

Mid-Kaweah Groundwater Sustainability Agency

Advisory Committee Special Meeting

October 15, 2019 - 3:00 pm

City of Visalia Wastewater Treatment Plant – 7579 Ave 288 Visalia, CA

- 1. Call to Order
- 2. Public Comments
- 3. Approval of Minutes Regular Meeting on September 3 and Special Meeting on October 4, 2019
- 4. Draft GSP Comments
 - a. Incorporation of Admin. Comments
 - b. GSA Board Comments
 - c. Comment Grouping Matrix
 - i. Staff Implementation/Editorial
 - ii. Manager Review
 - iii. Advisory Committee/Technical
 - iv. Drafting Assignments by GSP Section Authorship
- 5. Committee Member Reports, Updates or Other Items of Interest
- 6. Adjourn: Next Meetings: Special October 29, 2019; Regular November 5th

MID-KAWEAH GROUNDWATER SUSTAINABILITY AGENCY ADVISORY COMMITTEE MEETING

MINUTES

October 4, 2019 – 3:00 p.m. City of Visalia Wastewater Treatment Plant 7579 Ave 288 – Visalia, CA

MEMBERS PRESENT: Richard Garcia, Ed Henry, Blake Wilbur, Mike Lane, Eric Furtado,

James Nichols

MEMBERS ABSENT: Soapy Mulholland, Jessi Snyder, Lee Johnson, Mark Boyes

BOARD MEMBERS PRESENT: None

GSA MEMBER STAFF PRESENT: Paul Hendrix (GSA Manager), Aaron Fukuda, Trisha Whitfield,

Jeremy Barroll, Craig Moyle (Stantec)

PUBLIC ATTENDEES: Wayne Scott, Mike Wiley, Liesbet Olaerts, Tamara Kelly, Michael Tharpe

1. CALL TO REGULAR ORDER

The meeting was opened by Chairman Wilbur at 3:05 p.m. Self-introductions of the Committee members, GSA member staff and general public were made.

2. PUBLIC COMMENT

No comments from any members of the public were provided.

PUBLIC DRAFT GSP – REVIEW OF COMMENTS

P. Hendrix first discussed the ensuing process to consider comments and seek a Committee recommendation for their incorporation into the draft GSP. He brought up the need for one or two more Committee meetings in October, legal input and future work by GEI. J. Barroll next summarized his categorization of the comments submitted by topic. C. Moyle further elaborated on the comment groupings, noting that the specific DWR Regulation applicable to each would be identified. He also pointed out that comments applicable to Kaweah Subbasin issues would also be identified.

Two comment topics receiving considerable Committee and public attendee discussion were interconnected surface waters and water quality/access by small-system and domestic well owners. At the conclusion of Committee discussion, Mr. Moyle summarized the input, and it was agreed that all comments would be grouped into one of three headings – technical, editorial, and policy-related.

4. P. Hendrix summarized GSA Member processes in reviewing/critiquing the draft GSP as it was being3written, making note of Visalia's consultant serving on the Technical Sub-Committee and Tulare ID's use of a consultant in reviewing the draft GSP. A. Fukuda then commenced to summarize his agency's review and pending discussion with GSA staff and GEI as to recommended modifications. He indicated that any such modifications would be brought before the Committee in its deliberations over GSP content.

P. Hendrix stated that no substantive comments have been submitted thus far on the draft GSP.
He added that Tulare County may be submitting some comments soon, and that their consultant's
review of the Plan called attention to its description of county and city general plans and water
rights issues.

- 5. CONSIDERATION/INCORPORATION OF COMMENTS AND PROCESS Matter adequately addressed under agenda item 3.
- 6. COMMITTEE MEMBER REPORTS, UPDATES
 M. Lane noted that he has been asked to provide a GSP overview presentation to the Consulting
 Engineers and Land Surveyors of CA (CELSOC) and to the Visalia Lions Club in the near future.

7. ADJOURN

Chair Wilbur sought input on dates for the 3next special meetings of the Committee, and it was concluded that such would be held at 3:00 pm on October 15th and 29th. There being no other matters to come before the Committee, Mr. Wilbur adjourned the meeting at 3:00 p.m.

	Advisory Committee Chair
Attest:	
GSA Board Secretary	



Mid-Kaweah GSA

Board of Directors Meeting 10.8.19





Regulatory Requirements

§ 355.4. Criteria for Plan Evaluation (b)

- Does the Plan satisfy the requirements of Subsection (a) to determine whether the Plan, either individually or in coordination with other Plans, complies with the Act and substantially complies with the requirements of this Subchapter.
- Substantial compliance means:
 - Supporting information is sufficiently detailed and the analyses sufficiently thorough and reasonable
 - The Department determines that any discrepancy would not materially affect the ability of the Agency to achieve the sustainability goal for the basin, or the ability of the Department to evaluate the likelihood of the Plan to attain that goal.

Regulatory Requirements

§ 355.4.(b)(10)

Whether the Agency has adequately responded to comments that raise credible technical or policy issues with the Plan.



Public Comment Organization

- 12 comment letters, totaling 181 pages, received between the July 31 and Sept. 16 public comment period:
 - Bill Huott, 8/10/19
 - Kevin Layne, 8/13/19
 - Edward Henry, 9/3/19
 - The Nature Conservancy, 9/9/19
 - California Department of Fish and Wildlife, 9/12/19
 - Westchester Group, 9/13/19
 - California Water Service, 9/16/19
 - Richard Garcia, 9/16/19
 - Kings County Water District, 9/16/19
 - Leadership Counsel for Justice and Accountability, 9/16/19
 - Self-Help Enterprises, 9/16/19
 - Various Non-Profit Organizations, 9/16/19

(TNC, Community Water Center, Audubon Society, Local Government Commission, Union of Concerned Scientists, Clean Water Action)

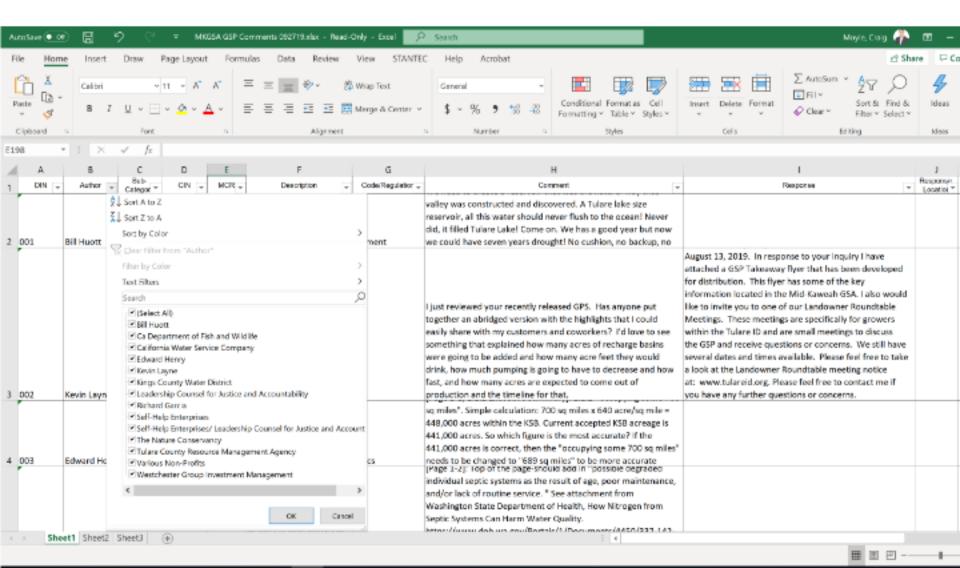
Public Comment Summary

- Summary of Public Comments to included as an appendix to the GSP.
- Appendix will include:
 - Overview of public comment period and methods to comment
 - Overview of the comment categories and the process to respond to comments.
 - Comment matrix including each individual comment, the response to comment, and the location where – if applicable – the GSP was amended.
 - Copies of each comment submitted during the public comment period.

Public Comment Database

- Applied detailed comment/response process similar to studies developed consistent with the California Environmental Quality Act and the National Environmental Policy Act
 - Categorization of individual comment
 - Match comment to appropriate GSP section(s)
 - Record response to comment
- Initial categorization completed by Tulare Irrigation District
 - Currently 197 individual comments

Comment Database



Database Categorization

20 Categories, including

- Disadvantaged Communities
- General, Document Organization
- Groundwater Dependent Ecosystems
- Groundwater Levels and storage
- Hydrogeologic Modeling Water Quality

- Interconnected Surface Water
- Management Areas
- Municipal Land and Water Use
- Pumping Allocations
- Public Outreach
- Water Allocation
- Water Budget

Next Steps

- MKGSA Advisory Committee Special Meetings
 - Review and Assess Comment Categories
 - Provide advice to Board of Directors on substantive technical and policy issues.
- Time and Date:
 - 3-5 p.m., Oct. 15, 2019
 - 3-5 p.m., Oct. 29, 2019
- Location:
 - Visalia Wastewater Treatment Plant, 7579 Avenue 288, Visalia.

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							At the bottom of the page, " Communication & Engagement (C&E) Plan, developed by Stantec for		
							MKGSA and adopted on August 14, 2018 and included as Appendix 1C." The posted document in Appendix IC has a date of August 7, 2018, Draft: Version 4, rather than the August 14t date cited in the		
							above quoted text. There should or must be a later version to reflect the noted date of August 14,		
							2018, as the database of the August 7, 2018 document is definitely not up-to-date. The last entry in that database of August 7, 2018, is the Waksache Tribe. Also it's probably too late for this		
							version of the MKGSA GSP draft, but in the future it would be very helpful when a Figure, Table,		
							Appendix, etc. is referenced that one could move the cursor to that item and click on it and it would take you directly to that item. Right now, one has to get out of a document and search in the Table of		
							Contents in order to go to the referenced item(s) Also the last sentence of the last paragraph. "All outreach efforts and engagement activities were tracked in a Community Engagement and Activities		
							Database (CE & AD) that was continuously monitored and updated, consistent with DWR Emergency		
003	Edward Henry	OR	EH-006		1	Public Outreach/GSP Organization	Regulations §354.10 (b) and §354.10 (d)." As noted above, the Communications and Engagement Activities Database is not up-to-date.	CM	
	,						Municipal and Industrial Well Operators: "The City of Tulare and the City of Visalia account for about 20		
							and 30 percent of the land area within the MKGSA, respectively." More accurately, Tulare's land area within the MKGSA is 12.7% (13,631acres divided by 107,000 acres in MKGSA) and Visalia's land area is		
002	Ed address	65	EU 007		4	MIXCCA Channels in the	21.7% (23,197 acres divided by 107,000 acres in MKGSA) for a total urban acreage of approximately	CD	
003	Edward Henry	GE	EH-007		1	MKGSA Characteristics	37,000 acres or 35% (~37,000 acres divided by 107,000 acres) of the MK GSA acreage. In the first sentence of the second paragraph starting with " Section 6 of this GSP " - after "Section	CF	
							6" should insert reference to Table 6.2 so as to read " Section 6 in Table 6.2 of this GSP ". By adding		
							in Table 6.2 makes for better clarity. Also see (Section 6 Water Supply Accounting) in the last sentence, " Yet, as acknowledged in Section 2 of this Plan, ", reference to Table 2-1 should be		
003	Edward Henry	OR	EH-008		1	Internal referencing/GSP Organization	inserted after "Section 2" so as to read " Yet, as acknowledged in Section 2 in Table 2-1 of this Plan, ". By adding in Table 2-1 makes for better clarity.	CP	
003	Lawara richi y	OK	E11 000			internal referencing/ doi: Organization	. By duding in Tuble 2.1 makes for better clarity.		
							Can further explanation be given as to how the "water [supply] accounting framework" (WSAF), Table		
							6-2 in Section 6, will define the "water budget", Table 2-1 in Section 2? How are they related? I thought each one was independent of the other-the WSAF being based on a legal construct concept/definition		
							whereas the water budget is the physical movement of water? It is curious that by combing those two		
							figures for the MKGSA there is essentially a 50,000 AF range (swing) from a +38,000 AF surplus in the WSAF (Table 6-2) to a-13,000 AF deficit in water budget (Table 2-1). So is/are WSAF data/inputs		
							considered the independent variable (driver), and then the water budget would then be considered the		
							dependent variable of the WSAF? With the approximate -13,000 AF deficit in the water budget is this the more realistic figure/calculation that should be used by the three management areas (Tulare, Visalia, &		
003	Edward Henry	WB	EH-009	MCR-19	3	Water Budget Accounting	TID) when establishing Minimum Thresholds and Measurable Objectives? At the end of the first sentence should add after " interconnected surface waters " the 6th	CP TN	
							Undesirable Result which is "seawater intrusion". All 6 Undesirable Results (UR) should be listed in this		
003	Edward Henry	OR	EH-010		1	Undesirable Results/GSP Organization	opening sentence as seawater intrusion is the last listed UR in section 3.2.1.6 Seawater Intrusion at the bottom of the page.	CP	
003	Lawara Helliy	· · ·	1-11 010	1		Office in the said of the said	Actions of the page.	~-	

					BMP document, November 2017, page 4, under the heading Sustainability Indicators, the first indicator,			
					"Chronic lowering of groundwater levels " I would like to add a direct quote from there to the end of			
					the sentence at the top of Page 3.4 from this section of the BMP which states, "Overdraft during a			
					period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and			
					groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or			
					storage during a period of drought are offset by increases in groundwater levels or storage during other			
					periods. " A lot of people on these GSA boards, committees, etc. are not aware of the above "wiggle			
					room" statement allowed by the Statethis is a very important point. To me, the State recognizes that			
					agriculture may have to overdraft during a declared drought period in order to be economically			
					sustainable but then it must make-up for that overdraft in normal and wet years. After all, the primary			
					purpose of SGMA is to stop the chronic lowering of our groundwater, and we have until 2040 to bring our			
					groundwater into sustainability. In Section 3.2.1.1 Groundwater Levels should now read,			
					"Undesirable results associated with groundwater level declines are caused by over-pumping or nominal groundwater recharge operations during drought periods such that groundwater levels fall and remain			
					below minimum thresholds. Over-pumping and lack of recharge is area specific, and some GSA			
					Management Areas experience greater adverse impacts than others. [However], Overdraft during a			
					period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and			
					groundwater recharge are managed as necessary to ensure that reductions in groundwater levels or			
					storage during a period of drought are offset by increases in groundwater levels or storage during other			
					periods.". (Note: The bold, italic insert above is from the Sustainable Management Criteria- BMP			
					document, November 2017, page 4) Also note that <i>Undesirable Results has the complete text for the</i>			
					definition of undesirable results for groundwater elevations (including the " Overdraft during a			
					period of drought " caveat sentence for additional clarification): "Chronic lowering of groundwater			
					levels indicating a significant and unreasonable depletion of supply if continued over the planning and			
					implementation horizon. Overdraft during a period of drought is not sufficient to establish a chronic			
					lowering of groundwater levels if extractions and groundwater recharge are managed as necessary to			
				Minimum Thresholds- Drought	ensure that reductions in groundwater levels or storage during a period of drought are offset by increases			
003	Edward Henry	GL	EH-011	2 Impacts	in groundwater levels or storage during other periods. "	CP	TN	
					It states, " Over-pumping during drought periods, which may result in new lows in terms of			
					groundwater elevations, is of particular concern based on current scientific understanding of subsidence			
					trends in this region. Regional correlations of water levels v. subsidence trends remain difficult to			
					ascertain " and yet on Page 4-6, Section 4.2.3 Representative Monitoring, in the second sentence of the			
					second paragraph it states, " The USGS and DWR have utilized changes in groundwater elevations to			
					estimate changes in storage and have demonstrated a correlation between groundwater elevation and subsidence ". This appears to infer a stronger correlation of groundwater elevations and subsidence			
					than what was stated in Section 3.2.1.3 where is states, " Regional correlations of water levels v.			
					subsidence trends remain difficult to ascertain ". So for the Kaweah Subbasin, in general, and the			
					MKGSA, in particular, how strong is the correlation? Because of differential subsidence and regional			
					affects on critical infrastructure, groundwater elevations may or may not have a good or strong			
					correlation with_ land subsidence-it that correct? It's my understanding that within the KSB there are			
					some regions of strong correlations for groundwater elevations and land subsidence, and for other			
					regions the correlations are quite weak? Is the language in those two sections in conflict with each			
					other? Also see where is states, " Additionally, there was not sufficient data to find a			
					good correlation between pumping and land surface subsidence ". With this text there is some			
					conflicting information to the casual reader on the relationship between groundwater elevations [due			
					to pumping] and land subsidence. (NOTE: Perhaps I'm "beating a dead horse" here with semantics and			
					parsing words in those three above referenced sections on the correlation between groundwater			
					elevations and land subsidence. What will DWR accept here? As noted there are data gaps and perhaps			
				lando latino o latino es	by 2025 with better monitoring sites and technology there will be a better understanding of that			
003	Edward 11	1.0	F11 040	Land Subsidence- Correlation with	relationship between groundwater elevations and subsidence whether for better or worse-meaning a	NANI		
003	Edward Henry	LS	EH-012	3 Groundwater Levels	more positive correlation or a less positive one, or good in one region and not good in another.)	MN		
					In the third contains of the first promote the children in the little of the children in the c			
				Minimum Throchalds Craw durates	In the third sentence of the first paragraph should be inserted "minimum threshold (MT)" before "			
003	Edward Henry	GI	EH-013	Minimum Thresholds- Groundwater 1 Levels Measurement	groundwater" so as to read, " If any of the representative monitoring wells fall below the minimum threshold (MT) groundwater elevation in its respective zone, undesirable results could occur".	CP	TN	
003	Luwaru Henry	UL	LII-013	T Levels intensul chilent	threshold (1411) groundwater elevation in its respective zone, undestrable results could occur	CI	111	
					In the first row under the heading of Well ID, KSB-0922, and under the Measurable Objective heading,			
					the fmsl figure/number is listed as a minus 19 (-19) which is incorrect as it should be positive 19 fmsl. In			
					Appendix SB Groundwater Level Sustainable Management Criteria Hydrographs the first hydrograph is for			
					well KSB-0922 which definitely shows a Measurable Objective of+ 19 fmsl and not a negative figure. Of			
					the 42 listed Well IDs in Table 5-3, well KSB-0922 is the only well I compared or cross-checked the			
					numbers to the hydrographs shown in Appendix 5-B. (Due to the tediousness of going completely through each well in that table and comparing/cross-checking them to the hydrographs, and the time			
				Measurable Objectives- Groundwater	constraints of thoroughly going though this GSP, I did not examine the data for each of the other 41 wells			
003	Edward Henry	GI	EH-014	1 Levels	listed. Hopefully well KSB-0922 is the only well in Table 5-3 in incorrect data.)	CP	TN	
003	Lawara Helliy	OL.	L11-014	1 1200013		<u> </u>	113	
					[Section 5 Appendices]: Although the following comments may be out of contextual order but while in			
					Section 5 Appendices (from above), I also looked at Appendix 5D: Water Storage Additions - An Alternative Approach. <i>In Figure 1: Hypothetical Representation of Measurable and Optimal Objectives (</i>			
					on the last page), the four Interim Milestone numbers in parenthesis are shown as positive numbers.			
					Shouldn't they be listed as negative numbers as all are below zero (0) with regards to storage			
					depletion on the y-axis? They should be -21, -33, -40, & -42 TAF. Also the Storage Depletion label/units in			
003	Edward Henry	GS	EH-015	1 Interim Milestones- Graphing	parenthesis should be (TAF) rather than the (AF) as currently shown.	СР		

