CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY BOARD OF DIRECTORS

Board of Directors

Derek Yurosek Chairperson, Cuyama Basin Water District
Lynn Compton Vice Chairperson, County of San Luis Obispo
Das Williams Santa Barbara County Water Agency
Cory Bantilan Santa Barbara County Water Agency
Glenn Shephard County of Ventura
Zack Scrivner County of Kern
Paul Chounet Cuyama Community Services District
George Cappello Cuyama Basin Water District
Byron Albano Cuyama Basin Water District
Jane Wooster Cuyama Basin Water District
Tom Bracken Cuyama Basin Water District

AGENDA

October 3, 2018

Agenda for a meeting of the Cuyama Basin Groundwater Sustainability Agency Board of Directors to be held on Wednesday, October 3, 2018 at 4:00 PM, at the Cuyama Valley Family Resource Center, 4689 CA-166, New Cuyama, CA 93254. To hear the session live call (888) 222-0475, code: 6375195#.

Teleconference Locations:

Cuyama Valley Family Resource Center
4689 CA-166
New Cuyama, CA 93254

County Government Center
1055 Monterey Street, Room D361
San Luis Obispo, CA 93408

The order in which agenda items are discussed may be changed to accommodate scheduling or other needs of the Board or Committee, the public, or meeting participants. Members of the public are encouraged to arrive at the commencement of the meeting to ensure that they are present for discussion of all items in which they are interested.

In compliance with the Americans with Disabilities Act, if you need disability-related modifications or accommodations, including auxiliary aids or services, to participate in this meeting, please contact Taylor Blakslee at (661) 477-3385 by 4:00 p.m. on the Friday prior to this meeting. Agenda backup information and any public records provided to the Board after the posting of the agenda for this meeting will be available for public review at 4689 CA-166, New Cuyama, CA 93254. The Cuyama Basin Groundwater Sustainability Agency reserves the right to limit each speaker to three (3) minutes per subject or topic.

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Approval of Minutes
    a. September 5, 2018
5. Report of the Standing Advisory Committee
6. Technical Forum Update

7. Groundwater Sustainability Plan
    a. Groundwater Sustainability Plan Update
        i. Monitoring Networks Section Release
        ii. Update on Groundwater Conditions Section
        iii. Update on Data Management System Release
        iv. Management Areas Discussion
    b. Hydrogeologic Conceptual Model Section Adoption
    c. Stakeholder Engagement Update
8. Groundwater Sustainability Agency
    a. Report of the Executive Director
    b. Progress & Next Steps
    c. Report of the General Counsel
9. Financial Report
    a. Financial Management Overview
    b. Financial Report
    c. Payment of Bills
10. Reports of the Ad Hoc Committees
11. Directors' Forum
12. Public comment for items not on the Agenda

    At this time, the public may address the Board on any item not appearing on the agenda that is within the subject matter jurisdiction of the Board. Persons wishing to address the Board should fill out a comment card and submit it to the Board Chair prior to the meeting.
13. Adjourn

Joint Meeting of Cuyama Basin Groundwater Sustainability Agency Board of Directors and Standing Advisory Committee

September 5, 2018

Draft Meeting Minutes

Cuyama Valley Family Resource Center, 4689 CA-166, New Cuyama, CA 93254
Cuyama Valley Recreation District, 4885 Primero St, New Cuyama, CA 93254

PRESENT:

Board of Directors:
Yurosek, Derek - Chair
Williams, Das
Compton, Lynn
Albano, Byron
Shephard, Glenn
Bantilan, Cory
Bracken, Tom
Cappello, George
Chounet, Paul
Scrivner, Zack
Wooster, Jane
Beck, Jim – Executive Director
Hughes, Joe – Legal Counsel

Standing Advisory Committee:
Jaffe, Roberta – Chair
Kelly, Brenton – Vice Chair
Alvardo, Claudia
DeBranch, Brad
Draucker, Louise
Furstenfeld, Jake
Haslett, Joe
Post, Mike

ABSENT:

Board of Directors:
None

Standing Advisory Committee:
Valenzuela, Hilda Leticia

1. **Call to order**
   Chair Derek Yurosek called the meeting to order at 4:02 p.m.

2. **Roll call**
   Hallmark Group Project Coordinator Taylor Blakslee called roll (shown above) and informed Chair Yurosek that there was a quorum of the Board and Standing Advisory Committee.

3. **Pledge of Allegiance**
   The pledge of allegiance was led by Chair Yurosek.

4. **Approval of Minutes**
   Chair Yurosek opened the floor for comments on the August 1, 2018 CBGSA Board meeting minutes. A minor edit was suggested, and a motion was made by Director George Cappello to adopt the minutes and seconded by Glenn Shephard. A roll call vote was made, Director Das Williams abstained from the vote, and the motion passed.

5. Report of the General Counsel

a. Conflict of Interest Code

The Cuyama Basin Groundwater Sustainability Agency (CBGSA) Board of Directors approved the Conflict of Interest (COI) Code in June of 2017 when the Agency was formed. After approval, the COI Code went to the California Fair Political Practices Commission for comments and revisions to be presented to the CBGSA Board at the September 5, 2018 meeting. Legal Counsel Joe Hughes provided an overview of the COI Code, which is provided in the Board packet.

A motion was made by Director Paul Chounet to readopt the COI Code and seconded by Director Williams. A roll call vote was made and the motion passed unanimously.

6. Report of the Standing Advisory Committee

CBGSA SAC Chair Roberta Jaffe provided a report on the August 30, 2018 SAC meeting, which is provided in the Board packet.

SAC Chair Jaffe informed that Board that the SAC approved the Groundwater Sustainability Plan (GSP) Section Development Strategy and Responsibly memo that CBGSA Executive Director Jim Beck drafted. She reported that the memo depicted the SAC and Board's responsibilities for GSP document review. Additionally, she reported that the SAC tabled the study group concept for GSP section review, and it is on the agenda for discussion later. SAC Chair Jaffe reminded the Board that adoption of the Hydrogeologic Conceptual Model was being postponed until the September 27, 2018 SAC meeting.

a. Discussion of Special Session for Public Review

CBGSA SAC Vice Chair Brenton Kelly provided a report on the discussion of a Special Session for Public Review, which is provided in the Board packet.

SAC Vice Chair Kelly thanked the SAC ad hoc and provided an update on their recommendation to host a special session to review components of the GSP. He expressed his concern that the SAC discussion lasted over 45 minutes in a circular effort of futility and recommended the item be tabled until trust can be built to warrant further discussion on this.

Chair Yurosek asked for staff's feedback on the process. Mr. Beck said the memo in the Board packet reflects the report of the SAC ad hoc and not the entire SAC. He mentioned that SAC Chair Jaffe did a great job managing this process and the non-consensus position the SAC ended up on this issue is an example of where the SAC may end up on other issues—and this is ok. Mr. Beck clarified that no action is needed to table the item.

SAC Committee Member Mike Post said it would be helpful for the Board to comment if the study group concept is a possibility since a lot of time was spent on this idea. Director Williams asked why the Board would not support a meeting of the SAC to understand the documents better. Director Williams said if it can be added on to a meeting and Santa Barbara County Water Agency Water Resources Program Manager Matt Young was willing to staff if it, go ahead.

SAC Committee Member Joe Haslett arrived at 4:14 pm

Mr. Beck reminded the Board that both the Hallmark Group and Woodard & Currans' (W&C) budgets are tight and do not have room to accommodate an additional meeting. He let the Board know another issue with holding a separate meeting deals with inclusivity and transparency. He commented that some SAC members and public may not be able to attend another meeting, and this would create asymmetric information for those that can attend. One of the recommendations was to run the meeting without staff and Mr. Beck commented that staff serves an important directional aspect to make sure the Committee does not stray from topics and violate the Brown Act.

Director Jane Wooster commented that it was her understanding that you have to do a lot of review on your own. She said the discussion should take place during the SAC or Board meeting, but discussions should not be compressed by time constraints.

Director Cappello asked who would explain issues that the SAC did not understand in the context of a separate meeting. SAC Vice Chair Kelly replied that staff such as Matt Young or Cathy Martin could provide input. He stressed that they want to review the material to determine what questions they may have for W&C.

Director Cappello suggested doing review in smaller groups to avoid a quorum. Mr. Hughes said this is where he gets concerned, because when one of those members talks casually to another you now have a serial meeting. Also, the spirit of the Brown Act is a transparency issue and by meeting in small groups there is the potential that decisions can be hashed out away from public view.

Director Byron Albano said he attends the SAC meetings and values the discussion but likely could not attend a separate meeting and feels as though a separate meeting is trying to get around the Brown Act.

Director Shephard said he believes the study session should be part of the SAC meeting, and Director Tom Bracken agreed with this approach. Director Lynn Compton also supported the study session being done at a SAC meeting, if it can be done.

SAC Chair Jaffe said the SAC is struggling with this study group idea and want to comply with the Brown Act. She stated the educational component provides a good base of information but is very different than understanding draft sections of the GSP. She said if the study session is incorporated into the SAC meeting, we will need to restructure the SAC meeting because sitting through three hours of meeting is tough enough.

Director Chounet said some way to have a special workshop that does not impose on the budget would be ideal because a five hour meeting seems too long.

SAC Member Joe Haslett commented that everyone is provided a packet before the meetings and if you read the packet and make notes or formulate questions, those could be incorporated into the normal agenda during the presentations. Mr. Haslett said he feels it is his responsibility to come with questions.

Director Zack Scrivner arrived at 4:40 pm

Local landowner Sue Blackshear said she does not have the resources to print the packet and does not have email. She advised the Board to consider the public that does not have access.

Director Chounet asked if the Brown Act requires a printed copy be given to those that do not have access to a printer or email. Mr. Hughes confirmed that the Brown Act does allow for this. Mr. Haslett asked if the library has copies of the GSP sections. Mr. Blakslee said there is a reference copy of the packet brought to the meetings at the Cuyama Valley Family Resource Center (FRC), but he is unaware if the library maintains the GSP sections.

Chair Yurosek said if someone wants a printed copy, talk to the staff.

FRC Executive Director Lynn Carlisle said the concept of a study group arose because the public was interested in providing very meaningful input on the GSP sections, but all she has heard so far is a discussion of logistics and expense. The SAC and Board need to find a way to educate the public since they all do not have access to EKI or another technical organization.

Chair Yurosek said it sounds like there is not consensus in the SAC on this topic. He stated the SAC was set up to get community feedback through that group. He encouraged everyone to be prepared for the upcoming technical discussions and come up with ways to work within their meeting to become more educated per their expressed request. Chair Yurosek encouraged the SAC to spend more time on the procedure that they want to follow and adjust if needed.

Director Albano said he feels as though the SAC has been overly consensus-based and he is not looking for consensus from the SAC, but he is looking for their opinions. Chair Yurosek clarified that the Board wants to know the SAC's feedback.

SAC Chair Jaffe asked for clarity regarding the SAC's ability review the GSP sections within a study session. Mr. Beck said if the study session can be done within the confines of the SAC meeting, the Board would probably approve of it. However, if the Committee wants to host an additional meeting outside the SAC meeting, it would be more difficult.

7. Groundwater Sustainability Agency

a. Report of the Executive Director
Nothing to report.

i. Groundwater Sustainability Plan Section Development Strategy and Responsibility
Executive Director Jim Beck said in an attempt to provide clarity on the review process for the Board and SAC, he drafted a memo entitled the Groundwater Sustainability Plan Section Development Strategy and Responsibility, which is provided in the Board packet.

Mr. Beck mentioned that the suggested process is that the GSP section is distributed for public review with stakeholders having four weeks to provide comments. He stressed that Board members have the right to provide personal feedback, then W&C will draft a comment response matrix and will develop a recommendation. Grammatical comments will not be included in the matrix to keep the number of comments in the matrix to a

manageable size. He reported that the SAC is not responsible for reaching consensus on issues, but rather it is responsible for reporting on the various recommendations the SAC develops. The Board will determine what decisions will be incorporated in the GSP sections. However, there will be a different final review process for the final draft of the GSP.

Director Bantilan asked if a supermajority vote is needed for each GSP section that is approved. Mr. Hughes said there is one needed based on the spirit of the Joint Exercise of Powers Agreement (JEPA) that requires a supermajority for adopting a GSP.

SAC Chair Jaffe mentioned that the "majority" reference in Mr. Beck's report needs to be altered to "supermajority."

Ms. Carlisle asked if the public comments made on parts of the draft GSP sections are seen by the SAC. Mr. Beck said W&C complies all comments received, so SAC will view everyone's comments. He mentioned there are comments that can be in conflict.

A motion was made by Director Albano to adopt the Groundwater Sustainability Plan Section Development Strategy and Responsibility and seconded by Director Bantilan. Roll call vote was made and the motion passed unanimously.

b. Progress & Next Steps

Mr. Beck provided an update on the near-term GSP schedule, along with the accomplishments and next steps, which are summarized in the Board packet.

SAC Committee Member Post said he believes the public is having difficulty with the forced schedule imposed on us by the legislature. Mr. Beck said that is a good reminder that there is not much slack in the schedule.

8. Groundwater Sustainability Plan

a. Groundwater Sustainability Plan Update

GSP consultant Woodard & Curran (W&C) staff Brian Van Lienden provided an update on the GSP development.

Mr. Van Lienden informed the Board that W&C Senior Hydrogeologist John Ayers was in attendance. He reported the revised Hydrogeologic Conceptual Model (HCM) would be released in a week or two.

b. Technical Forum Update

Mr. Van Lienden reported on the August 3, 2018 technical forum meeting which is summarized in the Board packet. The next monthly meeting is scheduled for Friday, August 31, 2018.

Mr. Van Lienden reported that W&C retooled the technical forum schedule based on feedback and will now be holding the technical forum meetings in advance of the Board meetings.

Director Albano asked if there was any information on EKI's ability to view the modeling data. Mr. Van Lienden replied that the technical forum members would be able to view the modeling

data within the next few weeks after settling on the historical calibration.

c. Hydrogeologic Conceptual Model Update
Mr. Van Lienden provided an update on the HCM, which is summarized in the Board packet.

Mr. Van Lienden reported nearly 200 comments were received.

d. Groundwater Conditions
Mr. Van Lienden provided an overview of the groundwater conditions, which is summarized in the Board packet.

SAC Chair Jaffe asked what it means when wells in similar areas have different depths. Mr. Ayres said it could be a bad measurement or due to localization of that particular well.

Director Williams asked if the low spot in the central basin is caused by pumping and Mr. Ayres said it appears to be.

SAC Committee Member Post asked if we have determined what the bottom of the basin is. Mr. Ayres said no, but most of the wells stop at the clay layer since that is where they do not receive water. SAC Committee Member Post said the point of his comment is you can have a 500 foot well with 500 more feet of water beneath it, or a 50 foot well with no water beneath it. He commented that the model image is not self-explanatory and should not be sent to the public without being made clearer.

e. Monitoring Networks
Mr. Van Lienden provided an overview on the monitoring networks, which is summarized in the Board packet.

f. Stakeholder Engagement Update
GSP outreach consultant the Catalyst Group's Charles Gardiner provided an update on stakeholder engagement which is provided in the Board packet.

9. Financial Report

a. Financial Management Overview
Mr. Blakslee provided an update on the financial costs through July 2018. He mentioned that the outstanding invoice amount is currently $335,144.96. Mr. Beck presented the revised cash flow and informed the Board that we expect the DWR grant reimbursement funding to be received in the November to December 2018 timeframe.

b. Financial Report
Mr. Blakslee provided an overview of the financial report.

c. Payment of Bills
Mr. Blakslee reported on the payment of bills for the month of July 2018. A motion was made by Director Williams and seconded by Director Chounet to approve payment of the bills through the month of July 2018 in the amount of $154,619.31 pending receipt of funds. A roll call vote was made and the motion passed unanimously.

10. Reports of the Ad Hoc Committees

Nothing to report.

11. Directors' Forum

Nothing to report.

12. Public comment for items not on the Agenda

Director Albano suggested front loading the agenda with the GSP topics for the October 3, 2018 Board meeting to ensure adequate time is made to discuss technical issues.

13. Adjourn

At 6:12 p.m., Chair Yurosek adjourned the joint meeting to the Cuyama Valley Recreation District for public workshops starting at 6:30 p.m. The workshops ended at 9:00 p.m., and the SAC and Board were adjourned.

I, Jim Beck, Executive Director to the Cuyama Basin Groundwater Sustainability Agency Board of Directors, do hereby certify that the foregoing is a fair statement of the proceedings of the meeting held on Wednesday, September 5, 2018, by the Cuyama Basin Groundwater Sustainability Agency Board of Directors and the Standing Advisory Committee.

Jim Beck
Dated: October 3, 2018

TO: Board of Directors
Agenda Item No. 5

FROM: Roberta Jaffe, Standing Advisory Committee Chair

DATE: October 3, 2018

SUBJECT: Report of the Standing Advisory Committee

Issue
Report on the Standing Advisory Committee meeting.

Recommended Motion
None – information only.

Discussion
Provided as Attachment 1 is a report on the September 27, 2018 Standing Advisory Committee (SAC) from SAC Chair Roberta Jaffe and Vice Chair Brenton Kelly.

The purpose of this report is to provide the Cuyama Basin Groundwater Sustainability Agency Board of Directors with SAC input on the various Groundwater Sustainability Plan (GSP) components and issues that will better equip the Board when making decisions on GSP-related issues.

Attachment 1

WILL BE PROVIDED ONCE DRAFTED.

TO: Board of Directors
Agenda Item No. 6

FROM: Lyndel Melton, Woodard & Curran

DATE: October 3, 2018

SUBJECT: Technical Forum Update

Issue
Update on the Technical Forum.

Recommended Motion
None – information only.

Discussion
At the request of Cuyama Valley landowners, Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan (GSP) consultant Woodard & Curran (W&C) has been meeting monthly with technical consultants representing landowners to discuss W&C's approach and to provide input where appropriate.

A summary of the topics discussed at the August 31, 2018 technical forum meeting is provided as Attachment 1, and the next forum is scheduled for October 26, 2018.

MEETING MEMORANDUM

PROJECT: Cuyama Basin Groundwater Sustainability Plan Development

MEETING DATE: 8/31/2018

MEETING: Technical Forum Conference Call

ATTENDEES: Matt Young (Santa Barbara County Water Agency)
Matt Scrudato (Santa Barbara County Water Agency)
Matt Klinchuch (Cuyama Basin Water District)
Dennis Gibbs (Santa Barbara Pistachio Company)
Neil Currie (Cleath-Harris Geologists)
John Fio (EKI)
Jeff Shaw (EKI)
Anona Dutton (EKI)
Brian Van Lienden (Woodard & Curran)
Sercan Ceyhan (Woodard & Curran)
Ali Taghavi (Woodard & Curran)
Byron Clark (Davids Engineering)

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1. AGENDA

- Approach for Cuyama Basin model development
- Preliminary modeling results for Cuyama Basin groundwater conditions
- Next steps

2. DISCUSSION ITEMS

The following table summarizes comments raised during the conference call and the response and plan for resolution (if appropriate) identified for each item.

Item No.	Comment	Commenter	Response/Plan for Resolution
1	Will you make the IDC and IWFM model files available for review?	Jeff Shaw	Model files will be made available once the model is fully calibrated. Calibration is still ongoing for both the IDC and IWFM, and will be refined based on stakeholder feedback
2	What is the status of the IDC calibration?	Jeff Shaw	As mentioned above, IDC calibration continues to be refined; however, the model is currently reasonable enough to move forward with groundwater model calibration. Additional back and forth with IDC and IWFM will take place during the full model calibration.
3	What factors/parameters are most sensitive to agricultural efficiency levels in the model?	John Fio	There are many factors that affect agricultural efficiency; the target soil moisture fraction is one of the last factors to be refined as part of the calibration.

4	There are some years (e.g. 2002) where the model currently shows small net loss from the groundwater aquifer to the stream. Is this correct?	John Fio	This is a preliminary result, which is subject to ongoing revisions, refinement, and correction.
5	Some wells are at the edge of the Upper and Lower Morales formations; this could explain why groundwater levels in those wells are dipping recently	Neil Currie	This will be considered as model refinement continues.
6	Are calibration results available for the western portion of the basin?	Neil Currie	Results for this area are not yet complete because model calibration is being done from upstream to downstream.
7	Is the drop in CSD well levels related to subsidence?	Jeff Shaw	There may be a relationship, but subsidence is likely to have a small effect on aquifer storage
8	Reductions in CSD well levels may be related to development of the nearby Duncan Family Farms in the late 1990's	Dennis Gibbs	This will be investigated and considered as part of the model refinement.
9	A deep percolation estimate of 38 taf/year is concerning because tests have shown water in the aquifer to be very old	Dennis Gibbs	The deep percolation value will be refined as the model calibration is completed
10	Does the model have a time lag in deep percolation to the aquifer?	John Fio	Yes, there is a time lag because the model includes an unsaturated zone between the root zone and the groundwater zone.
11	What are the model's initial conditions?	John Fio	Initial conditions are based on observed historical data at the beginning of the calibration period in 1994
12	Does the model represent discontinuities near Santa Barbara Fault as part of the initial conditions? This could improve run-time.	John Fio	The available data does not have the resolution necessary to do so. The model solves for the discontinuities as part of its solution.
13	Is the Santa Barbara Fault keyed into bedrock at its east end?	John Fio	Yes
14	Are you comparing the model to the USGS model?	Anona Dutton	The USGS model is used for reference and for comparison, but their model data is not used directly with the exception of the geologic layering in the center of the basin. There are tables comparing water budgets in last Technical Forum Call.

Cuyama Basin Groundwater Sustainability Agency

Technical Forum Update

October 3, 2018

WOODARD &CURRAN

September 21st Technical Forum Discussion

- Monitoring Networks
- Numerical Model Development Update
- Management Areas
- DWR Technical Services Program
- Next steps

- Next Meeting – October 26th
- Monthly Meetings – Friday before each Standing Advisory Committee meeting

WOODARD &CURRAN

Technical Forum Members

- Catherine Martin, San Luis Obispo County
- Matt Young, Santa Barbara County Water Agency
- Matt Scrudato, Santa Barbara County Water Agency
- Matt Klinchuch, Cuyama Basin Water District
- Jeff Shaw, EKI
- Anona Dutton, EKI
- John Fio, EKI
- Dennis Gibbs, Santa Barbara Pistachio Company
- Neil Currie, Cleath-Harris Geologists
- Matt Naftaly, Dudek

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 7a

FROM: Lyndel Melton, Woodard & Curran

DATE: October 3, 2018

SUBJECT: Groundwater Sustainability Plan Update

Issue
Update on the Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan.

Recommended Motion
None – information only.

