	I cannot support the proposal at all.

In the event a member cannot support the proposal and votes to reject, members will decide on the appropriate next course of action together for the decision at hand.

**Member Agreements**

The Board of Directors represents a first step in an ongoing collaborative effort toward SGMA compliance within the Yucaipa Basin. Staff participation in The Board of Directors is part of a good faith commitment founded on the following core agreements:



1. **Collaboration:** The Members agree to work collaboratively towards SGMA compliance within the Yucaipa Basin and to build upon existing frameworks, cooperation, and successful water management efforts in San Bernardino County.
2. **Input:** Staff representatives will provide key recommendations to the Board of Directors from their respective boards for review and, where appropriate, approval.
3. **Stakeholder engagement:** The Members recognize that meaningful stakeholder engagement is essential to the GSP planning process to engage public input and will work to ensure fair representation of diverse interests in the process. The Members will work collaboratively with community groups, individuals, and stakeholders to develop a plan structure to manage groundwater in the Basin and comply with SGMA. The Members will seek to institutionalize stakeholder engagement in the governance structure and will ensure regular, productive communication between the Members, stakeholders, and stakeholder representatives.
4. **Coordinated and collaborative data management:** The Members acknowledge that transparency and data sharing are fundamental components of effective resource management collaboration. The Members will identify opportunities to enhance data management and sharing across jurisdictional and organizational boundaries. With appropriate exceptions for confidential data, the Members will make data accessible and shareable in order to enhance collaboration among different organizations and stakeholders, increase the effectiveness of management decisions, and reduce disputes.
5. **Term:** The Members have entered into this Charter voluntarily. This Charter may not be modified except by mutual consent of authorized officials from the Members, using the decision-making procedure identified above. This Charter shall become effective upon signature by the authorized officials from the Members and will remain in effect until the GSP is approved by DWR.
6. **Good faith efforts:** Each Member shall use its best efforts and work wholeheartedly and in good faith for the expeditious completion of the objectives of The Board of Directors and the satisfactory performance of the terms and provisions contained herein.

## **Appendix A – Context for Implementation of the Sustainable Groundwater Management Act in the Yucaipa Basin**

In California, overlying landowners generally have the right to extract and use groundwater. Prior to the Sustainable Groundwater Management Act (SGMA), unless a basin was adjudicated by a Court or Settlement Agreement, a property owner's right to pump and extract groundwater was limited only by the availability of groundwater, the rights of the basin's other groundwater users, and the Constitutional requirement that requires all use of water be "reasonable and beneficial." In some California groundwater basins, unlimited pumping led to over drafting and its associated negative impacts. In 2014, prolonged drought and heightened public awareness of groundwater over drafting created the conditions that lead to the passage of SGMA.

With its passage in the California Legislature and signing into law by Governor Brown, the SGMA will change many conditions and requirements under which all groundwater resources are currently managed within the Yucaipa basin. A foundational tenet of the SGMA is to maintain existing local control of groundwater management, provided groundwater is managed in a sustainable manner, as outlined in the SGMA (see Appendix B for SGMA Tenets).

The SGMA requires certain deadlines be met by local agencies within the Yucaipa Basin in order to avoid intervention of local groundwater management by the State Water Resources Control Board (State Water Board). Entities in the Yucaipa Basin successfully met the deadline for formation of a GSA on June 30, 2017.

The second deadline for local agencies requires a Groundwater Sustainability Plan (GSP) to be developed to achieve groundwater sustainability within the Yucaipa Basin and submitted to DWR by January 31, 2022. The entire Yucaipa Basin must be the GSP. In order to craft a GSP that meets the requirements of SGMA, a GSA must essentially determine the allowable extraction from a basin such that the basin remains in a state of sustainability. Although SGMA does not change existing rights to use groundwater, it does provide authority to GSAs to limit extractions in order to achieve sustainability. The GSA will ultimately determine whether any changes to current management practices in the Yucaipa Basin are required.

## Appendix B – SGMA Tenets

The Legislature finds and declares as follows:

- 1) The people of the state have a primary interest in the protection, management, and reasonable beneficial use of the water resources of the state, both surface and underground, and that the integrated management of the state's water resources is essential to meeting its water management goals.
- 2) Groundwater provides a significant portion of California's water supply. Groundwater accounts for more than one-third of the water used by Californians in an average year and more than one-half of the water used by Californians in a drought year when other sources are unavailable.
- 3) Excessive groundwater extraction can cause overdraft, failed wells, deteriorated water quality, environmental damage, and irreversible land subsidence that damages infrastructure and diminishes the capacity of aquifers to store water for the future.
- 4) When properly managed, groundwater resources will help protect communities, farms, and the environment against prolonged dry periods and climate change, preserving water supplies for existing and potential beneficial use.
- 5) Failure to manage groundwater to prevent long-term overdraft infringes on groundwater rights.
- 6) Groundwater resources are most effectively managed as the local or regional level.
- 7) Groundwater management will not be effective unless local actions to sustainably manage groundwater basins and subbasins are taken.
- 8) Local and regional agencies need to have the necessary support and authority to manage groundwater sustainably.
- 9) In those circumstances where a local groundwater management agency is not managing its groundwater sustainably, the state needs to protect the resources until it is determined that a local groundwater management agency can sustainably manage the groundwater basin or subbasin.
- 10) Information on the amount of groundwater extraction, natural and artificial recharge, and groundwater evaluations are critical for effective management of groundwater.

- 11) Sustainable groundwater management in California depends upon creating more opportunities for robust conjunctive management of surface water and groundwater resource. Climate change will intensify the need to recalibrate and reconcile surface water and groundwater management strategies.
- 12) Sustainability groundwater management is part of implementation of the California Water Action Plan.

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It is, therefore, the intent of the Legislature to do all of the following:

- 1) To provide local and regional agencies the authority to sustainably manage groundwater.
- 2) To provide that if no local groundwater agency or agencies provide sustainable groundwater management for a groundwater basin or subbasin, the state had the authority to develop and implement an interim plan until the time the local groundwater sustainability agency or agencies can assume management of the basin or subbasin.
- 3) To require the development and reporting of those data necessary to support sustainable groundwater management, including those data that help describe the basin geology, the short- and long-term trends of the basin's water balance, and other measures of sustainability and those data necessary to resolve disputes regarding sustainable yield, beneficial uses, and water rights.
- 4) To respect overlying and other proprietary rights to groundwater, consistent with Section 1200 of the Water Code.
- 5) To recognize and preserve the authority of cities and counties to manage groundwater pursuant to their police powers.