				_	_		
003	Edward Henry	OR EH-	-016	1 Internal referencing/GSP Organization	In the paragraph beginning with the sentence, " The results of this well impact analysis ", there is reference to " Figure 5-2 is an example plot showing 144 domestic wells in Hydro geologic Zone 2 ". None of the plots and statistical well summaries categorized by zone (1-10) have listings by Figures which makes it difficult to locate what is listed as Figure 5-2. Can this be corrected to add a Figure x.x, accordingly, to each of the plot and statistical well summaries? Also not seeing the well impact evaluation summaries referred to in the following sentence, " The well impact evaluation summaries for all zones (Appendix SC) indicate that 18 percent of agricultural wells, 9 percent of public wells, and 21 percent of rural residential wells including domestic wells ". There is no summary for all zones-only plots by each zone without Figure x.x assignments.	СР	
003	Edward Henry	WQ EH-	-017 MCR-6	1 Mimimum Thresholds- Water Quality	While in the process of doing an extensive word search on "projects' and "management actions", a second identical sentence to the one on Page 5-21, section 5.4.3 Water Quality Measurable Objectives was found (obviously an oversight on my part when I first read this GSP) which states, "All future projects and management actions implemented by the MKGSA will be designed to avoid causing further groundwater quality degradation". As stated then in my initial GSP comments (submitted on September 3, 2016), this sentence should be stricken from this GSP in the final document version for submission to DWR. I'll refer the reader of these GSP comments back to my original comments on Page 5-21 which will apply here also.	SH	JT
003	Edward Henry		-018	1 Minimum Thresholds- Water Quality	In the next to the last sentence of the last paragraph of this section on degraded water quality (Page 5-13) it states, " The relationship between groundwater levels and degradation trends, if any, is site-specific. ". At the June 14, 2019, meeting of the GKGSA's Combine Meeting of the Rural Communities Committee and Stakeholder Committee, Agenda Item 4 (handout), there were a total of 13 data graphs presented from various HZs in the KSB: 3 for Arsenic and 10 for Nitrates. All 13 graphs showed either a very poor correlation and/or no correlation between groundwater levels and water quality for those 2 constituents/substances. It is paramount that all GSAs in the KSB are not in some way or another held "hostage" to [degraded] water quality issues. This lack of correlation may perhaps be unique to the KSB (but doubtful), and water quality issues should not be the driver of projects and management actions that would have a positive outcome on preventing the undesirable results of other sustainability indicators, particularly groundwater levels, groundwater storage, and land subsidence.	SH	JT
003	Edward Henry		-019	1 Water Budget/Management Areas	In the third to the last sentence in the last paragraph on Page 5-20, it states, " MKGSA anticipates that coordination will focus on the Management Areas where water budgets remain in deficit, depending on degree ". Obviously there is a water budget for the MKGSA but are there also individual waters budgets for the 3 Management Areas-City of Tulare, City of Visalia, and TID? <i>If there are separate water budgets for each Management Area, when will they be published?</i> This is the first I've heard of additional water budgets [within the MKGSA], and I may be totally mis-reading that sentence.	СР	
003	Edward Henry		-020	Optimal Objective- Groundwater 1 Storage	In the second sentence of the paragraph following the bullet points it states, " Figure 5-3 shows the results of this analysis indicating that the measurable objective has 641,000 AF in storage at 2040, and the optimal objective has 1,356,000 AF in storage at 2040 ". When going back to Figure 5-3 on Page 5-10, that figure shows the Optimal Objective at 1,340,000 AF rather than the number of 1,356,000 AF cited above-that's a difference of 16,000 AF (which is almost the amount of groundwater pumped annually by the City of Tulare at roughly 18,000 AF). Which number is correct?	СР	
003	Edward Henry	WQ EH-	-021 MCR-6	2 Measurable Objectives- Water Quality	In the second sentence of first paragraph under the heading, 5.4.3 Water Quality Measurable Objectives it states, " All future projects and management actions implemented by the MKGSA are designed to avoid causing further groundwater quality degradation ". It's my firm understanding that the primary charge of SGMA is to stop the chronic lowering of groundwater which will be accomplished through projects and management actions. Projects and management actions most likely will always benefit groundwater quality but there's also a small risk that somehow it (water quality) may be negatively impacted such as unintentional plume migration. I'm very concerned that stating " all future projects and management action are designed to avoid causing further groundwater water degradation " could be a potential segue into litigation through misinterpretation, and that sentence should be stricken from this GSP in the final document version for submission to DWR. Again, the design of future projects and management actions should be heavily geared towards the sustainability indicators of chronic lowering of groundwater levels, loss of groundwater storage, and land subsidence through preventing or eliminating those undesirable results-hopefully groundwater quality will be a [secondary] beneficiary of those projects and management actions, and not the primary focus as currently stated above. Again, it should be noted that there is a very poor correlation between groundwater levels and water quality (for Arsenic and Nitrates) as shown in the graphical data presented at the meeting of the GKGSA's Combine Meeting of the Rural Communities Committee and Stakeholder Committee on June 14,	SH	JT
003	Edward Henry	OR EH-	-022	Measurable Objectives- Table 1 Formatting	In Table 5-3 in the Measurable Objective column there are no units, i.e. "inches", nor is that a timeframe. Can those additions be made to the Measurable Objective column? Also it's not clear as to how the Measurable Objective numbers were determined.	СР	

				[Appendix 5A] The term "hydrogeologic general" (AVA H7s) is used 14 times in the MVCCA	
				[Appendix 5A] The term "hydrogeologic zone(s)" (AKA HZs) is used 14 times in the MKGSA	
				GSP, and yet there is not an actual map/figure of the KSB showing those nine (9) HZs of which	
				there are four (4) HZs in the MKGSA—1, 2, 4, and 7. An excellent map/figure is found (at the	
				MKGSA website) under Documents , Section 5 Appendices , Appendix 5A <i>Overview of</i>	
				Application of Hydrogeologic Zones for Development of Groundwater Level Minimum	
				Thresholds, Figure 5.1 on Page A5-1. For easy reference by the reader of this GSP, I	
				would suggest imbedding Figure 5.1 into Section 2. Basin Setting at the bottom of Page 2-5 and	
				above the Section 2 – Basin Setting explanation box. In the first sentence of the third	
				paragraph from the bottom on Page 2-5, it reads in part, "Each MA's minimum thresholds have	
				been determined using the hydrogeologic zone mapping", and yet there is no HZs map in this	
				GSP. Since the word "mapping" is used here, this would be an excellent place to	
			Hydrogeologic Zones- Table	include/insert this map/figure. After the word "mapping", should be added (Figure 5.1), so	
003	Edward Henry OR	EH-023	1 Formatting/Internal Referencing	as to read, "Each MA's minimum thresholds have been determined using the hydrogeologic	СР
				In [Appendix 5B] Groundwater Level Sustainable Management Criteria Hydrographs there are	
				approximately 34 hydrographs. In the heading at the top of each hydrograph there is a well	
				designation (plus other information), i.e. Well KSB-0922, but it does not identify the HZ where	
				that particular well is located. After some prolonged looking, Well KSB-0922 can be found in	
				HZ1 . It would be more convenient if the HZ for each hydrograph were to be labeled with the HZ	
				in the heading as shown in the example below: Well KSB-0922 – HZ1 Mid	
				Kaweah GSA Well ID: CID 038 Aquifer System: Unknown – Model Layer	
				3 Also, none of the 34 hydrographs listed in Appendix 5B have a Figure designation, i.e.	
			Huduagaalagia 7anaa Jahannal	Figure x.xx, in their lower left-hand corner as do other Figures and Tables in this GSP and the	
000	51	511 024	Hydrogeologic Zones- Internal	accompanying Appendices at the MKGSA website. Having all Tables and Figures labeled as	CD.
003	Edward Henry OR	EH-024	1 Referencing	such would be more convenient for referencing and cross-checking when needed. In the last sentence of the second complete paragraph down from the top of rage 5-19 of this GSP	CP
				it states, "This approach is summarized in the bullet list that follows and is illustrated on	
				Figure 5.1 of Appendix 5A:". There is a definite inaccuracy here related to "Figure 5.1 of	
				Appendix 5A:" as Figure 5.1 is a map/figure (not a hydrograph) of the Hydrogeologic Zones	
				in the KSB (see map/figure below). Could you be referring instead to Figure 5.2 through Figure	
				5.5 in Appendix 5A, OR RATHER is it in Appendix 5B where the first hydrograph	
				(unlabeled—no Figure designation) is shown as Well KSB-0922 ? In looking further at the	
				"bullet list" and in the discussions that follow about the minimum thresholds, measurable	
				objectives, and interim milestones, it seems logical that Well KSB-0922 is the well being referred to	
				here as the example illustration. But since Well KSB-0922 does not have a Figure designation	
				attached to it, it was confusing initially. (See hydrograph of Well KSB-0922 on Page 2 of 2	
				below.) In the second sentence of the next to the last paragraph on Page 5-19 it states,	
				"Figure 5-1 shows these criteria at a single well in the southwest area of MKGSA and	
				Appendix 5B includes these criteria for each well". That "single well" is Well KSB-	
				0922 which is in HZ1 (the southwest area of the MKGSA) but it does not have a <i>Figure 5-1</i>	
				· · · · · · · · · · · · · · · · · · ·	
				designation (confusing). All 34 hydrographs in <i>Appendix 5B</i> need to be updated with a Figure	
				designation, i.e. Figure x.xx , in the lower left-hand corner (below the hydrograph) of the each	
				hydrograph for a more concise and easier referencing process. As mentioned earlier on Page	
				2 of 2, Addendum #4 (of these GSP comments) where the example for Well KSB-0922 – HZ1 is	
				shown (to include the HZ number), it is first of all suggested here that the "well title headings"	
				include the HZ for all 34 hydrographs. Secondly, it also would be very convenient to have all	
				hydrographs grouped by Hydrogeologic Zones for easier referencing in this GSP. Although on	
				Page 5-2 it states, "one-third of the Subbasin's representative monitoring sites	
				exceeding minimum thresholds for water levels would constitute an undesirable result", it	
				would be very helpful to know if those exceedances are random within the KSB or even the	
			Hydrogeologic Zones- Internal	MKGSA or if one HZ is statistically more heavily impacted than another HZ . If those exceedences	
003	Edward Henry OR	EH-025	1 Referencing	www.isolated to a particular U7 , then possibly Projects and Management Actions could be	СР
	, ,		-	Ware isolated to a norticular H. I then needs bly Uroscate and Management Actions could be	

							A general comment on the term "sustainable yield" as it is used in the MKGSA GSP. <i>The term</i>
							"sustainable yield" is used a total of 10 times in this GSP but it does not indicate or state an actual
							numerical value for the "sustainable yield" in any of the text. At many of the KSB's GSA
							meetings over the past 6 months it's been stated by the 3 GSA managers and others, and shown in
							tabular form that the "sustainable yield" is 659,999 AF (660,000 AF rounded up) for the KSB. This is
							depicted on Page 6-3, Table 6-2: GSA Apportionment, of this GSP. (NOTE: This table is also known as the
							Water [Supply] Accounting Framework, and also referred to as the "Three Buckets" accounting method)
							In that table in the lower right-hand comer is <i>the figure of 659,999 which is oftened referred to as the</i>
							"sustainable yield" but not specifically labeled as such. I would suggest putting a double asterisks(**)
							after the 659,999 number. Then below the table add this additional footnote (to the ones already
							there) with a double asterisks (* *). The footnote would then read, " **Sustainable Yield for KSB ".
							Although "sustainable yield" is used 10 times, there is no concise definition of the term
							"sustainable yield" found anywhere in this GSP. At the MKGSA website under Documents in Section 3
							Appendices, 3B Sustainable Management Criteria Best Management Practices, 5. KEY DEFINITIONS, Page
							34, it gives the definition of "sustainable yield" as follows: (w) "Sustainable yield" means the
							maximum quantity of water, calculated over a base period representative of long-term conditions in the
							basin and including any temporary surplus, that can be withdrawn annually from a groundwater supply
							without causing an undesirable result. Perhaps this definition should be inserted in
							parenthesis the first time the term "sustainable yield" (last bullet point) is used in the 1. Introduction,
							General Information, 1.1.1 Purpose of GSP on Page 1-1. That last bullet point would now read in part,
							" the sustainability goal and ensure that the Subbasin is ultimately operated within the sustainable
1							yield. ("Sustainable yield" means the maximum quantity of water, calculated over a base period
000	Ed	O.D.	E11 000			Sustainable Wield Untermal D. S.	representative of long-term conditions in the basin and including any temporary surplus, that can be
003	Edward Henry	UK	EH-026		1 5	Sustainable Yield/Internal Referencing	withdrawn annually from a groundwater supply without causing an undesirable result.)".
							In the third sentence of the first paragraph it states, " Whereas the average water accounting
							framework water balance is positive, the comparable hydrogeologic water budget is negative by about
							13,000 AF ". After the word "positive" should insert "at around 38,000 AF", in order to be consistent
							with the negative "13,000 AF". With the insert "at around 38,000 AF" that sentence would now read, "
							Whereas the average water accounting framework water balance is positive at around 38,000 AF, the
							comparable hydro geologic water budget is negative by about 13,000 AF ". This would help the reader
							to see both the positive and negative number for better clarity. With regard to Figure 6.1,
							several additions would make this figure more understandable. First the label on the y-axis needs to be
							Groundwater Storage, and the "Change in Acre-Feet" needs to be in parenthesis, "(Change in Acre-Feet)".
							Lastly, to the right of the two horizontal lines, in the upper line, Shared/Owner Ave, put in the 38,000 AF
						GSA Water Budget, GSA Water Budget	figure to reflect what is in the text above, and for the lower line, Hydrogeologic Ave, put in the
002	Edward Hopey	M/D	FIL 027	MCD 20			
003	Edward Henry	WB	EH-027	MCR-20	1 1	Table Formatting	
							In the first sentence (4th line) of the second paragraph on Page 7.1 it states, "future urban and
							agricultural conservation, " and yet on Page 7.2, in the Table/Chart under the column heading,
							Management Actions:, for the bullet point, Agricultural Water Conservation and Management Program,
							none of the four boxes are checked for the 4 Sustainability Indicators and states, Not Applicable, whereas
							the bullet point, Urban Water Conservation Program, 2 of the Sustainability Indicators, GW Levels and
							Reduction in Storage, are checked. Why does the Agricultural Water Conservation and Management
							Program get a pass on conservation? I would have thought that all 4 Sustainability Indicator boxes for
							the Agricultural Water Conservation and Management Program would have been checked-after all
							agriculture is by far and away the largest extractor of groundwater. This is not to pit ag versus urban but
							putting an unrealistic burden on urban areas (cities) is counter productive. I'll refer you back to my
1							comments on Pages 2 through 4 regarding the "urban forest" and the actual urban water usage.
							Also under the heading of Extraction Measurement Program it states Not Applicable. <i>Although</i>
1							SGMA doesn't require "metering", the regulatory agencies will never fully have an accounting of
1							
1							groundwater extraction until there is metering. All the "players" who have "straws in the punch bowl"
1							need to be metered at some point-realistically by 2025. Meters will be part of the costs of doing
1							business. Those "players" who are designated or self-designated as "de minimis" (less than 2 AF annually)
							need to prove they are truly de minimis, and the only accurate and reliable way to demonstrate that is by
							being metered. Yes, one could argue that the de minim is user's groundwater extraction is probably less
							than 5% of the total groundwater pumped but again if the regulatory agencies want to know ALL
							extractors and to have equality, then metering is the only answer. Right now the small 3-5 acre
003	Edward Henry	PM	EH-028		1 1	Management Actions	"ranchettes" will get a pass on SGMA whereas a city resident (and I'm a definite de minimis user) may
							In the first sentence of the first paragraph it states, " As identified in GSP Section 6.1, the MK GSA 's
							water budget shortfall is estimated to be fairly negligible ". After "fairly negligible" consider inserting
							"by about -13,000 AF " so as to read, " As identified in GSP Section 6.1, the MKGSA 's water budget
							shortfall is estimated to be fairly negligible by about -13, 000 AF ". Then in the second sentence of the
							same paragraph after the word " surplus " consider inserting "at around 38,000 AF" so as to read, "
							a surplus at around 38,000 AF is in fact inferred based on preliminary water accounting framework "
							By inserting those figures/numbers in those two sentences would give the reader more clarity regarding
							the actual numbers, and would spare [the reader] the need and time to refer back to Section 6.1 in order
							to verify those numbers-just makes for an easier read.
							same paragraph there is a major typo reference/category-water budget versus water accounting
							framework. It states in part, " hydrogeologic evaluations will continue to determine the reason for the
							differences between the water budget surplus and the conditions of decline". That's incorrect as it's not
							the "water budget surplus " which in fact has a deficit by about -13,000 AF but rather it's the "
							water accounting framework " that has a 38,000 AF surplus. With the correction that portion of the
					V	Water Budget/Water Accounting	sentence should now read, hydrogeologic evaluations will continue to determine the reason for the
					V	water budget/ water Accounting	
003	Edward Henry	WB	EH-029	MCR-20		Framework	differences between the water accounting framework surplus and the conditions of decline".

