



Board of Directors Meeting
January 16, 2020
City Council Chambers, Fillmore City Hall
250 Central Avenue, Fillmore, CA 93015

MINUTES

Directors Present

Director Kelly Long, Chair (arrived at 5:07pm)
Director Ed McFadden, Vice Chair/Secretary/Treasurer
Director Tim Holmgren
Director Gordon Kimball
Director Candice Meneghin
Director Glen Pace

Staff Present

Anthony Emmert, executive director
Scott Nave, legal counsel
Kris Sofley, clerk of the board

Public Present

Katie Brokaw, Fillmore Basin Pumpers Association
Emilio Cervantes, Jr., Five Points
Dan Detmer, UWCD
Steve Howard, Rincon Consultant
Tim Moore, DBS&A
Robert Moraz, Fillmore Basin Pumpers
Tony Morgan, DBS&A
George Reid
Richard Tate, Piru Basin Pumpers Board
Steve Zimmer

1. Call to Order - First Open Session 5:00p.m.

Vice Chair McFadden called the meeting to order at 5p.m.

1A. Pledge of Allegiance

Vice Chair McFadden asked everyone to join him in reciting the Pledge of Allegiance

1B. Directors Roll Call

Clerk of the Board noted that the City of Fillmore had replaced Director Edmonds with Director Tim Holmgren and all Directors except Chair Long were in attendance.

1C. Public Comments

Vice Chair McFadden asked if there were any public comments, none were offered.

1D. Approval of Agenda

Motion

Executive Director Emmert noted that item 4D would be withdrawn from the agenda discussion tonight as the Agency was waiting for comment from the County's legal counsel and that items 4C and 4E, while listed as motion items, were actually informational items.

Motion to approve the agenda as amended, Director Pace; Second, Director Meneghin. Voice vote: five ayes (Holmgren, Kimball, McFadden, Meneghin, Pace); none opposed; one absent (Long). Motion carries 5/0/1.

2. Director Announcements/Board Communications

2A Fillmore Pumpers Association Stakeholder Director Update

Information Item

Director Kimball stated the Fillmore Pumpers Association had met earlier in the week and appreciated the notice of future topics of discussions considered by the Board as it helped the group define areas of interest and gave everyone notice. Based on that discussion, the association would likely have suggestions and comments for the Board going forward.

Director Kimball also noted that the Stakeholder outreach meeting, as noted in the agenda, might benefit from being identified as a workshop, calling attention to discussions and input from the public, which might encourage the public and bolster participation. He added that the term workshop conveyed a back and forth discussion and thought it would be beneficial to identify it as such.

2B Piru Pumpers Association Stakeholder Director Update

Information Item

Director Pace stated that Director Kimball's report covered the Piru Pumpers Association's comments as well.

2C Environmental Stakeholder Director Update

Information Item

Director Meneghin reported that various GSA's directors representing environmental interests were meeting to check in on environmental input in the basins. She mentioned Conner Everts from Mound Basin GSA and Kathy Armitage from Santa Clarita. She said they hoped to do this more regularly and to coordinate across basins on environmental issues.

Director Meneghin also mentioned that she would be attending a water event, Clean Water Fund and Local Government Commission NGO Groundwater Collaborative 2020 on March 31 and April 1 in Sacramento, as she had the preceding year, and learned a

great deal about modeling, and checking on the status of critical overdraft basins, et cetera.

Agency's legal counsel Scott Nave mentioned an oath of office to be administered to Director Holmgren at the February 2020 meeting. Clerk of the Board stated that the Directors did not take an oath of office with the GSA.

2D City of Fillmore Member Director Update

Information Item

Director Holmgren explained that the City of Fillmore's Council met on Tuesday and reviewed the City's representatives to various agencies. Lynn Edmonds asked if she could serve on the Ventura County Energy Alliance, so they traded positions and he is excited to serve on the GSA.

2E United Water Conservation District Member Director Update

Information Item

Vice Chair McFadden reported that UWCD was moving into its new headquarters and jokingly added that its new Boardroom could now hold more than a dozen chairs.

2F County of Ventura Member Director Update

Information Item

Chair Long confirmed her appointment as Chair of the Ventura County Board of Supervisors. She also mentioned Fox Canyon GMA's progress on GSPs for Pleasant Valley Basin, Las Posas Basin and Oxnard and the work of the Integrated Regional Water Management group and Santa Clara River Watershed committee in getting the GSPs done.

2G Executive Director Update

Information Item

Executive Director Emmert reported that, since the previous Board meeting of December 19, 2019, the auditing firm continued to review documents and is expected to have auditing documents for the Board in March, 2020. He said the reformatted invoice which now includes information on the three organization's roles, an example of which was included in the Board packets, would be used for the next billing cycle, anticipated for early March 2020. California Department of Fish and Wildlife's Fish Hatchery had made a partial payment and United staff was following up with them regarding older pumping charges.