Discussion
Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan consultant Woodard & Curran's GSP updates are provided as the following attachments:

Attachment 1 – Monitoring Networks Section Release
Attachment 2 – Update on Groundwater Conditions Section
Attachment 3 – Update on Data Management System Release
Attachment 4 – Management Areas Discussion

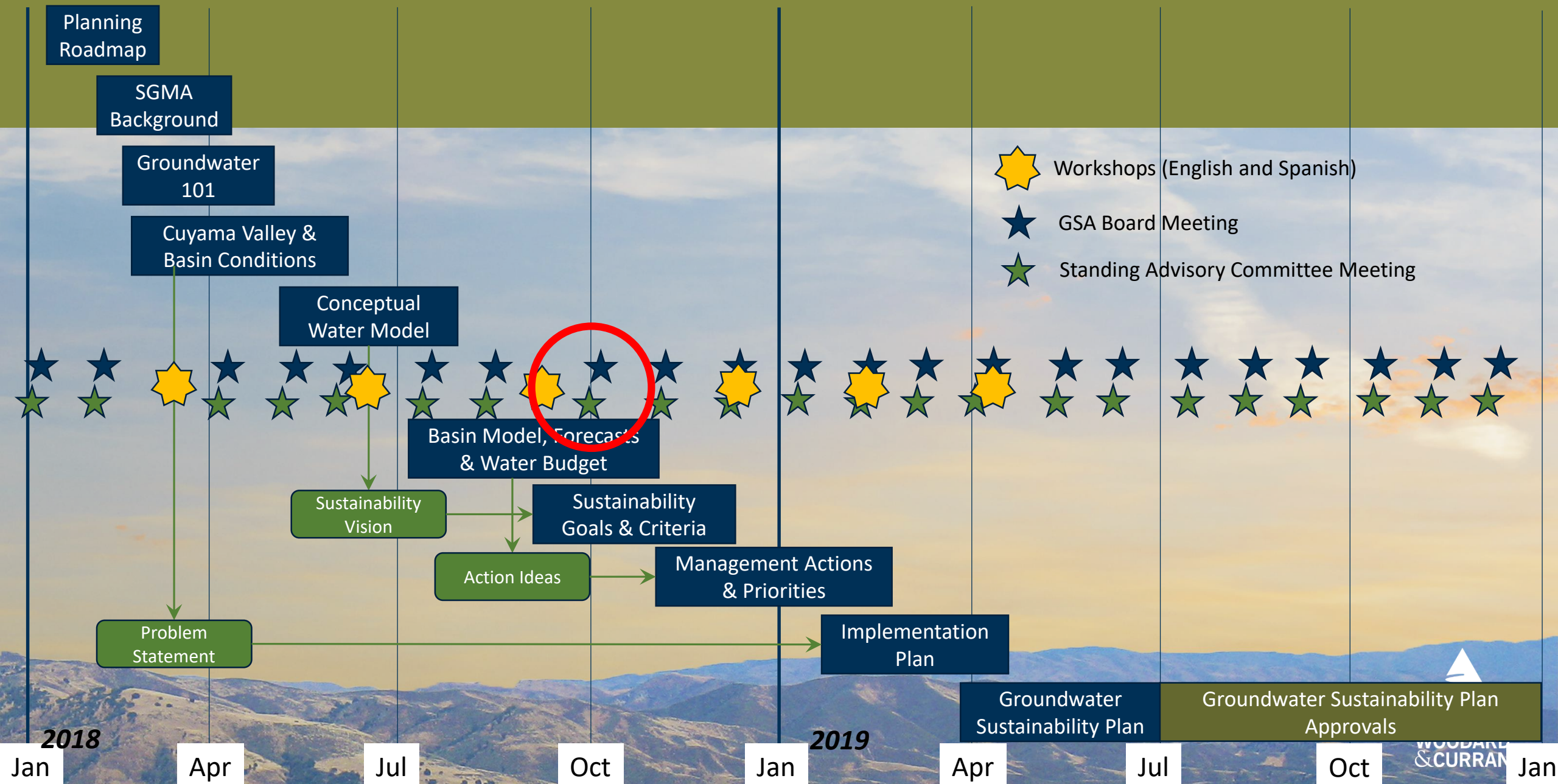
Cuyama Basin Groundwater Sustainability Agency

Groundwater Sustainability Plan Update

October 3, 2018

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Plan – Planning Roadmap



September GSP Accomplishments

- ✓ Conducted Cuyama Basin GSP Workshops
- ✓ Distributed draft Monitoring Networks section
- ✓ Identified well locations for CA DWR Technical Support Services
- ✓ Released draft data management system application
- ✓ Refined historical calibration of GSP numerical model

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Agency

Monitoring Networks Section Release

October 3, 2018

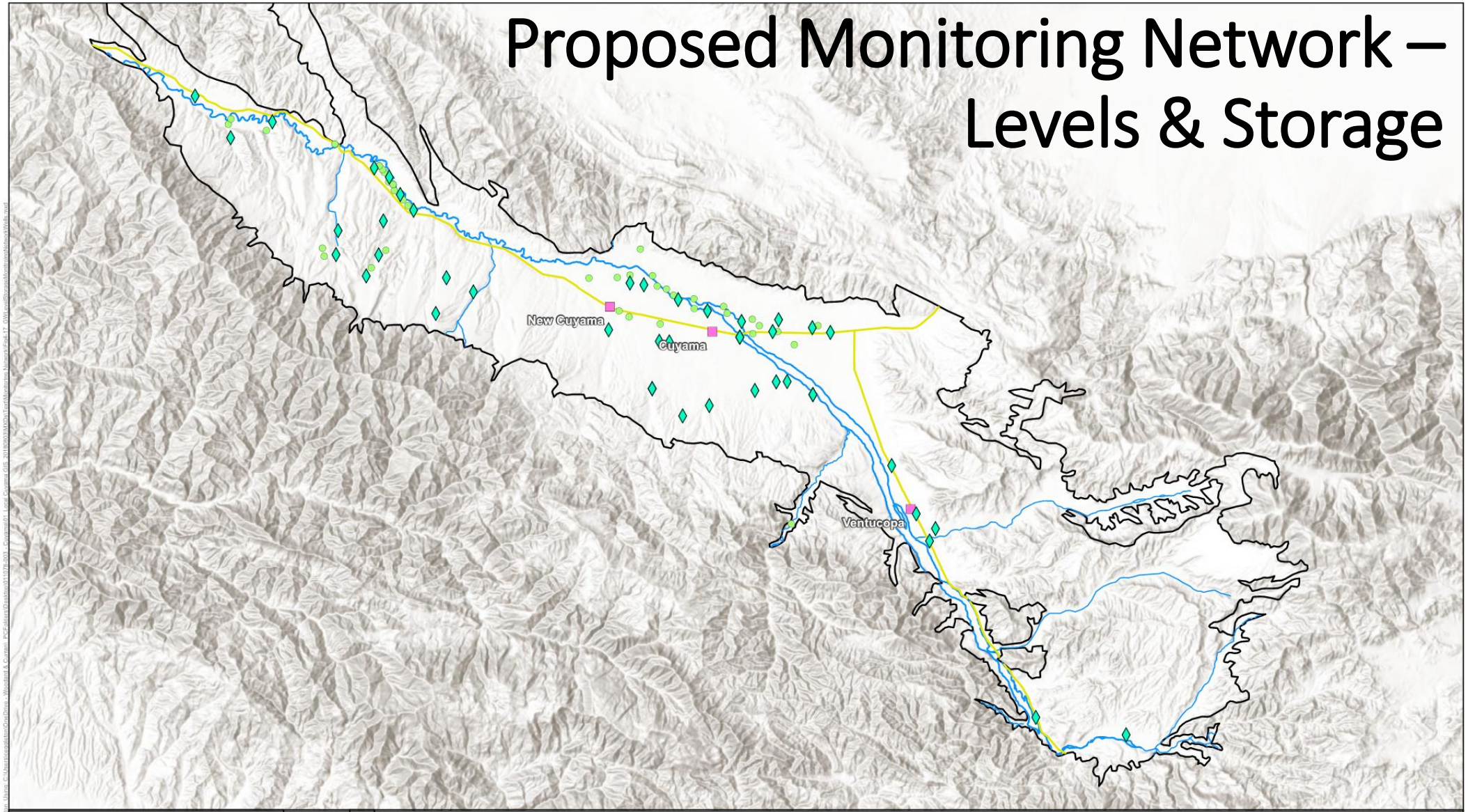
WOODARD &CURRAN

Monitoring Networks Draft GSP Section

- Draft GSP Section provided to SAC and Board for review as part of Board Packet on September 21st
- Monitoring Networks section describes:
  - Existing monitoring used
  - Groundwater level and storage monitoring network
  - Degraded water quality monitoring network
  - Land subsidence monitoring network
  - Depletions of interconnected surface water monitoring network
- Comments are due on November 9th

WOODARD &CURRAN

Proposed Monitoring Network – Levels & Storage



Proposed Monitoring Network – Groundwater Quality

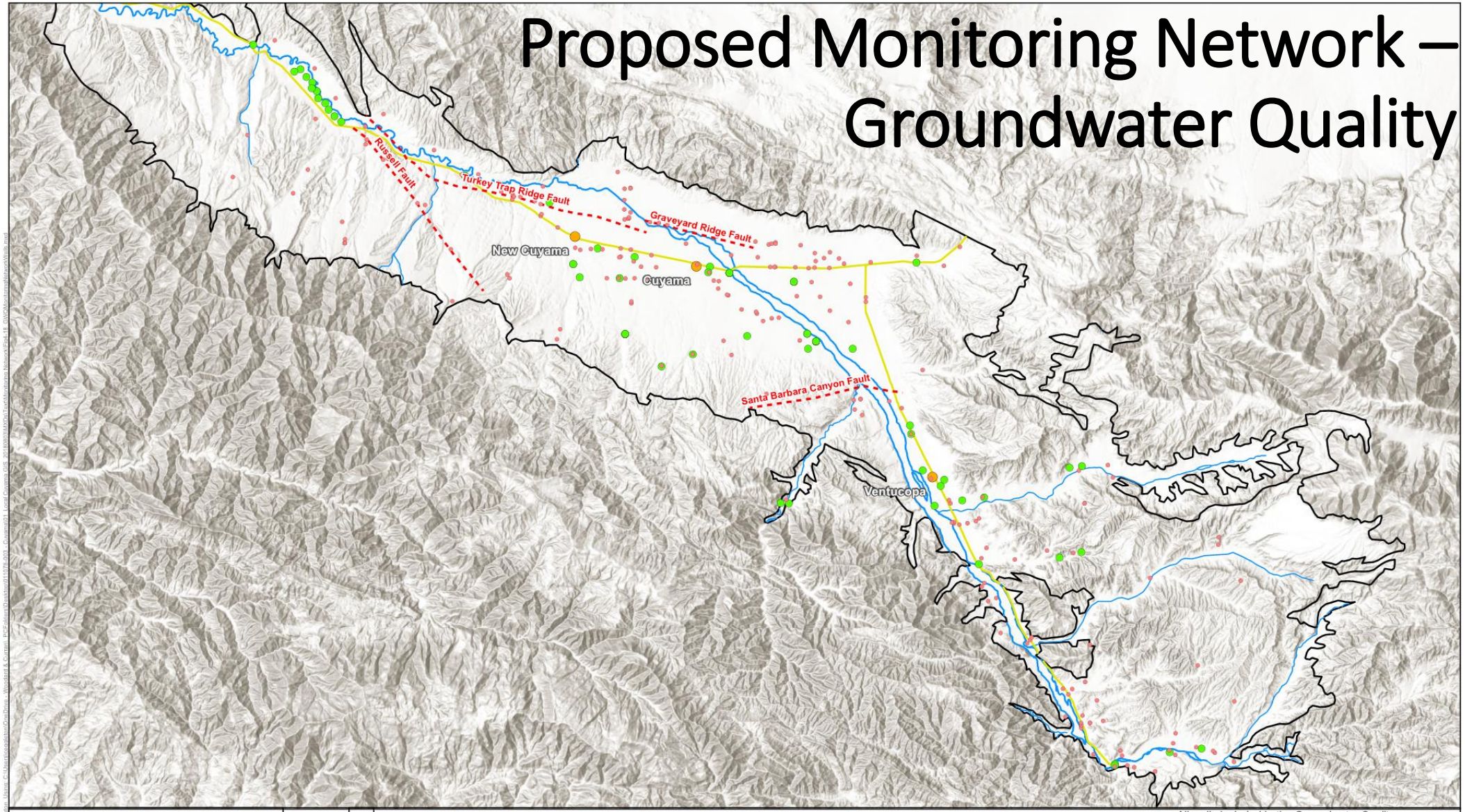


Figure 4-18: Cuyama GW Basin Groundwater Quality Monitoring Network Wells

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

September 2018

WOODARD &CURRAN

Existing Monitoring – Subsidence

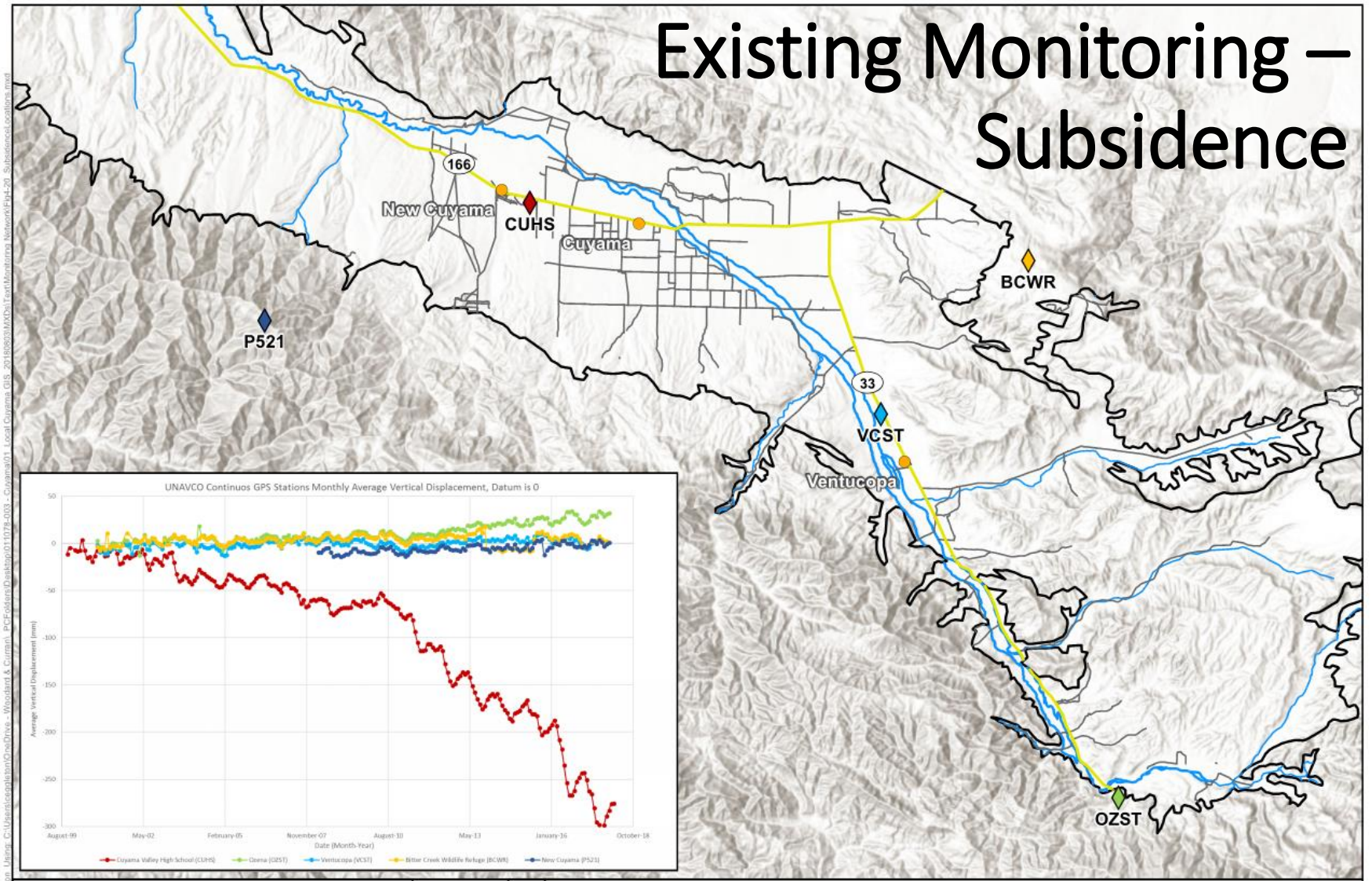


Figure 4-20: Currently Active Subsidence Monitoring Locations

Cuyama Basin Groundwater Sustainability Agency

Cuyama Valley Groundwater Basin Groundwater Sustainability Plan

September 2018

WOODARD &CURRAN

Legend

- Cuyama Basin
- Towns
- Highways
- Local Roads
- Cuyama River
- Streams

0 2 4 8 Miles

N

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Agency

Update on Groundwater Conditions Section

October 3, 2018

WOODARD &CURRAN

Groundwater Conditions GSP Section

- Draft GSP section provided to SAC and Board for review as part of Board Packet on August 24th
- Groundwater Conditions section describes:
  - Groundwater trends
  - Changes in groundwater storage (placeholder)
  - Land subsidence
  - Groundwater quality
  - Interconnected surface water systems (placeholder)
  - Groundwater dependent ecosystems (placeholder)
- Review period has been extended – comments are now due on October 5th

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Agency

Data Management System

October 3, 2018

WOODARD &CURRAN

Data Management System

- Draft Data Management System (DMS) for the Cuyama Groundwater Basin posted to GSA website on Thursday, September 20
- Data Management System includes information on:
  - Groundwater wells
  - Groundwater levels and quality
  - Surface water flows
  - Precipitation
  - Subsidence
- A quick start guide is included with instructions on how to use the DMS

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Agency

Management Areas

October 3, 2018

WOODARD &CURRAN

Process for Defining Management Areas

- Solicited public input at September Workshop (Sep)
- Screen and evaluate the options (Sep)
- Develop technically-based recommendation (Sep-Oct)
- Present recommendation to SAC and Board (Oct)
- Revised as needed (Oct)
- Board adoption (Nov)

WOODARD &CURRAN

What is a Management Area?

- Management areas are optional but may be established at GSA's discretion
- A management area can be used to:
  - Set different minimum thresholds
  - Set different measurable objectives
  - Set up different density and frequency of monitoring
- Without management areas it is difficult to have different minimum thresholds and measurable objectives

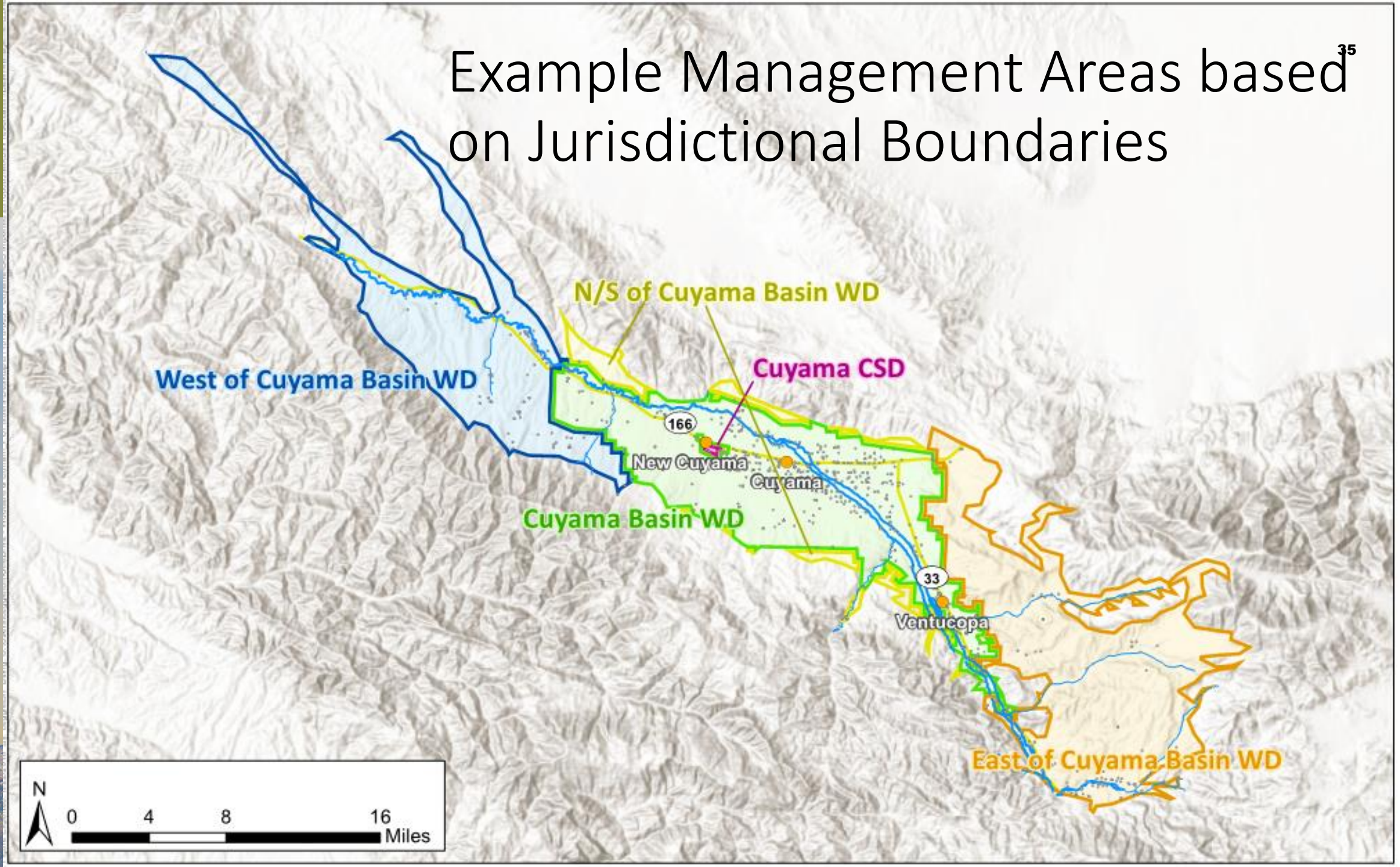
WOODARD &CURRAN

Options for the Cuyama Groundwater Basin

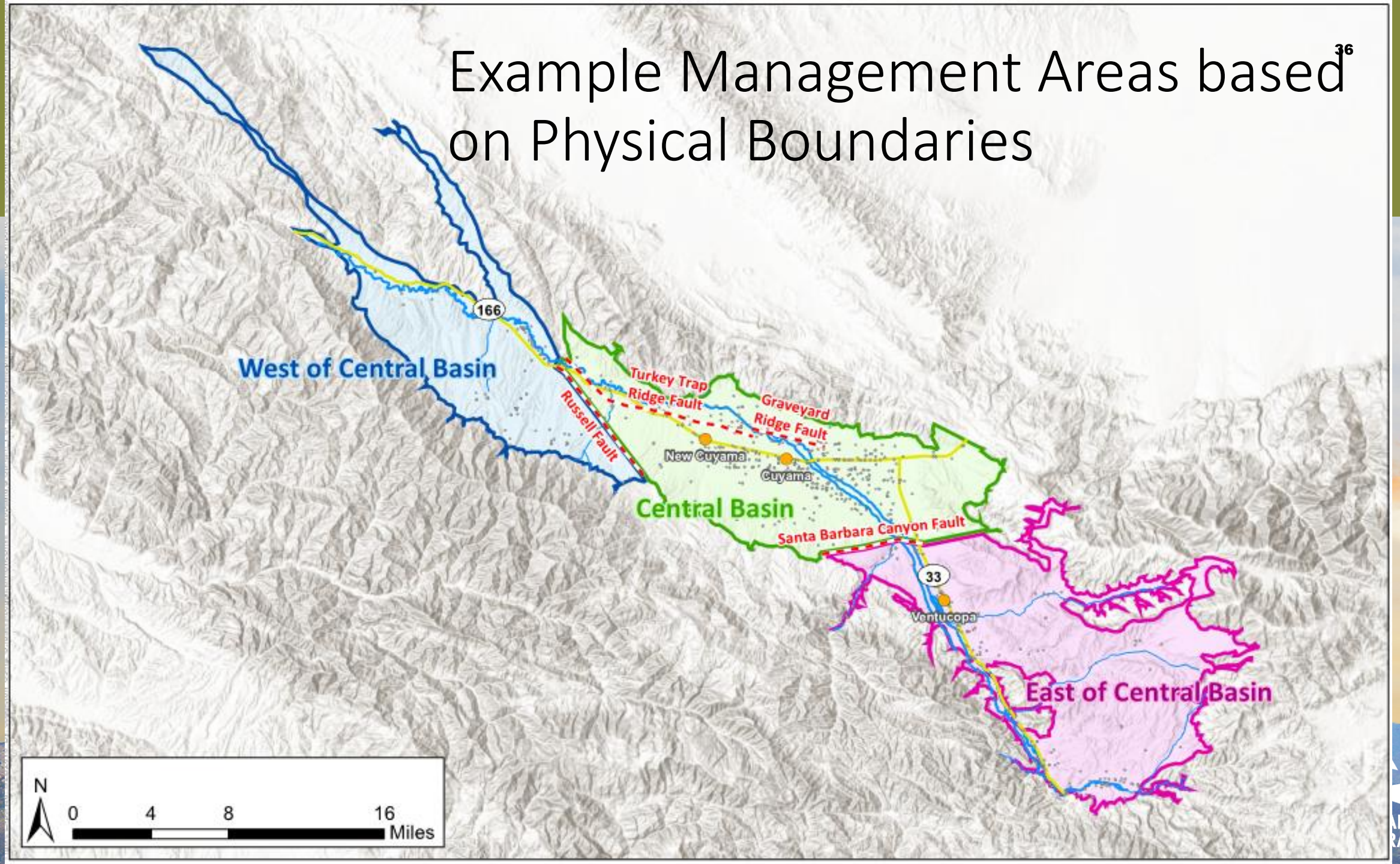
- Potential Jurisdictional Boundaries
  - Cuyama Community Services District
  - Cuyama Basin Water District
  - Areas Outside Both Districts
  - Four Counties
- Potential Physical Boundaries
  - Russell Fault
  - Santa Barbara Canyon Fault
- Current Basin Conditions
  - Based on current groundwater levels