						original comments' submission on September 3, 2019, and it states, "Despite the water budget surplus,			
						as evidenced in Section 2 (Basin Setting Appendix 2A), groundwater levels and storage have been in			
						decline within the Mid-Kaweah area". In fact, there is not a water budget surplus as stated above (go			
						to the MKGSA website and see Section 2 Appendices 2A, Page 109, Table 32, which shows a -77.6 TAF			
						deficit for the entire Kaweah Subbasin), but rather it's the water accounting framework which shows a			
						surplus within the MKGSA of around 38 TAF in Section 6 – Water Supply Accounting (on Page 6-3, Table			
						6-3 of this GSP). Later in that same sentence it states, "and hydrogeologic evaluations will continue to			
						determine the reason for the differences between the between the water budget surplus and the			
						conditions of decline". Again, it's the water accounting framework which shows a surplus (~38 TAF) and			
						not the water budget (~ -13 TAF—see Page 2-3, Table 2-1 of this GSP). With those corrections that			
						sentence should now read as follows, "Despite the water accounting framework surplus, as evidenced			
						in Section 6 – Water Supply Accounting (on Page 6-3, Table 6-3) of this GSP, groundwater levels and			
						storage have been in decline within the Mid-Kaweah area and hydrogeologic evaluations will continue to			
						determine the reason for the differences between the water accounting framework surplus and the			
						conditions of decline". I'm concerned that there is incorrect interchangeable usage of the terms			
						water budget and water accounting framework and will confuse the causal reader. On Page 2-2, 2.3			
						GSA Water Budget, there's a good definition and the current estimate of the MKGSA water budget:			
						"This localized water budget represents the estimated physical movement of water in and out of the			
						MKGSA area on an annual basis and provides an average for the 21-year period. During that period,			
						average groundwater storage depletions were 12.6 thousand acre-feet (TAF) per year due to a			
						combination of water management activities within the GSA as well as influences from neighboring GSAs			
						both in the Kaweah Subbasin and in neighboring subbasins". Also on Page 2-2 there is a good definition			
						of the water accounting framework [which is specifically addressed on Page 6-3, Table 6-2 and Table 6-3			
						of this GSP] and shows an Imputed Balance (Table 6-3) surplus within the Mid-Kaweah area of			
						approximately 37.8 thousand acre-feet (TAF) per year: "To apportion responsibilities for the			
						development of projects and management actions (extraction reductions), Section 6 of this GSP			
					Water Budget/Water Accounting	segregates groundwater inflows based on a legal construct of native, foreign, and salvaged components.			
003	Edward Henry	WB	EH-030		2 Framework	These components are proportionately assigned to each of the three Subbasin GSAs. This construct and	TN		
						In the second sentence of the first paragraph it states, " this initial phase of an allocation program shall			
						exclude those well owners who extract less than two AF per year (i.e., de minimis extractors) ". Again, I			
						will challenge how a de minimis extractor will be identified? So if one lives in the county (not within the			
						jurisdictional boundaries of a city-i.e. Tulare or Visalia) on a 2-3 acre parcel with a half-dozen head of			
						beef cattle, a couple of horses, irrigated pasture(s), some fruit and nut trees, a vegetable garden, a½ acre			
						green lawn, etc. that will be declared a de minimis extractor-there's no way that parcel/residence is a de			
						minimis extractor? I live in Tulare on just under 1/3 of an acre, and I am definitely a de minimis user of			
						groundwater. But because I'm within the jurisdictional boundary of Tulare, I won't have the same rights			
						[to use that groundwater] as a de minimis extractor. Granted I don't have the risks of a well going dry or			
						potentially degraded water quality or other well associated operation and maintenance concerns as one			
						who has a domestic well in the county but something is wrong with this picture. Make de minimis			
003	Edward Henry	AL	EH-031		2 De Minimus Extractors	extractors prove they are truly de minimis-keep the playing field level and equitable. Meter the de	PH		
		,				In the third line of that paragraph it states, " mandates of a 20 percent reduction in urban per capita			
						water usage by 2020 ". What is the base year for the reduction? During the drought years 2012-2016,			
						cities were mandated by the governor to cut the water usage by 28-32% from the base year of 2013: Will			
003	Edward Henry	MH	EH-032		1 Urban Water Management Plans	2013 be used again as the base year?	TN		
003	Lawara Herriy	IVIO	L11-032		1 Orban Water Management Flans	The last bullet point at the bottom of the page states, " A determination by the GSA to not regulate any	114		
						de minimis extractor, i.e., any well owner pumping two acre-feet or less annually ". Again, I'll voice my			
						concern that in fact a " de minimis extractor " should have to prove the de minimus extractor			
003	Edward Henry	ΔΙ	EH-033		1 De Minimus Extractors	designation or classification- metering will be the only way to validate such a claim.	PH		
003	Lawara Helliy	AL	L112033		T DC William as Extractors	In the first sentence of the first paragraph on Page 7-46 (below Figure 7-5) it states, " coupled with this			
						GSA 's assigned share of the Subbasin water budget as articulated in Section 6 of this Plan ". <i>Isn't it the</i>			
						water accounting framework which present in Section 6? Instead of referring to the "water budget"			
						shouldn't replacing the term water budget with the term water accounting framework be more			
003	Edward Henry	W/B	EH-034	MCR-20	1 Water Budget/Accounting Framework	correct/accurate as it is articulated on Page 6-3 in Section 6 of this Plan, in Table 6-2 and Table 6-3.	CP .	TN	
003	Luwaru nenry	V V D	En-034	IVICN-ZU	T water budger/Accounting Framework	In the first paragraph below Table 7-1, the third sentence states, " This range of recharge	CF .	111	
						accomplishments is depicted in the "Cumulative Added Storage" bandwidth on Figure 7-5" It should			
002	Edward Harry	OP	EH 025		1 Internal Referencing		CP		
003	Edward Henry	UK	EH-035		Timema vereiencing	read Figure 7.6, not Figure 7-5.	CF		
002	Edward Harrin	OB	EII 020		1 Water Pessurees Type	At the bottom 1/3 of Table 7.2 under the heading, Combined, it has "SVP Surplus"- shouldn't read "CVP			
003	Edward Henry	UK	EH-036		1 Water Resources- Typo	Surplus"?	CF		
						In the paragraph below Table 7-3 in the second sentence of that paragraph it states, " Technical			
						Memorandum (I'M) "Estimate of Future Friant Division Supplies For Use in Groundwater Sustainability			
						Plans," Friant Water Authority, December 2018, included as an appendix to the Basin Setting report ".			
						To facilitate easier location of this Technical Memorandum (TM), it should be noted or referenced that			
						this document is in Appendix D. Friant Water Authority Future Water Supply Study, of Section 2			
						Appendices- 2A Kaweah Subbasin Basin Setting Components. At the MKGSA website the Basin Setting			
						Components document, due to its MB size, is split-Pages 1- 200 (23.2MB) and Pages 200-373 (20.4MB).			
003	Edward Henry	OR	EH-037		1 Internal Referencing	The Friant document, referenced, above is in the second half, Pages 200-373, and is the very last	СР		
						In the first paragraph note that September only has 30 days. " which will be WY 2019 (October 1, 2018			
003	Edward Henry	OR	EH-038		1 Annual Reporting- Typo	to September 31, 2019) "	СР		

						Environmental beneficial uses and ecosystem users of water are not adequately considered			
						throughout the plan. A. Issue: Though the GSP identifies 'environmental and ecosystem			
						interests' on the list of interest-based categories to be considered per Water Code 10723.2, these interests are not specified nor considered in a meaningful way. For example, on the bottom of page 1-23,			
						the narrative paragraph lists beneficial users of groundwater in the basin but excludes any mention of			
						environmental users. In Section 1.5.2.10, page 1-25, the GSP lists 'Environmental and Ecosystem			
						Interests,' but unlike the other beneficial users, these interests are identified only as representative			
						environmental organizations, not as the specific groundwater end user (e.g., groundwater dependent			
						ecosystems). The lack of specificity around and consideration of environmental beneficial users			
						perpetuates throughout the plan. For example: i. On page 3-2, first paragraph, the			
						sustainability goal is entirely 'enterprise' focused and does not mention any environmental beneficial			
						users of groundwater. ii. Similarly, undesirable results largely do not reflect potential			
						impacts. to environmental beneficial uses and users of water. These users are excluded from the analysis			
						and effects of undesirable results or their inclusion is cursory and dismissive. For example, on page 3-9,			
						the discussion around Interconnected Surface Waters undesirable results acknowledges and accepts the			
						potential for the temporary loss of riparian vegetation, which does not align with General Plan Open			
						Space and Conservation Element objectives that seek to maintain or enhance riparian habitat as			
						presented on page 1-14. iii. On page 3-8, the GSP notes that any "undesirable results			
						caused by habitat loss within stream channels will be evaluated on a case-by-case basis and independent			
						of other undesirable results". This statement effectively separates instream habitat undesirable results			
						from the GSP undesirable result analysis for all other beneficial users without specifics as to how these			
						'cases' may be managed. Also, habitat 'loss' suggests permanence, which may mean once a 'case' is			
						identified, it could be too late to mitigate significant impacts to environmental beneficial uses and users			
						, , , , , , , , , , , , , , , , , , , ,			
						specific habitats and species that depend on groundwater in the subbasin and define for these			
	Ca Department					beneficial users undesirable results and related causes. The Department recommends reviewing and			
	of Fish and					evaluating the Critical Species Lookbook (TNC 2019) for threatened and endangered species within the			
004	Wildlife	IS	DF-001	MCR-7	3 Beneficial Users- Environmental	basin, as well as for narrative on species and habitat groundwater dependence that can be a model for	PH	CP, MN	
						describing environmental beneficial uses and users of groundwater in the GSP. The GSP offers an inconsistent and incomplete analysis of interconnected surface waters and related		,	
						sustainable management criteria (SMC). A. Issue: <i>On page 5-1, the GSP establishes 'non-</i>			
						applicability' of Interconnected Surface Waters sustainable management criteria, but poorly justifies			
						and inconsistently applies this conclusion. Below are a series of GSP excerpts and CDFW comments. i. On			
						page 3-4 ¹ , the undesirable result analysis for Interconnected Surface Waters states, "Depletions of			
						interconnected surface waters are minimal and, to the extent they occur, impact only vegetation along			
						the banks of unlined channels within the forebay regions of the aquifer system where natural channels			
						exhibit gaining reaches from time to time. Undesirable results may occur should any such groundwater-			
						dependent vegetation disappear from locations of known historic existence." ii. On page 3-5			
						states "Groundwater elevations shall serve as the sustainability indicator and metric for chronic lowering			
						of groundwater levels and, by proxy, for and interconnected surface waters. Justification for use of			
						groundwater elevations as a proxy in this instance is provided in Section 5." iii. On page 3-			
						7 states, "The water level sustainability indicator is to serve, by proxy, for establishing interconnected			
						surface waters. Periodic comparisons of surface water elevations and flowrate depletions in applicable			
						stream channels and adjacent groundwater will be pertinent to this establishment." iv.			
						On page 3-9 states, "Water bodies, primarily stream channels, which become temporally disconnected			
						throughout the year from the underlying water table may experience the disappearance of adjacent			
						vegetative habitat which may be considered as a beneficial use of groundwater. Such occurrences are			
						generally restricted to the upper reaches of applicable channels in the fore bay region of the aquifer			
						system near the Sierra foothills. The consensus among Subbasin GSAs and stakeholders is that the			
						intermittent nature of this vegetative habitat is such that its temporary loss does not rise to the level of			
						an undesirable result." Each of the above statements suggest that the basin has some surface			
						water groundwater interconnectivity, and that groundwater elevation will serve as a proxy metric for			
						Interconnected Surface Waters monitoring. The last sentence for page 3-9 above, suggests the consensus			
						is more the expressed opinion of the stakeholders and not based on scientific or engineering verification.			
	Ca Department					v. On page 4-14, states, "As stated previously, the interconnection of surface water and			
	ica pepai liliell		Ì	1	1	groundwater was disrupted many decades ago in the MKGSA. Therefore, a monitoring network and		I	1
	· ·				Undesirable Posults- Interconnected				
004	of Fish and Wildlife	IS	DF-002	MCR-3	Undesirable Results- Interconnected 3 Surface Waters	monitoring is not required for this GSA." vi. On page 5-18 states "Insufficient information and flow data exist with which to gauge seasonal connections and relative importance of any vegetative	рн	CP, MN	

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							Sustainable management criteria allow for decades of continued groundwater decline in this subbasin designated as 'Critically Overdrafted.' A. <i>Issue: These sustainability criteria suggest that groundwater elevations at all representative wells in the subbasin can continue to decrease for the next20 years, dropping further from historically low groundwater elevations during drought years, without witnessing undesirable results.</i> The subbasin is characterized by DWR as 'Critically Overdrafted,' meaning "continuation of present water management practices [in the basin] would probably result in significant adverse overdraft-related environmental, social, or economic impacts" (CDWR 2019). However, according to statements in the GSP, the basin has not experienced undesirable results, nor will it under projected 2040 groundwater levels "barring significant and unreasonable impacts on existing wells and freshwater storage" as stated on page 5-3; therefore, minimum thresholds allow for continued groundwater depletions. Specifically, "minimum thresholds were set at the water level projections for 2040 using the same trend in groundwater levels from 2006 to 2016" as stated on page 5-3, effectively allowing for 20 years of groundwater table declining trends and mirroring trends that contributed to the subbasin's Critically Overdrafted status. Conceptually, there is a disconnect between the subbasin's 'Critically Overdrafted' designation and the GSP's claim that the basin has not experienced undesirable			
							results, nor will continue to have undesirable results if groundwater levels continue to decrease. b. Recommendation: <i>The Department recommends the MKGSA reconsider minimum thresholds and</i>			
							measurable objectives, accounting for undesirable results for fish and wildlife beneficial uses and users			
							of groundwater and interconnected surface water, to design sustainable management criteria that reflect a 'Critically Overdrafted' subbasin designation by seeking to improve current groundwater			
	Ca Department of Fish and					Minimum Thresholds- Groundwater	conditions rather than allowing for continued aquifer depletions over the next two decades.			
004	Wildlife	GL	DF-003			Levels		СР	TN	
							Starting on page 146, the GOE identification section, pursuant to 23 CCR § 354.16 (g), is based on very limited information to demonstrate exclusion of ecosystems that may depend on groundwater.			
							A. Issue: Methods applied to the Natural Communities Commonly Associated with Groundwater			
							(NCCAG) dataset to eliminate potential GDE's are not robust. i. Depth to Groundwater: The removal of areas with a depth to groundwater greater than 50 feet in Spring 2015 relies on a single-			
							point-in-time baseline hydrology, specifically a point in time that is several years into a historic drought			
							when groundwater levels were trending significantly lower due to reduced surface water availability. Exclusion of potential GDEs based on this singular groundwater elevation measurement is questionable			
							because it does not consider representative climate conditions (i.e., seasons and a range of water type			
							years) and it does not account for GDEs that can survive a finite period of time without groundwater access (Naumburg et al. 2005), but that rely on groundwater table recovery periods for long term			
							survival. ii. Adjacent to Surface Water: The GSP did not fully evaluate potential GDEs that			
							depend on adjacent losing surface water bodies and a GDE's adaptability and opportunistic nature in accessing water supply. The GSP assumption that these potential GDEs are accessing and primarily			
							dependent on surface water is based on proximity to a surface water source, but this assumption is			
							poorly justified and there is no acknowledgement of the potential for shifting reliance between surface and ground water. Additionally, GDEs that are near interconnected surfalle water bodies may depend on			
							sustained groundwater elevations that stabilize the gradient or rate of loss of surface water, meaning			
							that ecosystems near interconnected surface waters may depend on sustainable groundwater elevations.			
							Therefore, it is possible that any of these potential GDEs rely on groundwater during specific seasons or water year types. B. <i>Recommendations: The Department recommends the MKGSA consider the</i>			
							following for information gathering related to GDEs: i. Depth to Groundwater: Develop a			
							hydrologically robust baseline which includes areas with a depth to groundwater greater than 50 feet that relies on multiple, climatically representative years of groundwater elevation and that accounts for			
							the inter-seasonal and inter-annual variability of GOE water demand. ii. Adjacent to Surface			
	Ca Department						Water: <i>Re-evaluate potential GDEs that are in proximity to a losing surface water body.</i> The Department recommends the GSP be more conservative and all-inclusive until there is evidence that the			
004	of Fish and Wildlife	IS	DF-004	MCR-3	3	Groundwater-Dependent Ecosystems	overlying ecosystem has no significant dependence on groundwater across seasons and water year types.	PH	CP, MN	
						,	The Department advises that these riparian GOE beneficial users of groundwater and surface water are Surface water are Surface water users and the following groups were listed as Beneficial Users: "Environmental			
							and ecosystem interests in MKGSA include representatives of the Tulare Basin Wildlife			
							Partners, Sierra Club Mineral King Group, and Sequoia Riverlands Trust (p. 1-25)." Please identify whether or not the following beneficial uses and users of groundwater in			
							the subbasin are present: Protected Lands, including preserves, refuges, conservation areas, recreational areas; and other protected lands; and Public Trust			
							Uses, including wildlife, aquatic habitat, fisheries, and recreation. The types			
							and locations of environmental uses, species and habitats supported, and the designated beneficial environmental uses of surface waters that may be affected by groundwater			
							extraction in the Subbasin should be specified. To identify environmental users, please refer to the following: Natural Communities Commonly Associated with Groundwater			
							dataset (NC Dataset) - https://gis.water.ca.gov/app/NCDatasetViewer/ The list of			
005	The Nature	lic	NC 001			Beneficial Users- Environmental	freshwater species located in the Kaweah Subbasin in Attachment C of this letter. Please take particular note of the species with protected status.	DH	CD MAN	
005	Conservancy	13	NC-001		1	penenciai Osers- Environmentai		ГΠ	CP, MN	