Chair Long congratulated Mr. Emmert on his progress and added that she would like to see the Agency's website address included at the bottom of the invoice template, too.

Director Kimball added that he thought the Pumpers Associations should be listed third, with the FPBGSA description being first, followed by UWCD and asked that those changes be made for the next billing cycle.

With regard to the Agency's DWR grant, staff was in the process of preparing for the 2019 fourth quarter progress report and invoice, which was due on February 15, 2020. He added that DWR reimbursements typically take up to six months. He also mentioned that the

Mound Basin GSA had received its first reimbursement check for its report and invoice submitted in August.

Chair Long said the Governor had submitted a \$395 million budget with support for local groundwater efforts. Mr. Emmert said that if the budget is approved, based on the Governor's Water Resiliency Portfolio, which advocates for GSA's, staff would keep an eye out for any grant funding or financial reimbursement programs resulting from that which the Agency could take advantage of and would apply accordingly.

Vice Chair McFadden asked that if DWR reimbursement can take up to six months, can the Agency's cash flow survive. Mr. Emmert said that the grant reports and invoices are a big lift for the DWR, which is trying to staff up to meet demand and he hopes that process of review speeds up.

Mr. Emmert continued, stating that staff continues to follow-up with well owners that are now part of the GSA as a result of the boundary modifications. United staff continue to make progress on the development of the groundwater model, with the synthesis of Hydrologic data completed and the input into the numerical model also completed and now staff is working on calibration of the model. Staff is also developing a method that will provide for water year (October 1 through September 30) reporting as requested by DWR. He added that DBS&A would provide updates on stakeholder engagement and ongoing progress in the development of the GSPs.

2H. Legal Counsel Update

Information Item

Legal Counsel Scott Nave said he had nothing to report.

2I. GSP Consultant Update

Information Item

Tony Morgan, representing DBS&A, provided discussion topics and a schedule for February and March. He introduced DBS&A's new hydrologist Kendra and added that in February, the consultant team would discuss water budgets, monitoring networks and data gaps and that in March, the discussions would be about project and management actions, including an introduction to monitoring protocols, standards and sites, including suggested management criteria, all of the various elements that comprise a GSP. All of this will prepare the Board for the stakeholder meeting, so he added that the Board should review the various Best Management Practices that were included on the flash drives provided at the previous meeting.

3. CONSENT CALENDAR

3A Approval of Minutes

The Board will consider approving the Minutes from the Board Meeting of December 19, 2019.

3B Approval of Warrants

The Board will consider approving the following invoices for payment:

Daniel B Stephens & Associates, Inc.	\$14,790.00
insureCAL Insurance Agency	\$ 2,115.73
County of Ventura IT Services Dept.	\$ 40.00

3C Monthly Financial Report

The Board will receive a monthly profit and loss statement and balance sheet for the FPBGSA from UWCD's accounting staff.

Motion to approve the Consent Calendar, Vice Chair McFadden; Second, Director Pace. Voice vote: Four ayes (Kimball, Long, McFadden, Pace); none opposed; two abstain (Holmgren, Meneghin). Motion carries 4/0/2.

4. ACTION ITEMS

4A Agency Decision-Making Process – Communication and Engagement Work Plan Task 4

Motion

Lisa Ballin, consultant with CSUS – CCE addressed the Board, stating that these were the last two items that, once approved, would complete the Board Communication and Engagement plan and that, thanks to the work of the ad hoc committee and the Board, good progress was being made. She explained that one component of the Work plan asked for a draft response to a set of regulations and the agency's process for decision making and the use of public input. She said these should be available to the public for review, should be reiterated before meetings and should be part of the administrative record.

Chair Long asked if the Board had any modifications or needed any discussion on the item. She added that the ad hoc committee reviewed the elements and wanted to make sure that if the Board had any comments, they were incorporated in the plan.

Director Kimball said he discussed this with the Pumpers. He said that operationally and administratively, the minutes serve to document the meetings and could also be used for other meetings, including stakeholder workshops.

Ms. Ballin said the agency should take all comments and memorialize them for Board decision making. Vice Chair McFadden added that would also document that the public weighed in on the discussion. Director Kimball said the administrative record seemed redundant as the agency posts everything, every document, except detailed financials on its website. Ms. Ballin said the administrative record is broader than the website. Director Kimball said that the agency works in total transparency. Chair Long said this effort

assumes legal action, email tracking, public records request for emails. Vice Chair McFadden said it was focused on stakeholder feedback and comments. Director Kimball suggested that stakeholder feedback and comments could be prepared and posted on the website. Ms. Ballin said that Task 4 covers the public input and feedback to the Board. Chair Long asked if there were any other questions; none were offered. She then asked for a motion.

Motion to approve the proposed process for decision making as recommended by the Stakeholder Engagement Ad Hoc Committee, Director Meneghin; Second, Director McFadden. Voice vote: six ayes (Holmgren, Kimball, Long, McFadden, Meneghin, Pace); none opposed. Motion carries unanimously 6/0.