**Status Report of the Department  
of Water Resources Grant  
Application and Proposed  
Schedule**

**Draft Funding Recommendations**  
**2017 Groundwater Sustainability Plans and Projects Solicitation**  
February 2018

Note	Cat. 1 Map ID	Applicant Name	Application Title	Application Score (Cat 1/Cat2)	Category 1		Category 2		Total Recommended Funding	Total Cost of Proposal
					Grant Request	Recommended Funding <sup>A</sup>	Grant Request	Recommended Funding		
		Arroyo Santa Rosa Basin Groundwater Sustainability Agency	Arroyo Santa Rosa Basin Groundwater Sustainability Plan	- / 15	\$ -	\$ -	\$ 177,081	\$ 177,081	\$ 177,081	\$ 354,162
B	20	Asian Business Institute Resource Center	Southeast Asian Groundwater and Sustainability Advocacy and Outreach Program	3 / -	\$ 1,000,000	\$ 400,000	\$ -	\$ -	\$ 400,000	\$ 1,100,000
		Atascadero Mutual Water Co.	2017 Atascadero Basin Sustainable Groundwater Proposal	- / 19	\$ -	\$ -	\$ 809,250	\$ 809,250	\$ 809,250	\$ 1,660,008
		Bear Valley Basin Groundwater Sustainability Agency	Bear Valley Basin Groundwater Sustainability Plan	- / 16	\$ -	\$ -	\$ 177,000	\$ 177,000	\$ 177,000	\$ 177,000
		Bedford-Coldwater Sub-basin Groundwater Sustainability Agency	Bedford-Coldwater Sub-basin Groundwater Sustainability Plan Proposal	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,040,000
18		Big Bear Lake Department of Water and Power	Basin Resiliency Sawmill Well Pumping Plant Project	7 / -	\$ 782,298	\$ 782,298	\$ -	\$ -	\$ 782,298	\$ 782,298
9		Biola Community Services District	Biola Groundwater Recharge Project	11 / -	\$ 705,000	\$ 705,000	\$ -	\$ -	\$ 705,000	\$ 705,000
		Butte County Department of Water and Resource Conservation	Groundwater Sustainability Plan Development for the Vina, East Butte, West Butte and Wyandotte Creek Subbasins	- / 19	\$ -	\$ -	\$ 1,498,800	\$ 1,498,800	\$ 1,498,800	\$ 1,989,683
		Castaic Lake Water Agency	Santa Clarita Valley Groundwater Sustainability Agency 2017 Sustainable Groundwater Planning Grant Program Category 2 Proposal	- / 18	\$ -	\$ -	\$ 416,106	\$ 416,106	\$ 416,106	\$ 858,075
		City of Brentwood	Tracy Subbasin Groundwater Sustainability Plan Development Prop 1 Proposal	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,598,530
		City of Corona	Sustainable Groundwater Planning Grant For the City of Corona Temescal Subbasin	- / 18	\$ -	\$ -	\$ 732,338	\$ 732,338	\$ 732,338	\$ 983,977
		City of Modesto	Sustainable Groundwater Planning Grant for the Modesto Groundwater Subbasin	- / 18	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,668,090
C		City of Paso Robles	Paso Robles Basin Groundwater Sustainability Plan Development	- / 16	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 3,068,242
		City of Redding	Elsinore Valley Groundwater Sustainability Agency Groundwater Sustainability Planning Grant Proposal	- / 16	\$ -	\$ -	\$ 983,230	\$ 983,230	\$ 983,230	\$ 1,161,590
		City of San Diego - Public Utilities Department	Groundwater Sustainability Plan for the San Pasqual Valley Groundwater Basin	- / 18	\$ -	\$ -	\$ 989,550	\$ 989,550	\$ 989,550	\$ 1,979,100
		Colusa Groundwater Authority	Colusa Subbasin Groundwater Sustainability Plan Development	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,497,400
10		Community Water Center	Facilitate Participation of Severely Disadvantaged Community Stakeholders In The Tulare Lake Basin And Develop A Drinking Water Vulnerability Tool	11 / -	\$ 614,353	\$ 614,353	\$ -	\$ -	\$ 614,353	\$ 614,353
		County of Glenn	Groundwater Sustainability Plan Development in the Corning Subbasin	- / 17	\$ -	\$ -	\$ 999,980	\$ 999,980	\$ 999,980	\$ 999,980
C	6	County of San Diego	San Diego County GSP Development	12 / 18	\$ 1,000,000	\$ 1,000,000	\$ 2,000,000	\$ 2,000,000	\$ 3,000,000	\$ 4,884,260
		County of San Luis Obispo	2017 County of San Luis Obispo Sustainable Groundwater Proposal	- / 18	\$ -	\$ -	\$ 1,397,125	\$ 1,397,125	\$ 1,397,125	\$ 2,549,375
C	3	Cuyama Basin Groundwater Sustainability Agency	Cuyama Basin Groundwater Sustainability	13 / 18	\$ 648,124	\$ 648,124	\$ 1,500,000	\$ 1,500,000	\$ 2,148,124	\$ 2,148,124
		Del Norte County	Smith River Plain Groundwater Basin GSP	- / 10	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
		East Bay Municipal Utility District	East Bay Plain Subbasin Groundwater Sustainability Plan Development	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,018,000
C		Eastern San Joaquin Groundwater Authority	Eastern San Joaquin Subbasin Groundwater Sustainability Plan Grant	- / 19	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 2,176,420
		Elsinore Valley Municipal Water District	Elsinore Valley Groundwater Sustainability Agency Groundwater Sustainability Planning Grant Proposal	- / 17	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,524,199
		Fillmore Piru GSA	Fillmore and Piru Basins Groundwater Sustainability Plans	- / 16	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 2,045,430
7		Freshwater Trust	Engaging Severely Disadvantaged Communities in the Development of the Solano Subbasin Groundwater Sustainability Plan	12 / -	\$ 490,000	\$ 490,000	\$ -	\$ -	\$ 490,000	\$ 490,000
C	13	Indian Wells Valley Groundwater Authority	Indian Wells Valley Groundwater Basin - Groundwater Sustainability Plan Development and SDAC Groundwater Conservation Pilot Project	10 / 18	\$ 646,000	\$ 646,000	\$ 1,500,000	\$ 1,500,000	\$ 2,146,000	\$ 3,748,600
		Inyo-Water Department, County of	Groundwater Sustainability Planning for the Owens Valley Groundwater Basin	- / 19	\$ -	\$ -	\$ 713,155	\$ 713,155	\$ 713,155	\$ 865,915
C		Kern River Groundwater Sustainability Agency	Kern County Subbasin Groundwater Sustainability Plan Support - 2017 Grant Application	- / 15	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 3,072,604
		Lassen County	Big Valley Groundwater Sustainability Plan	- / 18	\$ -	\$ -	\$ 999,185	\$ 999,185	\$ 999,185	\$ 1,045,541
14		Leadership Counsel for Justice and Accountability	Partnering for Equitable Groundwater	10 / -	\$ 758,000	\$ 758,000	\$ -	\$ -	\$ 758,000	\$ 758,000
15		Linda County Water District	Linda County Water District-Well 17 Project Funding Application Groundwater Sustainability Planning Grant Program Proposal	10 / -	\$ 999,500	\$ 999,500	\$ -	\$ -	\$ 999,500	\$ 12,272,000
		Los Angeles County Waterworks District No. 37, Acton	Fringe Area Antelope Valley Groundwater Sustainability Plan	- / 4	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 300,000	\$ 600,000
C		Lower Tule River Irrigation District Groundwater Sustainable Agency	Lower Tule River Irrigation District GSA, SGWP Planning Grant	- / 16	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
C	16	Madera County Water and Natural Resources	Groundwater Monitoring Well Installation and GSP Development For The Chowchilla Subbasin	10 / 18	\$ 1,000,000	\$ 1,000,000	\$ 1,500,000	\$ 1,500,000	\$ 2,500,000	\$ 2,500,000
C	11	Madera County Water and Natural Resources	Groundwater Monitoring Well Installation and GSP Development for the Madera Subbasin	11 / 14	\$ 1,000,000	\$ 1,000,000	\$ 1,500,000	\$ 1,500,000	\$ 2,500,000	\$ 2,500,000
		Marina Coast Water District	Monterey Subbasin Groundwater Sustainability Plan Development	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,173,240
		Mendocino County Water Agency	Phase 2 of the Ukiah Valley Basin Groundwater Sustainability Plan Development	- / 17	\$ -	\$ -	\$ 764,255	\$ 764,255	\$ 764,255	\$ 967,675
C	1	Merced Irrigation District	2017 Merced Groundwater Subbasin Sustainability	14 / 17	\$ 901,261	\$ 901,261	\$ 1,500,000	\$ 1,500,000	\$ 2,401,261	\$ 2,615,274
C		Mid-Kaweah Groundwater Sustainability Agency	Kaweah Sub-Basin Groundwater Sustainability Plans Development	- / 17	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 2,587,704
C		Mid-Kings River Groundwater Sustainability Agency	Tulare Lake Subbasin GSP Development and SGMA Compliance Project	- / 15	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,597,130
		Mound Basin Groundwater Sustainability Agency	Mound Basin GSA and GSP	- / 19	\$ -	\$ -	\$ 758,100	\$ 758,100	\$ 758,100	\$ 1,518,870
2		North Cal-Neva Resource Conservation and Development Council, Inc.	Big Valley GSP Monitoring and Data Development	14 / -	\$ 782,344	\$ 782,344	\$ -	\$ -	\$ 782,344	\$ 801,375
C		North Fork Kings Groundwater Sustainability Agency	Kings Basin Groundwater Sustainability Plans	- / 17	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 5,364,141
		Padre Dam Municipal Water District	San Diego River Valley Groundwater Sustainability Plan (GSP) Development Proposal	- / 18	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 1,200,000
C,D		Pajaro Valley Water Management Agency	Pajaro Valley Groundwater Sustainability Plan	- / 11	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 2,409,865
		Petaluma Valley GSA	Petaluma Valley Groundwater Sustainability Plan	- / 17	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,097,508
D		Sacramento Central Groundwater Authority	Development of the South American Subbasin Groundwater Sustainability Plan (Bulletin 118 Subbasin NO. 5-21.65)	- / 17	\$ -	\$ -	\$ 970,693	\$ 970,693	\$ 970,693	\$ 1,941,387
		Sacramento Groundwater Authority	North American Subbasin Groundwater Sustainability Plan Development	- / 18	\$ -	\$ -	\$ 994,276	\$ 994,276	\$ 994,276	\$ 2,046,663
C		Salinas Valley Basin Ground Water Sustainability Agency	Salinas Valley Basin Groundwater Sustainability Plan	- / 16	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 3,040,842
		San Antonio Basin Groundwater Sustainability Agency	San Antonio Basin Groundwater Sustainability Plan	- / 9	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 300,000	\$ 600,000
		San Benito County Water District	Sustainable Groundwater Planning Grant for GSP Preparation: Bolsa, Hollister, and San Juan Bautista Groundwater Subbasins	- / 18	\$ -	\$ -	\$ 830,336	\$ 830,336	\$ 830,336	\$ 1,360,766
		San Bernardino Valley Municipal Water District	Yucaipa Groundwater Sustainability Plan	- / 19	\$ -	\$ -	\$ 815,100	\$ 815,100	\$ 815,100	\$ 1,358,644
4		San Geronio Pass Water Agency	2017 Sustainable Groundwater Planning Grant for the San Geronio Pass Subbasin	13 / 18	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,000,000	\$ 2,625,683
C		Santa Cruz Mid-County Groundwater Agency	Santa Cruz Mid-County Groundwater Sustainability Plan Development	- / 18	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 3,000,000
		Santa Margarita Groundwater Agency	Santa Margarita Groundwater Sustainability Plan Development	- / 16	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,011,958
		Santa Rosa Plain GSA	Santa Rosa Plain Groundwater Sustainability Plan	- / 17	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,333,314
		Santa Ynez River Water Conservation District	Santa Ynez River Valley Basin GSP Planning and Preparation	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 3,481,015
8		Self-Help Enterprises	Self-Help Enterprises - SDACs Project	12 / -	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000
19		Shasta Valley Resource Conservation District	Groundwater Monitoring Implementation Program for the Shasta Valley GSA	6 / -	\$ 976,884	\$ 976,884	\$ -	\$ -	\$ 976,884	\$ 976,884
		Siskiyou County Flood Control and Water Conservation District	Grant Proposal for the Scott, Shasta and Butte Valley Groundwater Basins GSP Development	- / 16	\$ -	\$ -	\$ 1,367,000	\$ 1,367,000	\$ 1,367,000	\$ 1,614,000
		Solano Subbasin Groundwater Sustainability Agency	Solano Subbasin Groundwater Sustainability Plan Development	- / 18	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 3,592,000
		Sonoma Valley GSA	Sonoma Valley Groundwater Sustainability Plan	- / 17	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,240,088
		Southeast Sacramento County Agricultural Water Authority	Establishing a Groundwater Sustainability Plan and Governance Structure for the Cosumnes Groundwater Sub Basin	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,965,000
D		Sutter County Development Services	Sutter Subbasin Groundwater Sustainability Plan Development	- / 19	\$ -	\$ -	\$ 956,814	\$ 956,814	\$ 956,814	\$ 1,277,442
		Tehama County Flood Control & Water Conservation District	Tehama County Groundwater Sustainability Plan Development Grant Application	- / 17	\$ -	\$ -	\$ 1,498,960	\$ 1,498,960	\$ 1,498,960	\$ 1,498,960
12		The Nature Conservancy	Demonstrating Multi-Benefit On-Farm Managed Aquifer Recharge in the Central Valley	11 / -	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ 300,000	\$ 1,194,742
		Tulelake Irrigation District	Protecting Our Groundwater Resource: Securing a Sustainable Future for the Tule Lake Subbasin	- / 15	\$ -	\$ -	\$ 721,120	\$ 721,120	\$ 721,120	\$ 836,800
		Upper Ventura River Groundwater Agency	Upper Ventura River Basin GSA and GSP	- / 19	\$ -	\$ -	\$ 630,061	\$ 630,061	\$ 630,061	\$ 1,338,896
		Walnut Valley Water District	Spadra Groundwater Basin Groundwater Sustainability Plan Development	- / 16	\$ -	\$ -	\$ 338,500	\$ 338,500	\$ 338,500	\$ 677,000
C	17	West Stanislaus ID	2017 Sustainable Groundwater Planning Grant for the Delta-Mendota Subbasin	10 / 14	\$ 1,178,500	\$ 1,178,500	\$ 1,500,000	\$ 1,500,000	\$ 2,678,500	\$ 5,206,698
		West Turlock Subbasin GSA	Sustainable Groundwater Planning Grant for the Turlock Groundwater Subbasin	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,249,533
		Western Municipal Water District	Riverside-Arlington Subbasin Groundwater Sustainability Plan	- / 14	\$ -	\$ -	\$ 130,000	\$ 130,000	\$ 130,000	\$ 268,225
C	5	Westlands Water District	Groundwater Monitoring Well Installation Project and Groundwater Sustainability Plan Development for the Westside Subbasin	13 / 19	\$ 1,000,000	\$ 1,000,000	\$ 1,500,000	\$ 1,500,000	\$ 2,500,000	\$ 2,997,500
		White Wolf Groundwater Sustainability Agency	White Wolf Subbasin Groundwater Sustainability Plan Development	- / 18	\$ -	\$ -	\$ 557,998	\$ 557,998	\$ 557,998	\$ 1,560,563
		Yolo County Flood Control and water Conservation District	Yolo Subbasin - GSP Planning and Preparation	- / 19	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 2,033,244
		Yuba County Water Agency	Groundwater Sustainability Plans for the North Yuba Subbasin and South Yuba Subbasin	- / 14	\$ -	\$ -	\$ 893,948	\$ 893,948	\$ 893,948	\$ 1,191,930
					\$ 16,782,264	\$ 16,182,264	\$ 69,569,961	\$ 69,569,961	\$ 85,752,225	\$ 150,038,516

<sup>A</sup> All Category 1 Projects: Applicant shall obtain written (i.e., letter) approval of proposed scope of work from GSA, of respective basin where project is located in, prior to execution of Grant Agreement.

<sup>B</sup> Recommended funding less than requested due to significantly high Direct Project Administration (DPA) Costs. Recalculated DPA to provide 17% of Grant Requested, rounded up to nearest \$100K.

<sup>C</sup> Critically Over-Draft Basin included in application

<sup>D</sup> Applicant submitted an Alternative Plan to DWR for review. Awards will not be finalized until the Alternative Plan approval is determined.

**Review of the Draft Request for  
Proposals for Consulting Support  
Services Related to the  
Preparation of a Groundwater  
Sustainability Plan**



1/30/18

**RESOLUTION No. 1061****RESOLUTION OF THE BOARD OF DIRECTORS OF SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT AUTHORIZING APPLICATION FOR A GRANT UNDER THE 2017 SUSTAINABLE GROUNDWATER PLANNING GRANT PROGRAM**

**WHEREAS**, on September 16, 2014, Governor Jerry Brown signed into law Senate Bills 1168 and 1319, and Assembly Bill 1739, collectively known as the Sustainable Groundwater Management Act (SGMA), which amended the Water Code (Part 2.74 of Division 6 of the Water Code, Sections 10720-10737.8) and provides the framework for sustainable groundwater management planning and implementation; and

**WHEREAS**, SGMA went into effect on January 1, 2015; and

**WHEREAS**, SGMA requires local public agencies and Groundwater Sustainability Agencies (GSAs) to develop and implement Groundwater Sustainability Plans (GSPs) or alternatives to GSPs for designated high and medium priority groundwater basins and subbasins; and

**WHEREAS**, the Yucaipa Sub-Basin (Upper Santa Ana Valley Yucaipa 8-002.07) is designated by the California Department of Water Resources (DWR) as medium-priority and is required to be managed by a GSP or coordinated GSPs by January 31, 2022; and

**WHEREAS**, a Memorandum of Agreement (MOA) to form a GSA for the Yucaipa Sub-Basin was entered into by and among San Bernardino Valley Municipal Water District, San Gorgonio Pass Water Agency, South Mesa Water Company, South Mountain Water Company, Western Heights Water Company, Yucaipa Valley Water District, the City of Calimesa, the City of Redlands, and the City of Yucaipa; and

**WHEREAS**, the San Bernardino Valley Municipal Water District, and other parties to the MOA are seeking funding to develop a GSP for the Yucaipa Sub-Basin; and

**WHEREAS**, The Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Proposition 1) authorized \$100 million to be available for competitive grants for projects that develop and implement GSPs and projects in accordance with groundwater planning requirements established under Division 6 (commencing with Section 10000) (Water Code Section 79775); and

**WHEREAS**, DWR is administering the Sustainable Groundwater Planning Grant Program, using funds authorized by Proposition 1, to encourage sustainable management of groundwater resources that support SGMA; and

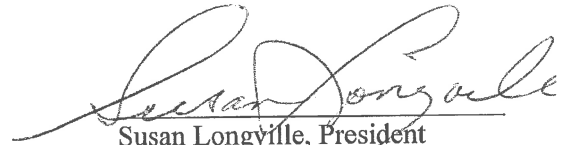
**WHEREAS**, the San Bernardino Valley Municipal Water District has been selected to submit an application to the Sustainable Groundwater Planning Grant Program on behalf of the Yucaipa Sub-Basin.

**NOW THEREFORE**, be it resolved by the Board of Directors of the San Bernardino Valley Municipal Water District as follows:

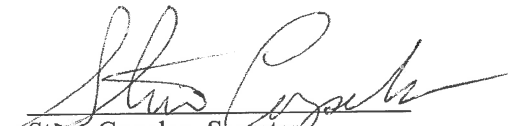
1. That application be made to the California Department of Water Resources to obtain a grant under the 2017 Sustainable Groundwater Planning Grant Program pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Proposition 1) (Water Code Section 79700 et seq.), and to enter into an agreement to receive a grant for the *Yucaipa Sub-Basin Groundwater Sustainability Plan*.