							his section should include a discussion of General Plan goals and policies related to the	\top		T
							protection and management of GDEs and aquatic resources that could be affected by			
							groundwater withdrawals, rather than being limited to goals and policies directly related to			
							groundwater resources as the Tulare General Plan does. Please include a discussion of			
							how implementation of the GSP may affect and be coordinated with General Plan			
							policies and procedures regarding the protection of wetlands, aquatic resources and			
							other GDEs and ISWs. This section should identify Habitat Conservation Plans			
							(HCPs) or Natural Community Conservation Plans (NCCPs) within the Subbasin and if they are			
							associated with critical, GDE or ISW habitats. Please identify all relevant HCPs and			
							NCCPs within the Subbasin, and address how GSP implementation will coordinate			
							with the goals of these HCPs or NCCPs. The Open Space and Conservation			
							Element of the City of Visalia's General Plan includes (p. 1-14 to 1-15): "1. Protect,			
							restore and enhance a continuous corridor of native riparian vegetation along			
							Planning Area waterways, including the St. Johns River; Mill, Packwood, and			
							Cameron Creeks; and segments of other creeks and ditches where feasible, in			
							conformance with the Parks and Open Space diagram of this General Plan.			
							2. Establish design and development standards for new projects in waterway corridors to			
							preserve and enhance irrigation capabilities, if provided, and the natural riparian environment			
							along these corridors. In certain locations or where conditions require it, alternative designs			
							may be appropriate (e.g., terraced seating or a planted wall system) 3. Place			
							special emphasis on the protection and enhancement of the St. Johns River Corridor by			
							establishing extensive open space land along both sides. 4. Where no urban			
							development exists, maintain a minimum riparian habitat development setback from the			
							discernible top of the bank: 50 feet for both sides of the Mill, Packwood, and Cameron Creek			
							corridors and 25 feet for both sides of Modoc, Persian, and Mill Creek ditches. Where riparian			
							trees are located within 100 feet of the discernible top of the banks of the creek corridors and			
						General Plans- Interconnected	50 feet from the banks for the ditches, the setback shall be wide enough to include five feet			
	The Nature					Surface Waters/Groundwater-	outside the drip line of such trees. Restore and enhance the area within the setback with native vegetation as follows: a. Where existing development or land committed to			
005	Conservancy	ls	NC-002			Dependent Ecosystems	development prohibits the 50-foot setback on Mill, Packwood, and Cameron Creek corridors,	PH	CP, MN	
535			1.0 002		1		The monitoring programs are described, but there is no mention of how GDEs are monitored		7	
	TI						and protected. Once GDEs are identified, please describe how existing groundwater			
	The Nature						monitoring programs are protective of GDEs, or propose additional monitoring that	4		
005	Conservancy	IS	NC-003		1	Groundwater-Dependent Ecosystems	specifically targets GDEs. This section describes the programs of USACOE, Kaweah and St. Johns Rivers Association	PH	CP, MN	
							(KSJRA), and the ditch companies. Surface water sources are listed along with the group			
							monitoring them. Small surface streams which pass through TID's service area are noted as			
						Interconnected Surface	used, but the names are not listed. There is no mention of ISWs or GDEs and how they are			
	The Nature					Waters/Groundwater-Dependent	monitored. Please explain how existing stream flow monitoring is protective of ISWs			
005	Conservancy	IS	NC-004		2	Ecosystems	and GDEs.	PH	CP, MN	
							permitting must be coordinated with the GSP to assure achievement of the Plan's sustainability goals. The County of Tulare is currently revising their well permitting program.			
							The City of Visalia also has a well permitting program for wells within their jurisdiction.			
							The State Third Appellate District recently found that Counties have a responsibility to			
							consider the potential impacts of groundwater withdrawals on public trust resources when			
	The Nieture						permitting new wells near streams with public trust uses (ELF v. SWRCB and Siskiyou County,			
225	The Nature		NO 005			Mall Dameittin -	No. C083239). The need for well permitting programs to comply with this requirement should	CD		
005	Conservancy	GP	NC-005		1	Well Permitting	the stated in the text. The base of the Subbasin corresponds with the base of freshwater. This is generally defined	CP		
							as the elevation below which total dissolved solids are greater than 2,000 milligrams per liter			
							(mg/l) (Bertoldi et al, 1991)" (p. 22 of Appendix 2A). As noted on page 9 of DWR's			
							Hydrogeologic Conceptual Model BMP			
							(https://water.ca.gov/LegacyFiles/groundwater/sgm/pdfs/BMP_HCM_Final_2016-12-23.pdf)			
							"the definable bottom of the basin should be at least as deep as the deepest groundwater			
							extractions". Thus, groundwater extraction well depth data should also be included in			
				1			the determination of the basin bottom. Properly defining the bottom of the basin will			
	The Nature			I			prevent the possibility of extractors with wells deeper than the basin boundary from claiming exemption from SGMA due to their well residing outside the vertical extent of the basin		-	i - 1
005	Ī					Kaweah Subbasin Characteristics	jezempuon nom soma due to their well residing outside the vertical extent of the DaSIN			
003	Conservancy	SB	NC-006		2	Rawean Subbasin Characteristics	houndary	 СР	TN	
003	Conservancy	SB	NC-006		2	Rawean Subbasin Characteristics	boundary Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a	СР	TN	
003	Conservancy	SB	NC-006				Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs	СР	TN	
003	Conservancy	SB	NC-006			Kaweah Subbasin Characteristics-	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an	СР	TN	
003		SB	NC-006			Kaweah Subbasin Characteristics- Interconnected Surface	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of	СР	TN	
	The Nature	SB		MCB-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations,	СР	TN	
005		SB	NC-006 NC-007	MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs.	СР	TN	
	The Nature	SB SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on	СР	TN	
	The Nature	SB SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aguifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist	СР	TN	
	The Nature	SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on	СР	TN	
	The Nature	SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best	СР	TN	
	The Nature	SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below	СР	TN	
	The Nature	SB SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from	СР	TN	
	The Nature	SB SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land	СР	TN	
	The Nature	SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters.	СР	TN	
	The Nature Conservancy	SB		MCR-8		Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and	СР	TN	
005	The Nature Conservancy	SB	NC-007		1	Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent Ecosystems	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and nested/clustered wells) along surface water features in the Monitoring Network	СР	TN TN	
	The Nature Conservancy	SB		MCR-8	1	Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and nested/clustered wells) along surface water features in the Monitoring Network section of the GSP to improve ISW mapping.	СР	TN TN CP, MN	
005	The Nature Conservancy	SB	NC-007		1	Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent Ecosystems	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and nested/clustered wells) along surface water features in the Monitoring Network	СР	TN TN CP, MN	
005	The Nature Conservancy	SB	NC-007		1	Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent Ecosystems	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and nested/clustered wells) along surface water features in the Monitoring Network section of the GSP to improve ISW mapping. *Depletions of interconnected surface waters are minimal and, to the extent they occur, impact only vegetation along the banks of unlined channels within the forebay regions of the aquifer system where natural channels exhibit gaining reaches from time to time. Undesirable	CP CP	TN TN CP, MN	
005	The Nature Conservancy	SB	NC-007		1	Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent Ecosystems	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aquifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and nested/clustered wells) along surface water features in the Monitoring Network section of the GSP to improve ISW mapping. *Depletions of interconnected surface waters are minimal and, to the extent they occur, impact only vegetation along the banks of unlined channels within the forebay regions of the aquifer system where natural channels exhibit gaining reaches from time to time. Undesirable results may occur should any such groundwater-dependent vegetation disappear from	СР	TN TN CP, MN	
005	The Nature Conservancy	SB SB	NC-007		1	Kaweah Subbasin Characteristics- Interconnected Surface Waters/Groundwater-Dependent Ecosystems	Basin-wide cross sections provided in Figures 4 through 13 are regional, and do not include a graphical representation of the manner in which shallow groundwater may interact with ISWs or GDEs that would allow the reader to understand this topic. Please consider including an example near-surface cross section that depicts the conceptual understanding of shallow groundwater and stream interactions at different locations, including the Upper Aguifer, as well as any potential GDEs. Please identify interconnected surface waters in the Basin by relying on groundwater elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the monitoring network. ISWs are best estimated by first determining which reaches are completely disconnected from groundwater. This approach would involve comparing groundwater elevations with a land surface Digital Elevation Model that could identify which surface waters have groundwater consistently below surface water features, such that an unsaturated zone would separate surface water from groundwater. Groundwater elevations that are always deeper than 50 feet below the land surface can be used to identify the aboveground reaches as disconnected surface waters. Please reconcile data gaps (shallow monitoring wells, stream gauges, and nested/clustered wells) along surface water features in the Monitoring Network section of the GSP to improve ISW mapping. Depletions of interconnected surface waters are minimal and, to the extent they occur, impact only vegetation along the banks of unlined channels within the forebay regions of the aquifer system where natural channels exhibit gaining reaches from time to time. Undesirable results may occur should any such groundwater-dependent vegetation disappear from locations of known historic existence." This discussion is inadequate and is not supported by	СР	TN TN CP, MN	
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							All three of the above referenced sections refer to or include discussion of the identification of				
							groundwater dependent ecosystems (GDEs). Please consolidate and expand these				
							sections of the document in GSP Appendix 2A Section 2.4 (Groundwater Elevation				
							and Flow Conditions §354.16), since the identification of groundwater dependent				
							ecosystems (GDEs) is a required element of Current and Historical Groundwater				
							Conditions (23 CCR §354.16). This is a more appropriate place for the identification				
							of GDEs, since groundwater conditions (e.g., depth to groundwater, interconnected				
							surface water maps, groundwater quality) are necessary local information and data				
							from the GSP in assessing whether polygons in the NC dataset are connected to				
							groundwater in a principal aquifer. For detailed guidance on how to address GDEs,				
							please see our publication, GDEs under SGMA: Guidance for Preparing GSPs 5. In				
							particular, note the following: Please provide a comprehensive				
							discussion and figure(s) for the identification of GDEs. Figure 19 of Appendix 2A is titled				
							"Potential Groundwater Dependent Ecosystems", however the figure does not actually present				
							this. The NC dataset is a starting point for GSAs to identify GDEs in their basin. The NC dataset				
							comprises 3,488 acres of potential GDEs for the entire Kaweah basin, representing a				
							significant amount of GDEs to be considered. Please map the original NC dataset on				
							Figure 19 or another figure, and document which polygons were added (and what				
							local sources were used to identify them), removed (and the removal reason), and				
							kept (from the original NC dataset) . The basin's GDE shapefile, which is submitted via the				
							SGMA Portal, should also include two new fields in its attribute table denoting: 1) which				
							polygons were kept/removed/added, and 2) the change reason (e.g., why polygons were				
							added or removed). Please refer to Attachment D of this letter for best practices for				
							using local groundwater data to verify whether polygons in the NC dataset are			1	
							supported by groundwater in an aquifer. If insufficient data are available to describe			1	
							groundwater conditions within or near polygons from the NC dataset, include those				
							polygons in the GSP until data gaps are reconciled in the monitoring network.				
							j				
	The Nature						Specifically, please note: GDEs under SGMA: Guidance for Preparing GSPs is available at:			1	
005	Conservancy	lis	NC-010	MCR-8	່	Groundwater-Dependent Ecosystems	https://groundwaterresourcehub.org/public/uploads/pdfs/GWR Hub GDE Guidance Doc 2-1-18.pdf	DI	۲ ارر	P, MN	
555	Julious varies	10	110 010	IAICIV O		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	Please provide depth to groundwater contour maps. See Attachment D for best Unce potential GDEs are identified, please provide information on the historical or			,•	
							current groundwater conditions in the GDEs or the ecological conditions present.				
							Refer to GDE Pulse (https://gde.codefornature.org; See Attachment E of this letter for more				
							details) or any other locally available data to describe depth to groundwater trends in and				
							around GDE areas, as well as trends in plant growth (e.g., NDVI) and plant moisture (e.g.,				
							NDMI). Below is a screenshot example of data available in GDE Pulse for NC dataset polygons				
							found in the Mid- Kaweah Subbasin: Once potential GDEs are identified, provide				
							an inventory of the vegetation types or habitat types and rank the vegetation species as				
							having a high, moderate or low value. Please identify whether any endangered or				
	The Nature						threatened freshwater species of animals and plants or areas with critical habitat				
	Conservancy	Is	NC-011	MCR-9	2	Groundwater-Dependent Ecosystems	were found in any of the GDEs. The list of freshwater species located in the Kaweah	DI	<u> </u>	P, MN	
005	CONSCIVATION		IIIC-OTT			TOTOGITAWALCE DEDCTIACITE ECOSYSTETIS				, 17117	
005	Conservancy		INC-011		Z	Groundwater Beperlacht Leosystems			С	, 10110	
005	Conservancy		INC-011		2	Groundwater Dependent Leosystems	Please clarify what the term "phreatophyte extraction' means. The text	,	n Cr	, iviiv	
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							After the identification and evaluation of potential GDEs is completed, this section should discuss impacts to those GDEs. Specifically, For chronic lowering of water level,			
							the GSP Committee considered that one- third of the representative monitoring sites (wells)			
							exceeding minimum thresholds for water levels would constitute an undesirable result. There			
							appears to be no additional guidance to protect potential GDEs or ISWs. Please discuss how this undesirable result can be used to avoid impacts to GDEs or ISWs.			
							There appears to be no consideration of undesirable results on land uses that include and			
							consider recreational uses (e.g. fishing/hunting, hiking, boating) and property interests that			
							include and consider privately and publicly protected conservation lands and open spaces,			
							including wildlife refuges, parks and natural preserves. Please describe how impacts to these types of properties will be avoided. Please provide more specifics on			
							what biological responses (e.g., extent of habitat, growth, recruitment rates) would			
							best characterize a significant and unreasonable impact to GDEs. The definition of			
							'significant and unreasonable' is a qualitative statement that is used to describe when			
							undesirable results would occur in the basin, such that a minimum threshold can be quantified. Potential effects on all beneficial users of groundwater in the basin need to be			
							taken into consideration. According to the California Constitution Article X, §2, water			
	The Nature					Undesirable Results- Interconnected Surface Waters/Groundwater-	resources in California must be "put to beneficial use to the fullest extent of which they are			
005	Conservancy	ıs	NC-019	MCR-4		Dependent Ecosystems, Recreation	capable". Please identify appropriate biological indicators that can be used to	PH	CP, MN	
003	Conscivancy	13	110 013	IVICK 4		Dependent 2003ystems, Neoreacion	monitor potential impacts to environmental beneficial users due to groundwater The GSP proposes to use groundwater level monitoring for chronic groundwater level.	111		
							Some of the monitoring wells are missing well construction information (only 22 of 37 wells			
							are complete). Only 14 of the 37 wells are screened in the Upper Aquifer. The missing well			
							information is a known data gap and was acknowledged on p. 4-15. Two multi-level wells are proposed to help fill this data gap, shown on Figure 4-7 (p. 4-22). The missing information			
							should be obtained or a different well selected for monitoring. "As stated			
							previously, the interconnection of surface water and groundwater was disrupted many			
							decades ago in the MKGSA. Therefore, a monitoring network and monitoring is not required			
							for this GSA (p. 4-14)." Data has not been presented to substantiate this statement. Please provide additional analysis to back-up this conclusion. Per the GSP			
							Regulations (23 CCR §354.34 (a) and (b)), monitoring must address trends in groundwater			
							and related surface conditions (emphasis added). Groundwater level monitoring alone may			
							be insufficient to establish a linkage between groundwater extraction and potentially resulting impacts to environmental resources associated with GDEs and ISWs. The cause-effect			
							relationship between groundwater levels and the biological responses that could result in			
						Groundwater Level Monitoring	significant and unreasonable impacts to ISWs and GDEs depends on a number of complicated			
						Network- Interconnected Surface	factors, and this relationship is not characterized or discussed. As such, it is not possible to			
	The Nature					Waters/Groundwater-Dependent	determine whether the proposed monitoring, minimum thresholds and measurable objectives are sufficiently protective to ensure significant and unreasonable impacts to GDEs and ISWs			
005	Conservancy	IS	NC-020	MCR-3	1	Ecosystems	will be prevented. Please add monitoring of potential GDEs and at any locations where	PH	CP, MN	
							A groundwater elevation man should be prepared for the Upper Aquifer above the			
							A groundwater elevation map should be prepared for the Upper Aquifer above the Corcoran Clay, as that is the only way one can determine the appropriate depth relationships			
						Constant Contant Name	between the surface water and the groundwater, which are needed to designate a GDE.			
						Groundwater Contour Maps-	Mixing shallow and deep wells, particularly when confined conditions may be present, can be			
						Interconnected Surface				
	The Nature					Interconnected Surface Waters/Groundwater-Dependent	misleading.			
005	The Nature Conservancy	SB	NC-021			Interconnected Surface Waters/Groundwater-Dependent Ecosystems		СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent		СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent		СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent		СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent	misleading.	СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent	Please state how ISWs and GDEs will benefit or be protected, or what other	СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent	Please state how ISWs and GDEs will benefit or be protected, or what other environmental benefits will accrue. Recharge ponds, reservoirs and	СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent	Please state how ISWs and GDEs will benefit or be protected, or what other	СР	MN	
005		SB	NC-021			Waters/Groundwater-Dependent	Please state how ISWs and GDEs will benefit or be protected, or what other environmental benefits will accrue. Recharge ponds, reservoirs and facilities for managed stormwater recharge can be designed to include elements that act functionally as wetlands and provide a benefit for wildlife and aquatic species. In some cases, such facilities have been incorporated into local HCPs, more fully recognizing the value of the	СР	MN	
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005	The Nature Conservancy Various Non-Profits		NC-022	MCR-11	1	Projects and Management Actions-Multiple Benefit/Interconnected Surface Waters/Groundwater-Dependent Ecosystems	Please state how ISWs and GDEs will benefit or be protected, or what other environmental benefits will accrue. Recharge ponds, reservoirs and facilities for managed stormwater recharge can be designed to include elements that act functionally as wetlands and provide a benefit for wildlife and aquatic species. In some cases, such facilities have been incorporated into local HCPs, more fully recognizing the value of the habitat that they provide and the species they support. For projects that will be constructing recharge ponds, please identify if there will be habitat value incorporated into the design and how the recharge ponds will be managed to benefit environmental users. "Beneficial users of groundwater in MKGSA include agricultural users, domestic well owners, municipal well operators, public water systems, local land use planning agencies, California Native American Tribes, disadvantaged communities, and entities engaged in monitoring and reporting groundwater elevations." DACs include "those served by private domestic wells or small community water systems (Water Code §10723.2(i)" The number and sizes of the public water systems within the MKGSA are not clearly described. The draft GSP used the DWR Mapping Tool to identify DACs. The GSP only clearly identified CA MCLs as a	PH PH	CP	
005	The Nature Conservancy Various Non-Profits Various Non-	DC	NC-022 NP-001	MCR-11	1	Projects and Management Actions- Multiple Benefit/Interconnected Surface Waters/Groundwater- Dependent Ecosystems Beneficial Users- Public Water Systems	Please state how ISWs and GDEs will benefit or be protected, or what other environmental benefits will accrue. Recharge ponds, reservoirs and facilities for managed stormwater recharge can be designed to include elements that act functionally as wetlands and provide a benefit for wildlife and quatic species. In some cases, such facilities have been incorporated into local HCPs, more fully recognizing the value of the habitat that they provide and the species they support. For projects that will be constructing recharge ponds, please identify if there will be habitat value incorporated into the design and how the recharge ponds will be managed to benefit environmental users. "Beneficial users of groundwater in MKGSA include agricultural users, domestic well owners, municipal well operators, public water systems, local land use planning agencies, California Native American Tribes, disadvantaged communities, and entities engaged in monitoring and reporting groundwater elevations." DACs include "those served by private domestic wells or small community water systems (Water Code §10723.2(i)" The number and sizes of the public water systems within the MKGSA are not clearly described. The draft GSP used the DWR Mapping Tool to identify DACs. The GSP only clearly identified CA MCLs as a source for developing MTs, while PHGs or Regional Water Quality Control Plan WQOs were not	PH PH	CP	
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005	The Nature Conservancy Various Non- Profits Various Non- Profits Various Non- Profits Various Non- Profits Various Non-	DC	NC-022 NP-001 NP-003	MCR-7	1 1 2 1	Projects and Management Actions- Multiple Benefit/Interconnected Surface Waters/Groundwater- Dependent Ecosystems Beneficial Users- Public Water Systems MCLs Beneficial Users- Environmental/Recreation	Please state how ISWs and GDEs will benefit or be protected, or what other environmental benefits will accrue. Recharge ponds, reservoirs and facilities for managed stormwater recharge can be designed to include elements that act functionally as wetlands and provide a benefit for wildlife and aquatic species. In some cases, such facilities have been incorporated into local HCPs, more fully recognizing the value of the habitat that they provide and the species they support. For projects that will be constructing recharge ponds, please identify if there will be habitat value incorporated into the design and how the recharge ponds will be managed to benefit environmental users. "Beneficial users of groundwater in MKGSA include agricultural users, domestic well owners, municipal well operators, public water systems, local land use planning agencies, California Native American Tribes, disadvantaged communities, and entities engaged in monitoring and reporting groundwater elevations." DACs include "those served by private domestic wells or small community water systems (Water Code §10723.2(i)" The number and sizes of the public water systems within the MKGSA are not clearly described. The draft GSP used the DWR Mapping Tool to Identify DACs. The GSP only clearly identified CA MCLs as a source for developing MTs, while PHGs or Regional Water Quality Control Plan WQOs were not considered in the assessment of drinking water users. The GSP should identify whether or not the following beneficial uses and users of groundwater in the subbasin are present: Protected Lands, including preserves, refuges, conservation areas, recreational areas; and other protected lands; and Public Trust Uses, including wildlife, aquatic habitat, fisheries, and The types and locations of environmental uses of surface waters that may be affected by groundwater extraction in the	PH PH PH PH	CP JT CP, MN	