WOODARD &CURRAN

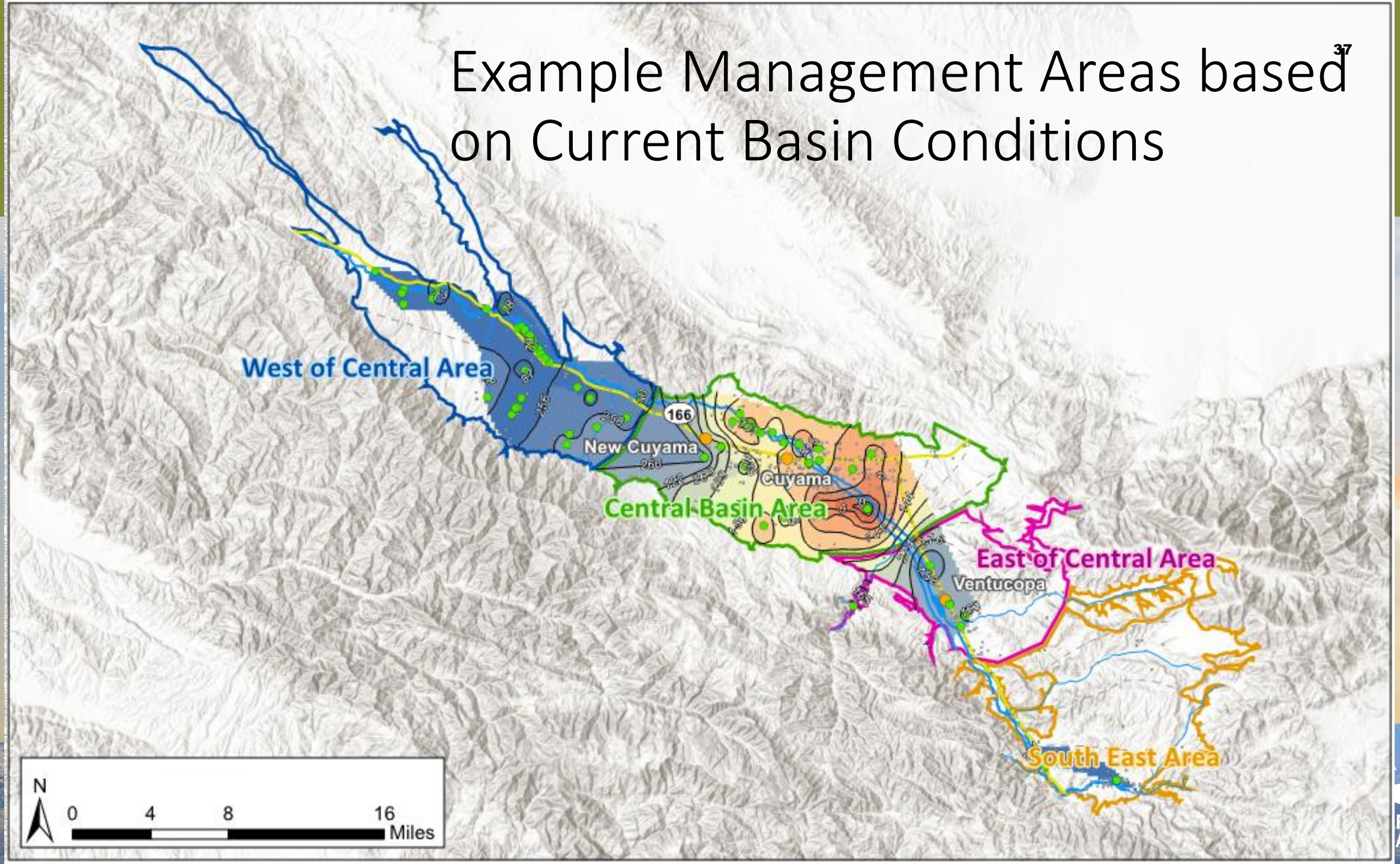
Example Management Areas based on Jurisdictional Boundaries



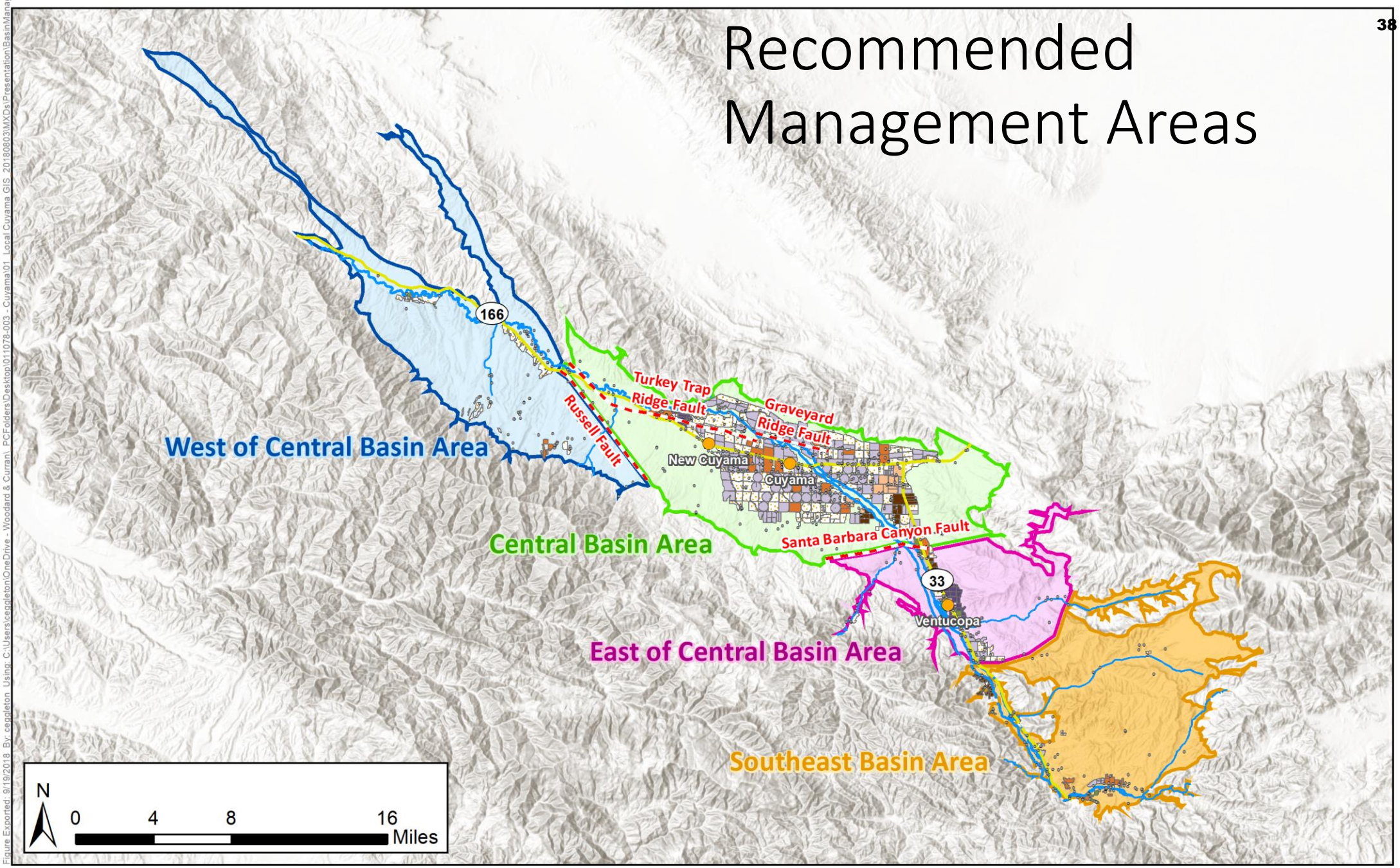
Example Management Areas based on Physical Boundaries



Example Management Areas based on Current Basin Conditions



Recommended Management Areas



TO: Board of Directors
Agenda Item No. 7b

FROM: Lyndel Melton, Woodard & Curran

DATE: October 3, 2018

SUBJECT: Hydrogeologic Conceptual Model Section Adoption

Issue
Recommend adoption of the Hydrogeologic Conceptual Model.

Recommended Motion
Adopt the Hydrogeologic Conceptual Model.

Discussion
An overview of the Hydrogeologic Conceptual Model is provided as Attachment 1.

Cuyama Basin Groundwater Sustainability Agency

Hydrogeologic Conceptual Model Section Adoption

October 3, 2018

WOODARD &CURRAN

Hydrogeologic Conceptual Model Section Adoption

- Revised GSP section provided to SAC and Board for as part of Board Packet on September 21st
- Revised section reflects responses to comments received on June Draft version
- Hydrogeologic Conceptual Model section includes:
  - Regional Geologic and Structural Setting
  - Geologic History
  - Geologic Formations/Stratigraphy
  - Faults and Structural Features
  - Principal Aquifers and Aquitards
  - Topography, Surface Water and Recharge

WOODARD &CURRAN

TO: Board of Directors
Agenda Item No. 7c

FROM: Charles Gardiner, Catalyst Group

DATE: October 3, 2018

SUBJECT: Stakeholder Engagement Update

Issue
Update on the Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan stakeholder engagement.

Recommended Motion
None – information only.

Discussion
Cuyama Basin Groundwater Sustainability Agency (CBGSA) Groundwater Sustainability Plan (GSP) outreach consultant the Catalyst Group's stakeholder engagement update is provided as Attachment 1, the September 5, 2018 Workshop Summary is provided as Attachment 2, and an updated matrix that matches GSP sections with corresponding educational topics is provided as Attachment 3.

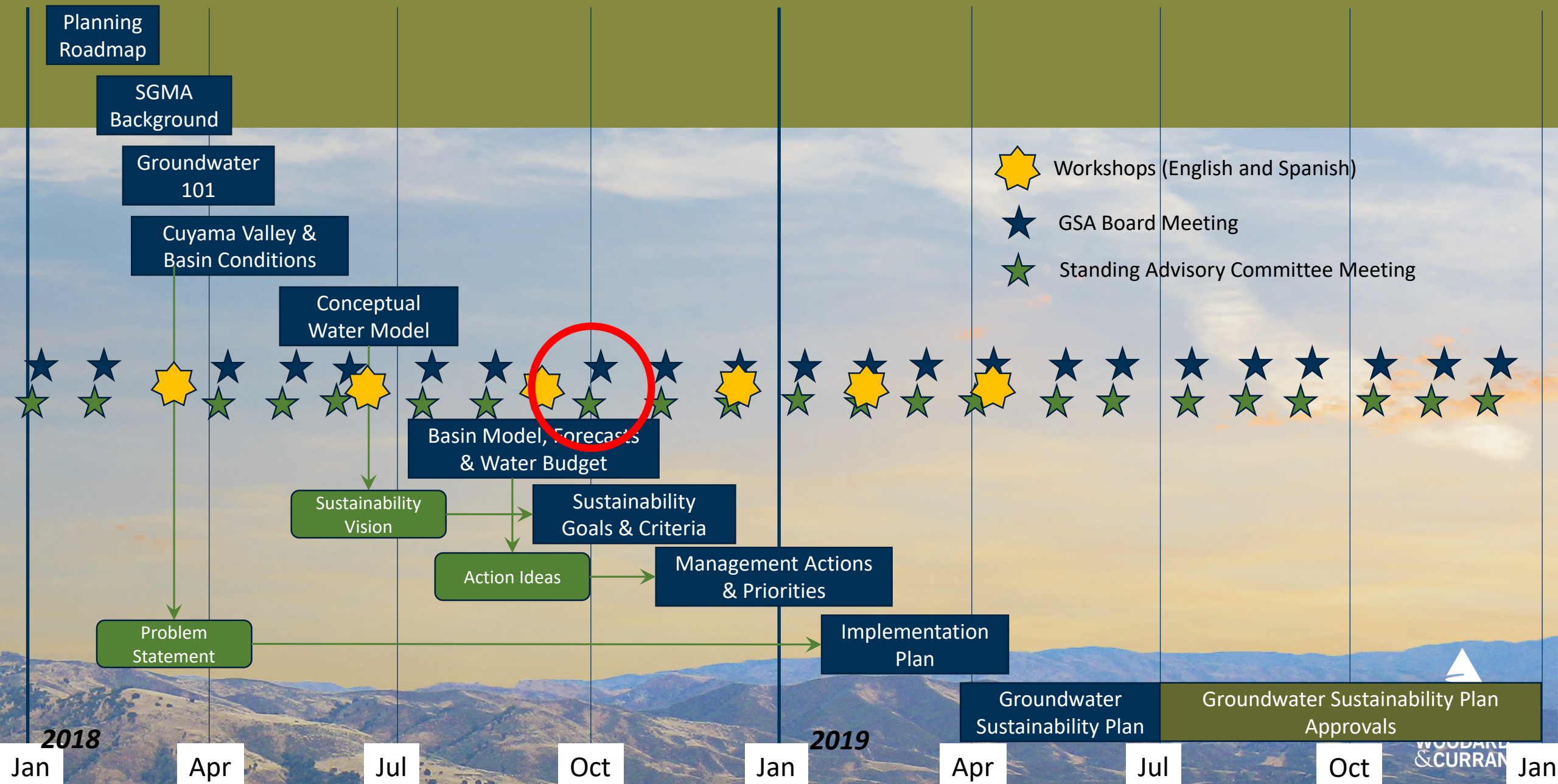
Cuyama Basin Groundwater Sustainability Agency

Groundwater Sustainability Plan Stakeholder Engagement Update

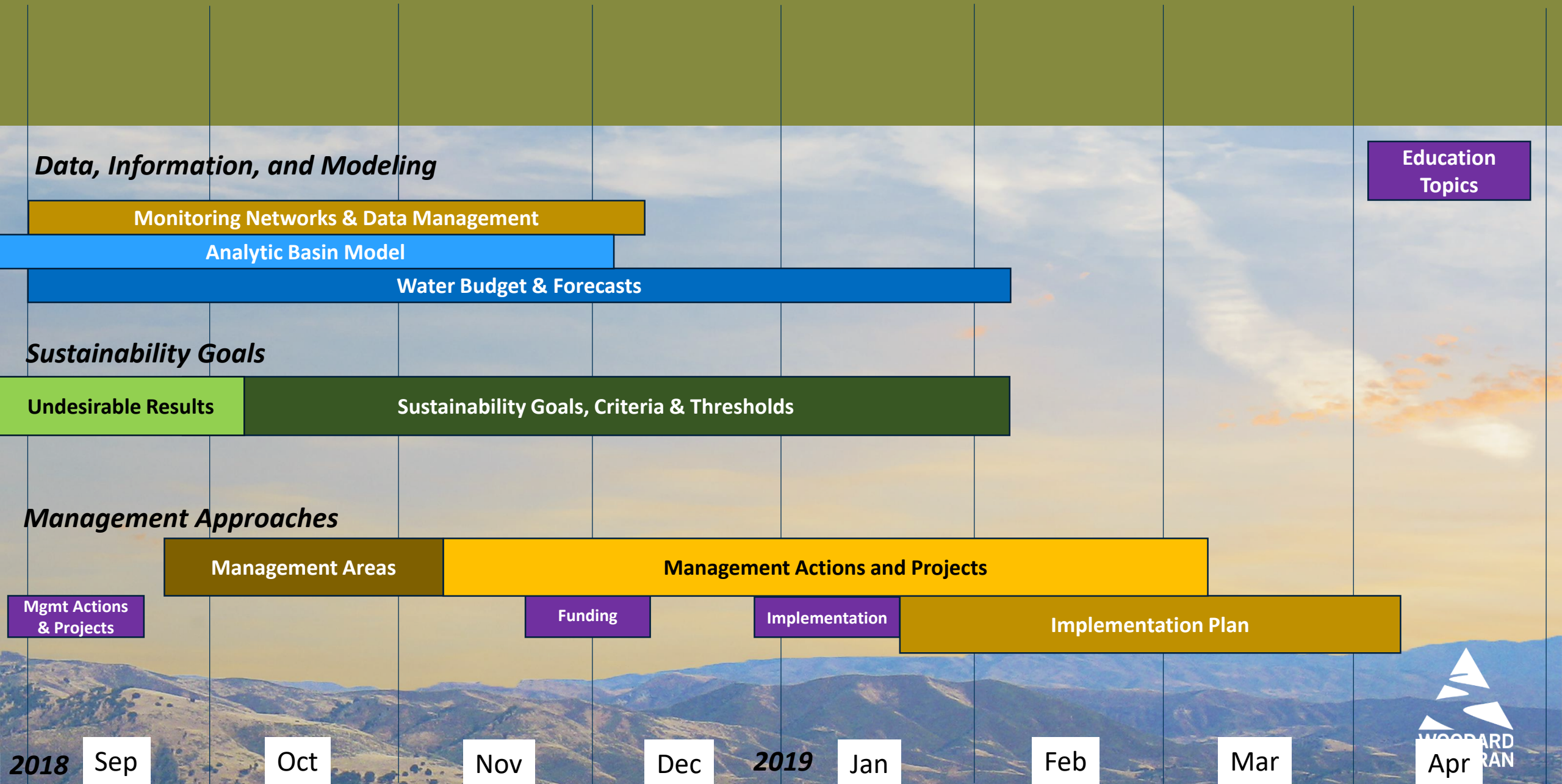
October 3, 2018

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Plan – Planning Roadmap



Cuyama Basin Groundwater Sustainability Plan – Discussion Topics



Outreach Activities

- September Workshops
  - Topics: Modeling update and initial discussion of management areas and groundwater management actions and projects
  - Summary posted and in packet
  - Feedback and improvements for next workshop?
- Newsletter #3 – November 1
- Community Workshops – December 5
  - Water Budget
  - Sustainability Goals and Thresholds

WOODARD &CURRAN

Cuyama Basin Groundwater Sustainability Public Workshops
September 5, 2018, New Cuyama, CA
Summary of Comments and Questions

Background

On September 5, 2018, Cuyama Basin Groundwater Sustainability Agency Board of Directors and the Standing Advisory Committee hosted two community workshops at the Cuyama Recreation District facility in New Cuyama, CA. The workshops were noticed through a number of methods (*See Appendix A: Workshop Notification*).

The workshop began at about 6:35 pm and concluded at approximately 8:30 pm. The English language workshop was attended by approximately 35 community members, farmers, ranchers, and landowners, not including CBGSA Board members, Standing Advisory Committee members, county staff, and consultants. The Spanish language workshop was attended by five community members (*See Appendix B: Participants at September 5, 2018 CBGSA Workshop that Signed In*).

Both of the workshops had three presentations that include time for discussion and questions and answers. The input gathered from the workshops, along with seven written comments, is provided below.

Workshops Presentation #1: Modeling Cuyama Basin Groundwater Conditions

Following a presentation on modeling Cuyama Basin groundwater conditions, workshop participants provided the following comments, observations, and questions.

Participant Comments and Questions Received – English Language Workshop

1. Question: Explain primary and secondary axes and what are the Average Annual Volume numbers on slide 26, Groundwater Budget: Basin-Wide. Answer: The left axis shows the groundwater gains (e.g., recharge) and losses (e.g., pumping) each year. The right axis depicts the cumulative change in groundwater storage, as shown with the black line on the graph. The average annual volumes are the estimated average annual gains or losses from the groundwater basin, as calculated by the model.
2. Question: The numbers shown as model results today are not calibrated. The community should not assume the numbers fully depict the historical conditions or trends? Answer: Yes, the model is not yet fully calibrated; the numbers are preliminary and are likely to change.
3. Question: When mentioning domestic use, the population you used was in the thousands? Answer: No, the estimated population for the Community Services District is approximately 800. This estimate will be updated with new information when available.
4. Comment: The point is there is a downward trend in groundwater storage, and the point is to figure out how to get it not to go down. It looks like we are down 200 feet, but the water budget graph makes it look like there is the same amount of water coming in as is going. Answer: The annual water budget is balanced on the graph by the amount of change in water storage (purple). Most years, there is a decline in water storage.
5. Question: What is the definition of “developed land?” Answer: Anything with agricultural and urban use on it.

6. Question: Why is evapotranspiration the only thing used to estimate pumping demand and not direct evaporation from spray irrigation or ponded water? Answer: Evapotranspiration includes estimates for direct evaporation.
7. Question: Is there a way to measure/monitor deep percolation? Answer: There is no easy way to measure that.
8. Question: On most of the graphs on slide 28, the actual groundwater levels look like they are deeper than what the model has estimated. Answer: Yes, the model still needs to be calibrated to develop closer alignment between modeled results and actual measurements. The team is working in the next several months to understand local irrigation practices better and calibrate the model.
9. Question: There may be different depths of screens in wells that could affect the well depth monitoring that the model has not captured. How hard is it to go back in and add layers for well? Answer: If we have data on it, then it can be added, but we do not want to break up existing layers into sub layers just to "brute force" the model.
10. Question: How is the pumping value calculated when the pumps do not have meters on them? Answer: We estimate the pumping demand based on domestic and agricultural users, and calculate pumping amounts based on those needs.
11. Question: Plants need water in the ground and there is water above ground, puddling, etc. How is this water considered in the model calculations? Answer: We capture the total irrigation water demand through the evapotranspiration calculations which direct evaporation is a part of.
12. Question: How is climate change incorporated into this model? Answer: The team will include one or more scenarios that estimate the future changes resulting from climate change (e.g., changing rainfall patterns, increased irrigation demand).
13. Question: Does the model take into account the changes in the basin as it narrows? It may be more than the model currently covers. Answer: We have implemented what the USGS implemented in their model for the shape of the basin, based on well logs (water and oil) and satellite data.
14. Comment: Recently the Government proposed selling leases for oil drilling (federal land in the foothills). Oil operations could use additional groundwater, particularly if fracking is involved. How would that be considered? Answer: Future water demands on the Cuyama Basin can be considered. We can look into how likely additional pumping from the Cuyama Basin would be.
15. Question: Is 90% irrigation efficiency realistic? Answer: Irrigation efficiency is based on evapotranspiration and not on other irrigation practices. The team will further clarify these calculations.
16. Question: How do subsidence and the loss of storage due to subsidence fit into the model? Answer: There are not simple, cost-effective ways to model subsidence. Subsidence and the potential loss of storage will be discussed and addressed in the GSP.
17. Question: How do you estimate and calibrate surface water flows if there are no good surface water gauges in the basin. Answer: The land surface component of the model simulates surface water flows based on available precipitation, soil and land use datasets. Then we compare the results with the available stream flow observations to make adjustments.
18. Question: Did the USGS study include surface flow in their model? Answer: USGS has limited information about surface flows, which the team is reviewing and comparing.
19. Comment: We would like to see how surface runoff is calculated and understand that a lot better. Specifically, about runoff of applied water.