- a. The General Manager, or Designee, of the San Bernardino Valley Municipal Water District is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement with DWR.

**PASSED AND ADOPTED** by the governing body of the San Bernardino Valley Municipal Water District this October 17, 2017.

  
Susan Longville, President

ATTEST:

  
Steve Copelan, Secretary

## ELIGIBILITY DOCUMENTATION

### Eligibility

Eligible grant applicants are public agencies, non-profit organizations, public utilities, federally recognized Indian tribes, California Native American Tribes, and mutual water companies. As defined under Water Code Section 79702.(s), a public agency is any state agency or department, special district, joint powers authority, city, county, city and county, or other political subdivision of the State.

The applicant, San Bernardino Valley Municipal Water District, is a public agency as defined under Water Code Sections 79702.(s) and therefore an eligible grant applicant.

### CASGEM Basin Prioritization and Compliance

The Upper Santa Ana Valley Yucaipa Groundwater Basin (Basin Number 8-002.07), also known as the Yucaipa Basin, is designated a medium priority basin under the CASGEM Program. The San Bernardino Valley Municipal Water District is the designated CASGEM monitoring entity for the Yucaipa Basin and is in compliance with California Water Code §10920. Eligibility documentation is attached hereto.

### Urban Water Management Compliance

San Bernardino Valley Municipal Water District is serving as the applicant on behalf of the Yucaipa Basin Groundwater Sustainability Agency (GSA) and is the only agency that will directly receive funds from the grant. San Bernardino Valley Municipal Water District is an urban water supplier and originally submitted the San Bernardino Valley 2015 Regional Urban Water Management Plan (UWMP) on July 1, 2016. An updated Regional UWMP was submitted on August 12, 2017 in response to a DWR advisory letter from March 2017. The revised Plan is currently under review by DWR.

As a wholesale urban water supplier, San Bernardino Valley Municipal Water District is not required to determine baseline or target gallons per capita per day (GPCD) as part of the Sustainable Water Use and Demand Reduction Part 2.55 of Division 6 (Water Code Section 10608 et seq.).

A Water Metering compliance self-certification form from San Bernardino Valley Municipal Water District is provided with this attachment to document compliance with water metering requirements.

### Agricultural Water Management Compliance

There are no agricultural water suppliers that will receive funding from this grant.

### Surface Water Diverter Compliance

There are no surface water diverters that will receive funding from this grant.

**The following documents are being provided with this Attachment:**

- CASGEM Documentation
- Signed Meter Compliance Form, San Bernardino Valley Municipal Water District

Groundwater Elevation Data

CASSEM ID	Local Well Number	Date	Military Time (PST)	No Measurement	Questionable Measurement	Reading @ RP	Reading @ WS	RP to WS	RP Elevation	GS Elevation	WSE	GS to WS	Measurement Method	Measurement Accuracy	Collecting/Co-occurring Agency	Voluntary or CASSEM Measurement	Comments
340374N1170759W001	Hog Canyon #2	3/2/2017	00:00			175.000	0.000	175.000	2,221.250	2,220.000	2,046.250	173.250	ES - Electric sounder measurement	1 Ft	San Bernardino Municipal	CASSEM	
340225N1170411W002	Well 50	3/21/2017	00:00	A - Can't get tape in casing		2579.870	0.000	2579.870	2,578.850						San Bernardino Municipal	CASSEM	
340225N1170759W001	Well 49	3/27/2017	00:00			202.500	0.000	202.500	2,291.700	2,292.620	2,091.000	201.620	ES - Electric sounder measurement	0.01 Ft	Water District	CASSEM	
340225N117181W001	Well #36	3/6/2017	00:00			175.000	0.000	175.000	1,676.500	1,687.000	1,502.500	184.500	ES - Affine measurement, pressure pipe, or manometer	1 Ft	Water District	CASSEM	
340268N117045W001	Well 6	3/23/2017	00:00			214.000	0.000	214.000	2,568.380	2,566.320	2,354.380	211.940	ES - Electric sounder measurement	0.01 Ft	San Bernardino Municipal	CASSEM	
340311N1171537W001	Redlands Higha.	3/6/2017	00:00			166.000	0.000	166.000	1,791.700	1,789.000	1,635.700	163.300	ES - Electric sounder measurement	1 Ft	San Bernardino Municipal	CASSEM	
340337N1170501W001	Well 5	3/22/2017	00:00			195.000	0.000	195.000	2,567.300	2,565.330	2,372.300	192.940	ES - Electric sounder measurement	0.01 Ft	Water District	CASSEM	
340322N1170268W001	Well 7	3/22/2017	00:00			307.000	0.000	307.000	2,711.850	2,713.890	2,404.850	309.040	ES - Electric sounder measurement	0.01 Ft	Water District	CASSEM	
340493N1171697W001	Well #12	3/2/2017	00:00			38.000	0.000	38.000	1,565.000	1,565.000	1,526.000	39.000	ES - Electric sounder measurement	1 Ft	San Bernardino Municipal	CASSEM	
340497N1172307W001	Byn River #4	3/2/2017	00:00			136.000	0.000	136.000	1,186.600	1,186.000	1,050.600	135.400	PS - Affine measurement, pressure pipe, or manometer	1 Ft	San Bernardino Municipal	CASSEM	
340538N1171959W001	New York Well	3/2/2017	00:00			190.000	0.000	190.000	1,293.900	1,291.000	1,103.900	187.100	PS - Affine measurement, pressure pipe, or manometer	1 Ft	San Bernardino Municipal	CASSEM	
340545N116982W001	Churnator	3/22/2017	00:00			37.500	0.000	37.500	3,769.600	3,768.600	3,732.100	36.500	ES - Electric sounder measurement	0.01 Ft	Water District	CASSEM	
340632N1170260W001	Well 43	3/21/2017	00:00			291.000	0.000	291.000	2,940.600	2,940.600	2,649.600	291.000	ES - Electric sounder measurement	0.01 Ft	Water District	CASSEM	
340666N1172650W001	Johnson 1	3/15/2017	09:18			91.120	0.000	91.120	957.140	957.140	866.020	91.120	ES - Electric sounder measurement	0.01 Ft	San Bernardino Municipal	CASSEM	
340698N1172489W001	Well #34	3/2/2017	00:00			220.000	0.000	220.000	1,093.000	1,092.000	873.000	219.000	ES - Electric sounder measurement	1 Ft	San Bernardino Municipal	CASSEM	
340716N1172869W001	Thorne 3	3/15/2017	08:37			120.210	0.000	120.210	998.350	998.350	878.140	120.210	ES - Electric sounder measurement	0.01 Ft	San Bernardino Municipal	CASSEM	
340739N1175955W001	Maguire #2	3/2/2017	00:00			48.000	0.000	48.000	2,013.000	2,013.000	1,965.000	48.000	PS - Affine measurement, pressure pipe, or manometer	1 Ft	Water District	CASSEM	
340744N1171939W001	Well #31A	3/2/2017	00:00			226.000	0.000	226.000	1,319.300	1,316.000	1,093.300	224.700	ES - Electric sounder measurement	1 Ft	Water District	CASSEM	
340771N1171569W001	Well #35	3/2/2017	00:00			254.000	0.000	254.000	1,391.700	1,391.000	1,127.700	263.300	ES - Electric sounder measurement	1 Ft	San Bernardino Municipal	CASSEM	
340783N1173083W001	Point 13	3/15/2017	09:33			154.270	0.000	154.270	1,019.220	1,017.220	864.650	152.570	ES - Electric sounder measurement	0.01 Ft	San Bernardino Municipal	CASSEM	
340808N1171495W001	Mentone Acres #2	3/2/2017	00:00			240.000	0.000	240.000	1,530.300	1,528.000	1,290.300	237.700	PS - Affine measurement, pressure pipe, or manometer	1 Ft	Water District	CASSEM	
340927N1171942W001	SAR-2	3/17/2017	00:00			235.660	0.000	235.660	1,447.850	1,444.690	1,197.190	247.500	ES - Electric sounder measurement	0.01 Ft	San Bernardino Municipal	CASSEM	

The horizontal datum for coordinates is NAD83. The vertical datum for elevations is NAVD83. All groundwater elevation and well depth units are in feet. Report Generated on 10/25/2017 11:05:46 AM

Groundwater Elevation Data

CASGEM ID	Local Well Number	Date	Warranty (PST)	No Measurement	Questionable Measurement	Reading @RP	Reading @WS	RP to WS	RP Elevation	GS Elevation	WSE	GS to WS	Measurement Method	Measurement Accuracy	Collecting/Co-op Agency	Voluntary or CASGEM Measurement	Comments
340959N117256W001	Well 16	3/9/2017	00:00		271.000	0.000	271.000	1,177.000	1,177.000	906.190	276.810	UNK - Unknown	Unknown	San Bernardino Valley Municipal District	CASGEM		
340959N117182W001	N. Orange #2	3/2/2017	00:00		180.000	0.000	180.000	1,299.600	1,297.000	1,119.600	177.400	PK - Airline measurement, pressure gaug, or transmitter	1 Ft.	San Bernardino Municipal District	CASGEM		
341008N117337W001	SAR1	3/2/2017	00:00		156.920	0.000	156.920	1,626.720	1,626.720	1,469.800	156.920	ES - Electric sounder measurement	0.01 Ft.	San Bernardino Municipal District	CASGEM		
341008N117105W001	Well North Fork #1	3/2/2017	01:30		55.000	0.000	55.000	1,811.080	1,811.000	1,756.080	54.920	AS - Acoustic or sonic sounder	0.1 Ft.	San Bernardino Municipal District	CASGEM		
341008N117270W001	SRWCD41	3/2/2017	00:00		149.440	0.000	149.440	1,652.720	1,652.720	1,503.280	149.440	ES - Electric sounder measurement	0.01 Ft.	San Bernardino Valley Municipal District	CASGEM		
341008N117242W001	Well 30	3/9/2017	00:00		314.000	0.000	314.000	1,161.500	1,160.000	847.500	312.500	UNK - Unknown	Unknown	San Bernardino Valley Municipal District	CASGEM		
341131N117199W001	Well #136-1	3/2/2017	10:30		293.000	0.000	293.000	1,249.580	1,249.000	956.580	292.420	AS - Acoustic or sonic sounder	0.1 Ft.	San Bernardino Municipal District	CASGEM		
341008N117366W001	MW-136A	3/2/2017	00:00		350.000	0.000	250.000	1,123.580	1,123.000	872.580	250.420	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal District	CASGEM		
341008N117308W002	MW-136B	3/2/2017	00:00		253.000	0.000	253.000	1,123.580	1,123.000	869.580	253.420	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal District	CASGEM		
341008N117308W003	MW-136C	3/2/2017	00:00		254.930	0.000	254.930	1,123.520	1,123.000	867.590	255.410	ES - Electric sounder measurement	1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341212N117242W001	Well 10	3/9/2017	00:00		393.000	0.000	393.000	1,346.500	1,344.000	952.500	391.500	UNK - Unknown	Unknown	San Bernardino Valley Municipal District	CASGEM		
341212N117240W001	Well #6	3/2/2017	09:30		175.600	0.000	175.600	1,101.200	1,100.000	925.600	174.400	AS - Acoustic or sonic sounder	0.1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341221N117341W001	Well 9	3/9/2017	00:00		353.000	0.000	353.000	1,210.500	1,209.000	857.500	351.500	UNK - Unknown	Unknown	San Bernardino Valley Municipal District	CASGEM		
341360N117289W001	MW-10A	3/2/2017	00:00		242.930	0.000	242.930	1,127.770	1,128.000	864.870	243.130	ES - Electric sounder measurement	1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341360N117289W002	MW-10B	3/2/2017	00:00		251.540	0.000	251.540	1,127.840	1,128.000	876.300	251.700	ES - Electric sounder measurement	1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341360N117249W001	Well 8A	3/9/2017	00:00		408.000	0.000	408.000	1,275.500	1,274.000	867.500	406.500	UNK - Unknown	Unknown	San Bernardino Valley Municipal District	CASGEM		
341320N1172051W001	Well 194	3/2/2017	10:00		408.200	0.000	408.200	1,416.420	1,416.000	1,008.220	407.780	AS - Acoustic or sonic sounder	0.1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341370N117316W001	MW-126A	3/2/2017	00:00		318.830	0.000	318.830	1,215.450	1,215.000	896.420	318.380	ES - Electric sounder measurement	1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341370N117316W002	MW-126B	3/2/2017	00:00		328.700	0.000	328.700	1,215.460	1,215.000	886.760	328.240	ES - Electric sounder measurement	1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341370N117318W003	MW-126C	3/2/2017	00:00		336.800	0.000	336.800	1,215.480	1,215.000	878.680	336.320	ES - Electric sounder measurement	1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341384N117248W001	Well #41	3/2/2017	08:00		327.000	0.000	327.000	1,240.250	1,238.000	913.250	324.750	AS - Acoustic or sonic sounder	0.1 Ft.	San Bernardino Valley Municipal District	CASGEM		
341412N1174003W001	Well 12A	3/9/2017	00:00		418.000	0.000	418.000	1,516.400	1,515.000	1,098.500	416.500	UNK - Unknown	Unknown	San Bernardino Valley Municipal District	CASGEM		