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Figure 19 of Appendix 2a is titled "Potential Groundwater Dependent Ecosystems", however the figure does not actually present this. The NC dataset is a starting point for GSAs to identify GSA	PH PH SH PH	CP, MN
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Figure 4-3 (at the end of this Section) shows the current groundwater level monitoring wells in the MKGSA only, with aquifer designations if known." The map of existing monitoring wells for groundwater levels is included in the Appendix 2A. No map of existing water quality monitoring networks is found in Monitoring Network-Disadvantaged Various Non- Various Non- Various Non- Profits IS NP-014 Monitoring Network-Groundwater- Dependent Ecosystems The GSP does not include the identified DACs in the proposed monitoring network maps. The GSP does not include the identified GDEs in the proposed monitoring network maps. The GSP should include detailed information about the location and depths of domestic wells. Providing maps of the monitoring network overlaid with location of DACs, domestic wells, community water systems, GDEs, and any other sensitive beneficial users will allow the reader to evaluate the adequacy of the network to monitor conditions near these beneficial users. The original NC dataset should be mapped and the GSP should document which polygons were added	SH PH	
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Various Non- O06 Profits DC NP-015 1 Well inventory- Domestic systems, GDEs, and any other sensitive beneficial users will allow the reader to evaluate the adequacy of the network to monitor conditions near these beneficial users. The original NC dataset should be mapped and the GSP should document which polygons were added		
O06 Profits DC NP-015 1 Well inventory- Domestic the network to monitor conditions near these beneficial users. The original NC dataset should be mapped and the GSP should document which polygons were added		
The original NC dataset should be mapped and the GSP should document which polygons were added		
	PH	
(and what local sources were used to identify them), removed (and the removal reason), and kept		
(from the original NC dataset). TNC guidance on best practices should be used for the method to use		
local groundwater data to verify whether polygons in the NC dataset are supported by groundwater in an		
aquifer, in particular BMP #3, which emphasizes that GDEs should not be excluded due to partial reliance		
on surface water If insufficient data are available to describe groundwater conditions within or near		
polygons from the NC dataset, include those polygons in the GSP until data gaps are reconciled in the		
Various Non-		
006 Profits IS NP-016 MCR-8 2 Groundwater-Dependent Ecosystems monitoring programs are protective of GDEs, or propose additional monitoring that specifically targets	РН	CP, MN, PJ
The GSP should identify interconnected surface waters in the Basin by relying on groundwater		
elevation and stream gauge data, specifying any data gaps that exist so that they can be resolved in the		
Various Non-		
006 Profits IS NP-017 2 Interconnected Surface Waters nested/clustered wells) along surface water features in the Monitoring Network section of the GSP to	рн	CP, MN
15 INF-017 Zimterconnected surface Waters in the Work Section of the GSF to		CI , IVIIV
The demands by these sectors are stated to be included in the projected water budget,		
Various Non- however, the demand by each of these sectors is not specifically identified, since they are all included in		
006 Profits WB NP-018 3 Water Budget- Other Demands the "Other demand" by the GSP.	TN	
Please clarify what the term "phreatophyte extraction' means. The text states 'Phreatophyte extraction		
consists of removing vegetation in riparian areas to prevent consumptive water use." If phreatophytes		
were indeed removed from within the Subbasin, please provide further details. If phreatophyte		
extraction refers to the uptake of groundwater by phreatophytes, then correct this text. It should be		
Various Non- clearly stated if the phreatophytes are referring to GDE vegetation (riparian vegetation). Also the		
006 Profits WB NP-019 MCR-1 2 Phreatophyte Extraction reference is from 2007 and the acreage and ET estimation methodology may be outdated.	TN	PJ
Various Non- The GSP includes the projected agricultural demand but does not include a demand associated with		
006 Profits WB NP-020 3 Water Budget- Environmental native vegetation and/or wetlands.	ltn	
Various Non- Most water budget information is included in the appendices. The main GSP text could provide reference		
006 Profits OR NP-021 1 Internal Referencing or direction to the appendices where specific topics are discussed to assist readers navigate the	СР	
Various Non- Based on the data presented, it is not clear how climate change is expected to affect some specific		
006 Profits WB NP-022 3 Water Budget- Climate Change elements of the water budget (i.e., subsurface flows, surface water and groundwater outflows, including	I _{TN}	
The GSP also does not provide specifics on drinking water demands included for large urban water	114	
systems, domestic well users, or community water systems in the historical, current or future water		
Various Non- Water Budget-		
	TAI	
006 Profits WB NP-023 3 Domestic/Public/Municipal of the water budgets.	TN	
	TN	

		_							
						"MKGSA reviewed the "Natural Community Dataset Viewer" maps for the Kaweah Subbasin to evaluate			
						the possibility of whether groundwater dependent ecosystems could exist in the MKGSA management			
	Various Non-				Management Areas- Groundwater-	area. The mapping system identifies stream reaches supporting habitat that may rely on groundwater."			
006	Profits	MA	NP-025		2 Dependent Ecosystems	But no management areas are specifically defined to manage GDEs.	PH	СР	
						"As stated previously, the interconnection of surface water and groundwater was disrupted many			
						decades ago in the MKGSA. Therefore, a monitoring network and monitoring is not required for this GSA			
						(p. 4-14)." Data has not been presented to substantiate this statement. Per the GSP			
						Regulations (23 CCR §354.34 (a) and (b)), monitoring must address trends in groundwater and related			
						surface conditions (emphasis added). Groundwater level monitoring alone may be insufficient to			
						establish a linkage between groundwater extraction and potentially resulting impacts to environmental			
						resources associated with GDEs and ISWs. The cause-effect relationship between groundwater levels and			
						the biological responses that could result in significant and unreasonable impacts to ISWs and GDEs			
					Interconnected Surface	depends on a number of complicated factors, and this relationship is not characterized or discussed. As			
	Various Non-				Waters/Groundwater-Dependent	such, it is not possible to determine whether the proposed monitoring, minimum thresholds and			
006	Profits	ıs	NP-026	MCR-3	3 Ecosystems	measurable objectives are sufficiently protective to ensure significant and unreasonable impacts to GDEs	PH	CP, MN	
000	Various Non-	1.5	020	iner 5	Management Areas- Groundwater-	The GSP does not identify that any of the Management Areas are specifically defined to manage GDEs or			
006	Profits	MA	NP-027	MCR-12	3 Dependent Ecosystems	DACs.	рн	СР	
006	FIUILS	IVIA	INP-027	IVICK-12		DACS.	FII	Cr	
	N/ NI				Figures- Groundwater-Dependent				
	Various Non-				Ecosystems/Disadvantaged				
006	Profits	IS	NP-028	MCR-12	3 Communities	The GSP should include maps or information of what GDEs and DACs are in each Management Area.	РН	CP, MN, PJ	
					Monitoring Network- Groundwater				
	Various Non-				Dependent	If any gaps exist in the monitoring networks for GDEs and DACs, they should be clearly identified in the			
006	Profits	IS	NP-029	MCR-8	3 Ecosystems/Disadvantaged	GSP.	PH	CP, MN	
					Interconnected Surface	The GSP should provide additional analysis to back-up the conclusion that states "the interconnection of			
	Various Non-				Waters/Groundwater-Dependent	surface water and groundwater was disrupted many decades ago in the MKGSA", and add monitoring of			
006	Profits	lis	NP-030	MCR-3	3 Ecosystems	potential GDEs and at any locations where ISWs have been or were previously present.	РН	CP, MN	
000		15	111 030	IVICIT 5	3 2000 (0.00)	potential of 15 and at any resultant interest for the present of t			
						DACs are not explicitly identified for purposes of developing URs, MOs and MTs, but domestic well			
						users are discussed in terms of URs and MTs. "The potential effects of degraded water quality from			
						migrating plumes or other induced effects of GSA actions include those upon municipal, small community			
						and domestic well sites rendered unfit for potable supplies and associated uses, and/or the costs to treat			
	Variana Nara								
000	Various Non-	20			a Diagdy and a gold Communities	groundwater supplies at the well head or point of use so that they are compliant with state and federal	DI I		
006	Profits	DC	NP-031	MCR-17	3 Disadvantaged Communities	regulations."	PH		
					Undesirable Results- Interconnected	For chronic lowering of water level, the GSP Committee considered that one-third of the representative			
	Various Non-				Surface Waters/Groundwater-	monitoring sites (wells) exceeding minimum thresholds for water levels would constitute an undesirable			
006	Profits	IS	NP-032	MCR-4	3 Dependent Ecosystems	result. There appears to be no additional guidance to protect potential GDEs or ISWs.	PH	CP, MN	
						As noted above, an inventory of the vegetation types or habitat types and ranking of the vegetation			
						species as having a high, moderate or low value will provide rational for the statement that "the			
						intermittent nature of this vegetative habitat is such that its temporary loss does not rise to the level of			
						an undesirable result." There appears to be no consideration of undesirable results on			
						land uses that include and consider recreational uses (e.g. fishing/hunting, hiking, boating) and property			
						interests that include and consider privately and publicly protected conservation lands and open spaces,			
						including wildlife refuges, parks and natural preserves. The definition of 'significant			
						and unreasonable' is a qualitative statement that is used to describe when undesirable results would			
					Undesirable Results- Interconnected	occur in the basin, such that a minimum threshold can be quantified. Potential effects on all beneficial			
	Various Non-				Surface Waters/Groundwater-	users of groundwater in the basin need to be taken into consideration. According to the California			
006	Profits	IS	NP-033	MCR-9	3 Dependent Ecosystems/Recreation	Constitution Article X, §2, water resources in California must be "put to beneficial use to the fullest extent	PH	CP, MN	
				†	, , , , , , , , , , , , , , , , , , , ,	Based on the presented information, domestic well uses are considered under URs and for the			
						development of water level MOS and MTs, such as the statistical summary of well impact analysis for			
						domestic wells, but DAC members are not explicitly considered. More detail and specifics regarding DAC			
	l.,,		Ī		Undesirable Results- Disadvantaged				
1	\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				TOTOPSITADIE KESUITS- DISAGVANTAGEG	members, including those that rely on smaller community drinking water systems, not only domestic	ĺ	i	
000	Various Non-		NID OC.				ا ۔	1	
006	Profits	DC	NP-034		3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered.	PH		
	Profits Various Non-	DC			3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not	PH		
006	Profits	DC GL		MCR-2		wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA.	PH PH	CP, TN	
	Profits Various Non-	DC GL		MCR-2	3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not	PH PH	CP, TN	
	Profits Various Non-	DC GL		MCR-2	3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA.	PH PH	CP, TN	
	Profits Various Non-	DC GL		MCR-2	3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results	PH PH	CP, TN	
	Profits Various Non-	DC GL		MCR-2	3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for	PH PH	CP, TN	
	Profits Various Non-	DC GL		MCR-2	3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater	PH PH	CP, TN	
	Profits Various Non- Profits	DC GL		MCR-2	3 Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater	PH PH	CP, TN	
006	Profits Various Non- Profits Various Non-	DC GL	NP-035		3 Communities 2 Minimum Thresholds- Water Levels	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level	PH		
	Profits Various Non- Profits Various Non- Profits	DC GL	NP-035	MCR-2	2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and	PH PH	CP, TN	
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006	Profits Various Non- Profits Various Non- Profits Various Non- Profits	GL	NP-035 NP-036 NP-037		2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels Undesirable Results- Disadvantaged Communities	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and The trigger for undesirable results (1/2) of wells in all the management zones impacted) creates the potential for disproportionate impacts to disadvantaged communities; those impacts should be assessed.	PH PH PH CM		
006 006	Profits Various Non-	GL GL DC	NP-035 NP-036 NP-037	MCR-13	2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels Undesirable Results- Disadvantaged Communities Public Outreach- Disadvantaged	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and The trigger for undesirable results (¾ of wells in all the management zones impacted) creates the potential for disproportionate impacts to disadvantaged communities; those impacts should be assessed. The GSP should also discuss whether and how input from DAC members was considered and			
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006 006 006	Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits	GL GL DC	NP-035 NP-036 NP-037 NP-038	MCR-13	2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels Undesirable Results- Disadvantaged Communities Public Outreach- Disadvantaged Communities Measurable Objectives- Interconnected Surface	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in orth Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and The trigger for undesirable results (½ of wells in all the management zones impacted) creates the potential for disproportionate impacts to disadvantaged communities; those impacts should be assessed. The GSP should also discuss whether and how input from DAC members was considered and incorporated into the development of URs, MOs, and MTs. The GSP should explain how the measurable objectives will help achieve the sustainability goal as it pertains to the environment. After GDEs and ISWs are identified, please discuss if any impacts to GDEs or	СМ	CP,TN	
006 006	Profits Various Non- Profits Various Non- Profits Various Non- Profits Various Non- Profits	GL GL DC	NP-035 NP-036 NP-037 NP-038	MCR-13	2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels Undesirable Results- Disadvantaged Communities Public Outreach- Disadvantaged 1 Communities Measurable Objectives-	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and The trigger for undesirable results (½ of wells in all the management zones impacted) creates the potential for disproportionate impacts to disadvantaged communities; those impacts should be assessed. The GSP should also discuss whether and how input from DAC members was considered and incorporated into the development of URs, MOs, and MTs. The GSP should explain how the measurable objectives will help achieve the sustainability goal as it pertains to the environment. After GDEs and ISWs are identified, please discuss if any impacts to GDEs or ISWs are expected. Data gaps should be noted and addressed in the Monitoring section.			
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006 006 006	Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits	GL GL DC	NP-035 NP-036 NP-037 NP-038 NP-039	MCR-13 MCR-22 MCR-7	2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels Undesirable Results- Disadvantaged Communities Public Outreach- Disadvantaged 1 Communities Measurable Objectives- Interconnected Surface 2 Waters/Groundwater-Dependent	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and The trigger for undesirable results (⅓ of wells in all the management zones impacted) creates the potential for disproportionate impacts to disadvantaged communities; those impacts should be assessed. The GSP should also discuss whether and how input from DAC members was considered and incorporated into the development of URs, MOs, and MTs. The GSP should explain how the measurable objectives will help achieve the sustainability goal as it pertains to the environment. After GDEs and ISWs are identified, please discuss if any impacts to GDEs or ISWs are expected. Data gaps should be noted and addressed in the Monitoring section. The GSP should specifically cite "periodic comparisons of surface water elevations and flow rate depletion in applicable stream channels and adjacent groundwater" as a data gap and further address in	СМ	CP,TN CP, MN	
006 006 006	Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits Various Non-Profits	GL GL DC	NP-035 NP-036 NP-037 NP-038 NP-039	MCR-13	2 Minimum Thresholds- Water Levels 2 Minimum Thresholds- Water Levels Undesirable Results- Disadvantaged Communities Public Outreach- Disadvantaged Communities Measurable Objectives- Interconnected Surface	wells, is necessary to demonstrate that these beneficial users were adequately considered. The draft GSP identifies MTs for both hydrogeologic zones and for individual well points, but does not clearly explain which set of MTs will be applied through the implementation phase of SGMA. The approach of setting MOs and MTs based on a continued projected declining water level trend results in MOs and MTs that are significantly lower than current water levels, and those experienced during the drought. The MTs in some areas are nearly 200 feet below current water levels. For example, the MT for well KSB-1071, located near the community of Okieville, is over 170 feet below current groundwater levels and the MT at well KSB-1628, located in north Tulare, is over 190 feet below current groundwater levels. The GSP should provide maps and information clearly identifying the expected water level declines to both the MOs and MTs, and assess the effects it will have on specific areas and The trigger for undesirable results (1/3 of wells in all the management zones impacted) creates the potential for disproportionate impacts to disadvantaged communities; those impacts should be assessed. The GSP should also discuss whether and how input from DAC members was considered and incorporated into the development of URs, MOs, and MTs. The GSP should explain how the measurable objectives will help achieve the sustainability goal as it pertains to the environment. After GDEs and ISWs are identified, please discuss if any impacts to GDEs or ISWs are expected. Data gaps should be noted and addressed in the Monitoring section. The GSP should specifically cite "periodic comparisons of surface water elevations and flow rate	СМ	CP,TN	