4B Outreach and Communication Strategies and Methods - Communication and Engagement Work Plan Task 5

Motion

Ms. Ballin introduced Task 5, saying that it was the meat of the Communication and Engagement plan and presents thorough ways to do outreach and identifies the roles of the full Board. She said the process included collecting what information the agency already had and supplementing that with information provided by the Ad Hoc committee, but the goal was to expand that to the full Board for input. Under section three, there is GSA outreach, which is the agency as a whole; Board member outreach, which lists contributions from the individual directors and communicating with other agencies. She added that it may seem like overkill, but it has been their experience that the more you document the more defensible the GSPs, especially requiring public notice, compiling email lists, stakeholder lists, sending emails to announce meetings, including notices in other mailings such as bills when you do not have an email address for a stakeholder, using social media, websites, advertising in print media and sending out press releases to secure media coverage.

Chair Long added that it's a list of different ways to outreach, mandating that every single one of these is required is setting the Agency up for failure. Ms. Ballin said it was more a list of intentions and if the Board doesn't intend to utilize a method or source, then it should be removed. Chair Long said there should be some leeway as the expectations are a little gray on this. Vice Chair McFadden said it is the GSA outreach goals, to which Chair Long replied that legally there should be better wording to convey that these are suggestions and that the agency isn't necessarily committing to everything on the list. Ms. Ballin said it was a living document, expected to grow and change and doesn't commit the agency to each task, but rather are ideas for the Board to think about and adjust accordingly. Chair Long said she just wants to make sure that the flexibility is implied. Ms. Ballin said yes, that the agency doesn't want to over promise, and could back it down a bit and then choose to do more as appropriate.

Director Kimball said that the Ventura County Star isn't appropriate as it serves the entire county, whereas Fillmore Gazette and Santa Paula Times are local papers. He is concerned about confusing people by using some of these larger media outlets that serve a larger

constituency than that of the GSA. Mr. Morgan stated that some of the GSA stakeholders may live outside of the basin boundary; and Director Meneghin mentioned that Santa Clara to the north impacts the Fillmore and Piru basins and there should be an exchange of inter-basin information. Chair Long mentioned Citizens Journal, an online newsletter and the newsletters of other agencies, associations and organizations. Suggested local radio stations like KCLU, Lance Orozco is the news director and covers many water issues throughout the county. Community service television Channel 10, and KVTA am local news radio were also suggested.

Ms. Ballin suggested the Board keep it broad and if there is anything else or other suggestions, the Board could send them to the Clerk of the Board who will forward them to her.

Ms. Ballin moved on to meeting venues and asked the Board if there were any other suggestions or if she had missed any facilities. Director Kimball said the Fillmore City Council Chamber isn't conducive to stakeholder meetings due to its formality, and he liked the way the agency did its stakeholder meeting at the Veterans Memorial Building. Ms. Ballin said it was good to differentiate Board meetings from workshops and that workshops should be short presentations with lots of questions and answers and also suggested doing webcasts or live streams of the workshops as a means of reaching more stakeholders.

Vice Chair McFadden said he liked the idea of putting flyers in bills and other mailings.

Ms. Ballin asked about Board member outreach. Chair Long could do county wide outreach through the Board of Supervisors and Santa Clara River Watershed Committee; and Vice Chair McFadden could address constituents through the United Water Conservation District's meetings and events; Director Holmgren had the Fillmore City Council meetings and other agencies he may be involved with; Director Kimball could focus on outreach in Fillmore and through the pumpers associations and Limoneira company meetings; Director Meneghin was involved with a number of environmental groups and the Friends of the Santa Clara River meetings; and Director Pace could do outreach in Piru. The key, said Ms. Ballin is that you do outreach through trusted agencies and organizations. Director Kimball didn't like the use of the word trusted and suggested to simply state other agencies and organizations. Ms. Ballin suggested using Limoneira's newsletter to reach stakeholders, but Director Kimball asked that, as a public company with international operations, would it be appropriate, so Ms. Ballin said she'd remove that from the list of possible sources. Director Kimball said that the Santa Paula Basin pumpers association doesn't have a newsletter or a website. Vice Chair McFadden echoed that with the Avocado Commission, a state wide agency, which would be too broad. He did say the Farm Bureau would be a good source. Chair Long said that if the Board has other suggestions to send them to the Clerk of the Board and she will update Ms. Ballin.

Mr. Nave suggested using "discretionary plan" to allow for flexibility and Ms. Ballin said she would have him review the draft.

Motion to approve the proposed outreach and communication strategies and methods to employ during the groundwater sustainability planning process, with amendments, Director Kimball; Second, Director McFadden. Voice vote: six ayes (Holmgren, Kimball, Long, McFadden, Meneghin, Pace); none opposed. Motion carries unanimously 6/0.