The horizontal datum for coordinates is NAD83. The vertical datum for elevations is NAVD83. All groundwater elevation and well depth units are in feet. Report Generated on 10/25/2017 11:05:48 AM

Groundwater Elevation Data

CASSEM ID	Local Well Number	Date	Military Time (PST)	No Measurement	Questionable Measurement	Reading @ RP	Reading @ WS	RP to WS Elevation	RP Elevation	GS Elevation	WSE	GS to WS	Measurement Method	Measurement Accuracy	Collection Agency	Validity of CASSEM Measurement	Comments
341448N17282W001	Well #98	3/7/2017	11:30			403.000	0.000	403.000	1,394.130	1,394.000	991.130	402.870	AS - Acoustic or sonic sounder	0.1 Ft.	San Bernardino Municipal Water District	CASSEM	
341482N17347W001	Well #A	3/9/2017	00:00			362.000	0.000	362.000	1,401.500	1,400.000	1,039.500	360.500	UNK - Unknown	Unknown	San Bernardino Municipal Water District	CASSEM	
341515N173482W001	Well 2	3/9/2017	00:00			359.000	0.000	359.000	1,431.500	1,430.000	1,072.500	357.500	UNK - Unknown	Unknown	San Bernardino Municipal Water District	CASSEM	
341660N17359W001	NW-09A	3/20/2017	00:00			181.000	0.000	181.000	1,378.650	1,379.000	1,197.150	181.810	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal Water District	CASSEM	
341660N17359W002	NW-09B	3/20/2017	00:00			178.000	0.000	178.000	1,378.660	1,379.000	1,200.660	178.340	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal Water District	CASSEM	
341715N17450W001	Well 31	3/9/2017	00:00			60.000	0.000	60.000	1,851.500	1,850.000	1,791.500	58.500	UNK - Unknown	Unknown	San Bernardino Municipal Water District	CASSEM	
341730N173520W001	NW-127A	3/20/2017	00:00			282.100	0.000	282.100	1,545.900	1,545.000	1,263.800	282.200	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal Water District	CASSEM	
341730N173520W002	NW-127B	3/20/2017	00:00			282.050	0.000	282.050	1,545.900	1,546.000	1,263.850	282.150	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal Water District	CASSEM	
341660N17358W001	CAJON 3	3/20/2017	00:00			210.000	0.000	210.000	1,895.000	1,895.200	1,685.000	211.200	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal Water District	CASSEM	
341590N17435W001	KENWOOD 2	3/20/2017	00:00			94.050	0.000	94.050	2,289.000	2,289.050	2,194.350	94.100	ES - Electric sounder measurement	1 Ft.	San Bernardino Municipal Water District	CASSEM	

California State Water Resources Control Board  
California Department of Water Resources  
California Department of Public Health



**CERTIFICATION FOR  
COMPLIANCE WITH WATER METERING REQUIREMENTS  
FOR FUNDING APPLICATIONS**

Funding Agency name: California Department of Water Resources

Funding Program name: Sustainable Groundwater Planning Grant Program

Applicant (Agency name): San Bernardino Valley Municipal Water District

Project Title (as shown on application form): Yucaipa Basin Groundwater Sustainability Plan

Please check one of the boxes below and sign and date this form.

As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the agency is not an urban water supplier, as that term is understood pursuant to the provisions of section 529.5 of the Water Code.

As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the applicant agency has fully complied with the provisions of Division 1, Chapter 8, Article 3.5 of the California Water Code (sections 525 through 529.7 inclusive) and that ordinances, rules, or regulations have been duly adopted and are in effect as of this date.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification Statement may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Robert M. Tincher  
Name of Authorized Representative  
(Please print)

[Signature]  
Signature

Manager of water Resources  
Title

11/6/12  
Date



## PROJECT JUSTIFICATION

### PROPOSAL SUMMARY

*Implementing Agency: San Bernardino Valley Municipal Water District*

With this application, the San Bernardino Valley Municipal Water District (Valley District) and its partners are seeking funding to develop a Groundwater Sustainability Plan (GSP) for the entire Upper Santa Ana Valley Yucaipa Groundwater Basin (Basin Number 8-002.07), also referred to as the Yucaipa Basin. The Yucaipa Basin Groundwater Sustainability Agency (GSA) was formed on June 22, 2017 by Memorandum of Agreement (MOA) and the GSA covers the entirety of the Yucaipa Basin though the individual service areas of the various agencies that comprise the GSA do not individually extend over all portions of the basin. The Basin is designated by the California Department of Water Resources (DWR) as medium-priority and is required to be managed by a GSP or coordinated GSPs by January 31, 2022.

In association with preparation of the GSP, work will include completing two (2) studies to fill current data gaps and inform the GSP. The first study will consist of infiltration testing which will occur according to an Infiltration Testing Work Plan completed in 2017. The infiltration testing will estimate recharge rates to enable sizing of future recharge basins at identified potential sites. The second study consists of a groundwater flow model being developed by the United States Geological Survey (USGS).

The Yucaipa Basin underlies the southeast part of San Bernardino Valley, encompassing an area of 25,410 acres (39.7 square miles). The Yucaipa Basin is divided into eight sub-basins separated by faults and other physical barriers. Figure 3-1 shows the Yucaipa Basin boundary and service area boundaries. It is bounded on the northeast by the San Andreas fault, on the northwest by the Crafton fault, on the west by the Redlands fault and the Crafton Hills, on the south by the Banning fault, and on the east by the Yucaipa Hills.

The Basin contains areas of Disadvantaged Communities (DACs) and Severely Disadvantaged Communities (SDACs), as shown in Figure 3-2.

#### **Current Need**

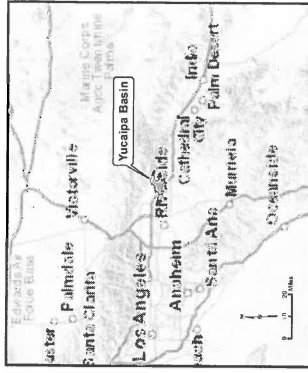
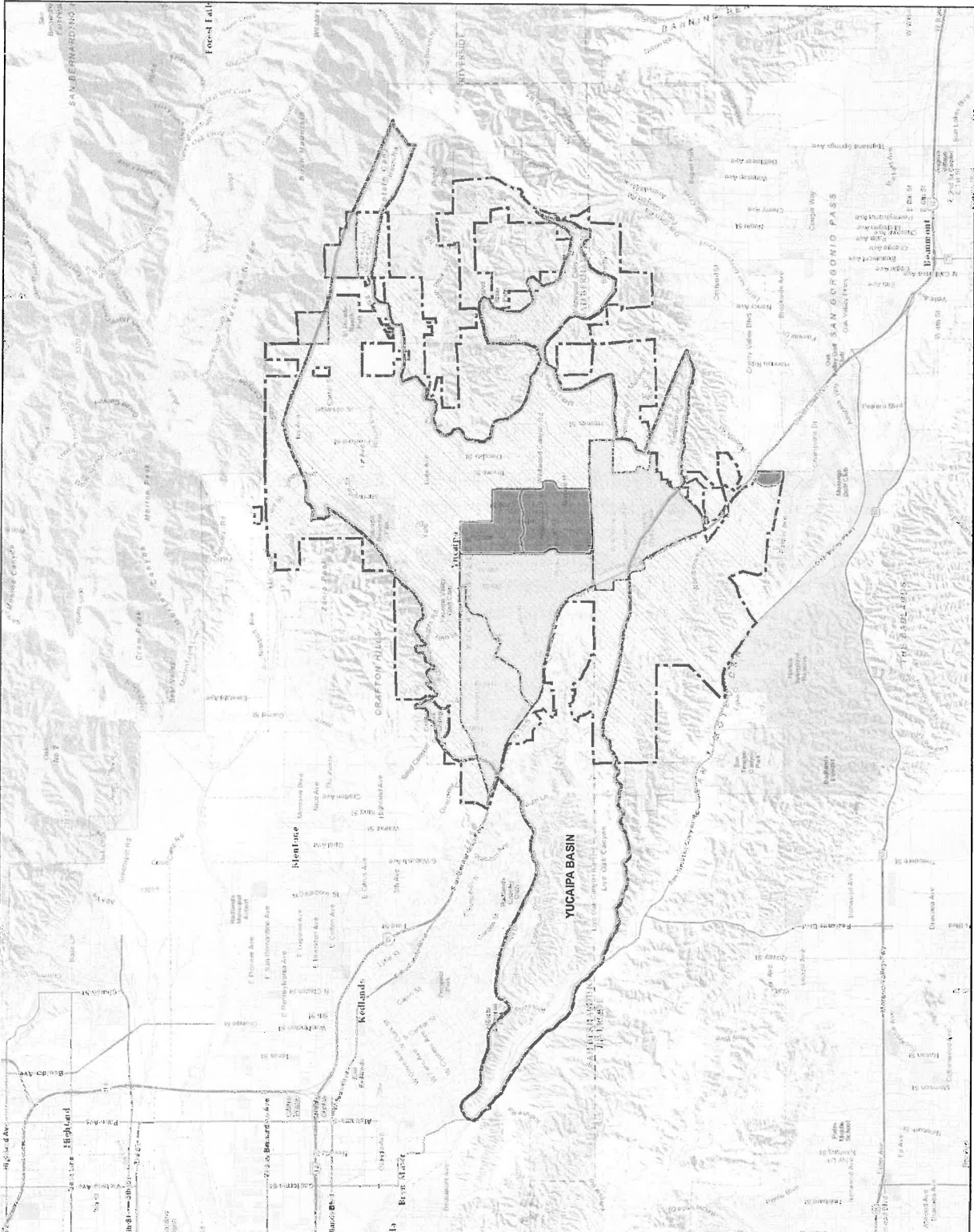
The South Mesa Water Company, Western Heights Water Company and Yucaipa Valley Water District (YVWD) utilize the Basin to meet most of the water needs for their nearly 70,000 customers. The Basin service area shown in Figure 3-1 encompasses their service area boundaries. The Basin has a storage capacity totaling more than 356,000 acre-feet (AF) and an estimated sustainable yield of approximately 9,600 acre-feet per year (AFY). Average extractions from the Basin however have consistently exceeded estimated safe yield leading to overdraft conditions (as identified in the 2003 DWR Bulletin 118).

Realizing the need for collective Basin management to ensure a reliable and resilient water supply from the Yucaipa Basin, project partners began meeting and coordinating studies with the ultimate goal to develop a groundwater management plan. Valley District and the San Geronio Pass Water Agency (Pass Agency) are the wholesale water agencies for the area. Valley District serves the area north of the county line and the Pass Agency serves the area south of the county line. The retail water agencies asked both wholesale water agencies to partner with them on the development of the groundwater management plan. A key objective is to manage local resources conjunctively with imported State Water Project (SWP) water supplies and to increase recharge to the Basin with natural storm runoff and recycled water.

Studies completed since this collaboration began, around 2011, have provided data on safe yield, basin capacities, and potential groundwater recharge locations. The completion of infiltration testing and a robust groundwater model are still needed to fill current data gaps. Results from these proposed studies in addition to existing studies will provide the foundation for a well-informed GSP. The GSP itself will provide critical guidance and data necessary to sustainably manage the Basin over the long-term, while furthering the collaborative stakeholder process already in place.



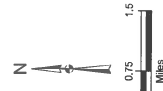
Service Layer Credits: Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GEBCO, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, and the GIS User Community  
 Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GEBCO, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, and the GIS User Community



**INDEX MAP**

**PROJECT BENEFIT AREA**

- Yucaipa Basin
- Yucaipa Basin GSA Service Area Boundary (25,859 acres)
- Disadvantage Community Census Tracts (May 2016) in the Yucaipa Basin GSA Service Area (4,703 acres; 18.19%)
- Severely Disadvantage Community Census Tracts (May 2016) in the Yucaipa Basin GSA Service Area (1,202 acres; 4.68%)



**Kennedy/Jenks Consultants**  
 Yucaipa Basin SGWP Application

Disadvantaged Communities and Severely Disadvantaged Communities Census Tracts in the Yucaipa Basin GSA Service Area Boundary

1644222-00  
 October 2017  
 Figure 3-2

### TECHNICAL NEED

Several years before the Sustainable Groundwater Management Act (SGMA) came into effect, stakeholders to the Yucaipa Basin began working collaboratively to understand the Basin characteristics in order to develop a plan for long-term management of the Basin. The Basin itself has been studied extensively since the 1970s. In recent years, with recognition the growing overdraft, stakeholders have been seeking opportunities to better manage the Basin. Given the Basin's ample storage capacity of more than 356,000 AF, groundwater recharge and conjunctive use have been identified as valuable opportunities for improving conditions of the Basin and improving local water supply reliability. Data show that artificial recharge efforts conducted in the Basin between 2007 and 2012 increased groundwater storage, however, starting in 2012 storage has been in decline again as a result of increased groundwater reliance during drought. Additional artificial recharge is considered a necessary management strategy to increase local drought-resiliency and improve overall Basin conditions. Valley District along with its partners are working together to develop a conjunctive use program using imported SWP water in addition to increased Basin recharge with natural storm runoff and recycled water.