							After the identification and evaluation of potential GDEs is completed, this section should discuss			
							impacts to those GDEs . Specifically, the GSP should: (1) discuss how this undesirable result can be used			
							to avoid impacts to GDEs or ISWs; (2) describe how impacts to these types of properties will be avoided;			
							(3) provide more specifics on what biological responses (e.g., extent of habitat, growth, recruitment			
							rates) would best characterize a significant and unreasonable impact to GDEs; and (4) identify			
	Various Non-						appropriate biological indicators that can be used to monitor potential impacts to environmental			
006	Profits	IS	NP-041		2 Gro	oundwater-Dependent Ecosystems	beneficial users due to groundwater conditions.	РН	CP, MN	
	1 1 0 1 1 0 1		0.12				A brief description of a project benefit to one DAC is provided in the GSP, but not discussed in detail . A		,	
							discussion should be added for each project or management action to clearly identify the benefits to DAC			
							drinking water users and potential impacts to the water supply. For all potential impacts, the			
							project/management action should include a clear plan to monitor for, prevent, and/or mitigate against			
	Various Non-				Droi	picets and Management Actions	such impacts. The GSP should identify additional actions and funding mechanisms for potential failures of			
000		D0.4	ND 042	NACD 44	_	pjects and Management Actions-		DII	CD	
006	Profits	PM	NP-042	MCR-11	2 Disa	advantaged Communities	achieving the MOs by the identified actions.	PH	CP	
							An assistance program for small water systems and domestic wells is described, but does not include an assessment of costs or a funding mechanism or clear plan of implementation. This program is			
							described because the acknowledged impacts the proposed water level MTs will have on these beneficial			
							users. Such a program needs to be robust and proactive, rather than reactive, so that clean and safe			
	Various Non-				Don	mestic Wells/Small Water Systems	drinking water is available to these users without interruption as water levels decline. It is critical that a			
006	Profits	DC	NP-043	MCR-14	2 Assi	sistance Program	funding mechanism be identified and implemented to ensure that this program is successful.	PH		
						erconnected Surface				
	Various Non-					aters/Groundwater-Dependent	The GSP should state how ISWs and GDEs will benefit or be protected, or what other environmental			
006	Profits	ıs	NP-044	MCR-7		osystems	benefits will accrue.	PH	CP, MN	
	Various Non-					pjects and Management Actions-	The GSP should also identify if there will be habitat value incorporated into the design of projects and			
006	Profits	PM	NP-045	MCR-11		ultiple Benefit/Environmental	how the recharge ponds will be managed to benefit environmental users.	PH		
555			111 043	CIV II	Zividi	pro Denong Environmental	There did not appear to be much information or discussion on declining groundwater levels. As this is one	111		
							of the primary issues the Sustainable Groundwater Management Act (SGMA) was developed to address,			
	Kings County						it seems that this historic information should be central and flow to what will be undertaken by the MK			
007	Kings County Water District		VC 001		4 0	oundwater Loyela	GSA to address the declines.	CD	TNI	
007	vvater District	GL	KC-001		1 Gro	oundwater Levels		LP CP	TN	
	Kin == C						There did not appear to be a discussion of historic groundwater flow directions and whether recent			
0.5-	Kings County						groundwater flow directions are a departure from historic norms. This would seem critical to any			
007	Water District	НМ	KC-002		2 Gro	oundwater Inflows/Outflows	evaluation of groundwater flows across GSA or Subbasin boundaries.	TN		
							There did not appear to be any discussion or evaluation of the lack of Friant Division CVP surface water			
	Kings County						deliveries in Water Yeats 2014 or 2015 and how that unique changed condition impacted local			
007	Water District	WR	KC-003		2 CVP	P Deliveries- Drought	groundwater levels, groundwater storage or subsidence.	PH	AF	
	Kings County						The District did not find any information or estimate of groundwater pumping in the MK GSA that is being			
007	Water District	AL	KC-004		2 Extr	raction across Subbasin Boundary	used outside of the MK GSA area by landowners that have ranches that cross GSA or Subbasin boundaries.	PH		
	Kings County				T		The Executive Summary appears to be a placeholder and does not seem to be developed enough or meet			
007	Water District	GE	KC-005		1 Exe	ecutive Summary	DWR requirements about helping laymen.	СР		
							There is a listing of how the Sustainability Goal will be achieved, which includes this statement "			
							Application of the Kaweah Subbasin Hydrologic Model (KSHM) - incorporating the- initial selection of			
							projects and management actions by the Subbasin GSAs - and its simulation output is summarized in the			
							Subbasin Coordination Agreement to help explain how the sustainability goal is to be achieved within 20			
	Kings County						years of GSP implementation." The District views that the referenced simulation is only an indication of			
007	Water District	нм	KC-006		2 Hvd	drogeologic Modeling	what may result if certain actions are taken. Please consider revising.	TN		
					2,.,,	<u> </u>	,			
							includes this statement "Given assumed hydrogeologic parameters of the Subbasin, direct correlations			
							exist between changes in water levels and estimated changes in groundwater storage. "The District views			
							that this statement is misleading. In order to relate groundwater levels to change in storage, many			
							significant regional assumptions must be made to develop the estimates. The District views that a reliable			
							correlation can only be developed with significantly more information about local aquifer properties than			
							is currently available. Also, this statement ignores the reality that some groundwater amounts may be			
	Vings County				 	desirable Possilte Cravadurater				
007	Kings County		W0 00=	NACE 1-		desirable Results- Groundwater	somewhat bound in formations while other amounts may be more available for extraction. Please			
007	Water District	G S	KC-007	MCR-15	2 Stor	orage	consider revising.	LCP		
							[3.2.1.3 - Land Subsidence, page 3-4] The section does not mention the connection between subsidence			
	Kings County						and dewatering saturated clay formations. This could lead to the misunderstanding that subsidence can			
007	Water District	LS	KC-008		2 Und	desirable Results- Land Subsidence	occur everywhere that groundwater levels fall below minimum thresholds. Please consider revising.	MN		
							includes this statement, " Undesirable results associated with water quality degradation can result from			
							pumping localities and rates, as well as other induced effects by implementation of a GSP, such that			
	Kings County				Unc	desirable Results- Degraded Water	known migration plumes and contaminant concentrations are threatening production well viability are			
007	Water District	wq	KC-009		2 Qua	J. Contract of the contract of	causes of Undesirable results. " This statement is very confusing. Please revise to clarify.	SH	JΤ	
							includes this statement, " Well production depths too may draw out contaminated groundwater, both			
							from naturally occurring and man-made constituents which, if MCLs are exceeded, may engender			
							Undesirable results. " Many local geologic formations contain aquifers with naturally concurring			
							substances like Arsenic and Uranium. The District views that groundwater quality issues relating to local			
	Kings County				line	desirable Results- Degraded Water	geologic properties, regardless of State MCLs, cannot be viewed as contamination or indicators of			
007	Water District	WO	KC-010		2 Qua	_	Undesirable Results. Please consider revising.	СП	IT	
007	Water District	VVQ	IVC-010		Z Qua	uncy	Officestrable Results. Fiedse Consider Tevising.	311	J 1	

							includes this statement, "Depletions of interconnected surface waters are minimal and, to the extent			
							they occur, impact only vegetation along the banks of unlined channels within the forebay regions of the			
							aquifer system where natural channels exhibit gaining reaches from time to time. " The District views			
	Kings County						that depletions of interconnected surface water would also negatively impact deliveries of surface water			
007	Water District	IS	KC-011	MCR-16	2 1	Interconnected Surface Waters	to right holders due to the increased losses to groundwater. Please consider revising.	РН	CP, MN	
			1.00==		_		includes this statement, "With respect to water-level declines, undesirable results occur when one-third		,	
							of the representative monitoring sites in all three GSA jurisdictions combined exceed their respective			
							minimum threshold water level elevations. Should this occur, a determination shall be made of the then-			
							current GSA water budgets and resulting indications of net reduction in storage. Similar determinations			
							shall be made of adjacent GSA water budgets in neighboring subbasins to ascertain the causes for the			
							occurrence of the undesirable result. " This approach, depending on implementation, would appear to be			
							detrimental to areas that rely on groundwater recharge during wet years to justify needed pumping in			
							dry years. For instance, an area that has no available surface water in a drought year would be viewed			
	Kings County				ι	Undesirable Results- Groundwater	differently than one that had a little available if only the water budget for the one year was involved in			
007	Water District	GL	KC-012		2 L	Levels	the evaluation. Please consider revising.	СР	TN	
	Kings County				l	Undesirable Results- Groundwater	contains a statement about there being a direct relationship between change in storage and			
007	Water District	GS	KC-013	MCR-15	2 5	Storage	groundwater levels. Please see the District's previous comment on Section 3.2.1.2. Please consider	СР		
							The District would view that reduced groundwater storage also impacts beneficial users by reducing the			
	Kings County				ι	Undesirable Results- Groundwater	amount of supply potentially available during a drought (when very little surface water is available for			
007	Water District	GS	KC-014		· ·	Storage	existing uses). This section does not seem to address this potential effect. Please consider revising.	CP		
007	Water Bistrict	03	KC 014		2 0	, toruge	The District would view that continued land subsidence would also increase the flood risks to residents	Ci		
	Vings County									
007	Kings County		W0 04-].	Hadasirahla Basulta Land Culutturu	and critical facilities (hospitals, prisons, domestic and municipal wells, etc.) in and around flood zones.	N 4 N I		
007	Water District	LS	KC-015		1 (Undesirable Results- Land Subsidence	Please consider revising.	MN		
							The District would view the following as additional data gaps: 1) aquifer characteristics to inform the			
							assumptions currently being made, 2) well construction information for many existing wells and related			
							information on how much water is being pumped in the confined aquifer versus the unconfined aquifer ,			
							3) direct measurements of the amount of groundwater being pumped in agricultural areas, 4)			
							information on bound versus more recoverable groundwater, 5) more accurate information on the base			
	Kings County				Г	Data Gaps- Groundwater	of fresh groundwater across the subbasin, 6) information to validate or criticize the HCM and aquifer			
007	Water District	НМ	KC-016			Levels/Groundwater Storage	descriptions from recent SkyTEM efforts. Please consider revising.	TN		
30,					3 1	,	The District would view the following as additional data gaps: 1) regionally, there is very little data on			
							water quality at specific depths because of current well construction (screens across hundreds of feet), 2)			
	Kings Count						The groundwater quality of many rural residential home owners is not understood by local GSAs. Please	1		
	Kings County					D				
007	Water District	wq	KC-017		3 L	Data Gaps- Water Quality	consider revising.	SH	JI	
							The District would view the following as additional data gaps: 1) there is almost no information on what			
							geologic zone is subsiding in this area, 2) the number of well compression failures, 3) the impact of			
	Kings County						subsidence to local flood zones, and 4) if land subsidence has any correlation to groundwater quality.			
007	Water District	LS	KC-018		3 [Data Gaps- Land Subsidence	Please consider revising.	MN		
							As noted in the draft GSP, there are a number of significant management actions to be undertaken by the			
							affected parties in the coming years to implement the plan. In particular, the development of the			
							pumping allocation program, refinement of the Water Accounting Framework, and the cost allocation			
	California						process for basin-wide management and project implementation activities will require significant			
	Water Service						coordination among and input from the impacted parties. Cal Water looks forward to being a direct			
000		CE	CW 001		1 (Conoral	participant in the management of the GSA as we ensure the sustainable management of the Kaweah	CD		
800	Company	GE	CW-001		10	General	participant in the management of the GSA as we ensure the sustainable management of the kawean	CP		
							Leave at the three court NA MCCA Court I store Control 199. Physical control to the court I but follows			
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						I would like to see better computerized graphics. Use the well log data from cities, public water agencies		
009	Richard Garcia	GL	RG-003		1 Groundwater Level Modeling	and public schools to create the dynamic 3D models that will show the public how bad reality is.	СР	TN
						In order to develop a GSP that addresses the needs of all beneficial users, it is critical that the location		
						and groundwater needs of these communities are explicitly addressed early on in the GSP. In order to		
						improve this section, we recommend the following: Include a map indicating the location of		
						public water systems serving SDACs and/or DACs as well as domestic well communities. In order to		
						contextualize the subsequent sections of the GSP, it is critical that the geographic locations of these		
						communities be included. <i>Maps overlaying the location of these communities</i> should also be included in		
						subsequent sections of the GSP, including but not limited to when describing management areas,		
						threshold regions, or potential recharge locations. Include a description of the amount of		
						groundwater that each public water system serving SDACs and DACs is dependent on. In addition to		
	Self-Help					better quantify groundwater usage by each community, include a description of the amount of domestic		
010	Enterprises	DC	SH-001	MCR-17	2 Well Inventory- Domestic/Public	wells located within the MKGSA and the estimated amount of total groundwater used by domestic well	PH	СР
						Public Engagement, when done well, goes far beyond the usual participants to include those members of		
						the community whose voices have traditionally been left out of political and policy debates . (DWR.		
						(2018) Stakeholder Communication and Engagement). It invites citizens to get involved in deliberation,		
						dialogue, and action on public issues that are important to them. More importantly, it helps leaders and		
						decision-makers have a better understanding of the perspectives, opinions, and concerns of citizens and		
						stakeholders, especially the underrepresented ones. This section of the GSP is generally in accordance		
						with SGMA regulations and adequately captures beneficial uses and users of groundwater. Please		
						consider the following recommendations to ensure more effective public engagement: Within		
						the GSP include a high level summary of strategies included in the plan. The draft GSP currently only		
						mentioned plan goals and requirements and would benefit from a more expanded description.		
						Revise Section 1.5.2 to include water supply for Soults Tract, Lone Oak Tract, and the water systems of		
						Waukena Elementary, Buena Vista, Oak Valley and Liberty School. Provide more information		
						about stakeholder input and responses from the GSA to address the stakeholder input.		
						Account for S/DAC outreach, engagement and translation services when applying for state funding,		
						establishing and approving operating budgets and enacting groundwater fees: In order to ensure		
						proper engagement of underrepresented groundwater users or the next 20 years of GSP implementation,		
						(disadvantaged communities, residents relying on domestic wells and other Spanish speaking users),		
						MKGSA should account for S/DAC outreach, engagement and translation services when applying for state		
						funding, establishing and approving operating budgets and enacting groundwater fees. The GSA should		
						hire qualified consultants who have a record of proven demonstrated success and clear qualifications for		
						working with thesestakeholders. Effective community outreach and engagement includes, but is not		
	Self-Help				Public Outreach- Disadvantaged	limited to, conducting direct community outreach, hosting local community meetings, providing bilingual		
010	Enterprises	PO	SH-002	MCR-22	1 Communities	information, and making interpreting services available at meetings and workshops.	CM	
						The current draft GSP provides limited information regarding how communication and updates related		
						Plan implementation will take place and how this will be accomplished. Please consider the following		
						suggestions: Utilize existing community venues for community meetings, workshops and		
						events to provide information. For example, consider conducting short presentations during water board		
						and school district board meetings. Venues should be carefully selected in order to meet the needs of the		
						targeted audience. Identify community social media (Facebook, Instagram, etc.) groups,		
						pages and websites and post information. Continue to develop media advisories, press releases and work		
						with local media outlets, such as local radio stations, television stations, and local newspapers to		
						captivate a broader audience that are not being reached via the electronic-based outreach currently		
						used. Identify, and work with key community leaders /trusted messengers to distribute		
						information and encourage community participation. Provide bilingual (English and		
						Spanish) information and materials on the website, via email and consider inserting short notices (notices		
						can include key messages, visuals and information that is relevant to the average water user) in water		
						bills and/or community newsletters. At a minimum, this information should be provided during plan		
						updates, and prior to critical decisions. In particular, the draft GSP released during the formal comment		
						period should include materials highlighting key summaries of the GSP. Critical decision points can also		
						include the adoption of groundwater fees, development and adoption of the potential Assistance		
	Calfillation					Program as well as the Groundwater Allocation Framework, and the Pumping Restriction Program.		
010	Self-Help	200	CLL 002	MACD 33	1 Dublic Outross	Partner with other educational programs to leverage resources and explore opportunities to	CNA	
010	Enterprises	PU	SH-003	MCR-23	1 Public Outreach	educate different generational groups.	 CM	
						The GSP basin setting requirements are intended to describe the hydrological and groundwater historical		
						changes that have affected the six sustainability indicators. Ultimately, this information is intended to		
						document conditions and quantify the water budget in sufficient detail in order to build local		
						understanding of how it will be used to predict how these same variables may affect or guide future		
						management actions . (DWR, 2016. Best Management Practices for the Sustainable Management of		
						Groundwater, Modeling (BMP #5), December 2016.) The <i>current GSP draft does not include information</i>		
						about local groundwater conditions for MKGSA, yet it encourages the reader to review Appendix 2A to		
						understand the hydrogeologic and groundwater conditions within the context of the entire Subbasin.		
						However, <i>Appendix 2A is not specific to the MKGSA area</i> and it is difficult to readily understand what		
						parts of this assessment are specifically applicable to the MKGSA. Moreover, the <i>lack of a summary</i>		
						highlighting the main conditions affecting groundwater use and users within MKGSA boundaries		
						creates a challenge in understanding how the data will be further utilized in other sections of the GSP. It		
						is therefore recommended to: Include specific information of the Basin Setting and trends within		
						the MKGSA area, in particular as it pertains to the groundwater conditions in section 2 of the GSP.		
						Providing context of local challenges in a single section within the Mid-Kaweah GSP draft GSP would		
	Self-Help					improve the ability of the public to evaluate the basin setting assumptions for reasonableness and		
010	· ·	SB	SH-004		1 Kaweah Subbasin Characteristics	completeness to prevent and mitigate for undesirable results.	СР	TN
310		135	J511 00 4			55p. 213oo to p. e. e. a.		