4C Sampling and Analysis Plan

Motion

[As noted at the beginning of the Board meeting, item 4C is an information item, no action is requested by the Board.]

Tim Moore of DBS&A presented a powerpoint describing a Sampling and Analysis Plan (SAP) for both the Fillmore and Piru basins (see attached presentation). He said the SAP will be an appendix to the GSPs and tasked the Board with reading the Best Management Practices #1 to fully understand how they would compile the SAP in accordance with SGMA as well as code regulations and a number of other documents considered in developing the GSPs. He said the plan solidifies standards and methods for sample collection including groundwater level measurement protocols, water quality assurance and quality control. It does not impose specific schedules. He said the next steps include a draft document that DBS&A will review both internally and with UWCD staff and that the plan will be included in both Basins' GSPs.

Chair Long asked if the Board would review the plan in advance, and Mr. Moore said the document does not need to be approved as a stand-alone document, but rather as part of the GSP. Mr. Moore said that there are already existing monitoring wells in the basins described in FPBGSA sampling and analysis plan for collecting data. Director Meneghin asked for the reasoning for having the Board wait for the GSP to review the document as she would like to review the draft before the Board reaches the end of the process. Mr. Moore asked for Mr. Morgan's input. Mr. Morgan said the plan is exceedingly dry with lots of analytical data and there is an administrative draft and then a public review draft, with a final draft ready by December 2021. Director Pace asked if UWCD staff review the document and if the hired consultants were in align with UWCD staff, as he wanted to make sure the data was consistent. Mr. Moore said DBS&A was working with UWCD and had a good handle on things. Director Pace said he wanted to make sure of the accuracy in a timely manner in case changes have to be made to what is being done, stating that it costs money to change procedures. Mr. Morgan said that's why UWCD reviews and that the two teams are pulling elements from each other. Chair Long added that alignment with UWCD is necessary. Director McFadden said historical water levels in the basin so that whatever was done still counts. Director Kimball questioned the measuring accuracy (1/10 required; 1/100 is what DBS&A is doing) and asked if the agency was going to have trouble measuring to that level of accuracy. Mr. Moore said that there are different monitoring networks within UWCD and Ventura County that overlap between basins. Director Kimball asked if a tenth of a foot was relevant and Vice Chair McFadden added that

whatever DWR calls for. Mr. Moore said the survey of the reference point is half a foot. Director Kimball said he didn't want to spend more money for 1/10 foot.

4D Bylaws Update

Motion

[As noted at the beginning of the Board meeting, this item was withdrawn pending review and response from Ventura County legal counsel].

4E Projects and Management Actions

Motion

[As noted at the beginning of the Board meeting, item 4C is an information item, no action is requested by the Board.]

Mr. Morgan of DBS&A told the Board this was a brainstorming exercise aimed at getting a laundry list of considerations or projects that could have measurable objectives and help in reaching the goal of sustainability. swill receive a report, discuss, and provide feedback regarding potential projects and management actions that may be considered during the groundwater sustainability planning process.

Mr. Morgan suggested the Board think about water levels and where they would like them to end up after 20 years. He asked them to think about when the agency is going to implement objectives, do they want to stagger the rollout, should there be an implementation schedule; what events or triggers should be incorporated into the process; what does significant stakeholder engagement look about; talk about the goals and actions need to achieve sustainability by 2042. How will the agency optimize sustainable yield and minimize impacts to stakeholders or beneficial users; what climate change conditions need to be considered. What about other potential sources for water, conservation releases from the Santa Felicia Dam; IRWMP or UWMP. Chair Long said the consideration of project above the basin and how that will impact the Fillmore and Piru basins, and water markets. Mr. Morgan continued to through out ideas like management action and regulatory authority, defining management areas with different sustainability criteria, such as shallow well areas or higher elevations. Think about the east end of the basin where chloride is coming in from Santa Clarita. Management areas can be established to address the different conditions to tailor sustainability actions to those local conditions. It may not be adequate to just limit use. Who leads which projects, are others involved, where and when do projects get implemented – some immediately, others five or 10 years down the road? What are the permit requirements, summaries of the various projects, estimating costs and funding mechanisms, and how all of that fiscally impacts rates.

Director Meneghin added the public funding analysis of impact or disadvantage communities. She mentioned that state funded programs or activities cannot deny access to benefits or discriminate against specific populations and that state law states that the benefits and burdens (cost) of proposed project on minority populatoins have to be disclosed. As such, Director Meneghin said the Agency should be doing a cost benefit analysis of all projects, as not to negatively impact DACs.

Mr. Morgan said CEQA may be included or is the project exempt from CEQA when its being planned, but not exempt when it's being implemented. Weighing potential benefits against undesirable impacts. Director Meneghin said cost benefits as well, as the ultimate goal is to optimize yield as some projects may cost the same but the yield of those projects is very different.