Basin stakeholders have been working in incremental steps towards developing a groundwater management plan. The following major studies have been produced to date, which have provided essential data for understanding Basin conditions and advancing development of sustainable groundwater:

- *Determination of the Usable Capacity and Safe Yield for each Sub-basin within the Yucaipa Basin Area.* Geoscience, April 2014. The study reviewed the sub-basin boundaries within the Yucaipa Basin and re-calculated the sustainable yield and usable capacity of each sub-basin.
- *Recharge Investigation of the Yucaipa Groundwater Basin.* Geoscience, December 2014. This study assessed locations for artificial recharge and provided recommendations for further assessments.
- *Infiltration Test Work Plan for Thirteen Investigation Sites.* Todd Groundwater, January 2017. This work plan provides information to prepare and plan for implementation of infiltration tests, including prioritizing investigation sites for testing.

Recharge testing is anticipated by the end of 2017. The testing is essential to estimate recharge rates at potential sites to provide planning-level estimates of long-term infiltration capacity at each investigation site and to enable sizing of future recharge basins.

Stakeholders engaged USGS starting in 2015 to develop a groundwater model. This model will produce robust estimates of depth to groundwater and groundwater levels, and will use recharge rates identified through infiltration testing to determine optimal locations for recharge, and will assist with determining benefits of other management actions.

To date, the Basin stakeholders have made great strides towards setting the foundation for sustainably managing the Basin. Costs for the planning efforts to date have been shared among active partners, but funding is limited. Funding from the Sustainable Groundwater Planning Grant Program will help to complete the final studies and develop the GSP in a timely manner, and without additional financial hardship.

## PROJECT SUPPORT

### Description and Documentation of Communication With GSA(S) in Neighboring Basins Regarding GW Sustainability Planning and GSP Development

Parties to the Yucaipa Basin GSA are involved in groundwater management in neighboring basins due to their responsibilities in water supply and/or groundwater management in those areas. The Yucaipa Basin lies adjacent to one other GSA-managed basin and two adjudicated areas: the San Timoteo Subbasin, the Beaumont Basin, and the San Bernardino Basin Area- Bunker Hill, respectively.

The San Timoteo Subbasin lies south of the Yucaipa Basin. The northern portion of the basin, which lies adjacent to the Yucaipa Basin is managed by the San Timoteo Subbasin GSA which was formed between the City of Redlands, San Gorgonio Pass Water Agency, Yucaipa Valley Water District, and Beaumont Cherry Valley Water District. The 3 former agencies are also participants in the Yucaipa Basin GSA.

The Beaumont Basin lies south of the Yucaipa Basin and falls within the boundaries of the San Timoteo Basin and the San Gorgonio Pass Subbasin to the West. The Beaumont Basin Watermaster is comprised of managers from the Beaumont Cherry Valley Water District, City of Banning, City of Beaumont, South Mesa Mutual Water Company, and Yucaipa Valley Water District. Yucaipa Valley Water District is a participant in the Yucaipa Basin GSA.

The San Bernardino Basin Area encompasses the Bunker Hill Subbasin and includes a small portion of the Yucaipa Basin and Rialto Colton Basin. Valley District, the Applicant and participant in the Yucaipa Basin GSA, is directly involved in groundwater management activities within the San Bernardino Basin Area. It has specific responsibilities for monitoring groundwater supplies in the San Bernardino Basin Area and has developed a "cooperative recharge program" to help replenish groundwater in the San Bernardino Basin Area.

For these reasons, communication is ongoing amongst GSAs and other water resource managers in neighboring basins.

### Describe and Provide Documentation of Communication with Beneficial Users

Major beneficial users and stakeholders of the Yucaipa Basin are parties and stakeholders to the MOA establishing the GSA. Those agencies include South Mesa Water Company, South Mountain Water Company, Western Heights Water Company, Yucaipa Valley Water District, City of Calimesa, City of Redlands, City of Yucaipa, Pass Water Agency, and Valley District, as well as the counties of Riverside and San Bernardino.

The formation of the GSA occurred within a public process and was duly noticed by participating agencies. This process allowed beneficial users of the Basin and other stakeholders to provide comments and input on the formation of the GSA. Proof of publication is attached hereto for the Yucaipa Valley Water District, San Gorgonio Pass Water Agency, Valley District, and the City of Calimesa.

Substantial communication and coordination with stakeholders and beneficial users will occur as part of the GSP development process through outreach, public meetings and information dissemination. Letters of support for the Yucaipa Groundwater Sustainability Plan are attached.

## INCLUDED WITH THIS ATTACHMENT:

- Proof of Publication Notice of Groundwater Sustainability Agency Formation
  - Yucaipa Valley Water District
  - San Gorgonio Pass Water Agency
  - San Bernardino Valley Municipal Water District
  - City of Calimesa
- Letter of Support for the Yucaipa Groundwater Sustainability Plan, South Mesa Water Company
- Letter of Support for the Yucaipa Groundwater Sustainability Plan, Western Heights Water Company
- Letter of Support for the Yucaipa Groundwater Sustainability Plan, San Gorgonio Pass Water Agency
- Letter of Support for the Yucaipa Groundwater Sustainability Plan, County of San Bernardino

## WORK PLAN APPROACH

Starting in 2011, San Bernardino Valley Municipal Water District (Valley District), Western Heights Water Company, and Yucaipa Valley Water District began to discuss the possibility of developing a basin management plan for the Yucaipa Groundwater Basin. Later, other agencies were invited to join this process including City of Redlands, San Geronimo Pass Water Agency, South Mesa Water Company, and the City of Yucaipa. The agencies chose to approach and fund this process in incremental steps. The passage of the Sustainable Groundwater Management Act (SGMA) essentially formalizes the process these stakeholders were already participating in and proscribes specific timelines. SGMA gives additional momentum to the process, but the necessary steps remain the same:

**Evaluate Supplies and Demands.** The essential issue is to identify the difference, or gap, between supply and demand (current and future).

**Establish Sustainability Goals** for the basin including the amount of water needed to bridge any gap between supplies and demands; including an additional amount for reliability (“reliability factor”); and including measurement and tracking of identified sustainability indicators.

**Identify and Evaluate Management Actions** that will be implemented to address any gaps in supplies and demands and achieve the established sustainability goals by year 2042. Options will be evaluated based upon cost, and other factors.

**Implement the Plan and Adaptive Management**, this involves building the necessary institutional agreements, processes, and administrative framework to put the plan into action, to measure progress and make course changes if necessary.

**Establish Framework for Local Management of Groundwater Resources**, all of the actions above will be undertaken in a collaborative manner to insure beneficial users of the Yucaipa Basin have a vested interest in the success of the plan.

## WORK PLAN

### Evaluate Supplies and Demands

Task 1, the US Geological Survey (USGS) Model, is the first action to build a robust understanding of supplies and demands (i.e., baseline conditions). Task 1 will form the foundation for the Groundwater Sustainability Plan (GSP) chapter on “Historic and Current Groundwater Conditions” (Task 2). Task 3 will be done in parallel with Task 1 and will insure the model considers future land use and climate to accurately predict future water demands. The outcome of Tasks 1 through 3 will be estimates of existing supplies, existing and future demands, and the difference between supplies and demands; the comparison of supplies and demands will be documented in Task 4, “Water Budget and Sustainable Yield”.

#### **Task 1. USGS Groundwater Model**

This task includes activities to complete the Yucaipa Basin Groundwater Model in cooperation with the USGS. This model will produce robust estimates of depth to groundwater and groundwater levels, and use recharge rates identified through infiltration testing to determine where long-term recharge should occur. The model will specifically serve to provide necessary GSP data, including:

- Historical groundwater elevations, storage, and quality
- Historical demand and extractions by basin

## 2017 Sustainable Groundwater Planning Grant Program – Category 2 Proposal YUCAIPA GROUNDWATER SUSTAINABILITY PLAN

- Historical water budgets
- Identify current water uses and demands
- Current groundwater elevations, storage, and quality
- Current water budget
- Identify projected water uses and demands given local land use plans (general plans, habitat conservation plans)
- Projected future water budget (through 2070)
- Linkages between streamflow and groundwater effects of current, ongoing projects such as wastewater treatment plant discharges along the River
- Evaluate streamflow and groundwater effects of proposed projects

### Activities Completed

USGS has built a hydrogeologic model for the Yucaipa Basin by building upon the framework of the models developed for the neighboring Bunker Hill and Rialto-Colton basins. The Yucaipa model (including geologic, structural, and lithologic details) has been developed from the drillers' logs database, geophysical surveys, and information from previous studies. USGS has worked with project partners to compile data needed to construct the model. Data collected includes streamflow, precipitation, temperature, evapotranspiration, land use, groundwater levels, aquifer properties, groundwater pumping, and groundwater quality.

### Activities Planned

Remaining work on the USGS Groundwater Model includes integration of a recharge/runoff model for the contributing watershed. Once this is complete, the model will be calibrated and availability analyses and scenarios will be constructed and tested. These will be used to analyze various water availability options.

This task is approximately 35% complete.

### ••●*Deliverables*●••

- Final Report on the model providing a model overview, model grid and boundary conditions, summary of model input parameters, a summary of the water availability options tested, and any limitations on model as a predictive tool.

### **Task 2. Current and Historic Groundwater Conditions**

There have been a number of studies that provide an understanding of groundwater occurrence and its movement:

- Surface Water and Groundwater Quality in the Yucaipa Basin (2000)
- Determination of the Usable Capacity and Safe Yield for Each Sub-basin within the Yucaipa Basin Area (2013)
- Recharge Investigation of the Yucaipa Groundwater Basin (2014)

In addition, the USGS, in collaboration with the GSA has performed an extensive data collection effort to support the USGS Groundwater Model. The past studies and data collected by USGS will be used to establish current and historic groundwater conditions, specifically for six sustainability indicators:

*Groundwater Levels and Storage:* The GSA in collaboration with stakeholders (see Task 15) and the USGS will conduct an evaluation of historical and current groundwater levels and groundwater storage within the basin, and establish baseline groundwater conditions. Trends and seasonal cycles shall be identified.



## 2017 Sustainable Groundwater Planning Grant Program – Category 2 Proposal YUCAIPA GROUNDWATER SUSTAINABILITY PLAN

*Water Quality.* The 2000 water quality report identified the constituents of interest for the basin. Information from that water quality report will be updated to provide a summary of historic and current groundwater quality for major constituents of interest. The potential causes of groundwater quality problems will be identified and any trends identified. Based on the review and update of existing groundwater quality data and documents, baseline groundwater quality will be established.

*Seawater Intrusion.* There is no evidence of seawater intrusion in the Yucaipa Basin. This will be documented in the GSP.

*Subsidence.* A description of subsidence in the basin will be prepared based on data provided by DWR and the USGS California Water Science Center. A baseline land subsidence condition will be developed for the purpose of measuring the success of management measures implemented to attain sustainability. Information on subsidence will rely on information that has previously been developed as well as estimates based on industry standards.

*Identification of Interconnected Surface Water Systems.* This information will result from the modeling effort in Task 1.

*Identification of Groundwater Dependent Ecosystems.* GIS mapping, data from hydrological models, and data available from DWR will be used to identify groundwater dependent ecosystems.

This task has not yet begun and is 0% complete.

### ••● Deliverables ●••

- “Current and Historic Groundwater Conditions” chapter of the Yucaipa GSP (provided as part of Task 12).

### Task 3. Plan Area Including Land Use

Local agencies spent a great deal of effort surveying and mapping the basin boundaries. This work, along with work done to support the USGS Groundwater Model (Task 1) will provide the data needed to prepare the description of the plan area for the Yucaipa GSP.

#### Activities Completed

- Survey and mapping of basin boundaries and hydrologic features.

#### Activities Planned

Development of descriptions of the Plan Area including:

- Physical setting and characteristics of the groundwater basin, including description of groundwater basin area addressed by the plan;
- Hydrology (surface water) and drainage features;
- Well distribution and use (e.g., agricultural, domestic) including density of wells per square mile;
- Soil characteristics and recharge areas;
- Historic, current, and projected climate;
- Identification of existing water resources monitoring and management;
- Historic and current water demands and supplies; and
- The interface between land use planning and groundwater basin management, including:

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- Summary of general plans and other land use plans governing the basin
- Description of existing and projected land uses and the associated demographics and water demands
- Well permitting process
- Wellhead protection policies
- Well abandonment/destruction programs/policies

This task is approximately 60% complete.

### ••●*Deliverables*●••

- “Plan Area” chapter (including maps) of the Yucaipa GSP (provided as part of Task 12).

### Task 4. Water Budget and Sustainable Yield

The USGS Groundwater Model (Task 1) will model the period 1980-2016 and thereby include wet, dry, and normal precipitation years. With technical support from the USGS, the GSA will develop annual water budgets for the period 1980 to 2016. Using information on anticipated changes in precipitation, land use, population, groundwater extraction, and availability of recharge water, the USGS Groundwater Model will produce a project future water budget. All assumptions on recharge will be documented. Graphics, maps and tables will be created to illustrate the water budget data. At a minimum, the water budget will provide information on:

- Total surface water entering and leaving the basin by water source type.
- Inflow to the groundwater system by water source type, including subsurface groundwater inflow and infiltration of precipitation, applied water, and surface water systems, such as lakes, streams, rivers, canals, springs, and conveyance systems.
- Outflows from the groundwater system by water use sector, including evapotranspiration, groundwater extraction, groundwater discharge to surface water sources, and subsurface groundwater outflow.
- The change in the annual volume of groundwater in storage between seasonal high- and low-water level conditions.
- If overdraft conditions occur, as defined in Bulletin 118, a quantification of overdraft over a period of years that approximate average conditions.
- The water year type associated with the annual supply, demand, and change in groundwater stored.
- An estimate of sustainable yield for the basin.