							In order to better depict the hydrogeologic considerations for vulnerable groundwater users, we recommend the following changes: Summarize and highlight important information for the			
							MKGSA from Appendix 2A. Include a description of how groundwater quality considerations also			
							impact the potential of recharge suitability under the description of Potential Recharge Areas.			
	0.151					l.,	Include the location of SDACs and DACs and domestic wells in Figure 16 and 18 of Appendix 2A. By adding			
	Self-Help				_	Hydrogeologic	the spatial distribution of communities, stakeholders will be better able to assess which of these			
010	Enterprises	DC	SH-005	MCR-17	1	Modeling/Disadvantaged Communities	communities could benefit from future recharge projects.	PH	СР	
							SHE strongly encourages that the Groundwater Conditions section be improved in order to better achieve			
							the objectives described in the GSP regulations and be more aligned with the guidance provided in DWR's			
							GSP Emergency Regulations Guide. In particular, it is of utmost importance that information specific to			
							the MKGSA area from Appendix 2A is discussed in this section, and that data regarding the water			
							issues affecting groundwater sources of S/DACs and households relying on domestic wells is improved.			
							As part of GSP Regulations Section §355.4, DWR is required to evaluate whether the interests			
							of the beneficial uses and users of groundwater in the basin, as well as the land uses and property			
							interests potentially affected by the use of groundwater in the basin, have been considered DWR. January			
							2018. Guidance Document for Groundwater Sustainability Plan Stakeholder Communication and Engagement. S/DACs and rural families relying on shallow domestic wells are extremely vulnerable to			
							changes in groundwater conditions. As such, impacts to their drinking water sources caused by changes in			
							groundwater levels, plume migration, increased degradation of groundwater quality, and subsidence			
							should not be overlooked and these impacts deserve a more in-depth evaluation. A description of the			
							current issues affecting these vulnerable users is key to demonstrating that the MKGSA is taking proactive			
							actions to protect their human right to water. Without adequate characterization of current and historic			
							challenges that communities dependent on groundwater face, MKGSA will not be able to effectively plan			
	Self-Help					Water Quality/Disadvantaged	to quantify or avoid potential impacts related to groundwater management. Specific recommendations			
010	Enterprises	DC	SH-006			Communities	on how this section can be improved are provided in the forthcoming sections.	PH		
010	Litterprises	DC	311 000			Communica	onanges in ground nation elevation our result in significant in pacts to various asia communities, including			
							increased energy costs associated with additional lift pump costs; costs associated with cleaning of the			
							well screen; cost of lowering well pumps; costs of drilling deeper wells; complete dewatering of wells;			
							movement of contaminant plumes; and the financial, emotional, and physical costs associated with			
							having to rely on bottled water. This section can be improved by including a description of the			
							groundwater level conditions in and around S/DACs and by showing whether changing groundwater			
							levels in these communities have led to dry wells or a decrease in water production. SHE recommends the following changes: Include information of the groundwater conditions and trends that			
							the following changes: Include information of the groundwater conditions and trends that are specific to the MKGSA area from Appendix 2A. Identify communities burdened by or			
							susceptible to changes in groundwater levels. S/DACs and domestic well owners are extremely vulnerable			
							to changes in groundwater levels. Therefore, it is imperative that the GSP properly identify vulnerable			
							communities that have a higher risk of being affected by changes in groundwater levels to understand:			
							(1) where drinking water wells that are more vulnerable to groundwater level changes are located, and			
							(2) whether changes in groundwater levels may be exacerbated in specific areas by pumping volume or			
							location, conjunctive management or other forms of active management as part of GSP implementation.			
							Based on the Focused Technical Analysis and extensive work with S/DACs, we believe that the following			
							communities are susceptible to changes in groundwater levels with the risk of having their water access			
							impaired: -Okieville-Highland Acres: The community of Okieville-Highland Acres consists of			
							approximately 100 homes located in Tulare County, five miles west of the City of Tulare. An unknown			
							number of private wells which serve the remaining 20 homes not connected to the recently constructed			
							water system (based on 3.76 people per household4, the population is assumed to be 76) are susceptible			
							to changes in groundwater levels and at risk of having their water access impacted. The depth of these			
							wells are unknown, but typical domestic wells in the area are drilled to a depth of 130 to 225 feet. More			
							recent domestic wells have been drilled to a depth of 360 feet in a preventive effort to declining			
							groundwater levelsWaukena: A severely disadvantaged private well community with a			
							population of 175 residents. Private well communities face unique challenges and are more susceptible			
							than most community water systems to changes in groundwater conditions, drought impacts, and water			
	Self-Help					Groundwater Levels/Disadvantaged	quality concerns. This is primarily due to the shallow nature of most private wells. -High			
010	Enterprises	DC	SH-007	MCR-13	2	Communities	density of domestic wells northwest of the City of Tulare: Similar to other private well communities,	PH	CP, TN	

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portal, the water system of Buena Vista School has fluctuated in and out of compliance for Nitrates. The							
water system of Waukena Elementary School has been in and out of compliance for Uranium and		· · · · · · · · · · · · · · · · · · ·					
Nitrates. The water system for Oak Valley School has also been in and out of compliance for Arsenic.		· · · · · · · · · · · · · · · · · · ·					
Moreover, the water well recently drilled for Okieville only found water that meets primary water quality		· · · · · · · · · · · · · · · · · · ·					
standards at the depth range between 894 ft to 1005 ft. Water depth less than 894 ft exceeds MCLs for							
Arsenic and Aluminium. Furthermore, SHE recommends providing a summary of the information		·					
regarding water quality for the City of Visalia and Tulare, including the city-wide PCE plume in Visalia.		· · · · · ·					
Self-Help Include an assessment of current 10-year average concentrations of contaminants of concern.			~			•	
1010 Enterprises DC ISU 010 2 Demostic/Bublic/Municipal	PH	The mans denicting current groundwater quality conditions in Annendix 2-F only include individual	3 Domestic/Public/Municipal	SH-010	DC	Enterprises	010

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							The proposed three management areas consist of the respective jurisdictional areas of MKGSA's three
							Members, i.e., the City of Visalia, City of Tulare, and the Tulare Irrigation District. Our main concern is
							that the current proposal for management areas and threshold regions has limited consideration for
							vulnerable communities dependent on groundwater and does not adequately describe how the area
							will operate under different minimum thresholds. We recommend the following changes:
							Revise the description of the management areas to describe the S/DACs and number of domestic well
							users within each boundary. As described in the draft GSP, management areas are responsible for
							implementing projects and management actions within their area. Without a clear understanding of the
							S/DACs and domestic well users within the management area boundaries, the current draft GSP does not
							adequately describe conditions in these areas as required by Reg 354.20. Consider
							developing management areas or threshold regions around vulnerable communities. Vulnerable
							communities within the MKGSA do not have access to surface water and are dependent on groundwater.
							In order to develop more protective thresholds for vulnerable communities, it would be important to
							consider developing a protective buffer, management area, or threshold region around them. This
							recommendation can also be considered under projects and management actions. Key communities that
							could benefit of such protection include Okieville and Waukena and the water systems serving Waukena
							Elementary, Buena Vista, Oak Valley and Liberty School. Revise the description of the
							Monitoring and Analysis to better describe how the management areas will operate to avoid undesirable
							results. As currently drafted, the description of management areas could be improved by better clarifying
							how the different management areas can operate under different minimum thresholds and measurable
							objectives without causing undesirable results. The chart indicates which threshold regions are within
							each management area, but there is no description of how each management area will address the
							different water surface elevation conditions. Since S/DACs and domestic well users are the most
	Self-Help					Management Areas/Disadvantaged	vulnerable beneficial users within the MKGSA, it is important to clearly indicate how undesirable results
010	Enterprises	MA	SH-011	MCR-12	2	Communities	will be avoided.
							groundwater for industry uses, which does not satisfy SGMA's intention, and does not reflect the
							collaborative stakeholder-driven process that took place over the course of several MKGSA Advisory
							Committee and Kaweah Subbasin Management Team meetings. Beginning in November 2018 and
							continuing over the course of several meetings, the MK Advisory Committee spent a great deal of time
							discussing what should and should not be included in the Sustainability Goal statement. While
							perspectives were varied, there was general support among committee members to set a Sustainability
							Goal that includes a protective stance toward groundwater quality. SHE would like to see more proactive
							steps taken to improve groundwater quality and tools necessary. This needs to be clearly stated in the
							language in the MKGSA final draft. Including human consumption in the language will make the
							statement stronger and demonstrate to residents they their water needs are a priority. Water quality is
							another important component to strengthening the Sustainability Goal. This will help the GSP meet
							SGMA standards. SGMA further requires a transparent and inclusive process; therefore it is critical that
							all GSAs within the subbasin respect guidance and recommendations previously provided by various
							stakeholders. Revising the sustainability goal without proper explanation or discussion with the public is
							not appropriate nor is it in accordance with SGMA. Additionally, upon reviewing the draft GSP,
							community participants at a SHE workshop in Okieville brought attention to the lack of mentioning the
							need for drinking water in the proposed GSP's Sustainability Goal. At the workshop, participants were
							provided information about SGMA, their local GSA and presented general information about the draft
							GSP. Participants were asked to share their vision for sustainability and provide recommendations for
							what should be included in the Subbasin's sustainability goal. Participants primary question if agricultural
							enterprises should be prioritized over human consumption. Other feedback provided at the workshop
							included the importance of ensuring preserving drinking water supplies and addressing groundwater
							quality. Based on participants' feedback and SHE involvement at several MKGSA Advisory Committee
							quality. Based on participants' feedback and SHE involvement at several MKGSA Advisory Committee meetings and Kaweah Subbasin Management Team meetings where sustainability goal for Kaweah were
							quality. Based on participants' feedback and SHE involvement at several MKGSA Advisory Committee meetings and Kaweah Subbasin Management Team meetings where sustainability goal for Kaweah were discussed, SHE recommends considering the revision of the current Sustainability Goal in order to fully
							quality. Based on participants' feedback and SHE involvement at several MKGSA Advisory Committee meetings and Kaweah Subbasin Management Team meetings where sustainability goal for Kaweah were discussed, SHE recommends considering the revision of the current Sustainability Goal in order to fully integrate stakeholders' vision for groundwater management. We recommend the following:
010	Self-Help Enterprises	WQ	SH-012	MCR-7		Sustainability Goal/Water Quality	quality. Based on participants' feedback and SHE involvement at several MKGSA Advisory Committee meetings and Kaweah Subbasin Management Team meetings where sustainability goal for Kaweah were discussed, SHE recommends considering the revision of the current Sustainability Goal in order to fully