Mr. Morgan said the low hanging fruit or low cost projects first, then bigger high risk, high end projects. DWR is willing to take general numbers. Director McFadden asked how the Board can discuss potential projects when they don't even know what they need at this point. Mr. Morgan said we know we like Article 21 water, so we can build a war chest for that, we're not making any decisions, we're just making a list of considerations. Chair Long said two wells for monitoring, for example. Mr. Morgan asked how does that help the basin, and said he'd call it a data gap project.

Chair Long said Table A and Article 21 water purchases, Arundo removal because it saves water if you remove it. Director Pace said projects doesn't have to mean construction and that maybe a plan to reduce pumping, such as at a certain threshold, everybody cuts back to X percent. Director Kimball added or management action. Director Pace said, but we don't know what the goals are. Director Kimball said according to SMGA, all basins are overdrafted and that's not sustainable management.

Director McFadden asked what impacts the basin and Chair Long responded chlorides. Mr. Morgan said decreases in wastewater from upstream could be a positive impact on the basins, but Vice Chair McFadden asked if the decrease in inflow would negatively impact sustainability. Director Kimball asked about water quality, saying if you reduced chloride being introduced to the basins, how it comes out, nobody knows.

Director Pace suggested the Board focus on things they have control over. Director Meneghin suggested that while the Piru stormwater recapture project is good, for the cost, there may be alternative projects that yield more water saving for less of a cost. She again stressed that this type of analysis needs to be considered in project selection.

Vice Chair McFadden said how do we know we need it? Director Meneghin said she agreed that this is putting the cart before the horse. Mr. Morgan said it stimulates thinking. Chair Long said stormwater capture could recharge basins. Mr. Morgan asked if 20 AF per year moves the needle? It may be good to do, but does it move the needle.

Vice Chair McFadden said he liked discussing concepts but if we don't know what we need to do, having this discussion in absence of modelling, what information does the Board need to make Article 21 purchases and do we anticipate that water being available. Chair Long said she didn't want to put more cost associated with the GSP and wants to make sure that the Board is being fiscally responsible.

Director Kimball said we know chloride is a problem in Piru basin and groundwater in both basins while plentiful, isn't particularly high quality, so he is interested in addressing the quality of the water, too. Director Meneghin said she'd like the Board to consider incentivizing water conservancy. Chair Long said you could change crops. Mr. Morgan echoed incentivize reduced use, ag technology improvements, like drip systems, and pump

efficiencies and also low flow toilets, which can reduce household water use, it all has an impact.

Mr. Morgan said his objective was to get the Board thinking and this type of exercise is good at workshops to get all of the ideas out in the room and then the Board can come back with areas of interest and prepare GSP analysis of what ideas are most beneficial.

4F Stakeholder Engagement Workshop #1

Motion

Ms. Ballin explained to the Board that the ad hoc committee had suggested the Agency's first Stakeholder Engagement Workshop take place the last week of March, the week of March 30 and staff was checking on available venues. Director Meneghin said she thought it was April 2 and Vice Chair McFadden added at the Veterans' Memorial building in Fillmore. Director Kimball said it was a larger room, but access could be difficult. Director Holmgren asked what time were they thinking for the meeting and Ms. Ballin replied 6pm. Chair Long added 6 to 8pm.

[This was a discussion item and the Board took no action]

5. INFORMATION ITEMS

5A Preparation of Frequently Asked Questions (FAQ)

Ms. Ballin asked the Board to think about the questions they are asked most frequently by constituents as the Stakeholder Engagement Ad Hoc Committee would like to prepare a list of Frequently Asked Questions (FAQ) to post on the Agency's website (and perhaps to provide as a handout at stakeholder meetings). Chair Long said why, how much, what are you doing. Ms. Ballin said she'd like input from each Board member regarding questions they are hearing from their constituents and then together we'll develop answers, which can also be used as talking points at meetings. Director Kimball said he thought it was a good idea, especially to include them on the website and as a handout at meetings. Vice Chair McFadden asked the board members to email questions to the Clerk of the Board by January 22.

6. FUTURE TOPICS FOR BOARD DISCUSSION

Oath of Office, Bylaws by Resolution (suggested by Scott Nave); Workshop outline for April 2

ADJOURNMENT 7:01 p.m.

The Board will adjourn to the next **Regular Board Meeting** on Thursday, **February 20, 2020** or call of the Chair.

Fillmore and Piru Basins Groundwater Sustainability Agency
Board of Directors Meeting MINUTES
January 16, 2020
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I certify that the above is a true and correct copy of the minutes of the Fillmore and Piru Basins Groundwater Sustainability Agency's Board of Directors meeting of January 16, 2020.