This task has not yet begun and is 0% complete.

### ••●*Deliverables*●••

- “Water Budget and Sustainable Yield” chapter of the Yucaipa GSP (provided as part of Task 12).

#### Task 5. Define Management Areas

Work on the USGS Model, review of the plan area and groundwater conditions may identify reasons to delineate more than one management area in the Yucaipa Basin. There may be organizational reasons for establishing a management area (e.g., a management area may be created to match the jurisdiction of a local agency). Likely there will be geophysical reasons for establishing separate management areas, such as the presence of a groundwater barrier. The description of the different management areas will be documented including a discussion of the conditions in the management area, and the reasons for studying and treating the area separately.

This task has not yet begun and is 0% complete.

••●*Deliverables*●••

- “Management Areas” chapter of the Yucaipa GSP (provided as part of Task 12).

#### Establish Sustainability Goals

Task 6 is where the GSA shifts from understanding groundwater conditions to taking action to insure long-term sustainability of the Yucaipa Basin. Drawing upon the skills, experience, and input of the Technical Advisory Committee (see Task 17), the result of Task 6 will be to define the management goals of the basin.

#### Task 6. Define Undesirable Results, Minimum Thresholds, Measurable Objectives

Defining undesirable results and minimum thresholds will be a stakeholder driven process. Agency and stakeholder input will be solicited while developing management criteria. Based on historic data and the Water Budget developed in Task 4 the GSA will evaluate the potential for the occurrence of undesirable results within the Yucaipa Basin. As defined by DWR, undesirable results for at least six sustainability indicators must be examined: land subsidence, degradation of groundwater quality, loss of surface/groundwater connection, significant reduction in groundwater storage, declining groundwater levels, and seawater intrusion. The potential for undesirable results will be evaluated based on climate cycles and not individual years. The GSA will work in tandem with stakeholders to develop achievable sustainability goals. The USGS model will be used to establish minimum thresholds for achieving sustainability goals. Quantitative measurable objectives will be set for 5-, 10-, and 15 years to ensure achievement of the sustainability goals.

This task has not yet begun and is 0% complete.

••●*Deliverables*●••

- “Undesirable Results, Minimum Thresholds, and Measurable Objectives” chapter of the Yucaipa GSP (provided as part of Task 12).

#### Identify and Evaluate Management Actions

Once the management goals are understood as part of Task 6, the GSA will coordinate with stakeholders to evaluate and select appropriate management actions to achieve sustainability. Infiltration testing is proposed (Task 7) to support review and evaluation of management actions related to recharge.

#### Task 7. Identify Projects and Management Actions to Achieve Sustainability Goal

The GSA will coordinate with the stakeholders to identify management options designed to meet GSP objectives and achieve sustainability within 20 years of plan implementation. As a first step current and planned projects will be identified. The GSA will also solicit input on proposed management actions and projects to bridge the gap between projected conditions and sustainable conditions.

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Potential projects and programs will be cataloged and then ranked using a weighting scheme based on objectives and ability to implement. The most feasible projects/management actions will be modeled using the USGS model. Starting with the most desirable project, the GSA shall establish how many projects, programs, or policies are necessary to achieve sustainability in the basin.

This task has not yet begun and is 0% complete.

### ••●*Deliverables*●••

- “Projects and Management Actions to Achieve Sustainability Goal” chapter of the Yucaipa GSP (provided as part of Task 12).

### **Task 8. Infiltration Testing**

This task includes activities to plan for and conduct infiltration testing to address data needs related to conjunctive use of State Water Project water supplies and increasing basin recharge with natural storm runoff and recycled water.

#### Activities Completed

Valley District and its partner agencies completed preliminary field investigations across the Yucaipa Basin and identified thirteen (13) investigation sites potentially suitable for future recharge facilities. The site reconnaissance visit was conducted on April 27, 2016. Subsequently an Infiltration Test Work Plan was completed in January 2017 to provide Valley District and its partners the information needed to: (1) prioritize investigation sites for testing, (2) prepare and plan for the implementation of the infiltration tests, (3) provide the data needed to obtain permits from local, state, and federal regulatory agencies. Subsequently Valley District obtained all necessary permits for the infiltration testing including a Flood Control Permit Application for work in the San Bernardino County Flood Control District right-of-way and a California Department of Fish Wildlife Streambed Alteration Agreement (for temporary work in streams). Valley District also provided notification to the Santa Ana Regional Water Quality Control Board documenting consistency with the 2012 Certified Nationwide Permit.

#### Activities Planned

The next step for this task is to conduct a series of short-term infiltration tests to determine favorability of recharge sites for long-term groundwater recharge. Test results will provide a planning-level estimate of the long-term infiltration capacity of each investigation site and will help inform the GSP.

This task is approximately 40% complete.

### ••●*Deliverables*●••

- Copy of the Infiltration Test Work Plan (available to DWR upon request)
- San Bernardino County Flood Control District Flood Control Permit
- California Department of Fish Wildlife Streambed Alteration Agreement
- Notification of Consistency with 2012 Certified Nationwide Permit
- Summary of Infiltration Test Results

### Implementing the Plan and Adaptive Management

Tasks 9 through 14 focus on documenting the administrative functions for the GSA (scheduling, budgeting, managing grants) as well as setting the parameters for monitoring progress, reporting progress and modifying the GSP to insure sustainability.

#### **Task 9. Define Plan Implementation Actions**

An estimate of costs for GSP implementation will be developed, including a working annual budget for GSP implementation by the GSA. Potential income streams for funding GSP implementation will be identified. A schedule for implementation of the plan will be developed. A template for reporting will be developed. The process and triggers for GSP evaluation will be documented.

This task has not yet begun and is 0% complete.

##### ••●Deliverables●•

- “Plan Implementation Actions” chapter of the Yucaipa GSP (provided as part of Task 12).

#### **Task 10. Describe Existing and Planned Monitoring Network**

Previous investigations have already inventoried and mapped the existing monitoring network. The existing monitoring network will be evaluated for its ability to monitor each of the sustainability indicators. Recommendations will be made for enhancing the monitoring network or the monitoring protocols to adequately track progress toward sustainability goals.

This task has not yet begun and is 0% complete.

##### ••●Deliverables●•

- “Existing and Planned Monitoring” chapter of the Yucaipa GSP (provided as part of Task 12).

#### **Task 11. Develop Framework for Data Management System**

The GSA will develop a framework for the DMS database once the USGS model is completed, the existing and planned monitoring network has been assessed, and the template for reporting has been developed. The deliverable for this task is a memorandum discussing the database architecture alternatives reviewed and a high-level overview of the preferred architecture of the DMS. A DMS database specifications sheet will be developed along with a DMS cost estimate.

This task has not yet started and is 0% complete.

##### ••●Deliverables●•

- DMS Memorandum

#### **Task 12. Draft and Final GSP**

Using the information generated in Tasks 1 through 11 and Tasks 15 and 16, an administrative draft GSP will be prepared for circulation, review and comment by the GSA and stakeholders. This will also be a “check-in” point with DWR. Based on stakeholder comments a draft GSP will be prepared. A public hearing will be held on the draft GSP. The comments received on the draft GSP will be considered by the GSA prior to plan adoption.

This task has not yet begun and is 0% complete.

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### ••● Deliverables ●••

- Administrative Draft Yucaipa Basin GSP
- Draft Yucaipa Basin GSP
- Final Yucaipa Basin GSP
- Copy of adoption resolution

### Task 13. GSP Submittal to DWR for Review and Approval

Upon finalization and adoption by the GSA, the final GSP will be submitted to DWR for review and approval. As part of this task, a 60-day comment period is required per SGMA for DWR to receive comments on adopted GSPs.

This task has not yet begun and is 0% complete.

### ••● Deliverables ●••

- Copy of DWR confirmation of receipt of GSP
- Copy of DWR approval letter

### Task 14. Grant Administration

This task includes management of the grant agreement including compliance with grant requirements and provision of supporting grant documentation as requested by DWR. This task includes preparation and submission of quarterly invoices and progress reports to DWR. Valley District will work with a consultant to perform this task.

This task also includes administrative responsibilities associated with the project such as coordinating with partnering agencies and managing consultants/contractors.

This task will begin upon grant award and is 0% complete.

### ••● Deliverables ●••

- Quarterly Invoices and Progress Reports
- Draft/Final Grant Completion Report

## Establish Framework for Local Management of Groundwater Resources

One of the stated purposes of the SGMA legislation was to have local agencies collaborate to sustainably manage groundwater. Per SGMA, groundwater management agencies must consider interests of all beneficial uses and users of groundwater such as holders of overlying groundwater rights (including agriculture users and domestic well owners), public water systems, local land use planning agencies, environmental users, surface water users, federal government, California Native American tribes, and disadvantaged communities. A major milestone in establishing local management local groundwater was the formation of the Yucaipa GSA in May 2017. As part of Task 15 the work of forming the GSA will be documented and other necessary actions to bolster local management will take place. As shown in Tasks 16 and 17 data, knowledge, and input from the various interested parties will be used to guide development of the GSP.

### Task 15. Establish Governance of GSA

Valley District, Western Heights Water Company, Yucaipa Valley Water District, South Mesa Water Company, South Mountain Water Company, Pass Water Agency, the City of Calimesa, the City of Redlands, the City of Yucaipa, Riverside County, and San Bernardino County have been working cooperatively to develop a GSP for the Yucaipa Basin. In May 2017 these entities executed an MOA forming the Yucaipa GSA.

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The MOA laid out the roles and responsibilities of the participating agencies, management and voting structure, and identified stakeholders.

### Activities Completed

The governance structure of the GSA is complete. A list of “Interested Parties” has been completed.

### Activities Planned

Development of GSA bylaws is pending. Development of an interbasin agreement to facilitate data sharing and coordination with the San Bernardino Basin Area will also occur under this task. This task will culminate in the preparation of the governance chapter of the GSP.

This task is 90% complete.

#### ••●Deliverables●•

- GSA bylaws
- Interbasin Agreement with the San Bernardino Basin Area
- “Governance” chapter of the Yucaipa GSP (provided as part of Task 12).

### **Task 16. Develop and Implement Coordinated Outreach Plan**

During GSA formation the various entities participating in the GSA undertook separate outreach efforts. Rather than having an ad hoc approach to outreach, as part of Task 16 a coordinated plan will be developed. The plan will document communication channels, a communications schedule, and stakeholder engagement opportunities. As part of this task, the interested parties list will be reviewed to be sure it captures the appropriate contact information for all Yucaipa Basin beneficial users (agricultural users, domestic well owners, municipal well operators, public water systems, local land use planning agencies, environmental users of groundwater, surface water users, managers of federal lands, California Native American tribes, and disadvantaged communities). A website will be developed to facilitate outreach and will provide a meeting calendar, meeting handouts, house documents for public review, and contact information so that any interested persons can stay involved. Basic GSP materials will be developed. These materials will be suitable for both hardcopy and web viewing. Handouts will be developed to accompany the Initial Notification sent to DWR, tribes, and the legislative bodies of local jurisdictions that will describe the manner in which interested parties may participate in the development and implementation of the GSP. The planned schedule for GSP development will also accompany the Initial Notification so as to give interested parties adequate notification time.

Included in this task are updates to the website and outreach materials during the course of GSP development.

A specific activity in Task 16 is defining methods to reach out to disadvantaged community (DAC) groups. The Santa Ana Watershed Project Authority, in coordination with the US Bureau of Reclamation, recently conducted a DAC needs assessment which identified specific contacts for outreach to low-income, minority, and Spanish-speaking communities; these contacts include non-profits such as the California State University San Bernardino Water Resources Policy Institute and the Environmental Justice Coalition for Water. These groups will be asked to provide input to the Outreach Plan to ensure broad participation in GSP development and implementation.

This task has not yet started and is 0% complete.