20. Comment: It would be good to see the general trend of the basin groundwater depth.
21. Question: How are you looking at groundwater dependent ecosystems and all the wildlife that depends on that. Answer: We have a biologist who is reviewing and checking available data regarding groundwater dependent ecosystems in the basin. The team will prepare a memo summarizing the findings.
22. Comment: The model will be a working tool that is not 100% right and will be continued to be developed.
23. Question: How does the model take into consideration how some wells have declined and others have remained fairly stable? Answer: The model calculates water budget and elevation levels for each cell in the model based on the conditions in that cell. The calibration effort is getting the calculations to replicate real world measurement.
24. Question: With so many factors calculated in the model, it is important to understand the level of certainty that underlies the factors and model results. Can that uncertainty be quantified? Answer: The GSP will include a discussion of uncertainty and recommendations for reducing uncertainty in the future.

Participant Comments and Questions - Spanish Language Workshop

1. Comment: It doesn't rain or snow much in the region.
2. Comment: Some of the wells shown are most likely abandoned oil wells. One of the stakeholder's parents worked there in the past.
3. Comment: Though water usage is low in November and December, the bills remain just as high as those received in June and July. Residents are not sure of the bill structure and would like to know more about the fixed costs.
4. Comment: Farmers proposed solutions to capture water, including installing rainwater harvesters and building more dams.
5. Comment: All assumptions used for the model seem right with respect to land use and water budget.
6. Comment: Empty farmlands are bad for public health and require additional dust control.
7. Comment: There are fewer workers coming in this year because there is less land in production.
8. Comment: Since the drought, less alfalfa has been grown in the region. Less alfalfa means fewer job opportunities and fewer workers.
9. Comment: Residents have noticed that fewer residents in the region leads to higher water bills. A lot of workers left during the drought, and those that remained noticed increased bill rates.

Written Comments Received – Modeling

Written comments received pertaining to the modeling presentation and discussion are included below. The comment form provided to attendees posed the following questions: "*Do you have any additional questions or clarifications about the water model information you heard tonight? Was the presentation clear to you? What more would you like to know*?"

1. The presenter asked for information about the causes for the Cuyama Community Services District (CCSD) groundwater levels to drop after 2011 – the commenter noted that this was the year that Duncan Family Farms started farming irrigated land near the CCSD well – could there be a correlation?

2. I'd like to know the implications of water being removed from the older alluvium (beneath the aquitard) and being put into the newer alluvium (above the aquitard)? It is called "deep percolation" in the model but it clearly different/distinct from that water not being pumped and remaining in the deep alluvium. In addition, how does the pumping in one area affect others (cone of depression)? Does the heavy agricultural pumping make domestic wells have to be deeper? Who should bear these consequences if this occurs?
3. Excellent work, very understandable. Cuyama Community Services District had two wells. One went out of service a couple of years ago. I am wondering if your model is using numbers from two different wells? Regarding oil development on BLM lands on the eastern side at west end of Cuyama Basin – fracking is very unlikely. We do not need to address until permits are issued and drilling begins.
4. What sustainable options are you exploring? How can the options you are currently presenting be viable? You are addressing a model for "sustainability" by proposing a pipeline? How does that make sense?
5. The data needs to be clarified better. The bar charts are unclear with the slides. Also, in the previous workshop, geology and faults were a large topic. This was not discussed with the preliminary drafts and how those faults may affect the groundwater recovery and storage. The geologist was not entirely certain in the previous workshop so there are many assumptions that the drafts and data presented are assuming. Simulated flows into the river are not actual, especially if faults might cause a different flow. Are there underground river flows (data) available?

Workshop Presentation #2: Management Actions and Projects

Following a presentation on potential management actions and projects for the Cuyama Basin, workshop attendees provided the following comments, observations, and questions.

Participant Comments and Questions – English Language Workshop

1. Comment: Have you thought about the little canyons on the south side of the valley that flood during major rain events and have significant erosion issues? Maybe retaining structures in those creeks to break the velocity of the flows during those events and increase recharge. Also, storm flows take out a lot of bushes, which are important for retaining rainfall.
6. Comment: Use forest management practices to increase groundwater supplies. There isn't much of a demand for native vegetation, which takes a lot of water.
7. Question: Are cattle positive or negative in terms of water use? Can they be used to manage vegetation in rangeland?
8. Comment: There needs to be a way to use technology to figure out how to address these water issues and figure out what may work without spending a lot of money.
9. Comment: Look at technologies for improving the efficiency of agricultural water use and financing to support options. Using today's technology, distribution efficiencies should be much higher, and thus could move the glide path up a notch or two.
10. Question: How do we evaluate the sustainability of whatever project(s) we consider when some options may draw water from other basins? Answer: The options considered should help sustain the Cuyama Basin; the Board and Standing Advisory Committee may consider many factors in evaluating options.
11. Comment: Self-sustainability of the Cuyama Valley should be the first main focus instead of hauling water into the basin. Technologies should be the way to go. Focus on updating farms that may not be

efficient enough. Self-sustainability should be the first focus using technologies to improve irrigation efficiencies.

12. Comment: Talk to locals about efficiencies. Irrigation efficiency is part of the solution, but the actual definition of it should be clearer. A lot of water goes right back into the ground if you overwater. You lose some to evaporation, but most of the water is not being lost, its going back into the groundwater system.
13. Comment: Irrigation efficiencies can be improved, improve irrigation systems.
14. Question: Do the projects need to be suggested now? And implemented by 2020? Or do they get implemented later? Answer: The plan will include an evaluation of potential actions and an implementation plan for the most viable approaches. The actions and projects do not have to be implemented by 2020.
15. Question: Are we trying to reach 2015 levels? Or are we leveling off whenever we level off in 2040? Answer: There is no mandate to meet 2015 levels. The thresholds and objectives will define what the actions and projects need to achieve.
16. Question: Given that we are in critical overdraft, have we been in contact with DWR? They implied that levels could not change from now. Answer: The basin is not required to return to 2015 groundwater levels. The requirement is that the basin achieve sustainability, which the GSP will define for this basin.
17. Question: Explain the glidepath. How is it used, and is this just to help predict the future? Answer: The glidepath is included to establish a predictable plan for how and when the basin might achieve more sustainable conditions.
18. Question: Is there a way when considering purchasing water to evaluate how demands and supplies and price may change over time? Can you account for price changes over a 20-year purchase plan? Answer: The evaluation will estimate costs for the actions and projects considered.
19. Question: How would funds would be raised to buy that water? Answer: The GSP implementation plan will also describe how actions and projects will be funded.
20. Comment: Plant crops that use less water, e.g., perennial plants.
21. Comment: In five years, we will review the GSP, figure out what we did wrong, and figure out how to mitigate and fix it.
22. Comment: Range management might be the only option because any other activity may result in litigation about water use changes from users downstream.
23. Contact the Center for Irrigation Technology for information to evaluate irrigation efficiency actions.
24. The Santa Barbara County Range Improvement Association is developing actions to improve land management.
25. Question: What can be learned from other GSAs? Answer: The team is reviewing ideas being considered by other GSAs.

Participant Comments Received – Spanish Language Workshop

1. Comment: If people can capture flows downstream, there must be a way for us to also capture stormwater upstream for groundwater recharge.
2. Comment: Water supply can be augmented by building more dams.

3. Comment: Infrastructure for stormwater capture to collect and store water on-site would be helpful to supplement nonpotable, domestic water uses during droughts. This is done in parts of Mexico and has proven to be effective.
4. Comment: Many people are not aware about water conservation. Teaching about water conservation in schools would help reduce water demand.
5. Comment: The whole town needs to be educated on water issues, including water supply and water quality.
6. Comment: Water quota may be necessary as has been done in parts of Mexico.
7. Comment: In the past, residents have received notices that severely limit residential water use. A potential solution is to install on-site or communal water reservoirs to supplement water shortages for emergency needs. This may require trucking water in to fill the reserve.

Written Comments Received – Management Actions and Projects

Written comments received pertaining to the presentation on possible management actions are included below. The comment form posed the questions: "*Are there other actions or projects that you think should be considered? What management actions make the most sense to you and why?*"

1. I think water metering and water accounting are fundamental and necessary tools. Flood water capture to enhance aquifer recharge is a great idea. I think using broad scale earthworks would help recharge the aquifers without depriving folks downstream. I also don't think we should shy away from reducing demand by replacing more water intensive crops with more drought resistant ones, or appropriately managed livestock operations. I also love the woman's idea of using controlled burns to clear understory, for multiple reasons - mostly reducing the intensity of fire danger but also improving the water table.
2. The historic deforestation of oaks in the Cuyama Valley is something you should look at. I felt that there was too much talk of clearing vegetation to free up water without very much education on that matter on long term effects of that.
3. I would like to see this Basin managed to meet supply. Manage undergrowth in forested areas to optimize groundwater recharge and reduce fire danger.
4. Management needs to be sustained and hopefully regenerative; the ecological design system known as "permaculture" urges the use of mulching, contour swales, micro-irrigation, and careful crop planting. I urge further investigation into this design model. Things that need to be considered include climate change, changes in government, the loss of the EPA and new legislation. What can we do as a community to counter these changes to allow ourselves to flourish?
5. Based in the last piece of discussion in this section of the workshop, the six graphs on page 14 indicated that there are areas that are essentially sustaining currently. The speaker alluded that all data would be averaged to develop a plan for the whole basin. There clearly needs to be different management {in different areas} based on the graphed data on page 14. The areas and individuals in the sustained areas will be greatly impacted to average the area or bring them to an averaged sustainability. Areas that are overdrafted should have to make more drastic changes to compensate.
6. Capturing excess water should be considered. There is no water running routinely in the Cuyama River. Not changing what is delivered to people past Twitchell Reservoir. If a known volume is delivered downstream, maintain that delivery and capture any excess, or capture all runoff and release the current volumes that the down river users expect.

Workshop Part 3: Concepts for Management Areas

Following a presentation on potential concepts for management areas to consider for the Cuyama Basin, workshop participants provided the following comments, observations, and questions.

Participant Comments and Questions – English Language Workshop

1. Question: Can we use a combination of those management areas? Answer: Yes. The GSA could decide to combine concepts, or use a different approach not developed yet.
2. Comment: Divide by irrigated vs non-irrigated areas.
3. Comment: Blue areas (high GW levels) are traditionally grazing lands that use very little water, so why manage them?
4. Question: Why do we have so much area that is outside of main part of the basin? Why don't we just change the basin boundary? Answer: Boundary modifications could be considered, but the rules specify when DWR will consider changes.
5. Question: Do we really need management areas? It's hard to set them if we don't really know what they can and cannot do. Answer: This presentation is a preliminary presentation of concepts. Having no management areas is also an option. The team will provide additional information about what can and can't be accomplished with management areas.
6. Question: Could the plan set management areas based on data gaps, with the purpose of not necessarily setting thresholds and just trying to figure out what to do there? Answer: It is possible, but generally, management areas are to help set thresholds and to organize and implement management actions and projects.
7. Comment: Another data point would be rainfall in the foothills, can you establish management areas by rainfall patterns?
8. Question: What standard are federal lands under in terms of water use? Are there regulations they must comply with? Answer: The federal government is not bound by state law.
9. Question: If there have been grapes planted at the west end of the basin and the basin was in overdraft before that, who makes the decision for final water cutbacks. Answer: The GSA Board will decide on the management actions and implementation plan.
10. Question: Can you accomplish results without management areas? Yes, management areas are not required. The GSA is the managing and implementing agency, with or without management areas.

Participant Comments – Spanish Language Workshop

1. Comment: Would prefer everything to be one management area since they are all connected. If there is a drought, the entire basin is affected.

Written Comments Received – English Language Workshop

Written comments received pertaining to the presentation on concepts for management areas are included below. The comment form posed the questions*: Did the options presented to you make sense? What are the important considerations for establishing management areas in the Cuyama Basin – jurisdiction, geography, groundwater conditions, others?*

1. I favor management areas based on current basin conditions. At either end of the basin, near Ventucopa and west of New Cuyama water levels have held at same level thus they are sustainable. Grazing land – open land – use far less than an inch of water per acre year.
2. No, the options do not make sense in terms of what is actually sustainable. What options are you considering that are regenerative?

Additional General Written Comments Received

The comment form included a final statement: *Please provide any additional comments regarding groundwater management in the Cuyama Valley*.

1. There is a lot of education to be done on holistic grazing, forest management, and how we can make sure that the management plan chosen isn't just stabilizing but thinking about regenerating our groundwater.
2. West end of basin where wells have been drilled beyond water table – I believe that these may have been drills for oil that did not pan out because that type of well was sometimes turned over to surface owner as water well.
3. I urge further investigation into permaculture and exploring regenerative options for water supply.
4. Cleary, data gathered suggests that management/subbasin areas are needed to address sustainability vs high overdraft. There are already {missing word} that indicates the Ventucopa area is currently sustaining or needs a little change. Where New Cuyama CSD needs more heavy investigation to achieve sustainability. Averaging these two areas will not fix the problem.
5. Consider putting workshops on YouTube/Web so that what is presented at the meeting can be presented without bias. The last Cuyama Rec District newsletter gave a biased overview of the previous workshop. Those not in attendance reading that accounting will not have all of the details.
6. Offer community-based groundwater-level monitoring network (using Wellntel tech). Provide well owners real-time well status - level pumping. Fill data gaps and calibrate numerical model.

Appendix A – Workshop Notification

Two CBGSA notices were prepared for the September 5, 2018 workshops – one in English and one in Spanish. The notices were distributed as follows:

1. **August 1:** Cuyama Valley Recreation District newsletter included the Newsletter, edition 2, which announced the workshops on Sept. 5.
2. **August 8:** Mailed postcards to 694 parcel owners in the Cuyama Basin, 22 came back to the CBGSA marked *return to sender*.
3. **August 13:** Issued English and Spanish versions of the notice electronically to CBGSA email list, and to partners including Family Resource Center, Cuyama Community Association, BlueSky, and the four counties.
4. **August 14 through September 5**: Coordinated distribution of the workshop notices within Cuyama Basin by the volunteers at the Cuyama Valley Family Resource Center. More than 200 notices were distributed by volunteers through the FRC at locations including the Food Truck, The Place, along Hwy 33, and several other locations in New Cuyama.
5. **August 15**: Posted workshop notices to the CBGSA website.
6. **August 26**: SAC member Jake Furstenfeld agreed to post notices in the "finger" areas in Cuyama.
7. **August 24**: San Luis Obispo County emailed the workshop notices to their stakeholder list for Cuyama.
8. **August 29**: CBGSA issued a reminder email to its stakeholder list and partners.
9. **August 31**: San Luis Obispo emailed out a reminder notice to its Cuyama stakeholder email list.

Appendix B

Participants at September 5, 2018 CBGSA Workshops that Signed In

1. Jamee Menzies, ranch manager
2. Stephanie Menzies, ranch manager
3. Lee Knudtson, Wellntel
4. Edward Fetterman, resident
5. Mike Post, Standing Advisory Committee
6. Molly Ancel, program manager, resident
7. Neil Currie, Cleath-Harris Geologists
8. Natalie Medrano, resident, quail springs
9. Jenya Schneider, rancher/Ventucopa
10. Kate Morgan, farm intern
11. Jeffrey R., resident, quail springs
12. Jack Anderson, business owner -livestock
13. Sam Ihrig, Blue Sky
14. Jeff Shaw, EKI
15. Das Williams, CBGSA Board member
16. John Adam, Adam Ranch
17. Louise Draucker, Standing Advisory Committee
18. Jessica Hoffman, resident
19. Joe Haslett, Standing Advisory Committee
20. Matt Young, Santa Barbara County
21. George Adam, Adam Ranch
22. Matt K., Cuyama Basin Water District
23. Jim and Chris {last name not legible}
24. Robbie Jaffee, Standing Advisory Committee, Chair
25. Joshua Bower, resident
26. Tom Bracken, CBGSA Board member
27. George Capello, CBGSA Board member
28. Cory Batilan (sp?), Santa Barbara county
29. Brenton Kelly, Standing Advisory Committee, vice-chair
30. Paul Chounet, CBGSA Board member
31. Meg Brown, resident
32. Madeliene Fairbairn, UC Santa Barbara
33. Jane Wooster, CBGSA Board member
34. Ann Myhre, land owner
35. Claudia Alvarado, Standing Advisory Committee
36. Jean Gaillard
37. Nayeli Caro
38. Leticia Valenzue
39. Ramona Law, Blue Sky
40. Steven Adam
41. Jean Reyes, landowner, rancher

42. Jessica Bourboza (sp?), resident
43. Gary Moore, landowner
44. Marvin Rahe, farmer
45. Sue Blackshear, resident
46. Karen Lewis, rancher

Plan for Meeting Topics and GSP Section Submittals
Posted to cuyamabasin.org September 21, 2018

(*NOTE: Information Subject to Change*)

Key: GSA Board adoptions and approvals Community Workshops

SAC/Board Mtg Dates	SAC Educational Topics	GSP Board/SAC Topics	Workshop Topics	GSP Section Submittals
June 28 July 11	• Monitoring of GW levels & quality, SW flows • What does SGMA require for water quality? • Management Areas	• Land and Water Use • Sustainability (workshop results)		• Plan Area (approval) • HCM (review)
July 26 August 1	• Calculating a Water Budget • How a Model Works – Historical Calibration	• Current Basin Water Conditions (GW levels & quality, SW flows) • Sustainability (draft Undesirable Results narrative)		• Undesirable Results Narrative (review)
August 30 September 5 Workshop	• How a Model Works – Current and Future Conditions • Management Actions & Projects	• Additional Info on Current Basin Water Conditions (GW levels & quality) • Monitoring Networks	• Initial Model Results – Historical • Assumptions for Current and Future Conditions • Conceptual Management Areas • Management Actions & Projects	• GW Conditions (review)
September 27 October 3	• Discussion on HCM and GW Conditions GSP sections	• Management Areas (discussion)		• HCM (approval) • Monitoring Networks (review)
November 1 November 7	• Discussion on Monitoring Networks GSP section • Funding Sources and Mechanisms	• Management Areas (approval) • Sustainability Thresholds (discussion)		• Data Management (review)

SAC/Board Mtg Dates	SAC Educational Topics	GSP Board/SAC Topics	Workshop Topics	GSP Section Submittals
November 29 December 5 Workshop	• Implementation Plan	• Draft Water Budgets (discussion) • Management Actions and Projects (discussion)	• Initial Model Results – Current and Future Conditions • Sustainability Goals and Criteria	• GW Conditions (approval) • Undesirable Results Narrative (approval) • Sustainability Thresholds (review)
December 27? January 2	• Discussion on Sustainability Thresholds GSP section	• Sustainability Thresholds (approval) • Implementation Plan (discussion)		• Monitoring Networks (approval) •
January 31 February 6 Workshop		• Management Actions and Alternatives Evaluations	• Management Actions and Alternatives Evaluations	• Data Management (approval) • Water Budget (review) • Projects & Management Actions (review)
February 28 March 6	• Discussion on Water Budgets and Projects and Actions GSP sections	• Management Actions & Projects (approval) • Implementation Plan (proposed)		• Sustainability Thresholds (approval) • Implementation Plan (review)
March 28 April 3 Workshop		• Implementation Plan (approval) • GSP Public Draft	• GSP Public Draft	• Water Budget (approval) • Management Actions & Projects (approval) • GSP Public Draft (review)
April 25 May 1		• GSP Public Draft response to comments		• Implementation Plan (approval)
May 30 June 5		• GSP Final Draft		• GSP Final Draft (approval)

TO: Board of Directors
Agenda Item No. 8b

FROM: Jim Beck, Executive Director

DATE: October 3, 2018

SUBJECT: Progress & Next Steps

Issue
Report on the progress and next steps for Cuyama Basin Groundwater Sustainability Agency activities.

Recommended Motion
None – information only.

Discussion
A presentation on the progress and next steps for Cuyama Basin Groundwater Sustainability Agency activities is provided as Attachment 1.

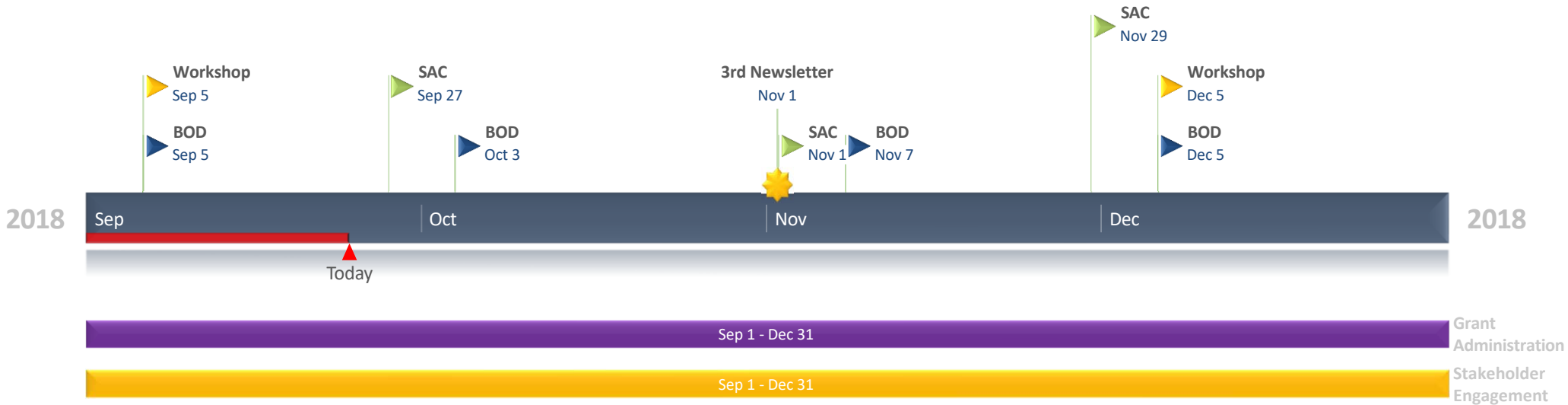
Cuyama Basin Groundwater Sustainability Agency

Progress & Next Steps

October 3, 2018

Cuyama Basin Groundwater Sustainability Agency

Near-Term Schedule



Cuyama Basin Groundwater Sustainability Agency

Program Schedule

Dec 6 - Mar 7	**Task 1: GSP & Stakeholder Engagement Strategy Development**
Dec 6 - Oct 26	**Task 2: Data Management System, Data Collection, Plan Review**
Jan 1 - Nov 30	**Task 3: Plan Area, HCM, Groundwater Conditions**
Dec 6 - Mar 29	**Task 4: Basin Model and Water Budget**
Apr 2 - Nov 16	**Task 5: Establish Basin Sustainability Criteria**
Apr 2 - Oct 26	**Task 6: Monitoring Networks**
Mar 1 - Feb 28	**Task 7: Project and Actions for Sustainability Goals**
Dec 3 - Feb 28	**Task 8: GSP Implementation Plan**
Dec 26 - Jun 28	**Task 9: GSP Document Development**
Dec 26 - Jun 28	**Task 10: Outreach, Education and Communication**
Dec 26 - Jun 28	**Task 11: Project Management**

Accomplishments & Next Steps

Accomplishments

- ✓ Continued facilitation of DWR Tech Assistance Program
- ✓ Coordinated DMS ad hocs
- ✓ Assisted in facilitating September 5th workshop

Next Steps

- Finalize grant admin documents with DWR
- Coordinate landowner agreements for DWR tech assistance

TO: Board of Directors
Agenda Item No. 9a

FROM: Jim Beck, Executive Director

DATE: October 3, 2018

SUBJECT: Financial Management Overview

Issue
Overview of the financial management for Cuyama Basin Groundwater Sustainability Agency activities.