ATTEST: 
Kelly Long, Chair, FPB GSA Board of Directors

ATTEST: 
Kris Sofley, Clerk of the Board



BOARD MEETING & PUBLIC HEARING

January 16, 2020 @ 5:00pm

City Council Chambers, Fillmore City Hall

250 Central Avenue, Fillmore, CA 93015

Name: Steve Zimmer
Organization: _____
Phone: _____
E-mail: _____

Name: Ken Palmer
Organization: WUCD
Phone: _____
E-mail: _____

Name: Emilio Cervantes Jr.
Organization: FivePoint NCF
Phone: _____
E-mail: _____

Name: Tony Moran
Organization: IRSEA
Phone: _____
E-mail: _____

Name: Katie Brokaw
Organization: Fillmore Basin Pumpers Assoc
Phone: _____
E-mail: _____

Name: Bob's Moran
Organization: Fillmore Basin Pumpers Assoc
Phone: 805 231 4085
E-mail: FARMORBOB@EARTHLINK.NET

Name: Steve Howard
Organization: Rincon Consultants
Phone: _____
E-mail: _____

Name: RICHARD TATE
Organization: PIRU BASIN PUMPERS BOARD
Phone: 805-405-7457
E-mail: nick@rjtce.com

Name: _____
Organization: _____
Phone: _____
E-mail: _____

Name: George Reid
Organization: _____
Phone: _____
E-mail: _____

Reference / Background Materials - Feb 2020

- **BMP Monitoring Protocols, Standards, and Sites**

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-1-Monitoring-Protocols-Standards-and-Sites_ay_19.pdf

- **BMP Monitoring Networks and Identification of Data Gaps**

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-2-Monitoring-Networks-and-Identification-of-Data-Gaps_ay_19.pdf

- **BMP Water Budget**

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-4-Water-Budget_ay_19.pdf

- **CCR § 354.18. Water Budget**

[https://govt.westlaw.com/calregs/Document/I86E380AB2D89470B951D8393BE80E831?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Document/I86E380AB2D89470B951D8393BE80E831?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default))

- **CCR Subarticle 4 Monitoring Networks**

[https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IC58F6BE872154C56858CD2E882B7AE6E&originationContext=documenttoc&transitionType=Default&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IC58F6BE872154C56858CD2E882B7AE6E&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))

GSP Update

- Board Discussion Topics / Schedule
- Communication & Engagement Plan (CEP) - Agenda Items 4A, B, & F
- Sampling and Analysis Plan (SAP) - Agenda Item 4C
- Projects and Management Actions - Agenda Item 4E



DBS&A
Daniel B. Stephens & Associates, Inc.

Board Discussion Topics / Schedule

	Topic 1	Topic 2	Topic 3
Jan-2020	C&E Plan, cont'd	Sampling & Analysis Plan (SAP)	Intro to Projects & Management Actions
Feb-2020	Water budget (historical data) (UWCD)	Monitoring Networks & Plan	Data Gaps
Mar-2020	Projects & Management Actions, cont'd	Intro to Sustainable Management Criteria	

- Proposed technical topics for discussion at Board meetings
- Introduction to important elements in the GSP
- References to suggested reading materials (e.g., DWR Best Management Practices or Guidance Documents) - resources on flash drive



Reference / Background Materials

Feb
2020

- *BMP Water Budget*
- *BMP Monitoring Networks and Identification of Data Gaps*
- *BMP Monitoring Protocols Standards and Sites*
- *CCR § 354.18. Water Budget*
- *CCR Subarticle 4 Monitoring Networks*



DBS&A
Daniel B. Stephens & Associates, Inc.

Reference / Background Materials - Feb 2020

- **BMP Monitoring Protocols, Standards, and Sites**

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-1-Monitoring-Protocols-Standards-and-Sites_ay_19.pdf

- **BMP Monitoring Networks and Identification of Data Gaps**

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-2-Monitoring-Networks-and-Identification-of-Data-Gaps_ay_19.pdf

- **BMP Water Budget**

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-4-Water-Budget_ay_19.pdf

- **CCR § 354.18. Water Budget**

[https://govt.westlaw.com/calregs/Document/I86E380AB2D89470B951D8393BE80E831?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Document/I86E380AB2D89470B951D8393BE80E831?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default))

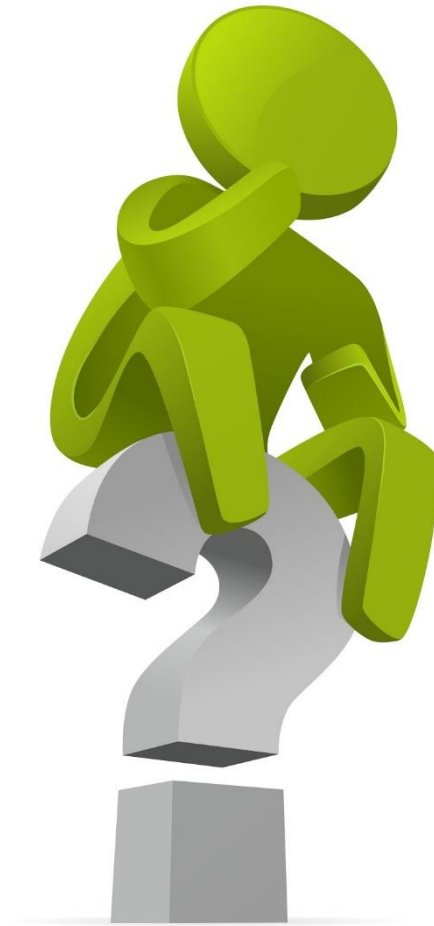
- **CCR Subarticle 4 Monitoring Networks**

[https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IC58F6BE872154C56858CD2E882B7AE6E&originationContext=documenttoc&transitionType=Default&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Browse/Home/California/CaliforniaCodeofRegulations?guid=IC58F6BE872154C56858CD2E882B7AE6E&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))



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Questions ?