#### ••●Deliverables●•

- Outreach Plan

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- Updated Interested Parties List
- GSP Initial Notification and Distribution List
- Website Printouts
- Public Notice of Proposed GSP Adoption

**Task 17. Technical Advisory Committee**

This task consists of meetings and coordination activities to promote stakeholder and technical input to GSP development activities. The intent is to engage the most interested parties to participate in a Technical Advisory Committee specific to the Yucaipa Basin GSP. All beneficial users and interested parties will be allowed to participate in TAC meetings – though the focus of the TAC meetings will be technical. Participants in the TAC will be asked to provide specific input, data, and advice. The planned meetings also include milestones at which time the GSA will “check-in” with DWR to insure a compliant GSP. The table below summarizes the coordination meetings proposed:

<b>Meeting Topic</b>	<b>Audience</b>	<b>Desired Outcome</b>
GSP Kickoff	Interested parties, land use jurisdictions, tribes, disadvantaged community contacts, general public, DWR representative	<ul style="list-style-type: none"> <li>• Build upon initial “interested parties list”.</li> <li>• Define roles and responsibilities of TAC</li> <li>• Establish TAC membership</li> </ul>
USGS Model Inputs	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Collective understanding of the model assumptions, appropriate use of model, and model limitations</li> </ul>
Evaluation of Historic Groundwater Conditions	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish common understanding of groundwater conditions – with focus on groundwater levels</li> </ul>
Evaluation of Historic Groundwater Conditions	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish common understanding of groundwater conditions – with focus on groundwater quality</li> </ul>
Water Budget	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish common understanding of groundwater inputs</li> </ul>
Water Budget	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish common understanding of groundwater outputs</li> </ul>
Define Undesirable Results and Minimum Thresholds	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish definition of undesirable results and minimum thresholds related to groundwater levels and storage</li> </ul>
Define Undesirable Results and Minimum Thresholds	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish definition of undesirable results and minimum thresholds related to groundwater quality</li> </ul>
Define Undesirable Results and Minimum Thresholds	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Establish definition of undesirable results and minimum thresholds related to other groundwater parameters</li> </ul>
Actions to Achieve Sustainability	TAC, others as identified in Outreach Plan	<ul style="list-style-type: none"> <li>• Take input and advice on current, planned, and proposed actions to achieve sustainability</li> </ul>



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		<ul style="list-style-type: none"> <li>• Finalize project ranking system</li> <li>• Review ranking of implementation actions</li> </ul>
Actions to Achieve Sustainability	TAC, others as identified in Outreach Plan	
Administrative Draft GSP	Interested parties, land use jurisdictions, tribes, disadvantaged community contacts, general public, DWR representative	<ul style="list-style-type: none"> <li>• Review major findings of the GSP, solicit comments on the administrative draft GSP</li> </ul>
Draft GSP	Interested parties, land use jurisdictions, tribes, disadvantaged community contacts, general public, DWR representative	<ul style="list-style-type: none"> <li>• To inform the GSA prior to the decision to adopt the Yucaipa Basin GSP</li> </ul>

As can be seen in the chart above, stakeholder meetings will be held throughout the GSP development process in combination with TAC meetings. Stakeholders will be notified regarding opportunities for participation and the ongoing process by various means of outreach processes including partner agency websites, emails, newsletters, and phone calls, as defined in the Outreach Plan (Task 16).

This task is approximately 1% complete.

••●*Deliverables*●••

- TAC Distribution List
- TAC Meeting Summaries

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**BUDGET**

**Project Budget**

Table 5-1 illustrates estimated costs for work plan tasks and subtasks. Costs are based on the USGS proposal to prepare the Groundwater Model, consultant proposal to perform infiltration testing, estimates from agency staff who participate in management of the adjacent San Bernardino Basin Area, and estimates from consultants familiar with GSP preparation. Table 5-2 presents a rollup budget for the project by budget category. Because approximately 23% of the project benefit area qualifies as either a disadvantaged community or severely disadvantaged community; Valley District is requesting a reduction in the cost share requirement from 50% to 40%. Local cost share will come from agency contributions as defined in the Memorandum of Understanding used to form the GSA.

**Table 5-1. Budget Assumptions and Estimates**

Task	Cost
<b>Budget Category A</b>	
14 Grant Administration	20,000
<i>Subtotal Budget Category A</i>	<i>\$20,000</i>
<b>Budget Category B</b>	
1 USGS Groundwater Model	598,800
2 Current and Historic Groundwater Conditions	20,000
3 Plan Area Including Land Use	60,000
4 Water Budget and Sustainable Yield	18,000
5 Define Management Areas	12,480
6 Define Undesirable Results, Minimum Thresholds, Measurable Objectives	30,000
7 Identify Projects and Management Actions to Achieve Sustainability	30,000
8 Infiltration Testing	367,264
9 Define Plan Implementation Actions	17,000
10 Describe Existing and Planned Monitoring Network	6,000
11 Develop Framework for Data Management System	3,500
12 Draft and Final GSP	30,000
13 GSP Submittal to DWR for Review and Approval	600
<i>Subtotal Budget Category B</i>	<i>\$1,193,644</i>
<b>Budget Category C</b>	
15 Establish Governance of GSA	20,000
16 Develop and Implement Coordinated Outreach Plan	100,000
17 Technical Advisory Committee	25,000
<i>Subtotal Budget Category C</i>	<i>\$145,000</i>
<b>Budget Category D</b>	
	0
<i>Subtotal Budget Category D</i>	<i>\$0</i>
	<b>\$1,358,644</b>

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**Table 5-2. Project Budget (Table 4 from PSP)**

**Proposal Title:** Yucaipa Groundwater Sustainability Plan

**Project Title:** Yucaipa Groundwater Sustainability Plan

Project serves a need of a DAC?:  Yes  No

Cost Share Waiver requested?  Yes  No

Tasks	(a)	(b)	(c)	(d)
	Requested Grant Amount	Cost Share: Non-State Fund Source <sup>1,2</sup>	Other Cost Share	Total Cost
(a) Direct Project Administration	0	20,000	0	20,000
(b) Plan Development	815,100	378,544	0	1,193,644
(c) Stakeholder Engagement	0	145,000	0	145,000
(d) N/A		0		0
(e) Grand Total Sum (a) through (d)	\$815,100	\$543,544	\$0	\$1,358,644

1. Sources of cost share are agency contributions.

2. A cost share reduction from 50% to 40% is being requested.

**Proposal Budget**

There is only one project proposed in this application, therefore the project and the proposal budget are the same (see Table 5-3 below). As stated above, Valley District is requesting a reduction in the cost share requirement from 50% to 40% due to the fact that approximately 23% of the project benefit area qualifies as either a disadvantaged community or severely disadvantaged community.

**Table 5-3. Proposal Budget (Table 5 from PSP)**

**Proposal Title:** Yucaipa Groundwater Sustainability Plan

Project serves a need of a DAC?:  Yes  No

Cost Share Waiver requested?  Yes  No

Tasks	(a)	(b)	(c)	(d)	(e)
	Requested Grant Amount	Cost Share: Non-State Fund Source <sup>1,2</sup>	Other Cost Share	Total Cost	% Cost Share (Col b/Col d)
(a) Arlington GW Sustainability Plan	815,100	543,544	0	1,358,644	40%
Proposal Sum (a) through (d)	\$815,100	\$543,544	\$0	\$1,358,644	40%

1. Sources of cost share are agency contributions.

2. A cost share reduction from 50% to 40% is being requested.

## SCHEDULE

### Project Schedule

There is one project proposed in this application, the Yucaipa Groundwater Sustainability Plan (GSP). The anticipated schedule is provided in Figure 6-1. Figure 6-1 shows the start and end dates for each task and subtask in the work plan.

Four items affect the schedule:

- The need to complete a GSP by January 31, 2022. The goal is to finish the Yucaipa GSP well ahead of this date (mid-2021).
- Anticipated grant award in January 2018.
- The timeframe needed to complete the USGS Groundwater Model. Task 7 requires operation of the groundwater model to evaluate possible management actions. The schedule takes this dependency into account and also gives consideration to tasks that could be accomplished independently of the model.
- The need to leave adequate time for stakeholder input. The schedule allows for orderly and regular meetings with the Technical Advisory Committee, when appropriate data is available, and at times when input can inform and shape GSP content.

Work related to infiltration testing and the USGS Groundwater Model started in 2016 but the main tasks of the GSP will start in January 2018. The earliest tasks relate to establishing the framework for local Management of groundwater resources (Tasks 15-17). Once an outreach plan is defined and the Technical Advisory Committee established, the work of the GSP will gain momentum. The intent is to define current and historic groundwater conditions, describe the plan area, evaluate water budgets, and define undesirable results while the USGS Model is still under development. Once the USGS Model is ready, it will be possible to evaluate and prioritize possible management actions. The various tasks will culminate in an Administrative Draft GSP. Upon review and input to the Administrative Draft GSP, a Public Draft GSP will be prepared. The GSA will consider the Public Draft GSP and any comments and provide direction on preparing a Final GSP for adoption and submittal to DWR.

### Proposal Schedule

There is only one project proposed in this application, therefore the project and the proposal schedule are the same. The overall proposal schedule is approximately three and a half years, extending from grant award in January 2018 to June 2021.

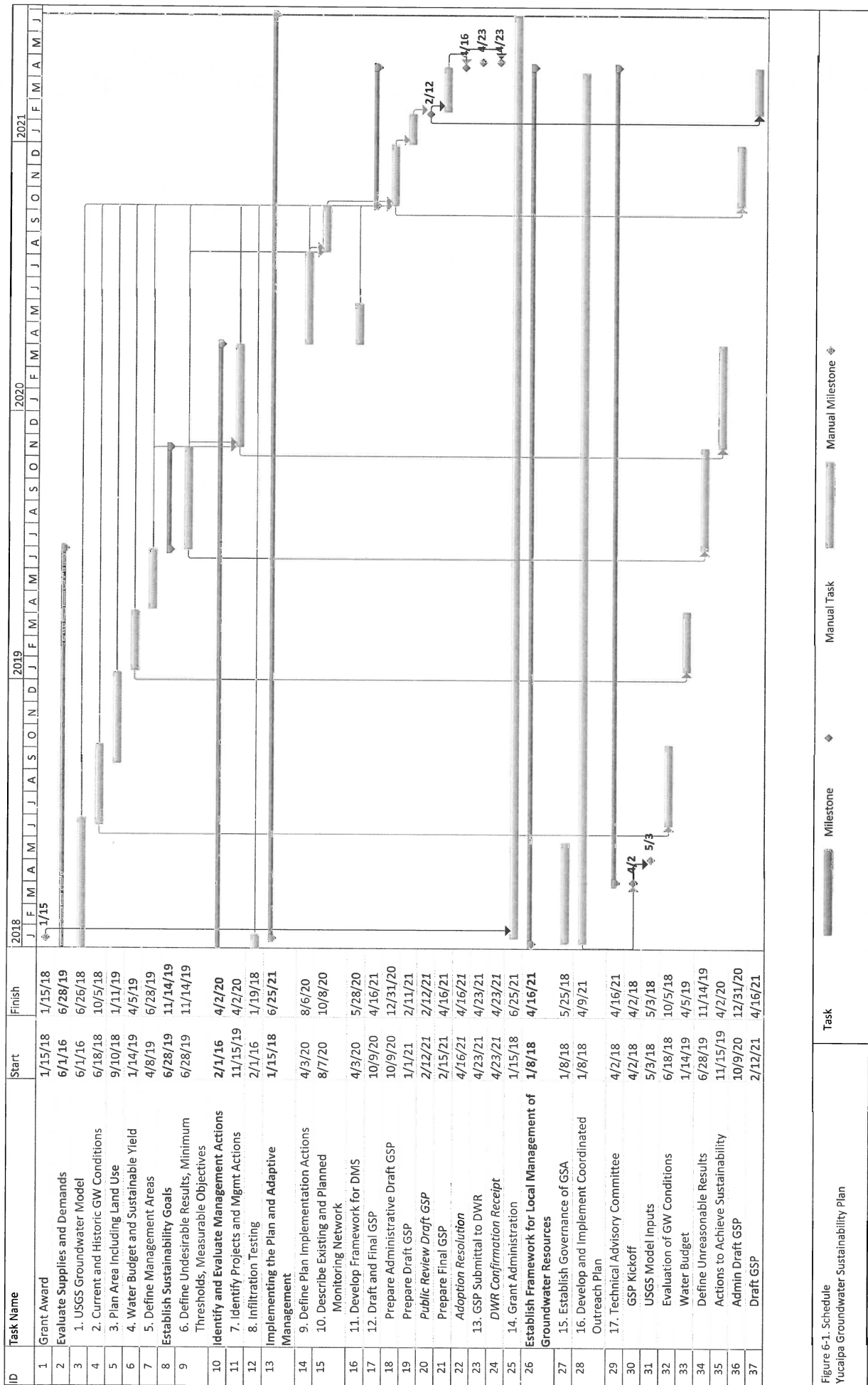


Figure 6-1. Schedule Yucaipa Groundwater Sustainability Plan

## DISADVANTAGED COMMUNITY

According to Proposition 1 Sustainable Groundwater Planning Grant Program Guidelines, a Disadvantaged Community (DAC) is a community with an annual median household income (MHI) that is less than 80 percent of the Statewide annual MHI. Based on American Community Survey (ACS) data for the years 2010-2014, the Statewide MHI value is \$61,489 and hence the DAC threshold is \$49,191.

Based on DAC census tract data<sup>1</sup> for the Yucaipa Basin GSA service area, which is considered to be the project benefit area, 18 percent of the area meets the DAC criterion. See Figure 7-1. For those areas, the MHI ranges between \$29,444 and \$46,514. An additional 4.7 percent of the project benefit area meets the SDAC criteria, as will be discussed in Attachment 9.

The proposed Yucaipa Basin GSP, which is the desired final product of this proposal, will help improve groundwater management across the project benefit and will equally benefit DACs as well as non-DACs.

Based on Program Guidelines, if 50 percent or more of the project area is a DAC, SDAC or Economically Distressed Area (EDA), the applicant can request a 100 percent waiver on cost share. For the Yucaipa Basin the DAC/SDAC coverage is about 23 percent; a cost share reduction from 50% to 40% is requested.

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<sup>1</sup> Data from Department of Water Resources Disadvantaged Communities Mapping Tool, based on *US Census American Community Survey (ACS) 5-Year Data: 2010-2014*.