Recommended Motion
None – information only.

Discussion
A presentation on the financial management for Cuyama Basin Groundwater Sustainability Agency activities is provided as Attachment 1.

Cuyama Basin Groundwater Sustainability Agency

Financial Report

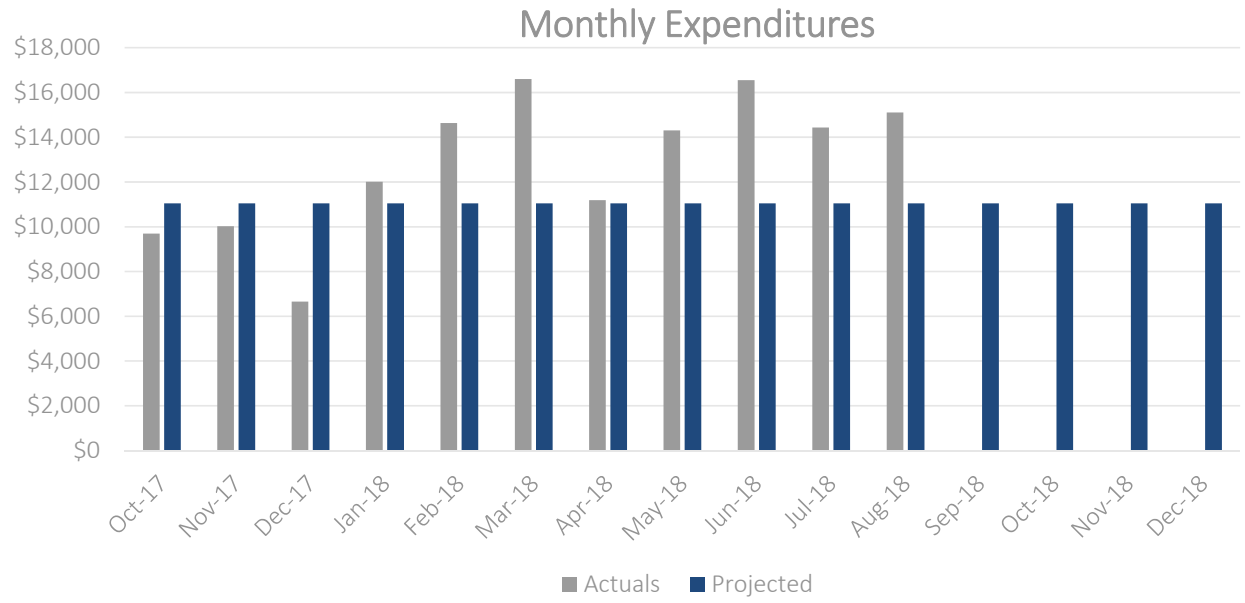
October 3, 2018

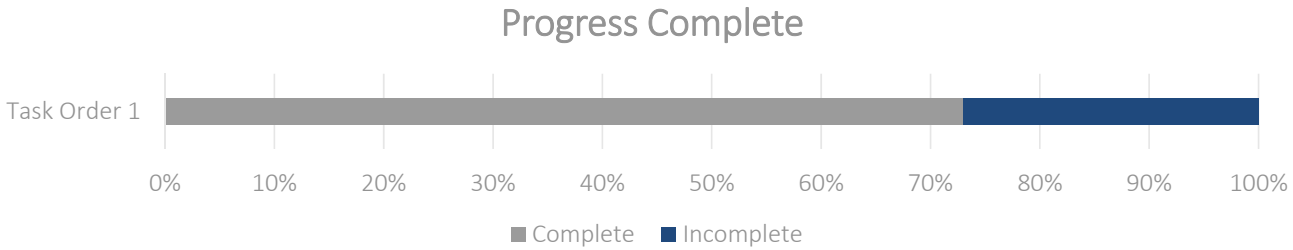
CBGSA OUTSTANDING INVOICES

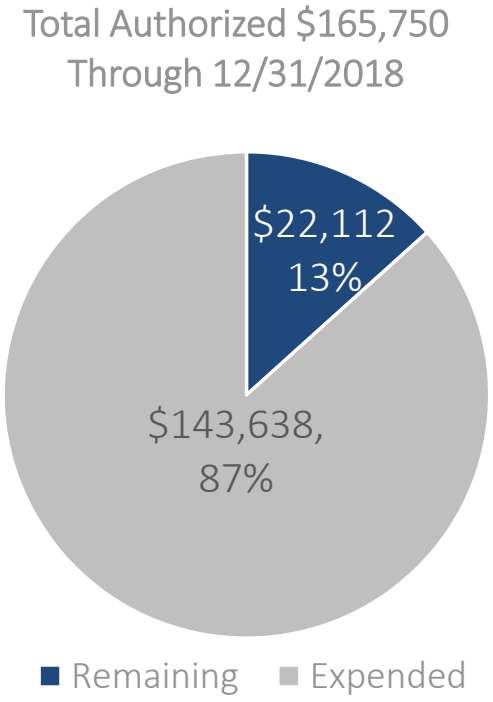
Task	Invoiced Through	Cumulative Total
Legal Counsel	8/20/2018	$5,783.00
Executive Director	8/31/2018	$36,078.00
GSP Development	8/31/2018	$510,950.00
TOTAL		$552,811.00

HALLMARK GROUP Capital Program Management

Executive Director Task Order 1

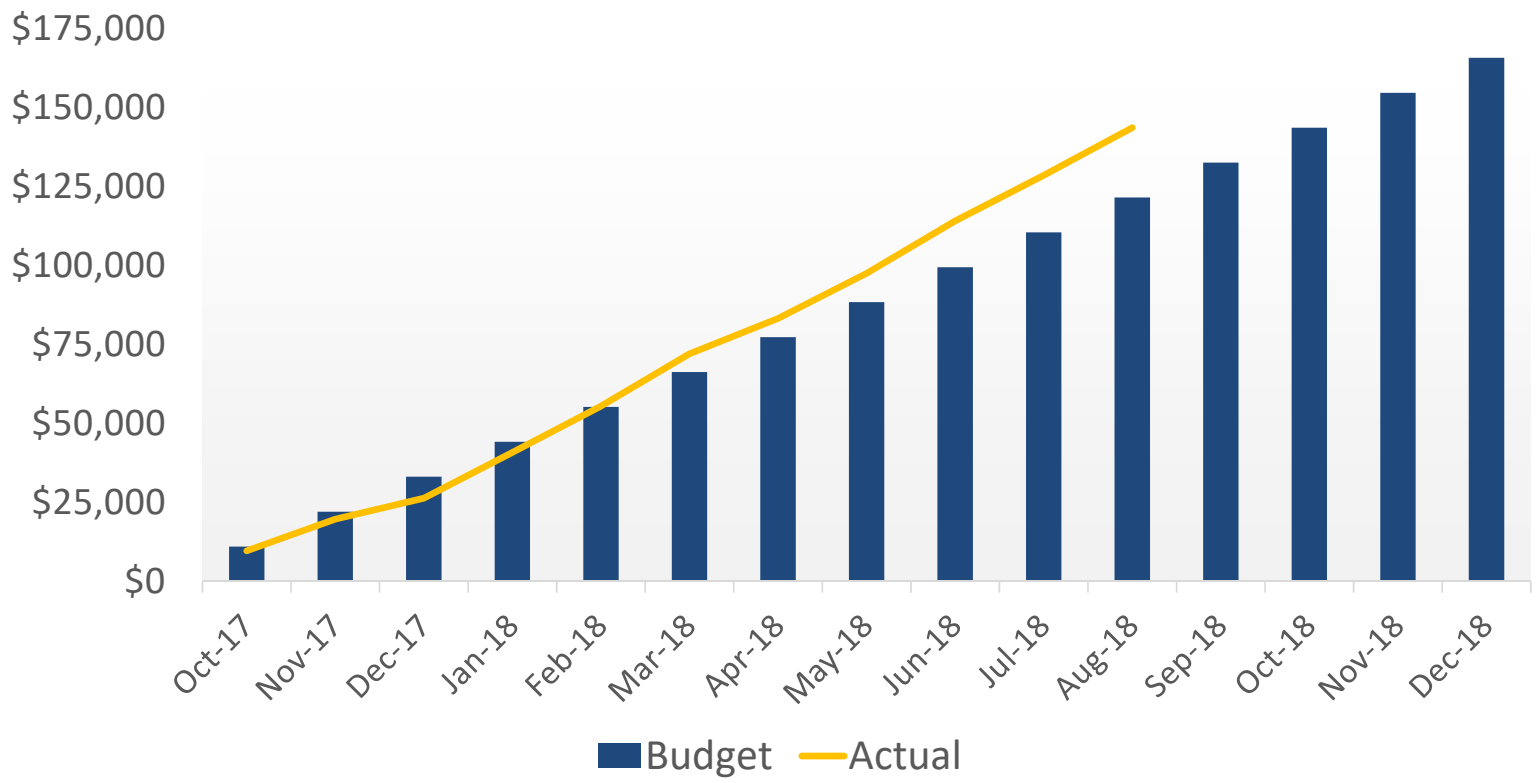




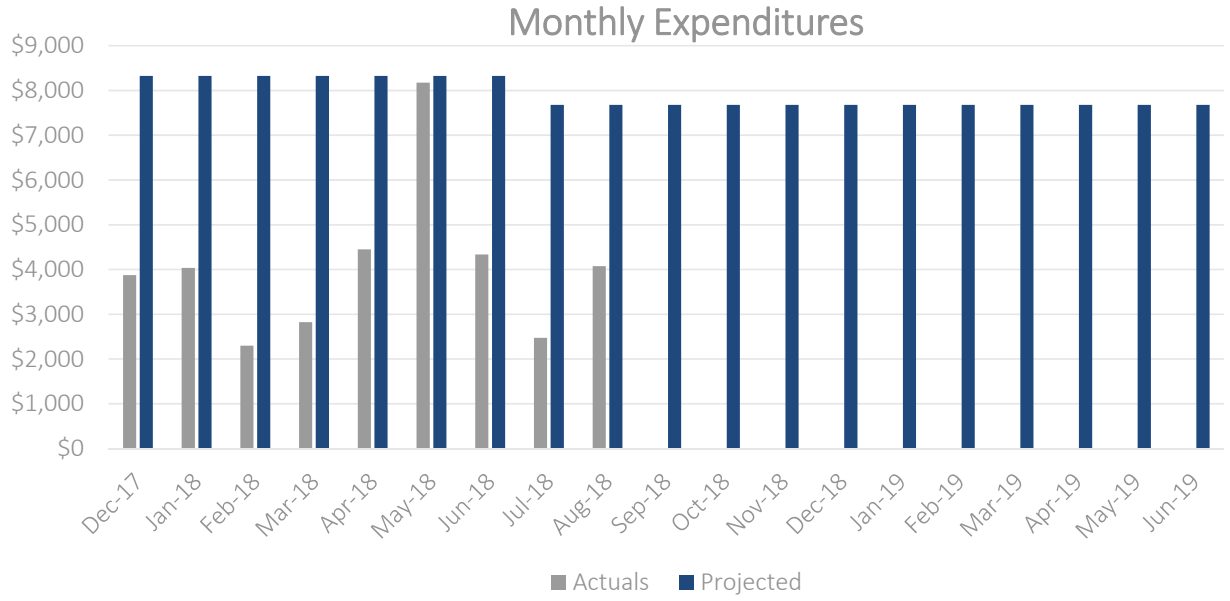


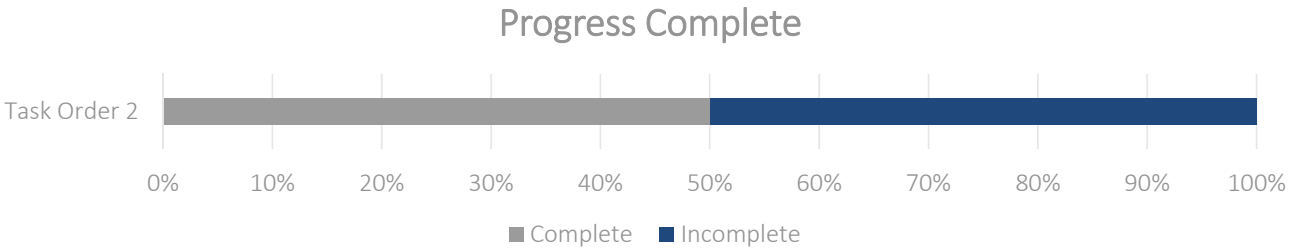
HALLMARK GROUP Capital Program Management