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Projects and Management Actions



from the GSP Emergency Regulations...

(1) A **list of projects and management actions** proposed in the Plan with a description of the **measurable objective that is expected to benefit from the project or management action**. The list shall include projects and management actions that may be utilized to meet interim milestones, the exceedance of minimum thresholds, or where undesirable results have occurred or are imminent. The Plan shall include the following:

(A) A description of the **circumstances under which projects or management actions shall be implemented**, the **criteria that would trigger implementation and termination of projects or management actions**, and the process by which the Agency shall determine that conditions requiring the implementation of particular projects or management actions have occurred.

(B) The process by which the Agency shall **provide notice to the public and other agencies** that the implementation of projects or management actions is being considered or has been implemented, including a description of the actions to be taken.



Projects and Management Actions

- **CCR Subarticle 5 Projects and Management Actions (Emergency Regulations)**

What projects or management actions are needed to achieve sustainability by 2042?

*** Goals**

- Optimize sustainable yield *
- Minimize impacts to stakeholders or beneficial uses or users due to changing future conditions *

Include existing and/or new projects

- *Example:* UWCD conservation release from Santa Felicia Dam
- *Example:* projects included in UWMP or IRWMP
- *Example:* projects proposed by FPBGSA or others



Projects and Management Actions

- ❑ What management actions are available to Board to help achieve sustainability by 2042?

Examples:

- Control GW extractions - quantity (AF/yr)
- Control GW pumping locations - where can pumping occur / well spacing
- Define management areas with different sustainability management criteria



Project Description Components



- ✓ Project champion (project proponent entity)
- ✓ Partnering agencies or organizations (entities in adjacent basins?)
- ✓ Implementation timeline
- ✓ Regulatory hurdles (permits required?)
- ✓ Written summary of the project or management action
- ✓ Estimated cost and funding mechanisms and/or fiscal impact to the basins
- ✓ Potential undesirable impacts avoided
- ✓ Potential benefits to the basins



Questions ?



Potential Projects - *Examples*

- UWCD conservation releases from Santa Felicia Dam or Castaic Lake
- Reduction in waste-water effluent discharged to Santa Clara River from Santa Clarita area
- Purchase supplemental State Water (Article 21)
- ASAPP - Alternative Supply Assurance Pipeline Project
- “Conservation” - e.g., incentivize reduction in household or irrigation use
- Storm water capture - e.g., Piru development routing storm water to UWCD spreading grounds
- Arundo removal along Santa Clara River



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4C - Sampling and Analysis Plan (SAP) *Summary and Progress Report*

Fillmore and Piru Basins Groundwater Sustainability Agency

January 16, 2020



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Aerial image by John Carman on 2/2/2019.
Sespe Creek at high storm stage in Fillmore
basin looking obliquely south.

Reference / Background Materials

- | | |
|-------------|--|
| Jan
2020 | <ul style="list-style-type: none">• BMP #1 - <i>Monitoring Protocols, Standards, and Sites</i>• CCR Subarticle 5 <i>Projects and Management Actions (Emergency Regulations)</i> |
|-------------|--|

DWR BMP #1 Monitoring Protocols, Standards, and Sites:

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-1-Monitoring-Protocols-Standards-and-Sites_ay_19.pdf

DRAFT SAP prepared to satisfy criteria of 23 CCR:

- § 352.2 - Monitoring Protocols
- § 352.4 - Data and Reporting Standards
- § 352.6 - Data Management System



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California Department of Water Resources
Sustainable Groundwater Management Program

December 2016

Best Management Practices for the Sustainable Management of Groundwater

Monitoring Protocols, Standards, and Sites

BMP

United States Environmental Protection Agency
Office of Environmental Information
Washington, DC 20460

EPA/240/B-01/003
March 2001

EPA Requirements for Quality Assurance Project Plans

EPA QA/R-5

USGS
science for a changing world

Office of Groundwater

Groundwater Technical Procedures of the U.S. Geological Survey

USGS
science for a changing world

Preparations for Water Sampling

Chapter 1 of Section A, National Field Manual for the Collection of Water-Quality Data
Book 9, Handbooks for Water-Resources Investigations

Techniques and Methods 9-A1
Supersedes USGS Techniques of Water-Resources Investigations, Book 9, Chapter A1, Version 2.0

U.S. Department of the Interior
U.S. Geological Survey

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SAP Purpose

Establish SGMA Compliant Monitoring Protocols and Standard Methods for:

- Water sample collection procedures (GW & SW)
- Analytical sample analysis methods
- Groundwater level measurement protocol
- Data QA/QC procedures.