## ECONOMICALLY DISTRESSED AREA

According to Proposition 1 Sustainable Groundwater Planning Grant Program Guidelines, an Economically Distressed Area (EDA) is a municipality with a population of 20,000 persons or less, a rural county, or a reasonably isolated and divisible segment of a larger municipality where the segment of the population is 20,000 persons or less, with an annual median household income that is less than 85 percent of the statewide median household income, and with one or more of the following conditions as determined by the Department of Water Resources (DWR): (1) financial hardship, (2) unemployment rate at least 2 percent higher than the statewide average, or (3) low population density.

Based on American Community Survey (ACS) data for the years 2010-2014, the Statewide MHI value is \$61,489 and hence the EDA threshold of 85 percent is \$52,266.

While some areas within the Yucaipa Basin meet certain components of an economically distressed area (EDA), such as a population of less than 20,000 or annual median household income (MHI) less than 85 percent of the statewide MHI, no area meets all criteria that would deem the area an EDA. Therefore, no waiver or reduction in cost share is being requested based on EDA applicability.



## SEVERELY DISADVANTAGED COMMUNITY

According to Proposition 1 Sustainable Groundwater Planning Grant Program Guidelines, a Severely Disadvantaged Community (SDAC) is a community with an annual median household income (MHI) that is less than 60 percent of the Statewide annual MHI. Based on American Community Survey (ACS) data for the years 2010-2014, the Statewide MHI value is \$61,489 and hence the SDAC threshold is \$36,893.

Based on DAC census tract data<sup>1</sup> for the Yucaipa Basin service area, which is considered to be the project benefit area, 4.7 percent of the area meets the SDAC criterion. See Figure 9-1. For those areas, the MHI ranges between \$29,444 and \$34,121, thereby clearly falling below 60 percent of the Statewide MHI.

The proposed Yucaipa Basin GSP, which is the desired final product of this proposal, will help improve groundwater management across the Basin's service area and will equally serve DACs (including SDACs) as well as non-DACs (and non-SDACs).

Based on Program Guidelines, if 50 percent or more of the project area is a DAC, SDAC or Economically Distressed Area (EDA), you can request a 100 percent waiver on cost share. Therefore, in this case, as the DAC/SDAC coverage is about 22 percent, we're requesting a cost share reduction by up to that amount.

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<sup>1</sup> Data from Department of Water Resources Disadvantaged Communities Mapping Tool, based on *US Census American Community Survey (ACS) 5-Year Data: 2010-2014*.



**Groundwater Sustainability Plan - Anticipated Costs**

USGS Groundwater Model - \$598,800 (Valley District)

Infiltration Work Plan - \$67,264 (Previously Paid)

	Total Cost	Requested Grant Funds	Local Share	Previously Paid	Balance
<b>Water Purveyors</b>					
<b>GSA Cost Sharing - 75%</b>					
South Mesa Water Company (18.75%)	\$142,470.75	(\$85,482.45)	\$56,988.30	(\$5,529.57)	\$51,458.73
South Mountain Water Company (18.75%)	\$142,470.75	(\$85,482.45)	\$56,988.30	\$0.00	\$56,988.30
Western Heights Water Company (18.75%)	\$142,470.75	(\$85,482.45)	\$56,988.30	(\$5,212.47)	\$51,775.83
Yucaipa Valley Water District (18.75%)	\$142,470.75	(\$85,482.45)	\$56,988.30	(\$15,564.09)	\$41,424.21
<b>Sum</b>	\$569,883.00	(\$341,929.80)	\$227,953.20	(\$26,306.13)	\$201,647.07
<b>Municipalities and Regionals</b>					
<b>GSA Cost Sharing - 25%</b>					
City of Calimesa (5%)	\$37,992.20	(\$22,795.32)	\$15,196.88	\$0.00	\$15,196.88
City of Redlands (5%)	\$37,992.20	(\$22,795.32)	\$15,196.88	\$0.00	\$15,196.88
City of Yucaipa (5%)	\$37,992.20	(\$22,795.32)	\$15,196.88	(\$6,235.48)	\$8,961.40
San Bernardino Valley MWD (5%)	\$636,792.20	(\$382,075.32)	\$254,716.88	(\$29,932.81)	\$224,784.07
San Geronio Pass Water Agency (5%)	\$37,992.20	(\$22,795.32)	\$15,196.88	(\$4,789.57)	\$10,407.31
<b>Sum</b>	\$788,761.00	(\$473,256.60)	\$315,504.40	(\$40,957.86)	\$274,546.54
<b>TOTAL</b>	<b>\$1,358,644.00</b>	<b>(\$815,186.40)</b>	<b>\$543,457.60</b>	<b>(\$67,263.99)</b>	<b>\$476,193.61</b>

*Note:* A cost share reduction from 50% to 40% is being requested.





Figure 6-1. Schedule  
Yucaipa Groundwater Sustainability Plan

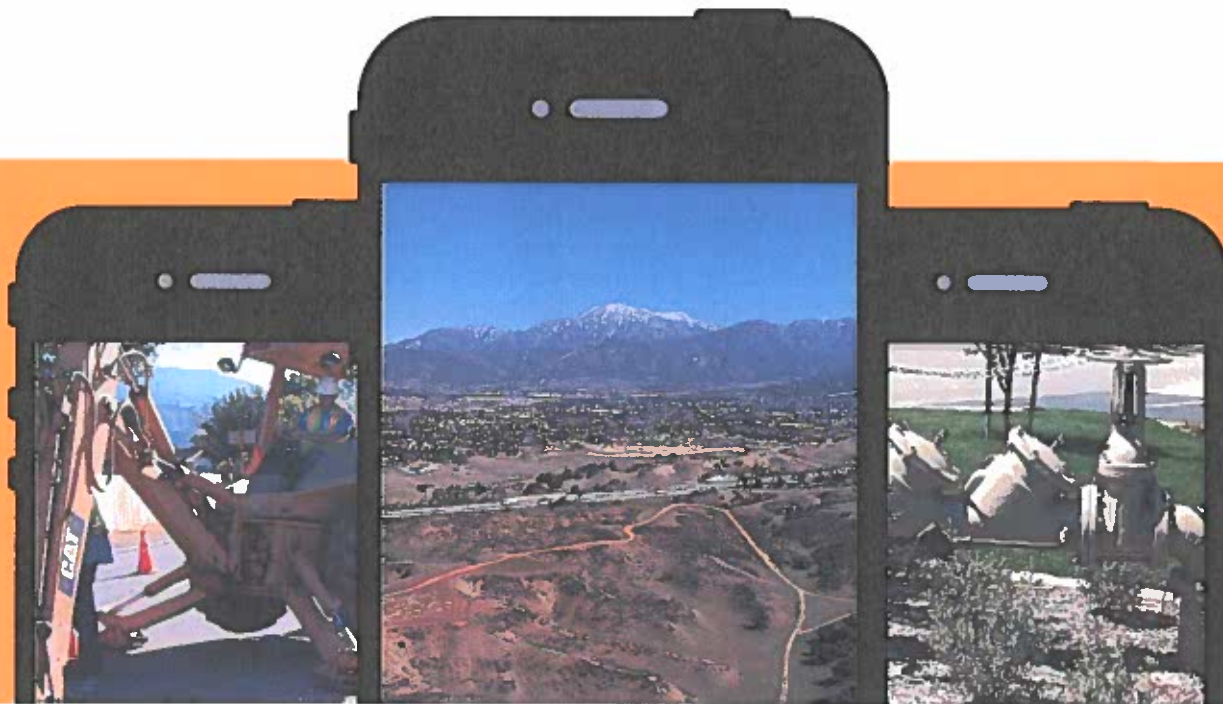




**Discussion Regarding the  
Implementation of a Website and  
Public Outreach Campaign**

## **OUTREACH AND EDUCATION PROGRAM POSSIBILITIES**

1. Develop and maintain website
  - General information of GSA
  - Agendas
  - Calendar of events
  - Document portal
  - Contact information
2. Prepare outreach materials
  - Purpose and goal of GSP
  - Participation in GSP development and implementation
  - Develop schedule of GSP development and implementation
  - Prepare and distribute updates
  - Maintain a list of FAQs
  - Develop and maintain mailing list of stakeholders and interested parties
3. Media and Public Information
4. Prepare for and conduct workshops or individual meetings with interested stakeholders
  - City advisory committees
  - Agricultural pumpers (?)
  - Yucaipa-Calimesa School District
  - Crafton Hills College
  - Chamber of Commerce
  - San Manuel and/or Morongo Band of Mission Indians
  - Disadvantaged communities (neighborhoods)
5. Prepare and conduct surveys
6. Present updates to legislative bodies



# Website Estimate Yucaipa Groundwater Sustainability Agency

**Project ID#** GRDWTR-YUCWEB18

**Prepared for:**

Tammy Vaughan

**City of Yucaipa**

34272 Yucaipa Blvd.  
Yucaipa, CA 92399

**P** 909-797-2489 **E** tvaughan@yucaipa.org

**Proposal Issued:**

02.19.2018

**Proposal Valid Through:**

09.15.2018





**UNDERSTANDING  
THE PROJECT**

—

**PROJECT SCOPE**

In accordance to the Sustainable Groundwater Management Act, the City of Yucaipa is partnering with the Yucaipa Valley Water District and other bureaus to form the Yucaipa Groundwater Sustainability Agency.

It is our intention at Fisher Design Group to support this partnership by providing professional web design services for the purpose of posting timely information such as agendas, minutes and links to resources related to the agency's initiatives.

In order to successfully support the design and development of this project, we have identified more than a few discussion points that need to be defined in order to provide an accurate estimate. We believe the best way to discuss and define these points would be through the adjoining "Web Design Primer" questionnaire.

Sincerely,

Anthony Fisher, President  
Fisher Design Group  
E: anthony@anthonyleonfisher.com  
(909) 831-9089



**PRELIMINARY ESTIMATE**

**PROJECT SCOPE**

In an attempt to provide an estimate based on our current knowledge and understanding of the website project, (not withstanding the feedback from the "Web Design Primer" questionnaire) below is our preliminary estimate.

Descriptions	Delivered by	Amount
<b>DOMAIN NAME REGISTRATION &amp; HOSTING SETUP</b> GoDaddy and Media Temple	September 15, 2018	\$100
<b>PLATFORM</b> Wordpress Content Management System Setup	September 15, 2018	\$60
<b>SITE PRODUCTION</b> Server configuration, Site development, page builds, image editing, plugin configuration, user accounts, google analytics	September 15, 2018	\$2700

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<b>ESTIMATE</b>	<b>\$2860</b>

**Note:** This is a preliminary estimate only.

**THANK YOU FOR CONSIDERING DOING BUSINESS WITH US.**

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## Web Design Primer (1)

### PROJECT DETAILS

What is your budget for this project?

What is your budget for web hosting or do you already have a host (if so, which provider)? Are you open to switching to a different hosting package?

What is your current content management system if you have one?

Please list all special functionality you would like on your site (email newsletter sign-up, event calendar, contact form, directories/ listings, social feed embed, map embeds, live chat, etc.). Please be as specific as possible and list by priority - these will greatly influence the project scope and budget.

What third party applications are/will be connected with your website (Mailchimp, PayPal, etc.)?

Is there anything not visible to the public that we should consider? A login site for members, digital media library, etc.?

Are there any other sites/microsites that would be included in this project?

Do you currently maintain your own website? Are you interested in a maintenance package? What is the desired launch date?

### CONTENT

Will you require copywriting services or will you generate all the content internally?

If possible, please provide a site outline. Please go as many levels deep as you feel comfortable at this point. A comprehensive sitemap will be created as a part of the project discovery process.

**As an example, consider the following rough outline:**

- A. Home Page
- B. The Film
  - Story
  - Characters
  - Locations
- C. Multimedia
  - Clips
  - Timeline
  - Still Images
- D. Behind the Scenes
  - Concept
  - Editing
  - Support
- E. Contact Us
  - Filmmakers
  - Information



## Web Design Primer (2)

### DESIGN

Do you have an existing logo and style guide?

List three words that best describe the look and feel you would like your site to have.  
Examples: Professional, Bold, Fun, Corporate, Edgy, Minimal, Clean, Artsy

What are the top sections/functionalities that you want to drive traffic to?

What is the top 3 missions of the website? (For example, 1. Donations 2. Events Promotion 3. Share news with donors)

**Please list a few example sites below that give insight into what you want to accomplish in both design and function.**

Site #1: <http://www>.

What design aspects do you like about this site? What do you dislike?

Site #2: <http://www>.

What design aspects do you like about this site? What do you dislike?

Site #3: <http://www>.

What design aspects do you like about this site? What do you dislike?

### CONCLUSION

I would like to thank you very much for choosing me Fisher Design Group for your web design and development needs. Hopefully this primer will help you ease into this online endeavor. If you have any questions or comments, please don't hesitate to email me at [anthony@anthonyleonfisher.com](mailto:anthony@anthonyleonfisher.com)

# fisherdesigngroup

**ADDRESS.**

11639 Deerfield Dr.  
Yucaipa, CA 92399

P. (909) 831-9089

E. [anthony@anthonyleonfisher.com](mailto:anthony@anthonyleonfisher.com)

W. [anthonyleonfisher.com](http://anthonyleonfisher.com)