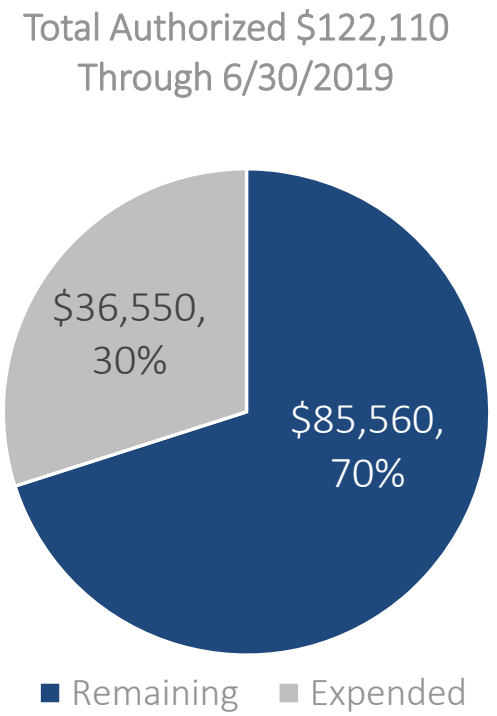
Task Order No. 1: Budget to Actual



Executive Director Task Order 2, Amd1

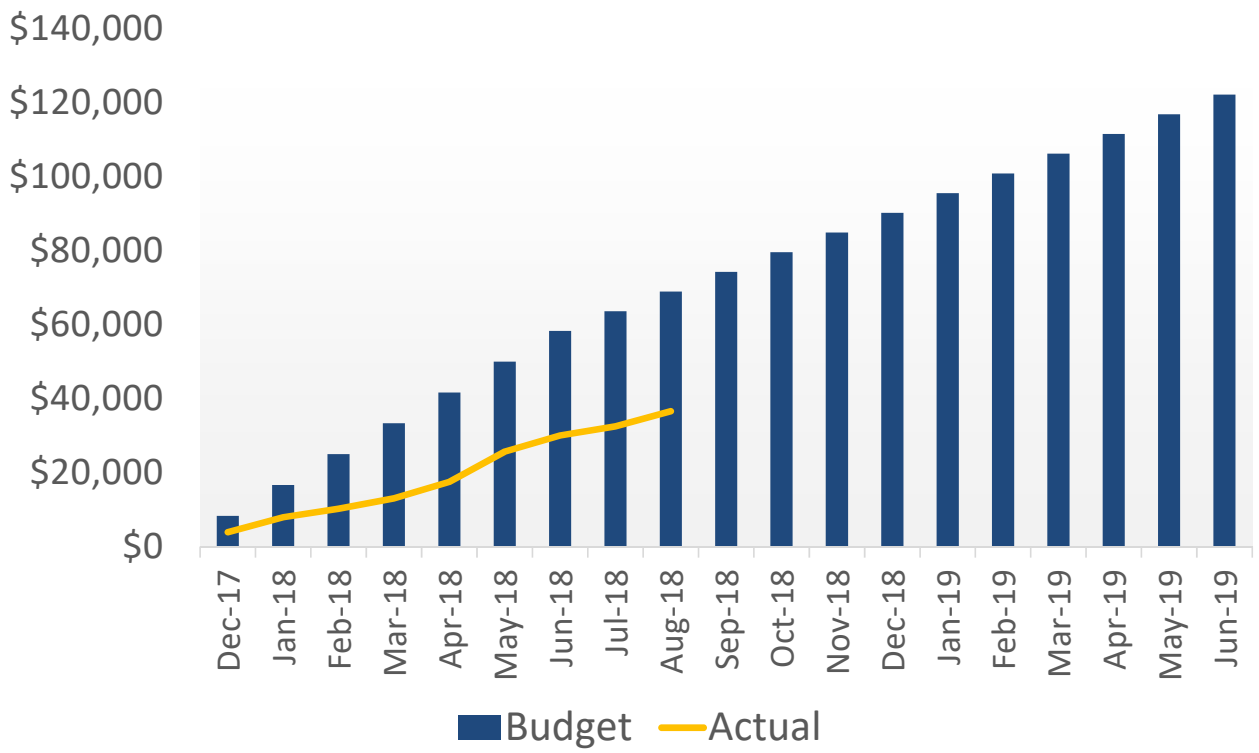




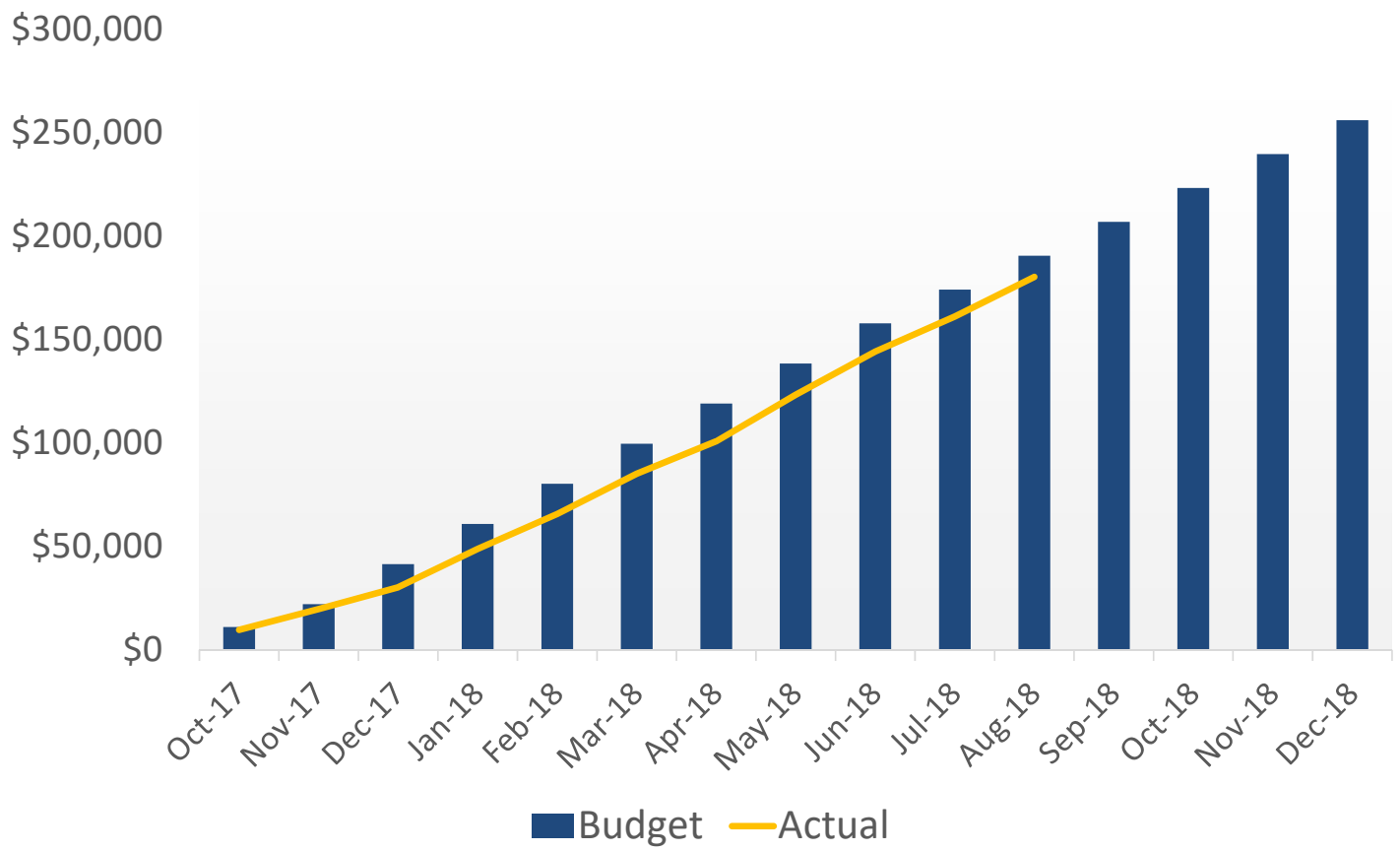


HALLMARK GROUP Capital Program Management

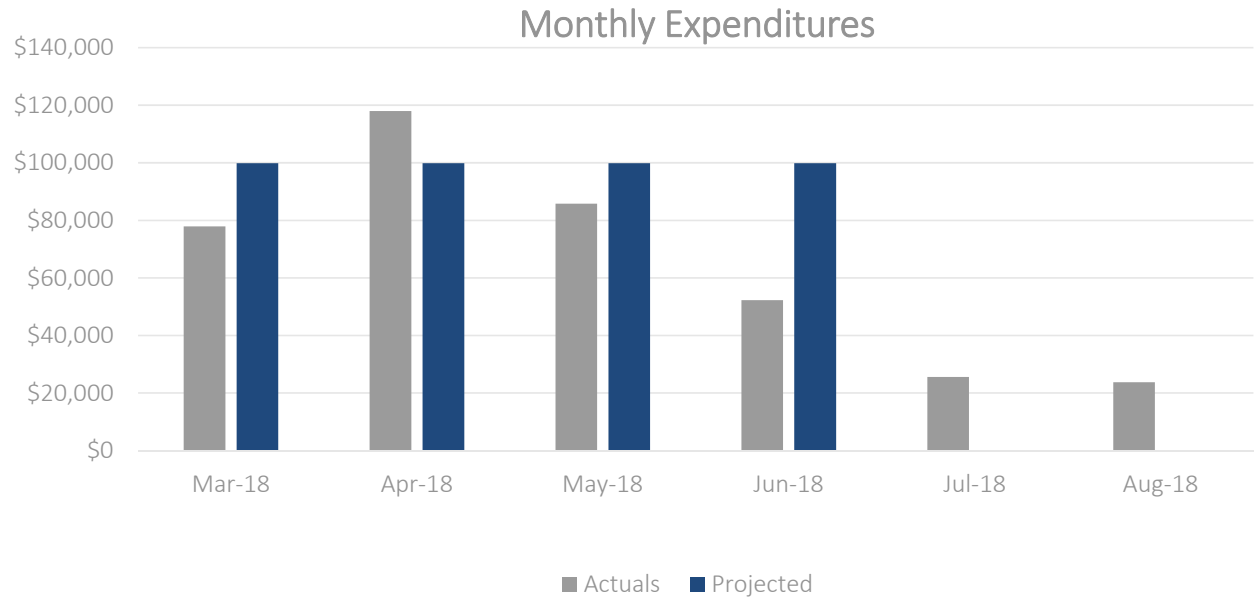
Task Order No. 2: Budget to Actual

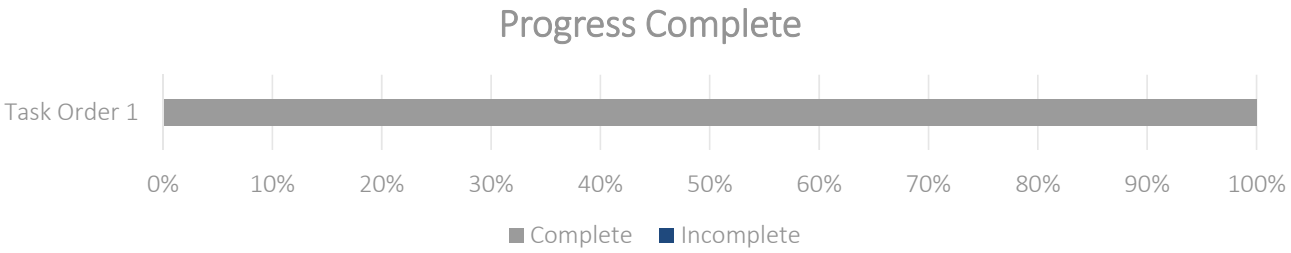


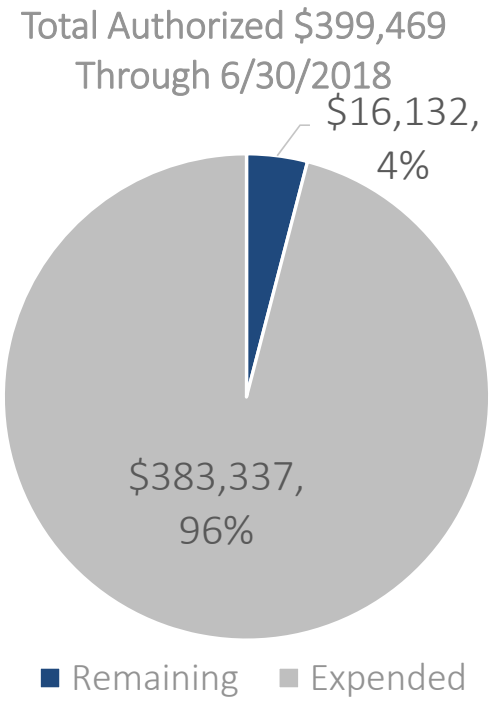
Task Order Nos. 1 & 2: Budget to Actual



GSP Development Task Order 2

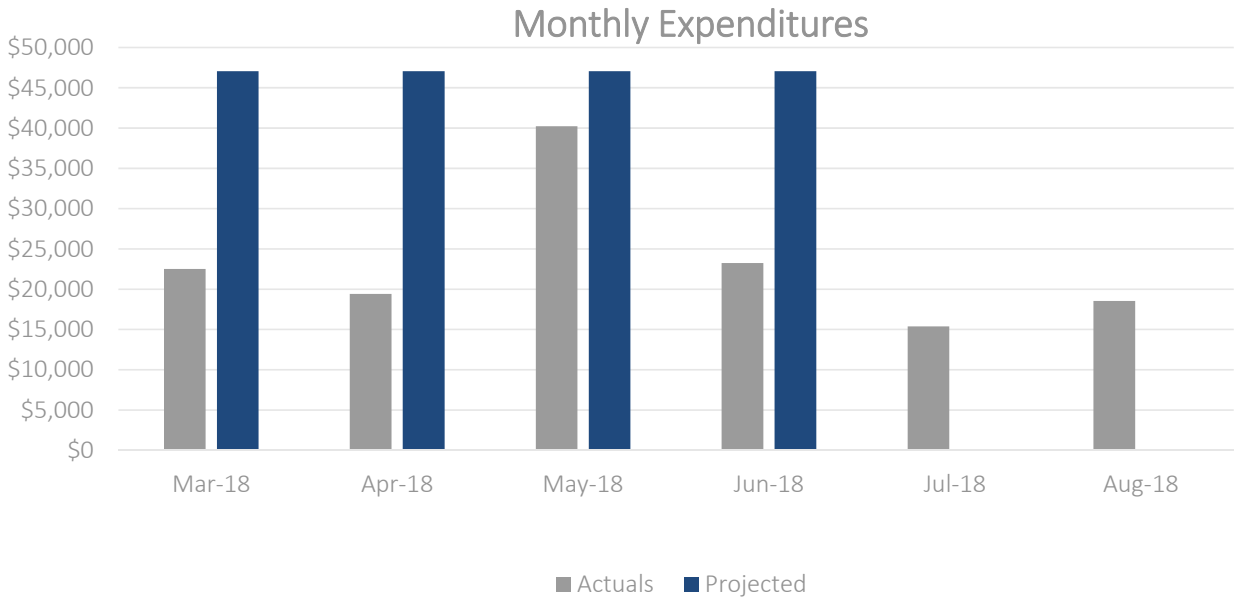


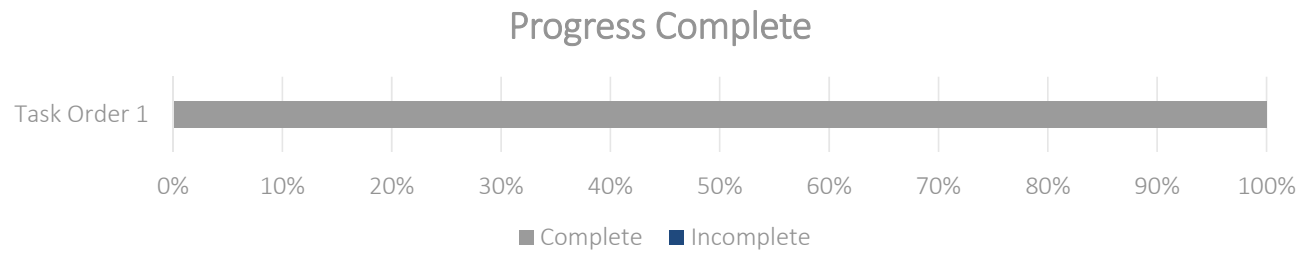


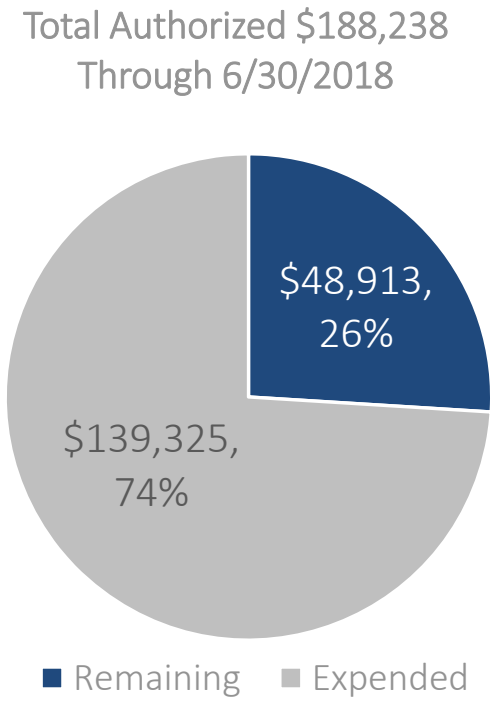


HALLMARK GROUP Capital Program Management

GSP Development Task Order 3

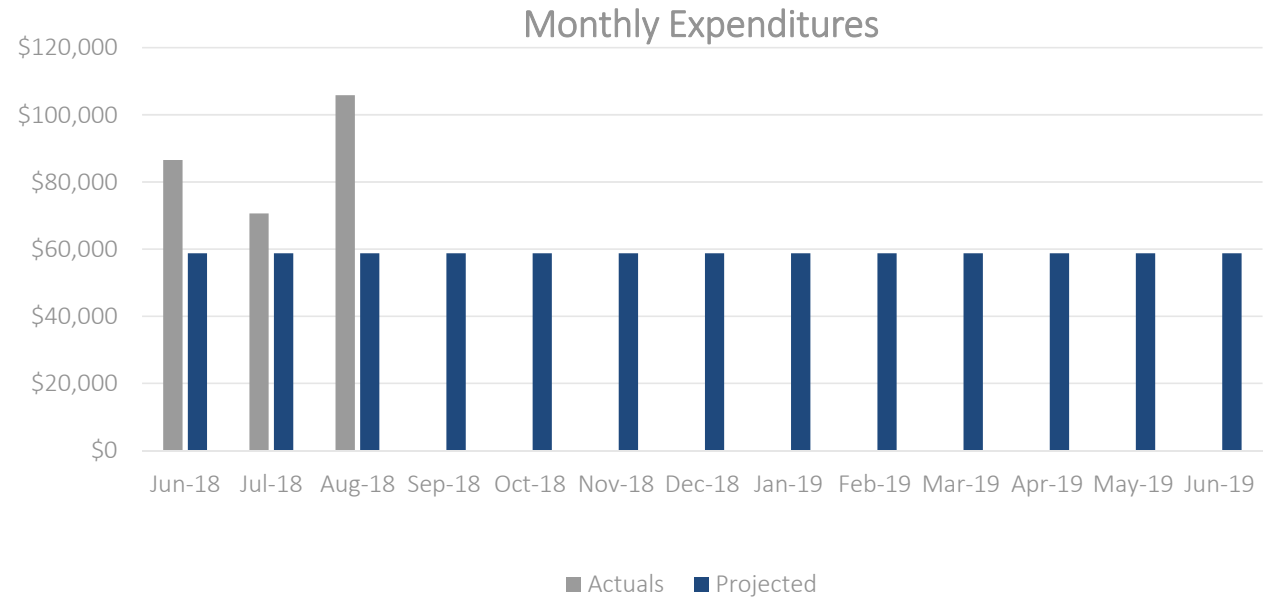


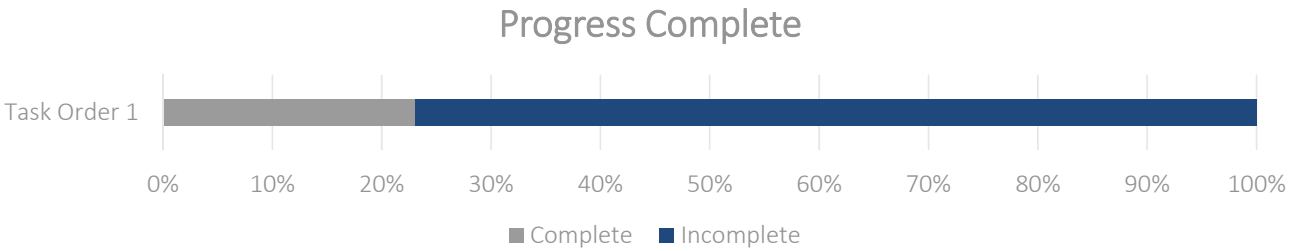


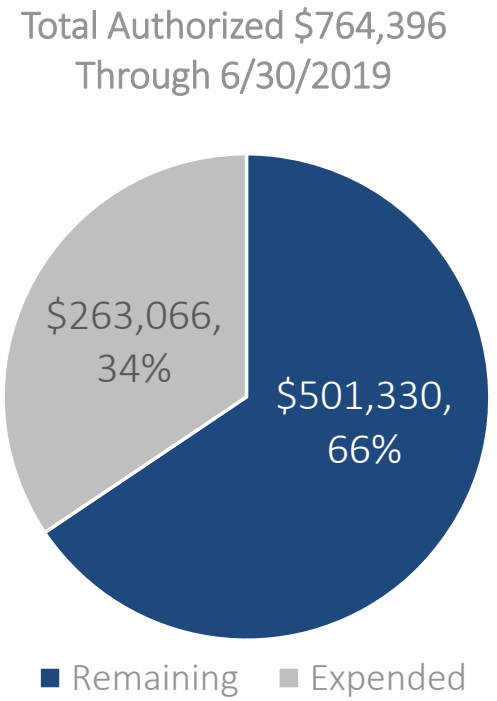


HALLMARK GROUP Capital Program Management

GSP Development Task Order 4

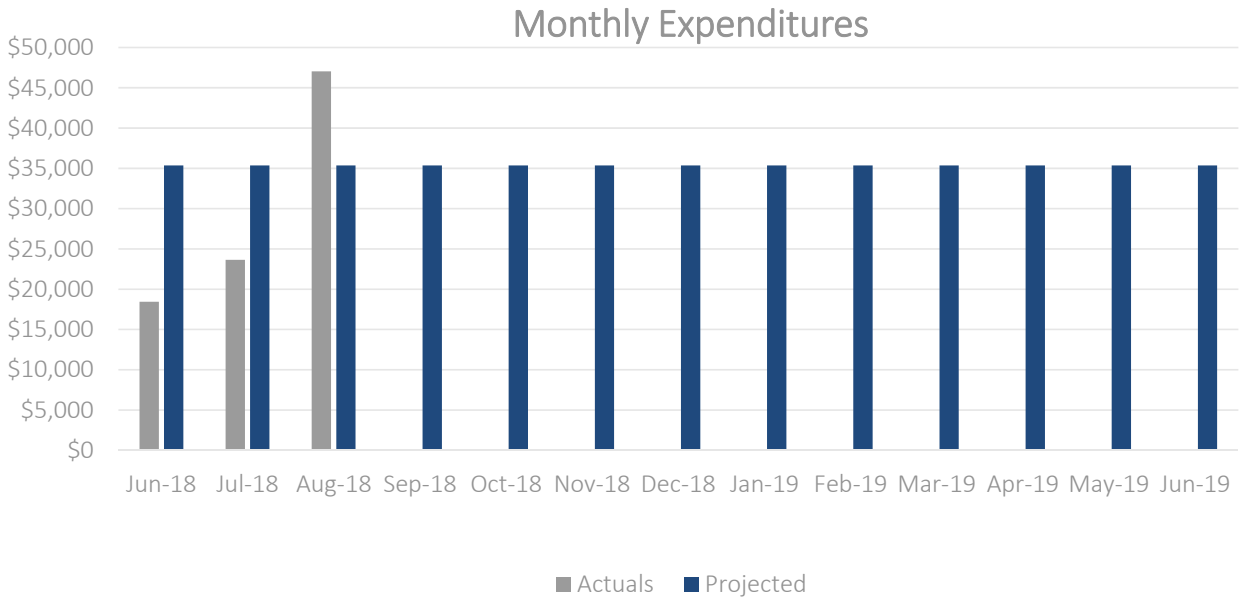


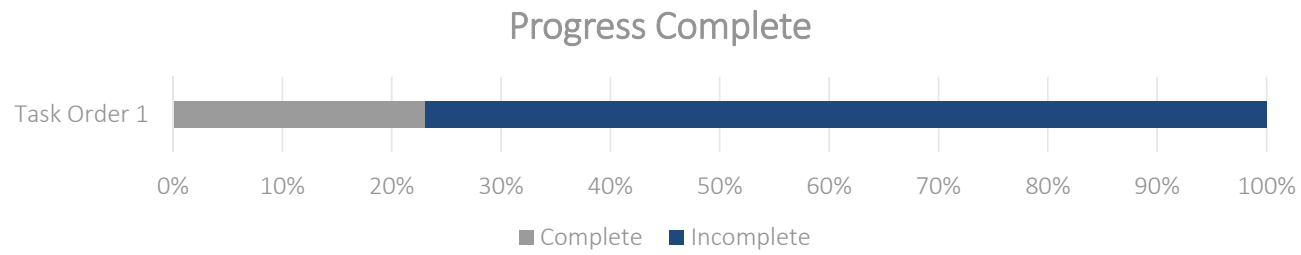


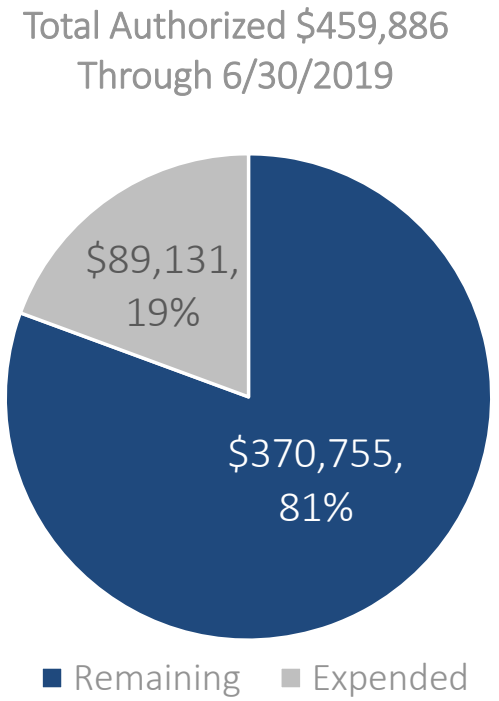


HALLMARK GROUP Capital Program Management

GSP Development Task Order 5

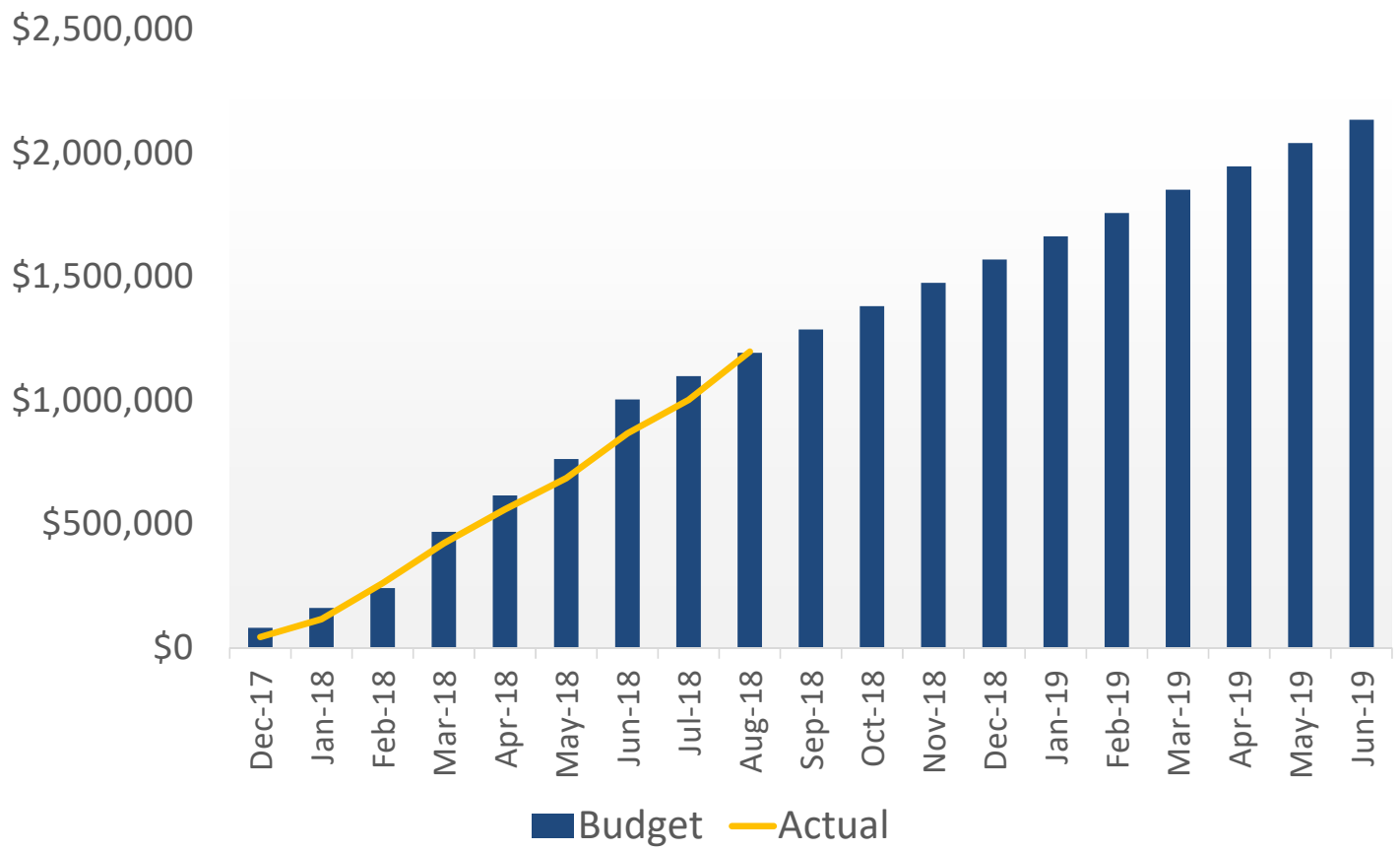






HALLMARK GROUP Capital Program Management

All Authorized W&C Task Orders: Budget to Actual



TO: Board of Directors
Agenda Item No. 9b

FROM: Jim Beck, Executive Director

DATE: October 3, 2018

SUBJECT: Financial Report

Issue
Financial Report

Recommended Motion
None – information only.

Discussion
The Cuyama Basin Groundwater Sustainability Agency's fiscal year end financial report is provided as Attachment 1.