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SAP does NOT do the following...

- Define which wells are monitored for WLs or quality
- Define what streams are monitored for flow rate or quality
- Define the monitoring frequency
- Define the laboratory analytical program

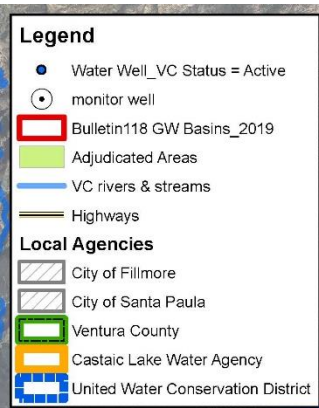
Where are these elements defined?

➔ Monitoring Program / Data Gap Analysis



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Existing Long-Standing Moni. Networks

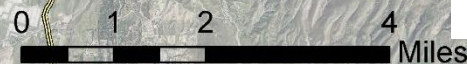


The SAP is not intend to impose specific schedules or monitoring wells and/or sampling locations on UWCD or VCWPD.

Many of the field techniques and procedures presented in the SAP UWCD and VCWPD may already have in place.

Santa Paula Basin (4-4.04)

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SAP Next Steps

- DBS&A Internal Review
- UWCD Review
- SAP will be included as an Appendix in the GSPs (the SAP covers both basins)



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Monitoring Program / Data Gap Analysis Tech Memo

- Description of available WL and WQ data;
- The two long-term WL and WQ monitoring networks operated by UWCD and VCWPD;
- A trends analysis of WL and WQ constituents; and
- Recommendations on how refinement and expansion of the existing monitoring programs might minimize or eliminate data gaps, especially in critical areas.



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Relationship of Monitoring Protocols To Other BMPs

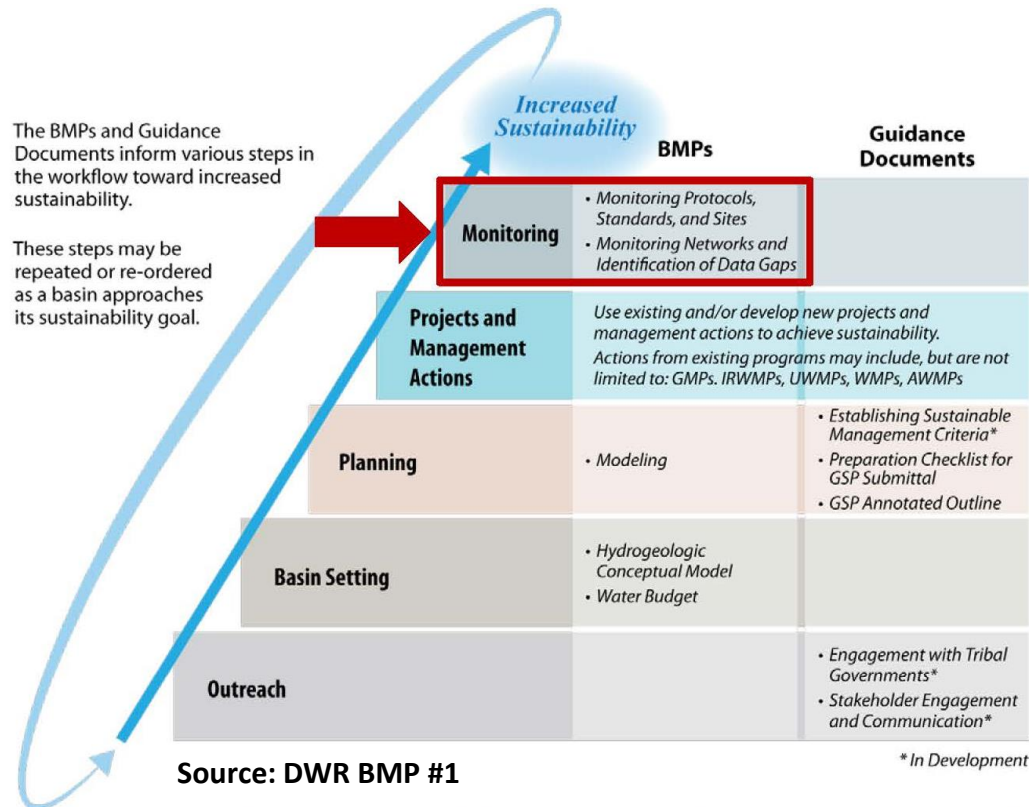


Figure 1 – Logical Progression of Basin Activities Needed to Increase Basin Sustainability



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