The report includes:

- Statement of Financial Position, *as of August 31, 2018*
- Receipts and Disbursements, *as of August 31, 2018*
- A/R Aging Summary, *as of August 31, 2018*
- A/P Aging Summary, *as of August 31, 2018*
- Statement of Operations with Budget Variance, *July through August 2018*
- 2018/2019 Operational Budget, *July 2018 through June 2019*

CUYAMA BASIN GSA
Statement of Financial Position
As of August 31, 2018

	Aug 31, 18
ASSETS	
Current Assets	
Checking/Savings	
Chase - General Checking	35,546
Total Checking/Savings	35,546
Accounts Receivable	
Accounts Receivable	38,568
Total Accounts Receivable	38,568
Total Current Assets	74,114
TOTAL ASSETS	**74,114**
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
Accounts Payable	552,811
Total Accounts Payable	552,811
Total Current Liabilities	552,811
Total Liabilities	552,811
Equity	
Unrestricted Net Assets	-106,412
Net Income	-372,285
Total Equity	-478,696
TOTAL LIABILITIES & EQUITY	**74,114**

CUYAMA BASIN GSA
Receipts and Disbursements
As of August 31, 2018

Type	Date	Num	Name	Debit	Credit
Chase - General Checking					
Payment	07/02/2018	11366440	County of Kern	38,567.66	
Payment	07/05/2018	1001819148	County of Ventura	18,451.08	
Payment	07/05/2018	1039	Cuyama Basin Water District	387,307.44	
Payment	07/09/2018	9706702	Santa Barbara County Water Agency	56,306.25	
Payment	07/16/2018	10575	Cuyama Community Services District	3,251.50	
Bill Pmt -Check	07/18/2018	1006	HGCPM, Inc.		80,730.24
Bill Pmt -Check	07/18/2018	1007	Klein, DeNatale, Goldner		18,598.06
Bill Pmt -Check	07/18/2018	1008	Woodard & Curran		394,461.11
Payment	08/31/2018	10615	Cuyama Community Services District	2,982.30	
Total Chase - General Checking				506,866.23	493,789.41
TOTAL				**506,866.23**	**493,789.41**

CUYAMA BASIN GSA
A/R Aging Summary
As of August 31, 2018

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
County of San Luis Obispo	0	0	18,451	0	20,117	38,568
TOTAL	**0**	**0**	**18,451**	**0**	**20,117**	**38,568**

CUYAMA BASIN GSA
A/P Aging Summary
As of August 31, 2018

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
HGCPM, Inc.	19,175	16,902	0	0	0	36,078
Klein, DeNatale, Goldner	3,366	2,417	0	0	0	5,783
Woodard & Curran	195,124	135,300	180,526	0	0	510,950
TOTAL	**217,666**	**154,619**	**180,526**	**0**	**0**	**552,811**

CUYAMA BASIN GSA
Statement of Operations with Budget Variance
July through August 2018

	Jul - Aug 18	Budget	$ Over Budget	% of Budget
Ordinary Income/Expense				
Cost of Goods Sold				
Program Expenses				
Category/Component 1				
Monitoring/AMP Implementation	104,596.95	81,016.00	23,580.95	129.1%
Total Category/Component 1	104,596.95	81,016.00	23,580.95	129.1%
Category/Component 2				
GSP Development	225,827.47	152,410.00	73,417.47	148.2%
Total Category/Component 2	225,827.47	152,410.00	73,417.47	148.2%
Total Program Expenses	330,424.42	233,426.00	96,998.42	141.6%
Total COGS	330,424.42	233,426.00	96,998.42	141.6%
Gross Profit	-330,424.42	-233,426.00	-96,998.42	141.6%
Expense				
Administration and Operation				
Administrative Overhead				
Legal	5,782.85	7,000.00	-1,217.15	82.6%
Other Admin Expense	0.00	330.00	-330.00	0.0%
Postage and Mailing Services	0.00	3,000.00	-3,000.00	0.0%
Travel, Conferences, Trainings	0.00	830.00	-830.00	0.0%
Total Administrative Overhead	5,782.85	11,160.00	-5,377.15	51.8%
Staff and Administration of GSA				
Executive Director - TO1				
CBGSA Outreach	1,212.50	4,400.00	-3,187.50	27.6%
Consult Mgmt and GSP Devel	6,300.00	7,300.00	-1,000.00	86.3%
Financial Information Coor	2,325.00	1,700.00	625.00	136.8%
GSA BOD Meetings	18,412.50	8,700.00	9,712.50	211.6%
Total Executive Director - TO1	28,250.00	22,100.00	6,150.00	127.8%
Executive Director - TO2				
Budget Devel and Admin	75.00	0.00	75.00	100.0%
Financial Management	3,300.00	3,440.00	-140.00	95.9%
Outreach Facilitation	3,175.00	2,700.00	475.00	117.6%
Travel and Direct Costs	1,277.63	470.00	807.63	271.8%
Total Executive Director - TO2	7,827.63	6,610.00	1,217.63	118.4%
Total Staff and Administration of GSA	36,077.63	28,710.00	7,367.63	125.7%
Total Administration and Operation	41,860.48	39,870.00	1,990.48	105.0%
Total Expense	41,860.48	39,870.00	1,990.48	105.0%
Net Ordinary Income	-372,284.90	-273,296.00	-98,988.90	136.2%
Net Income	**-372,284.90**	**-273,296.00**	**-98,988.90**	**136.2%**

CUYAMA BASIN GSA
2018/2019 Operational Budget
July 2018 through June 2019

	Jul '18 - Jun 19
Ordinary Income/Expense	
Income	
Direct Public Funds	
Grants	1,966,858
Total Direct Public Funds	1,966,858
Total Income	1,966,858
Cost of Goods Sold	
Program Expenses	
Category/Component 1	
Grant Administration	13,104
Monitoring/AMP Implementation	472,989
Total Category/Component 1	486,093
Category/Component 2	
Grant Administration	25,434
GSP Development	889,032
Total Category/Component 2	914,466
Total Program Expenses	1,400,559
Total COGS	1,400,559
Gross Profit	566,299
Expense	
Administration and Operation	
Administrative Overhead	
General Liability Insurance	12,108
Legal	42,000
Other Admin Expense	2,000
Postage and Mailing Services	20,000
Travel, Conferences, Trainings	5,000
Total Administrative Overhead	81,108
Staff and Administration of GSA	
Executive Director - TO1	
CBGSA Outreach	26,400
Consult Mgmt and GSP Devel	43,800
Financial Information Coor	10,200
GSA BOD Meetings	52,200
Total Executive Director - TO1	132,600
Executive Director - TO2	
Budget Devel and Admin	6,700
Financial Management	38,120
Outreach Facilitation	16,200
Travel and Direct Costs	2,820
Total Executive Director - TO2	63,840
Total Staff and Administration of GSA	196,440
Total Administration and Operation	277,548
Total Expense	277,548
Net Ordinary Income	288,751
Net Income	**288,751**

TO: Board of Directors
Agenda Item No. 9c

FROM: Jim Beck, Executive Director

DATE: October 3, 2018

SUBJECT: Payment of Bills

Issue
Consider approving the payment of bills for August 2018.

Recommended Motion
Approve payment of the bills through the month of August 2018 in the amount of $217,665.59.

Discussion
Consultant invoices for the month of August 2018 are provided as Attachment 1.

Attachment 1

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Cuyama Basin GSA
c/o Jim Beck
4900 California Avenue, Ste B
Bakersfield, CA 93309

Please Remit To: **Hallmark Group**
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815
P: (916) 923-1500

Invoice No.: 2018-CBWD-TO1-08A
Task Order: HG-001
Date: September 11, 2018

For professional services rendered for the month of August 2018

Task Order	Sub task	Task Description	Billing Classification	Hours	Rate	Amount
HG-001	1	GSA Board of Directors and Advisory Committee Meetings	Executive Director	13.25	$ 250.00	$ 3,312.50
			Project Coordinator/Admin	47.25	$ 100.00	$ 4,725.00
					Total Task 1 Labor	**$ 8,037.50**
HG-001	2	Consultant Management and GSP Development	Executive Director	4.00	$ 250.00	$ 1,000.00
			Project Coordinator/Admin	35.50	$ 100.00	$ 3,550.00
					Total Task 2 Labor	**$ 4,550.00**
HG-001	3	Financial Information Coordination	Executive Director	1.00	$ 250.00	$ 250.00
			Project Controls	0.00	$ 200.00	$ -
			Project Coordinator/Admin	8.75	$ 100.00	$ 875.00
					Total Task 3 Labor	**$ 1,125.00**
HG-001	4	CBGSA Outreach	Executive Director	2.00	$ 250.00	$ 500.00
			Project Coordinator/Admin	1.50	$ 100.00	$ 150.00
					Total Task 4 Labor	$ 650.00
					Total Labor	$ 14,362.50
			Travel			$ 135.16
			Other Direct Costs: Conference Calls			$ 284.96
			Printing - Board Meeting			$ 124.00
			Printing - SAC Committee			$ 165.00
					SubTotal Travel and Other Direct Costs	$ 709.12
			ODC Mark Up		5%	$ 28.70
					Total Travel and Other Direct Costs	$ 737.82
					TOTAL AMOUNT DUE FOR THIS INVOICE	$ 15,100.32

HG-001	Original Totals	Amendment(s)	Total Committed	Previously Billed	Current Billing	Remaining Balance
Task 1	$ 63,000.00	$ -	$ 63,000.00	$ 86,590.29	$ 8,037.50	$ (31,627.79)
Task 2	$ 54,750.00	$ -	$ 54,750.00	$ 24,056.06	$ 4,550.00	$ 26,143.94
Task 3	$ 12,750.00	$ -	$ 12,750.00	$ 8,437.50	$ 1,125.00	$ 3,187.50
Task 4	$ 31,500.00	$ -	$ 31,500.00	$ 3,591.86	$ 650.00	$ 27,258.14
Travel & ODCs	$ 3,750.00	$ -	$ 3,750.00	$ 3,411.01	$ 737.82	$ (398.83)
Insurance	$ -	$ 2,451.00	$ 2,451.00	$ 2,451.00	$ -	$ -
Total	$ 165,750.00	$ 2,451.00	$ 168,201.00	$ 128,537.73	$ 15,100.32	$ 24,562.95

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of August 2018:

J. Beck

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared for and attended monthly Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) meeting.
- Assisted in the development and review of the SAC and Board agendas.
- Discussed Data Management System (DMS) beta testing and policy issues with CBGSA Chair Derek Yurosek.
- Discussed and reviewed Grapevine Capital's resistivity study proposal.

Task 2: Consultant Management and GSP Development

- Met with CBGSA Management Team on a weekly basis.
- Reviewed monitoring well information from the California Department of Water Resources (DWR) Technical Assistance Ad hoc.
- Prepared for and discussed Tech Forum issues.

Task 3: Financial Information Coordination

- Reviewed documents for the DWR grant requirement.
- Reviewed cashflow and updated to reflect delayed DWR reimbursement.

Task 4: CBGSA Outreach

- Reviewed and discussed outreach activity with CBGSA Management Team.
- Reviewed the workshop notice and email.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of August 2018:

T. Blakslee

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Assisted in preparing Board documents for the Cuyama Basin Groundwater Sustainability. Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors meeting.
- Discussed data validation with CBGSA Management Team
- Assisted in preparing SAC and Board minutes, agendas, and packets.
- Attended and took minutes at the SAC and Board meetings.
- Coordinated with J. Hughes regarding the Conflict of Interest Code.

Task 2: Consultant Management and GSP Development

- Coordinated and facilitated weekly CBGSA Management Team meetings.
- Assisted in developing agendas and action logs for weekly CBGSA management team meetings.
- Coordinated Hydrogeologic Conceptual model comments.
- Coordinated Data Management System (DMS) Beta Group Ad hoc meeting.
- Set up and participated in a California Department of Water Resources (DWR) Technical Assistance ad hoc meeting.
- Coordinated Undesirable Results Narrative comments and distributed to Woodard & Curran
- Facilitated meeting regarding CBGSA budget concerns.

Task 3: Financial Information Coordination

- Reviewed grant administration documents with A. Regmi.
- Continued coordination of funding agreement with C. Martin.
- Reviewed CBGSA Board financials and discussed with J. Harris.
- Drafted revised cashflow for operating budget assumptions.

Task 4: CBGSA Outreach

- Finalized newsletter with M. Currie and distributed to stakeholders.
- Reviewed public workshop plan.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of August 2018:

M. Ballard

Task 1: GSA Board of Directors and Advisory Committee Meetings

- Prepared for and attended monthly Cuyama Basin Groundwater Sustainability Agency (CBGSA) Board of Directors meeting.
- Drafted and prepared documents for the Cuyama Basin Groundwater Sustainability Agency (CBGSA) Standing Advisory Committee (SAC) and Board of Directors meetings.
- Prepared SAC and Board packets.
- Drafted CBGSA SAC and Board minutes.
- Distributed Hydrogeologic Conceptual Model revisions.
- Assisted in the development and review of the SAC and Board agendas.

Task 2: Consultant Management and GSP Development

- Updated and distributed action log and agendas for CBGSA Management Team meetings.

Task 3: Financial Information Coordination

- Nothing to report.

Task 4: CBGSA Outreach

- Nothing to report.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #1
Activities for the Month of August 2018:

- **J. Harris**

Task 3: Financial Information Coordination

- Billing and administration.

CUYAMA PRINTING COSTS

Board - 8/1/2018

Document	B&W, or Color	Pages	Rate	Cost
Agenda (Board Members)	B&W	30	$ 0.10	$ 3.00
Agenda (Public)	B&W	40	$ 0.10	$ 4.00
Spanish Presentations	B&W	115	$ 0.10	$ 11.50
Sign-in Sheet	Color	1	$ 0.50	$ 0.50
Board Packets	Color	210	$ 0.50	$ 105.00
			Total Cost	$ 124.00

SAC - 8/30/2018

Document	B&W, or Color	Pages	Rate	Cost
Agenda (SAC Committee)	B&W	30	$ 0.10	$ 3.00
Agenda (Public)	B&W	40	$ 0.10	$ 4.00
Spanish Presentations	B&W	335	$ 0.10	$ 33.50
Sign-in Sheet	Color	1	$ 0.50	$ 0.50
SAC Packets	Color	248	$ 0.50	$ 124.00
			Total Cost	$ 165.00

Project and Person Summary with Expense Detail

HALLMARK GROUP Capital Program Management

Date Range: 8/1/2018 - 8/31/2018

Client / *Project*	*Person* / *Expense Type*	*Date*	*Description*	*Mileage*	*Amount*
Cuyama Basin Water District					
1708-CBWD Cuyama Basin					
	Taylor Blakslee				***$135.16***
	Mileage			*248.00*	*$135.16*
		8/1/2018	Mileage to Cuyama from Bakersfield (RT)	124.00	$67.58
		8/30/2018	Mileage to Cuyama from Bakersfield (RT)	124.00	$67.58
				Cuyama Basin Subtotal	**$135.16**
				Cuyama Basin Water District Subtotal	**$135.16**
				Grand Total	***$135.16***

Great America Networks
Conference Line Bill
August 2018

Total Billed Charges	$	394.00
Taxes and Fees	$	70.52
Tax Rate		17.90%

Cuyama Charges

1-Aug	$	27.95
3-Aug		7.35
8-Aug		24.90
10-Aug		10.95
17-Aug		14.90
23-Aug		12.90
24-Aug		16.70
27-Aug		5.00
27-Aug		9.10
30-Aug		75.20
31-Aug		0.15
31-Aug		30.90
31-Aug		5.70
Subtotal	$	241.70
Tax		43.26
Total	**$**	**284.96**

GAN CONFERENCING
Bringing the world together

Invoice Date: 9/1/2018
Total: $464.52
Statement# 36328 Customer# 3122729

HGCPM, Inc. - Formerly Advance Education
1901 Royal oaks DR
Sacramento, CA 95815 -0000

Remit to:
Great America Networks Conferencing
15700 W. 103rd St
Suite 110
Lemont, IL 60439 6608

CALL US
1-877-438-4261

Summary

Balance Information	
Previous Balance	392.67
Payments Received - Thank you!	(392.67)
Balance Forward	
New Charges	
New Usage Charges	394.00
Recurring Charges	0.00
Taxes and Surcharges	70.52
Total New Charges	464.52
Total Amount Due	464.52

Payments

Description	Date	Amount
Payment Received, Thank you!	8/21/18	(392.67)
Subtotal		**($392.67)**

Taxes and Surcharges

Federal Universal Service Fund	70.52
Subtotal	**$70.52**

Management Reports

Usage by Category

Description	Calls	Minutes	Charge
Usage - Conference Calling	147	7,880.00	394.00
	147.00	**7,880.00**	**394.00**

Long Distance By Line

TN	Calls	Mins	Charge
	147	7,880.00	394.00
	147	**7,880.00**	**394.00**

Cuyama BDSAC Conference ID: 4500474

#	Date	Time	Other	Location	Mins	Amt
1	8/01/18	05:27P	8057814109	Host	124.00	6.20
2	8/01/18	05:56P	6617662369	Host	94.00	4.70
3	8/01/18	05:56P	9788572184	Participant	1.00	.05
4	8/01/18	05:57P	9788572184	Participant	94.00	4.70
5	8/01/18	05:59P	4157938420	Host	92.00	4.60
6	8/01/18	05:59P	6507590535	Participant	92.00	4.60
7	8/01/18	05:59P	6613316986	Participant	62.00	3.10
Subtotal			**559.00**			**27.95**

Cuyama BDSAC Conference ID: 4526620

#	Date	Time	Other	Location	Mins	Amt
1	8/23/18	05:56P	8318182451	Host	55.00	2.75
2	8/23/18	05:59P	6613302610	Host	52.00	2.60
3	8/23/18	05:59P	6613337091	Host	52.00	2.60
4	8/23/18	05:59P	6614773385	Host	52.00	2.60
5	8/23/18	06:04P	8058867239	Host	47.00	2.35
Subtotal			**258.00**			**12.90**

Cuyama BDSAC Conference ID: 4535541

#	Date	Time	Other	Location	Mins	Amt
1	8/30/18	05:54P	6617662369	Host	194.00	9.70

2	8/30/18	05:58P	4155242290	Host	182.00	9.10
3	8/30/18	05:58P	6172725538	Participant	224.00	11.20
4	8/30/18	05:58P	8188826514	Host	182.00	9.10
5	8/30/18	06:00P	6613316986	Participant	181.00	9.05
6	8/30/18	06:00P	9258581340	Host	17.00	.85
7	8/30/18	06:01P	8057484033	Host	60.00	3.00
8	8/30/18	06:05P	8057220509	Participant	191.00	9.55
9	8/30/18	06:16P	9256274112	Host	165.00	8.25
10	8/30/18	07:11P	8057484033	Host	17.00	.85
11	8/30/18	07:30P	8057484033	Host	91.00	4.55
Subtotal			**1,504.00**			**75.20**

Cuyama BDSAC Conference ID: 4536306

#	Date	Time	Other	Location	Mins	Amt
1	8/31/18	12:00P	6614773385	Host	3.00	.15
Subtotal			**3.00**			**.15**

Cuyama GSA Conference ID: 4502620

#	Date	Time	Other	Location	Mins	Amt
1	8/03/18	09:56A	4157938420	Host	34.00	1.70
2	8/03/18	09:57A	6613340233	Host	34.00	1.70
3	8/03/18	10:00A	9256274112	Host	30.00	1.50
4	8/03/18	10:02A	6613196477	Host	29.00	1.45
5	8/03/18	10:11A	4155242290	Host	20.00	1.00
Subtotal			**147.00**			**7.35**

Cuyama GSA Conference ID: 4508440

#	Date	Time	Other	Location	Mins	Amt
1	8/08/18	05:56P	8058867239	Host	58.00	2.90
2	8/08/18	05:58P	6613337091	Host	56.00	2.80
3	8/08/18	05:58P	6614773385	Host	56.00	2.80
4	8/08/18	05:59P	2133092347	Host	55.00	2.75
5	8/08/18	05:59P	8056160470	Host	55.00	2.75
6	8/08/18	05:59P	9169998780	Host	56.00	2.80
7	8/08/18	06:00P	6613302610	Host	54.00	2.70
8	8/08/18	06:00P	6615564542	Host	33.00	1.65
9	8/08/18	06:01P	9169998777	Host	53.00	2.65
10	8/08/18	06:32P	6617472130	Host	22.00	1.10
Subtotal			**498.00**			**24.90**

Cuyama GSA Conference ID: 4510957

#	Date	Time	Other	Location	Mins	Amt
1	8/10/18	11:59A	6614773385	Host	56.00	2.80
2	8/10/18	12:00P	4157938420	Host	55.00	2.75
3	8/10/18	12:01P	4155242290	Host	54.00	2.70
4	8/10/18	12:01P	9169998777	Host	54.00	2.70
Subtotal			**219.00**			**10.95**

Cuyama GSA Conference ID: 4519009

#	Date	Time	Other	Location	Mins	Amt
1	8/17/18	11:56A	4157938420	Host	54.00	2.70
2	8/17/18	11:57A	6614773385	Host	53.00	2.65
3	8/17/18	11:59A	9258581340	Host	51.00	2.55
4	8/17/18	12:00P	6613951000	Host	26.00	1.30
5	8/17/18	12:01P	5306689282	Host	49.00	2.45
6	8/17/18	12:10P	6613337091	Host	40.00	2.00
7	8/17/18	12:25P	6613951000	Host	25.00	1.25
Subtotal			**298.00**			**14.90**

Cuyama GSA Conference ID: 4527732

#	Date	Time	Other	Location	Mins	Amt
1	8/24/18	11:59A	9258581340	Host	58.00	2.90
2	8/24/18	12:00P	4157938420	Host	58.00	2.90
3	8/24/18	12:00P	6613340233	Host	58.00	2.90
4	8/24/18	12:01P	9169998777	Host	57.00	2.85
5	8/24/18	12:02P	4155242290	Host	56.00	2.80
6	8/24/18	12:11P	6613337091	Host	47.00	2.35
Subtotal			**334.00**			**16.70**

Cuyama GSA Conference ID: 4529503

#	Date	Time	Other	Location	Mins	Amt
1	8/27/18	12:59P	6614773385	Host	35.00	1.75
2	8/27/18	01:00P	9169998777	Host	33.00	1.65
3	8/27/18	01:01P	9256274112	Host	32.00	1.60
Subtotal			**100.00**			**5.00**

Cuyama GSA Conference ID: 4530195

#	Date	Time	Other	Location	Mins	Amt
1	8/27/18	06:27P	6613337091	Host	49.00	2.45
2	8/27/18	06:29P	9256274112	Host	45.00	2.25
3	8/27/18	06:30P	6614773385	Host	46.00	2.30
4	8/27/18	06:34P	6613302610	Host	42.00	2.10
Subtotal			**182.00**			**9.10**

Cuyama GSA Conference ID: 4536303

#	Date	Time	Other	Location	Mins	Amt
1	8/31/18	11:59A	9258581340	Host	35.00	1.75
2	8/31/18	12:00P	4155242290	Host	66.00	3.30
3	8/31/18	12:00P	4157938420	Host	23.00	1.15
4	8/31/18	12:00P	6613337091	Host	70.00	3.50
5	8/31/18	12:00P	6613951000	Host	71.00	3.55
6	8/31/18	12:00P	9169998777	Host	75.00	3.75
7	8/31/18	12:02P	6614773385	Host	130.00	6.50
8	8/31/18	12:23P	4157938420	Host	108.00	5.40
9	8/31/18	12:36P	9258581340	Host	34.00	1.70
10	8/31/18	01:06P	4159990316	Host	6.00	.30
Subtotal			**618.00**			**30.90**

Cuyama GSA Conference ID: 4536603

#	Date	Time	Other	Location	Mins	Amt
1	8/31/18	05:28P	4157938420	Host	33.00	1.65
2	8/31/18	05:29P	6614773385	Host	31.00	1.55
3	8/31/18	05:33P	9169998777	Host	28.00	1.40
4	8/31/18	05:38P	4155242290	Host	22.00	1.10
Subtotal			**114.00**			**5.70**

HALLMARK GROUP Capital Program Management

INVOICE

1901 Royal Oaks Drive
Suite 200
Sacramento, CA 95815

916 923.1500
hgcpm.com

To: Cuyama Basin GSA
c/o Jim Beck
4900 California Avenue, Ste B
Bakersfield, CA 93309

Please Remit To: Hallmark Group
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815
P: (916) 923-1500

Invoice No.: 2018-CBWD-TO2-08A
Task Order: CB-HG-002
Date: September 11, 2018

For professional services rendered for the month of August 2018

Task Order	Sub task	Task Description	Billing Classification	Hours	Rate	Amount
CB-HG-002	1	Budget Development & Admin	Executive Director	0.00	$ 250.00	$ -
			Project Controls Manager	0.00	$ 200.00	$ -
			Project Admin	0.50	$ 100.00	$ 50.00
					Total Task 1 Labor	**$ 50.00**
CB-HG-002	2	Financial Management	Executive Director	0.00	$ 250.00	$ -
			Project Controls Manager	7.75	$ 200.00	$ 1,550.00
			Project Admin	9.50	$ 100.00	$ 950.00
					Total Task 2 Labor	**$ 2,500.00**
CB-HG-002	3	Outreach Facilitation	Executive Director	0.50	$ 250.00	$ 125.00
			Project Admin	14.00	$ 100.00	$ 1,400.00
					Total Task 3 Labor	**$ 1,525.00**
					Total Labor	**$ 4,075.00**
			ODC - Travel			$ -
					SubTotal Other Direct Costs	**$ -**
			ODC Mark Up		5%	$ -
					Total Other Direct Costs	**$ -**
					TOTAL AMOUNT DUE FOR THIS INVOICE	**$ 4,075.00**

CB-HG-002	Original Totals	Amendment(s)	Total Committed	Previously Billed	Current Billing	Remaining Balance
Task 1	$ 13,400.00	$ -	$ 13,400.00	$ 8,475.00	$ 50.00	$ 4,875.00
Task 2	$ 28,400.00	$ -	$ 28,400.00	$ 16,162.50	$ 2,500.00	$ 9,737.50
Task 3	$ 32,100.00	$ (18,450.00)	$ 13,650.00	$ 7,837.50	$ 1,525.00	$ 4,287.50
Travel & ODCs	$ 2,820.00	$ -	$ 2,820.00	$ -	$ -	$ 2,820.00
Total	**$ 76,720.00**	**$ (18,450.00)**	**$ 58,270.00**	**$ 32,475.00**	**$ 4,075.00**	**$ 21,720.00**

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of July 2018:

- **J. Beck**

Task 1: Budget Development & Administration

- Nothing to report.

Task 2: Financial Management

- Nothing to report.

Task 3: Outreach Facilitation

- Discussed outreach with CBGSA Management Team.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of August 2018:

J. Harris

Task 1: Budget Development & Administration

- Nothing to report.

Task 2: Financial Management

- Processed accounts payable.
- Financial statement preparation and call with Taylor B. regarding budget cash flow.
- Billing and administration.
- Finalized 2017-18 Fiscal Year accounting and review.
- Reviewed and analyzed 2018-19 Final Budget.
- Entered 2018-19 Fiscal Year Budget in accounting software.
- Prepared July 2018 financial close.
- Reviewed 2018-19 Fiscal Year Budget allocations with Taylor B.

Task 3: Outreach Facilitation

- Nothing to report.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of August 2018:

M. Ballard

Task 1: Budget Development & Administration

- Coordinated Cuyama budget discussion meeting.
- Distributed 2018-19 Fiscal Year Budget to the County of Santa Barbara's Advanced & Specialty Accounting Division.

Task 2: Financial Management

- Drafted progress report for Hallmark services.

Task 3: Outreach Facilitation

- Coordinated the Cuyama Basin Groundwater Sustainably Agency (CBGSA) website update with minutes, agendas, educational topics, presentations, and 2018-19 Fiscal Year Budget.
- Updated CBGSA public stakeholder contact list.
- Coordinated the CBGSA public workshop postcard notice.
- Assisted with public workshop logistics.

HALLMARK GROUP Capital Program Management

CUYAMA BASIN MONTHLY REPORT

Task Order #2
Activities for the Month of August 2018:

T. Blakslee

Task 1: Budget Development & Administration

- Nothing to report.

Task 2: Financial Management

- Drafted Cuyama progress report for Hallmark services.
- Reviewed Cuyama 2018-19 operational budget.
- Reviewed and finalized revised work plan, schedule, and budget and sent to A. Regmi.

Task 3: Outreach Facilitation

- Coordinated a correction to the CBGSA's FAQ section.
- Reviewed draft notice of public workshop and coordinated final version with M. Currie.

KLEIN, DENATALE, GOLDNER
COOPER, ROSENLIEB & KIMBALL, LLP

4550 CALIFORNIA AVENUE
SECOND FLOOR
BAKERSFIELD, CA 93309

MAILING ADDRESS:
P.O. BOX 11172
BAKERSFIELD, CA 93389-1172
(661) 395-1000
FAX (661) 326-0418
E-MAIL accounting@kleinlaw.com

CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY
C/O HALLMARK GROUP
1901 ROYAL OAKS DRIVE, SUITE 200
SACRAMENTO, CA 95815

August 30, 2018
Bill No. 22930-001-135015
JDH

Statement for Period through August 20, 2018

Re: 22930 - CUYAMA BASIN GROUNDWATER SUSTAINABILITY AGENCY
001 GENERAL BUSINESS

Date		Services	Hours	Amount
07/20/18	JDH	TELEPHONE CONFERENCE WITH J. BECK, R. JAFFE AND B. KELLY REGARDING STUDY GROUPS.	0.50	135.00
07/26/18	RSP	PREPARED MATERIALS FOR ADOPTION OF CONFLICT OF INTEREST CODE.	2.30	437.00
07/26/18	JDH	ATTENDED JULY REGULAR STANDING ADVISORY COMMITTEE TELEPHONICALLY.	3.00	810.00
07/27/18	JDH	WEEKLY PMT CONFERENCE CALL.	1.10	297.00
08/01/18	JDH	ATTENDED AUGUST REGULAR BOARD MEETING.	3.50	945.00
08/03/18	JDH	WEEKLY PMT CONFERENCE CALL.	0.50	135.00
08/06/18	JDH	REVIEWED AND REPLIED TO E-MAIL REGARDING STAKEHOLDER MATERIAL.	0.20	54.00
08/15/18	RSP	REVISED DRAFT CONFLICT OF INTEREST CODE; PREPARED STAFF MEMORANDUM REGARDING SAME.	0.30	57.00
08/16/18	RSP	UPDATED DRAFT CONFLICT OF INTEREST CODE BASED ON COMMENTS FROM J. HUGHES.	1.10	209.00
08/17/18	JDH	WEEKLY PROJECT MANAGEMENT TEAM CALL.	0.80	216.00

		Rate	Hours	Amount
JDH	HUGHES, JOSEPH	270.00	9.60	2,592.00
RSP	PATEL, RAVI	190.00	3.70	703.00
Total Fees				**$3,295.00**

Costs and Expenses

Date	Expenses	Amount

PAYMENT DUE UPON RECEIPT
PLEASE REFER TO BILL NUMBER LOCATED BENEATH STATEMENT DATE WHEN SUBMITTING PAYMENT
TO ENSURE PROPER CREDIT.
A FINANCE CHARGE OF 1 1/2% PER MONTH (18% ANNUALLY) WILL BE CHARGED ON ALL BALANCES OVER 30 DAYS.
FEDERAL I.D. NO. 95-2298220

KLEIN, DENATALE, GOLDNER, COOPER, ROSENLIEB & KIMBALL, LLP

Bill No. 22930-001-135015 **August 30, 2018** **Page 2**
Client Ref: 22930 - 001

Costs and Expenses

Date	Expenses	Amount
08/03/18	TRAVEL EXPENSES 8/1 ROUND TRIP TRAVEL FOR AUGUST BOARD MEETING - JOSEPH D. HUGHES	70.85
Total Costs and Expenses		**$70.85**

Current Charges	**$3,365.85**
Prior Statement Balance	2,417.00
Payments/Adjustments Since Last Bill	-0.00
Pay This Amount	**$5,782.85**

Any Payments Received After August 30, 2018 Will Appear on Your Next Statement

WOODARD &CURRAN

COMMITMENT & INTEGRITY
DRIVE RESULTS

Remit to:
PO Box 55008
Boston, MA 02205-5008

T 800.426.4262
T 207.774.2112
F 207.774.6635

TD BANK
Electronic Transfer:
⑆211274450⑆ 2427662596⑈

INVOICE

Jim Beck
Executive Director
Cuyama Basin Groundwater Sustainability Agency
c/o Hallmark Group
1901 Royal Oaks Drive, Suite 200
Sacramento, CA 95815

September 19, 2018
Project No: 0011078.01
Invoice No: 154409

Project 0011078.01 CUYAMA GSP

Professional Services for the period ending August 31, 2018

Phase 002 Data Management System, Data Collection and Analysis, and Plan Review

Professional Personnel

	Hours	Rate	Amount	
Geologist 2				
Salberg, Lauren	15.50	182.00	2,821.00	
National Practice Lead				
Melton, Lyndel	.50	315.00	157.50	
Senior Project Manager				
Long, Jeanna	9.00	274.00	2,466.00	
Totals	25.00		5,444.50	
Labor Total				**5,444.50**
		Total this Phase		**$5,444.50**

Phase 003 Description of the Plan Area, Hydraulic Conceptual Model, and Groundwater Conditions

Professional Personnel

	Hours	Rate	Amount	
Geologist 2				
Salberg, Lauren	7.25	182.00	1,319.50	
National Practice Lead				
Melton, Lyndel	3.00	315.00	945.00	
Planner 2				
Eggleton, Charles	10.25	182.00	1,865.50	
Project Manager 2				
Van Lienden, Brian	4.00	258.00	1,032.00	
Totals	24.50		5,162.00	
Labor Total				**5,162.00**

Please include our invoice number in your remittance. Thank you.

Project 0011078.01 CUYAMA GSP Invoice 154409

Total this Phase **$5,162.00**

Phase 004 Basin Model and Water Budget

Professional Personnel

	Hours	Rate	Amount	
Engineer 1				
Zhou, Jingnan	11.00	157.00	1,727.00	
Engineer 2				
Ceyhan, Mahmut	117.50	182.00	21,385.00	
Wicks, Matthew	18.00	182.00	3,276.00	
National Practice Lead				
Melton, Lyndel	8.00	315.00	2,520.00	
Planner 2				
Eggleton, Charles	2.00	182.00	364.00	
Project Manager 2				
Cayar, Mesut	2.00	258.00	516.00	
Van Lienden, Brian	4.00	258.00	1,032.00	
Senior Technical Manager				
Taghavi, Ali	40.00	274.00	10,960.00	
Totals	202.50		41,780.00	
Labor Total				**41,780.00**

Consultant

Subcontractor Expense					
8/24/2018	Davids Engineering, Inc.	Inv#1174.02-3151		4,228.75	
Consultant Total			**1.1 times**	**4,228.75**	**4,651.63**

Total this Phase **$46,431.63**

Phase 005 Establish Basin Sustainability Criteria

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	4.00	315.00	1,260.00	
Planner 1				
Honn, Emily	1.00	157.00	157.00	
Project Manager 2				
Ayres, John	75.00	258.00	19,350.00	
Totals	80.00		20,767.00	
Labor Total				**20,767.00**

Total this Phase **$20,767.00**

Project 0011078.01 CUYAMA GSP Invoice 154409

Phase 006 Monitoring Networks

Professional Personnel

	Hours	Rate	Amount	
Planner 2				
Eggleton, Charles	53.00	182.00	9,646.00	
Project Manager 2				
Ayres, John	27.00	258.00	6,966.00	
Totals	80.00		16,612.00	
Labor Total				**16,612.00**
		Total this Phase		**$16,612.00**

Phase 007 Projects and Actions for Sustainability Goals

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	3.00	315.00	945.00	
Project Manager 2				
Van Lienden, Brian	43.00	258.00	11,094.00	
Senior Project Manager				
Morrow, Robert	1.00	274.00	274.00	
Totals	47.00		12,313.00	
Labor Total				**12,313.00**
		Total this Phase		**$12,313.00**

Phase 010 Outreach, Education and Communication

Professional Personnel

	Hours	Rate	Amount	
Graphic Artist				
Fox, Adam	6.00	115.00	690.00	
Planner 1				
De Anda, Vanessa	6.00	157.00	942.00	
Planner 2				
Eggleton, Charles	34.25	182.00	6,233.50	
Totals	46.25		7,865.50	
Labor Total				**7,865.50**

Consultant

Subcontractor Expense					
8/24/2018	The Catalyst Group, Inc.	Inv#335		9,473.44	
	Consultant Total		**1.1 times**	**9,473.44**	**10,420.78**
			Total this Phase		**$18,286.28**

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Phase 011 Project Management

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	7.00	315.00	2,205.00	
Project Assistant				
Hughart, Desiree	1.50	108.00	162.00	
Project Manager 2				
Van Lienden, Brian	6.00	258.00	1,548.00	
Senior Technical Practice Lead				
Lopezcalva, Enrique	1.50	301.00	451.50	
Totals	16.00		4,366.50	
Labor Total				**4,366.50**

Reimbursable

Vehicle Expenses

7/31/2018	Melton, Lyndel	Lunch Meeting		164.05	
	Reimbursable Total		**1.1 times**	**164.05**	**180.46**
			Total this Phase		**$4,546.96**

Phase 012 GW Monitoring Well Network Expansion (Cat 1 – Task 1)

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	3.50	315.00	1,102.50	
Planner 2				
Eggleton, Charles	90.00	182.00	16,380.00	
Software Engineer 1				
Rutaganira, Thierry	45.00	140.00	6,300.00	
Totals	138.50		23,782.50	
Labor Total				**23,782.50**

Reimbursable

Vehicle Expenses

8/1/2018	AMERICAN EXPRESS	VANLIENDEN/BRIAN J		5.00	
	Reimbursable Total		**1.1 times**	**5.00**	**5.50**
			Total this Phase		**$23,788.00**

Phase 013 Evapotranspiration Evaluation for Cuyama (Cat 1 – Task 2)

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Professional Personnel

		Hours	Rate	Amount	
Project Manager 2					
Van Lienden, Brian		23.00	258.00	5,934.00	
Totals		23.00		5,934.00	
Labor Total					**5,934.00**
Reimbursable					
Vehicle Expenses					
8/1/2018	AMERICAN EXPRESS	VANLIENDEN/BRIAN J		5.00	
Reimbursable Total			**1.1 times**	**5.00**	**5.50**
Consultant					
Subcontractor Expense					
8/24/2018	Land IQ	Inv#2076		30,200.00	
Consultant Total			**1.1 times**	**30,200.00**	**33,220.00**
			Total this Phase		**$39,159.50**

Phase 015 Project Management (Cat 1 – Task 4)

Professional Personnel

	Hours	Rate	Amount	
National Practice Lead				
Melton, Lyndel	4.50	315.00	1,417.50	
Project Manager 2				
Van Lienden, Brian	4.00	258.00	1,032.00	
Totals	8.50		2,449.50	
Labor Total				**2,449.50**
Reimbursable				
Vehicle Expenses			164.05	
Reimbursable Total			**164.05**	**164.05**
		Total this Phase		**$2,613.55**
		Total this Invoice		**$195,124.42**

Outstanding Invoices

Number	Date	Balance
152397	7/19/2018	180,525.65
153619	8/23/2018	135,300.00
Total		**315,825.65**

	Current Fee	Previous Fee	Total
Project Summary	**195,124.42**	**1,000,869.96**	**1,195,994.38**

Approved by:

Brian Van Lienden
Project Manager
Woodard & Curran

Please include our invoice number in your remittance. Thank you.

Progress Report

Cuyama Basin Groundwater Sustainability Plan Development

Subject:	**August 2018 Progress Report**
Prepared for:	Jim Beck, Executive Director, Cuyama Basin Groundwater Sustainability Agency (CBGSA)
Prepared by:	Brian Van Lienden, Woodard & Curran
Reviewed by:	Lyndel Melton, Woodard & Curran
Date:	September 19, 2018
Project No.:	0011078.01

This progress report summarizes the work performed and project status for the period of July 28, 2018 through August 31, 2018 on the Cuyama Basin Groundwater Sustainability Plan Development project. The work associated with this invoice was performed in accordance with our Consulting Services Agreement dated December 6, 2017, and with Task Orders 2 and 3, issued by CBGSA on March 7, 2018 and Task Orders 4 and 5, issued by the CBGSA on June 6, 2018. Note that Task Order 1, issued by CBGSA on December 6, 2017, was 100% spent as of the March 2018 invoice.

The progress report contains the following sections:

1. Work Performed
2. Budget Status
3. Schedule Status
4. Outstanding Issues to be Coordinated

1 Work Performed

A summary of work performed on the project during the current reporting period is provided in Tables 1 and 2 below. Table 1 shows work performed under Task Orders 2 and 4, which include tasks identified in the forthcoming Category 2 grant from the California Department of Water Resources (DWR). Table 2 shows work performed under Task Orders 3 and 5, which includes tasks identified in the forthcoming Category 1 grant from DWR.

Table 1: Summary of Task/Deliverables Status for Category 2 Tasks (Task Orders 2 and 4)

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 1: Initiate Work Plan for GSP and Stakeholder Engagement Strategy Development	• Task 1 is completed; no work was undertaken on this task during this reporting period	• Task 1 is completed; no further work is anticipated
Task 2: Data Management System, Data Collection and Analysis, and Plan Review	• Continued development of data management system (DMS)	• Finalize development of the DMS • Develop quick start user guide for DMS
Task 3: Description of the Plan Area, Hydrogeologic Conceptual Model, and Groundwater Conditions	• Updated Hydrologic Conceptual Model (HCM) GSP section in response to stakeholder comments • Developed and submitted review draft of Groundwater Conditions GSP section	• Update draft Groundwater Conditions GSP section in response to stakeholder comments
Task 4: Basin Model and Water Budget	• Performed calibration on Integrated Water Flow Model (IWFM) of the Cuyama Basin, including initiating work on IWFM Demand Calculator (IDC) • Developed presentation materials for September 5 Public Workshop on Basin modeling	• Present draft historical calibration results at September 5 Workshop • Finalize IWFM historical calibration and develop historical water budget estimates
Task 5: Establish Basin Sustainability Criteria	• Reviewed comments on draft Undesirable Results narrative and sustainability indicators matrix • Developed presentation materials on sustainability in the Cuyama Basin	• Develop draft Sustainability Thresholds GSP section

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 6. Monitoring Networks	• Discussed potential monitoring well locations and areas for potential additions with SAC and CBGSA Board • Began development of draft Monitoring Network GSP section	• Submit draft Monitoring Networks GSP section to SAC and Board for review
Task 7: Projects and Actions for Sustainability Goals	• Identification and refinement of potential projects and actions • Developed presentation materials on projects and actions for September 5 Public Workshop	• Present on options for projects and actions at September 5 Workshop • Continued identification and refinement of potential projects and actions
Task 8. GSP Implementation	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 9. GSP Development	• No work was completed on this task during this reporting period	• No work is anticipated during the next reporting period
Task 10: Education, Outreach and Communication	• Participated in meetings with CBGSA Board, Advisory Committee and local stakeholders	• Continued participation in meetings with CBGSA Board and advisory committee and local stakeholders
Task 11: Project Management	• Ongoing project management activities	• Ongoing project management activities

Table 2: Summary of Task/Deliverables Status for Category 1 Tasks (Task Orders 3 and 5)

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 12: Groundwater Monitoring Well Network Expansion	• Developed summary of existing monitoring wells and data • Development of Monitoring Network data gaps for GSP section	• Discuss with SAC and CBGSA Board existing monitoring well locations and areas where added monitoring may provide value
Task 13: Evapotranspiration Evaluation for Cuyama Basin Region	• Completed development and review of METRIC ET estimates for Cuyama Basin • Integrated of land use and METRIC ET estimates into Cuyama Basin model	• Refinement of land use and METRIC ET estimates in Cuyama Basin model

Task	Work Completed During the Reporting Period	Work Scheduled for Next Period
Task 14: Surface Water Monitoring Program	• Compilation and review of existing and potential surface water monitoring locations within the Cuyama Basin	• Identification of surface water monitoring locations and gaps
Task 15: Category 1 Project Management	• Ongoing project management activities	• Ongoing project management activities

2 Budget Status

Table 3 shows the percent spent for each task under Task Order 1. 100% of the available Task Order 1 budget has been expended ($321,135.00 out of $321,135).

Table 3: Budget Status for Task Order 1

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ 35,768.00	$ 35,755.53	$ -	$ 35,755.53	$ 12.47	100%
2	$ 61,413.00	$ 61,413.00	$ -	$ 61,413.00	$ -	100%
3	$ 45,766.00	$ 45,766.00	$ -	$ 45,766.00	$ -	100%
4	$ 110,724.00	$ 110,724.00	$ -	$ 110,724.00	$ -	100%
5	$ -	$ -	$ -	$ -	$ -	n/a
6	$ -	$ -	$ -	$ -	$ -	n/a
7	$ 12,120.00	$ 12,120.00	$ -	$ 12,120.00	$ -	100%
8	$ -	$ -	$ -	$ -	$ -	n/a
9	$ -	$ -	$ -	$ -	$ -	n/a
10	$ 45,420.00	$ 45,432.47	$ -	$ 45,432.47	$ (12.47)	100%
11	$ 9,924.00	$ 9,924.00	$ -	$ 9,924.00	$ -	100%
Total	**$ 321,135.00**	**$ 321,135.00**	$ -	**$ 321,135.00**	$ -	**100%**

Table 4 shows the percent spent for each task under Task Order 2 as of August 31, 2018. 96% of the available Task Order 2 budget has been expended ($383,377.00 out of $399,469).

Table 4: Budget Status for Task Order 2

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ -	$ -	$ -	$ -	$ -	n/a
2	$ 48,457.00	$ 31,114.00	$ 5,444.50	$ 36,558.50	$ 11,898.50	75%
3	$ 24,182.00	$ 24,182.00	$ -	$ 24,182.00	$ -	100%
4	$ 103,880.00	$ 103,880.00	$ -	$ 103,880.00	$ -	100%
5	$ 60,676.00	$ 60,676.00	$ -	$ 60,676.00	$ -	100%
6	$ 65,256.00	$ 44,410.50	$ 16,612.00	$ 61,022.50	$ 4,233.50	94%
7	$ 36,402.00	$ 34,731.50	$ 1,670.50	$ 36,402.00	$ -	100%
8	$ -	$ -	$ -	$ -	$ -	n/a
9	$ -	$ -	$ -	$ -	$ -	n/a
10	$ 45,420.00	$ 45,420.00	$ -	$ 45,420.00	$ -	100%
11	$ 15,196.00	$ 15,196.00	$ -	$ 15,196.00	$ -	100%
Total	**$ 399,469.00**	**$ 359,610.00**	**$ 23,727.00**	**$ 383,337.00**	**$ 16,132.00**	**96%**

Table 5 shows the percent spent for each task under Task Order 3 as of August 31, 2018. 74% of the available Task Order 3 budget has been expended ($139,325.00 out of $188,238).

Table 5: Budget Status for Task Order 3

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
12	$ 53,244.00	$ 53,244.00	$ -	$ 53,244.00	$ -	100%
13	$ 69,706.00	$ 51,170.01	$ 18,535.99	$ 69,706.00	$ -	100%
14	$ 53,342.00	$ 4,429.00	$ -	$ 4,429.00	$ 48,913.00	8%
15	$ 11,946.00	$ 11,946.00	$ -	$ 11,946.00	$ -	100%
Total	**$ 188,238.00**	**$ 120,789.01**	**$ 18,535.99**	**$ 139,325.00**	**$ 48,913.00**	**74%**

Table 6 shows the percent spent for each task under Task Order 4 as of August 31, 2018. 34% of the available Task Order 4 budget has been expended ($263,066.08 out of $764,396).

Table 6: Budget Status for Task Order 4

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
1	$ -	$ -	$ -	$ -	$ -	n/a
2	$ 24,780.00	$ -	$ -	$ -	$ 24,780.00	n/a
3	$ 26,912.00	$ 21,732.00	$ 5,162.00	$ 26,894.00	$ 18.00	100%
4	$ 280,196.00	$ 92,677.79	$ 46,431.63	$ 139,109.41	$ 141,086.59	50%
5	$ 47,698.00	$ 7,063.57	$ 20,767.00	$ 27,830.57	$ 19,867.43	58%
6	$ -	$ -	$ -	$ -	$ -	n/a
7	$ 117,010.00	$ -	$ 10,642.50	$ 10,642.50	$ 106,367.50	9%
8	$ 69,780.00	$ -	$ -	$ -	$ 69,780.00	n/a
9	$ 91,132.00	$ -	$ -	$ -	$ 91,132.00	n/a
10	$ 70,236.00	$ 29,856.35	$ 18,286.28	$ 48,142.64	$ 22,093.36	69%
11	$ 36,652.00	$ 5,900.00	$ 4,546.96	$ 10,446.96	$ 26,205.04	29%
Total	**$ 764,396.00**	**$ 157,229.71**	**$ 105,836.37**	**$ 263,066.08**	**$ 501,329.92**	**34%**

Table 7 shows the percent spent for each task under Task Order 5 as of August 31, 2018. 19% of the available Task Order 5 budget has been expended ($89,131.31 out of $459,886).

Table 7: Budget Status for Task Order 5

Task	Total Budget	Spent Previously	Spent this Period	Total Spent to Date	Budget Remaining	% Spent to Date
12	$ 196,208.00	$ 35,548.75	$ 23,788.00	$ 59,336.75	$ 136,871.25	30%
13	$ 24,950.00	$ -	$ 20,623.51	$ 20,623.51	$ 4,326.49	83%
14	$ 204,906.00	$ -	$ -	$ -	$ 204,906.00	n/a
15	$ 33,822.00	$ 6,557.50	$ 2,613.55	$ 9,171.05	$ 24,650.95	27%
Total	**$ 459,886.00**	**$ 42,106.25**	**$ 47,025.06**	**$ 89,131.31**	**$ 370,754.69**	**19%**

3 Schedule Status

The project is on schedule. Work authorized under Task Order 1 is complete.

4 Outstanding Issues to be Coordinated

There are no outstanding issues at this time.