								potential significant impacts to public water systems and domestic wells. As expressed by our			
								organizations during MKGSA meetings, the current GSP does not adequately consider the groundwater			
								impacts that may affect the supply and beneficial uses of groundwater as required by GSP Regulations			
								Section 354.16. Additionally, during the previously mentioned community GSP review			
								workshops, participants were asked to share their opinions and provide recommendations for what			
								should be included in the Subbasin's sustainable management criteria. Participants were concerned with			
								the proposed MT/MOs and what it could mean to their access to water. Feedback provided at the			
								workshop included ensuring preserving drinking water supplies and addressing groundwater quality.			
								Though we are pleased that MKGSA is considering providing assistance to small-system and			
								domestic well owners without the financial wherewithal to service or replace their pump and well			
								facilities, particularly those that provide potable water, we would like to highlight the following concerns			
								and recommendations: Conflicting information: The draft GSP presents			
								water level MTs by: (1) hydrogeologic zones that reportedly share similar groundwater conditions and			
								hydrogeologic behavior (Table 5-2); and (2) by Representative Monitoring Wells (RMWs) (Table 5-3).			
								According to the draft GSP, the hydrogeologic zone MTs are based on the average of the RMW MTs for a			
								particular area. As stated in Section 5.3.1.3, "Consistent with this requirement, the minimum elevation			
								thresholds in this Plan are set at specific levels based on four different hydrogeologic zones as defined			
								herein." However, well impact analyses are performed based on the MTs developed for each individual			
								RMW, and the MOs are only established at the RMWs (i.e., not by hydrogeologic zones). Based on the			
	1							conflicting information presented in the draft GSP, it is not clear which set of MT values will be used for			
	1							compliance purposes through the GSP implementation phase. Please ensure that the Sustainable			
	1							Management Criteria, including MTs and MOs, be clearly identified and applied consistently in the GSP.			
	1							Minimum thresholds are established without regard to well depths or other potential			
	1							impacts: With a collective population of over 63,000 people, communities within the			
	1							MKGSA area are entirely dependent on groundwater for drinking water purposes. The MKGSA includes			
	1							13 community water systems, 11 of which have less than 300 service connections but collectively serve			
	Self-Help					Groundwater Levels- Minimum		over 5,300 people. Despite the broad and diverse dependence on groundwater for drinking water use,			
010	Enterprises	GL	SH-013	MCR-2	2	Thresholds/Measurable Objectives	354.16	the approach to setting water level MTs/MOs and URs does not explicitly take these drinking water		СР	
010		0.2	511 025	I III I	_			The die predict that the draft of establishes may most saled on industrial contaminant levels (most)			
								for contaminants of concern for municipal use. However, the water quality monitoring network and			
								analysis presented does not clearly illustrate how the MOs/MTs will adequately ensure that the water			
								quality UR of impacting the long-term viability of the groundwater resource will be avoided,			
								particularly for domestic water users and S/DACs. The proposed MT to allow contaminants to further			
								degrade appears to be inconsistent with state water quality laws and policies. We recommend the			
								following changes: Include an assessment of the concentrations of COCs at all monitoring			
								wells to establish MT baseline conditions. The draft GSP indicates COC concentrations will be evaluated			
								for compliance with water quality MTs in the future and where MCLs are already exceeded prior to GSP			
								implementation, this will be considered a baseline condition that MKGSA is not responsible for			
								remediating. It is critical that the GSP draft includes an assessment of the current concentrations in order			
								to present the baseline conditions relative to the proposed MOs/MTs. For transparency and			
								completeness, clearly identify on maps and in tables which set of MTs/MOs will be applied to which			
								RMWs. These maps should clearly identify the location of DACs, small water systems, and other sensitive			
								users so that the public is able to review and evaluate the proposed sustainability approach. The draft			
								GSP identifies a methodology used to distinguish between the applicability of either MCLs or agricultural			
								WQOs as the MTs for a given RMW. As stated in Section 5.3.3.3, "If the majority of the beneficial use			
								(greater than 50% of the pumping within a determined area) was agriculture and there were no public			
								water systems (including schools) the minimum threshold would be a host of agricultural water quality			
								constituents" and "If a monitoring well is located within an urban area, or near a public water system			
								(e.g., within a mile), which includes schools, then the minimum threshold would be set at the MCL for			
								drinking water." However, the draft GSP does not clearly identify on a map or otherwise which RMWs			
								will use MCLs and which will use agricultural WQOs. The document also does not identify which			
								monitoring wells are located within an urban area or near a public water system. Per 23 CCR §354.28, the			
								draft GSP should provide a detailed explanation as to how the proposed water quality MTs may affect the			
						Groundwater Quality-		interests of beneficial uses and users of groundwater or land uses and property interests.			
						Monitoring/Minimun		Expand groundwater quality monitoring network near Okieville. Figure 3 from the Focused Technical			
	Self-Help					Thresholds/Maximum Contaminant		Review shows that there are no Representative Monitoring Wells (RMWs) with established water quality			
010	Enterprises	wq	SH-014	MCR-19	2	Levels		minimum thresholds set at the MCL for drinking water near the community of Okieville. We recommend		CP TN, SH, J	Т
. = 9		-	1 321	1	_			As mentioned previously, land subsidence could have significant impacts on vulnerable community			
	1							infrastructure. In communities that do not have the financial capacity to address costly infrastructure			
	1							damages, impacts of land subsidence should be evaluated more closely. We recommend the following			
	1							changes: Expand the description of potential impacts for S/DAC communities and rural			
	1							domestic well users under the description of the Potential Impacts on Beneficial Uses and Users.			
	1							Clarify the relationship between groundwater quality and land subsidence. Researchers have found that			
	1							there is a relationship between land subsidence caused by overpumping and increases in contaminants			
	1							like arsenic15. The section on the Relationship for each Sustainability Indicator needs to be revised to			
	Self-Help					Land Subsidence/Disadvantaged		clarify that this is not applicable to the MKGSA. 15 Smith, R., Knight, R., & Fendorf, S. (2018).			
010	Enterprises	LS	SH-015		1	Communities		Overpumping leads to California groundwater arsenic threat. Nature communications, 9(1), 2089.		MN	
310	c. p. 15c5	1	15.1 515	1	<u> </u>				L		<u> </u>

							Robust monitoring networks are critical to ensuring that the GSP is on track to meet sustainability goals.				
							As currently developed, the monitoring network can be improved to adequately monitor how				
							groundwater management actions related to groundwater levels could impact vulnerable				
							communities. We recommend the following changes: Include drinking water sources				
							susceptible to groundwater level changes as a criteria in selecting wells for the representative				
							groundwater level monitoring program. Identify which monitoring wells will be used to				
							assess impacts to drinking water wells caused by changes on groundwater levels and describe how that				
							assessment will be conducted. As required by 23 CCR § 354.28, DWR will evaluate the ability of the				
							proposed monitoring program to properly assess impacts to beneficial users of groundwater and to				
							protect beneficial users within the subbasin. In particular, it is important to clarify how MKGSA plans to				
							· · · · · · · · · · · · · · · · · · ·				
	0.15.1.1						monitor and assess drinking water wells at risk of dewatering. Include the location of S/DACs,				
	Self-Help					Groundwater Levels-	areas with high density of domestic wells, and GDEs in Figure 4-3 and 4-4. Maps overlaying the location of				
010	Enterprises	GL	SH-016	MCR-17	2 N	Monitoring/Drinking Water	these communities will allow stakeholders to evaluate the adequacy of the network to monitor	SI	H J	Т	
							inadequate for determining if the actions of the MKGSA degrade the beneficial use of water and for				
							ensuring that the stated water quality UR of impacting the long-term viability of the groundwater				
							resource will be avoided —particularly for domestic water users and S/DACs. GSAs				
							undertaking recharge, significant changes in pumping volume or location, conjunctive management or				
							other forms of active management as part of GSP implementation, must consider the interests of				
							beneficial users, including domestic well owners and S/DACs. For these vulnerable groups, GSAs should				
							avoid disproportionate impacts. The draft GSP lacks representative monitoring wells in areas where				
							drinking water users may be particularly vulnerable to groundwater supply and quality issues, leaving				
							MKGSA with no ability to adequately measure and avoid significant and unreasonable impacts to those				
							users. It is critical that MKGSA develop sufficient monitoring networks, capable of detecting changes in				
							groundwater quality conditions related to groundwater management. We recommend the following				
							changes: Identify which monitoring wells will be used to assess impacts to drinking water				
							wells caused by groundwater quality degradation and describe how that assessment will be conducted.				
							As required by 23 CCR § 354.28, DWR will evaluate the ability of the proposed monitoring program to				
							properly assess impacts to beneficial users of groundwater and to protect beneficial users within the				
							subbasin. In particular, it is important to clarify how MKGSA plans to monitor and assess drinking water				
							wells at risk of further contamination. In specific: -For transparency and completeness, the				
							GSP should clearly identify on maps and in tables which set of MTs/MOs will be applied to which RMWs.				
							These maps should clearly identify the location of DACs, small water systems, and other sensitive users so				
							that the public is able to review and evaluate the proposed sustainability approach.				
							Provide a focused and detailed explanation of how the proposed water quality MT approach and				
							monitoring network will result in the protection of groundwater for S/DACs and other drinking water				
							beneficial users in the subbasin, as required by 23 CCR § 354.28. Expand groundwater quality				
							monitoring network near Okieville. Based on the spatial distribution of the wells dedicated to monitoring				
							Infolitoring fictivory fical exicting, based on the spatial distribution of the wells acaleated to monitoring i				
						Croundwater Quality					
						Groundwater Quality-	water quality presented in Figure 4-6 and 4-7 of the draft GSP, the network is not spaced evenly across				
					N	Monitoring/Minimun	water quality presented in Figure 4-6 and 4-7 of the draft GSP, the network is not spaced evenly across the area. The water quality RMWs are located in the northern and eastern portions of the MKGSA area				
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					of the Mid-Kaweah Groundwater Extraction Allocation Framework such that well owners will be afforded		
					the opportunity to provide input on the proposed implementation of the program. We are also pleased		
					that MKGSA also plans to exclude those well owners who extract less than two AF per year (i.e., de		
					minimis extractors) at least for this initial phase of an allocation program. Nonetheless, we recommend		
					the GSP provide stronger clarification regarding provisions that the GSA plans to implement and		
					consider to ensure that drinking water users will continue to have access to drinking water. When		
					developing a groundwater allocation framework, consider the following measurements to ensure that		
					the framework is protective of the Human Right to Water (AB 685): Sustainable yield		
					allocation: In order to best protect drinking water needs we recommend that GSAs establish an allocation		
					amount of groundwater as part of the calculation for the sustainable yield to adequately meet drinking		
					water needs for public health and safety, both now as well into the future. Small water systems serving		
					disadvantaged communities, domestic well owners, and water systems serving schools should be		
					excluded from an allocation program. In order to determine this baseline for drinking water, GSAs will		
					need to work with small community water systems, cities, and/or the county to determine current and		
					future daily drinking water needs. Fees: The draft GSP indicates that it will not impose		
					pumping restrictions on well owners that extract less than two AF per year. However, it does not address		
					small water systems that may extract over two AF per year and serve critical drinking water needs, such		
					as the Okieville/Highland Acres Mutual Water Company, and the Waukena Elementary School system.		
					When developing a groundwater user fee structure, please consider that small communities have fewer		
					economic resources. Additional fees increase families' water bills that are frequently already above the		
					California water affordability threshold of 1.5% of MHI. Moreover, it is important to recognize and value		
					other ways DACs and low-income residents contribute to the implementation of SGMA. For example, the		
					Kaweah Subbasin, like many others around the State, was granted a DAC waiver and qualified for \$1.5		
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					million in grant funds to offset the costs of developing the GSP. The DAC waiver was granted by		
					demonstrating the number of DACs that are located within the subbasin. Additional grants were obtained		
	Calf Halm				to construct monitoring wells and a recharge basin. For these reasons, we recommend exempting small		
010	Self-Help		CLL 040	1 Croundwater Allegations	drinking water systems managed by DACs and De Minimis Extractors from any GSAs fees (use permits and	DII	
010	Enterprises	AL	SH-019	1 Groundwater Allocations	penalty fees) to support their efforts to provide affordable safe water. Financial	РП	
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010	Self-Help Enterprises	AL	SH-020	1 Water Marketing	groundwater is pumped or the place, method, timing, or purpose of its use, can significantly change the impacts experienced by people and ecosystems. Whether a groundwater market leads to harmful or beneficial impacts all depends on how the market is designed, governed, implemented, and what feedback mechanisms are included and utilized throughout the life of the market. <i>Groundwater markets are not a viable option where the potential impacts of trading are not well understood— which is the case in areas that have significant data gaps and data uncertainties— where trading rules cannot sufficiently address negative externalities, or where the expected benefits of a market do not outweigh the burdens and uncertainties associated with designing and implementing a market. The foundation of a well-designed trading program requires a fair and adequate allocation of groundwater for drinking water uses, an additional margin for future growth prior to allocating water for trading purposes, and trading rules that avoid undesirable results as well as avoid or mitigate potential impacts to communities dependent on groundwater supplies. If these components are missing, the market can have significant negative impacts upon a community's drinking water supply. Some impacts include, but are not limited to: localized drying of community and domestic wells, increased contamination levels, or unaffordable water rates. Before considering a groundwater market framework, consider the following: Establish a non-tradeable allocation for drinking water: A non-tradable allocation amount of groundwater should be included as part of the calculation for the sustainable yield to adequately meet current and future drinking water needs for public health and safety. Ensure that monitoring networks are in place to detect the status and trends of groundwater conditions, and to ensure that the market is running well and is not resulting in adverse impacts to groundwater quality and/or groundwater levels. Implement an early warning system util</i>	PH	

							domestic well owners without the financial impacts to service or replace their pump and well facilities. As	
							the assistance measures described in the draft GSP have not yet been approved to be carried out, we	
							would like to further express the importance in providing such an assistance program to prevent and	
							mitigate for impacts to drinking water users. The draft GSP identifies an impact to 21% of rural/domestic	
							wells and, based on our Focused Technical Review, the actual impacts could be much higher. Moreover,	
							rural domestic and small water system demand does not contribute substantially to the overdraft	
							conditions, yet the risks imposed on these drinking water users are overlooked, creating a	
							disproportionate impact on already vulnerable communities. With the decision of postponing the	
							implementation of a groundwater allocation program or addressing reductions in groundwater pumping,	
							drinking water users could face significant impacts, particularly if the region faces another drought. If	
							MKGSA defines its sustainability criteria in a way that allows for the dewatering of drinking water wells, it	
							is critical that MKGSA develops a robust drinking water assistance program to prevent impacts to drinking	
							water users and mitigate the drinking water impacts that occur. The draft GSP presents a	
							couple of mitigation measures that are being considered by the GSA's Advisory Committee and	
							Governing Board. We would like to provide a set of additional considerations for establishing such an	
							Assistance Program. Mainly, we recommend that mitigation measurements are tied back to a	
							monitoring network and an adaptive management framework (trigger system) to evaluate groundwater	
							conditions and predict potential groundwater impacts to drinking water wells. The framework should	
							forecast how groundwater levels and quality could change based on potential project impacts, identify at-	
							risk domestic wells, identify areas for additional monitoring, and determine if monitoring triggers have	
							been met. Please consider the following for the development of an Assistance Program:	
							Drinking Water Wells Monitoring Network: Expand and improve the monitoring network described by the	
							GSP draft to assess impacts to drinking water wells caused by changes on groundwater levels and quality,	
							in particular for groundwater conditions near the Okieville and Waukena communities, areas with high	
							density of private domestic wells, and water systems serving schools. This will allow MKGSA to better	
							comply with GSP regulations section 354.34, which requires GSAs to describe how potential impacts to	
	Self-Help						groundwater users and uses will be monitored, ensure the success of the Assistance Program, and take a	
010	Enterprises	DC	SH-021	MCR-14	1	Groundwater Levels-Domestic/Public	proactive approach to protect S/DACs and domestic well owners access to safe and affordable drinking PH	
010	Enterprises	БС	311-021	IVICI\-14		diodinawater Eevels Bornestie/Tublic	SHE appreciates MKGSA and stakeholder proposal to further collaborate and partner with other	
							regulatory agencies during GSP implementation to ensure that its minimum thresholds and measurable	
							objectives are maintained and that the water quality objectives of these other entities are achieved. As	
							expressed previously, SHE believes that the strategic governance structure of GSAs can uniquely leverage	
							resources, provide local empowerment, centralize information, and help define a regional approach to	
							groundwater quality management unlike any other regional organization. When implemented effectively,	
							GSAs have the potential to be instrumental in reducing levels of contaminants in their regions, thus	
							reducing the cost of providing safe drinking water to residents. GSAs are the regional agency that can	
							best comprehensively monitor and minimize negative impacts of declining groundwater levels and	
	Self-Help						degraded groundwater quality that would directly impact rural domestic well users and S/DAC within	
010	Enterprises	GA	SH-022		1	Interagency Collaboration	their jurisdictions. When potential projects are proposed, MKGSA should consider taking leadership in	
							Sustainability Agency (MKGSA) sets the minimum thresholds (MTs) for groundwater levels as the	
							groundwater levels projected through 2040 based on the average groundwater level decline observed	
							over the 2006-2016 time period. Similarly, the MKGSA sets the measurable objectives (MOs) for	
							groundwater levels as the groundwater levels projected through 2030 using the same declining water	
							level trend. This approach is intended to represent continued long-term drought conditions. The draft	
							GSP defines the undesirable result (UR) for chronic lowering of water levels as being when one-third of	
							the representative monitoring sites in the Kaweah Subbasin (subbasin), across all three GSAs, exceed	
							their respective MTs. <i>This approach is consistent with the approach used in the East and Greater</i>	
							Kaweah GSPs and leaves key beneficial users in the subbasin, specifically domestic well users and	
							members of disadvantaged communities (DACs), potentially vulnerable to impacts. While an	
							assistance program is identified in the draft GSP, that program currently lacks key details that would	
							make it a robust mitigation measure for these beneficial users. The draft GSP presents	
							water level MTs by: (1) hydrogeologic zones that reportedly share similar groundwater conditions and	
							hydrogeologic behavior (Table 5-2); and (2) by Representative Monitoring Wells (RMWs) (Table 5-3).	
							According to the draft GSP, the hydrogeologic zone MTs are based on the average of the RMW MTs for a	
							particular area. As stated in Section 5.3.1.3, "Consistent with this requirement, the minimum elevation	
							thresholds in this Plan are set at specific levels based on four different hydrogeologic zones as defined	
							herein." However, well impact analyses are performed based on the MTs developed for each individual	
							RMW, and the MOs are only established at the RMWs (i.e., not by hydrogeologic zones). Based on the	
							conflicting information presented in the draft GSP, it is not clear which set of MT values will be used for	
							compliance purposes through the GSP implementation phase. Sustainable Management Criteria (SMC),	
							including MTs and MOs, should be clearly identified and applied consistently in the GSP. As	
	Self-Help						shown on Figure 1, the MKGSA area includes over 750 domestic wells, three DWR-designated DACs1 (i.e.,	
	Enterprises/						Tulare, Matheny Tract, Okieville, and Waukena) with a collective population of over 63,000 people, and	
	Leadership						two additional small communities adjacent to Tulare that are dependent on groundwater for drinking	
	Counsel for						water purposes (i.e., Soults Tract, and Lone Oak Tract). The MKGSA also includes 13 community water	
	1.	Ī	i	1		I Construction I accels Additionation	systems, 11 of which have less than 300 service connections but collectively serve over 5,300 people.	
	Justice and					Groundwater Levels- Minimum		
011	Justice and Accountability	GL	SL-001	MCR-2		Thresholds/Measurable Objectives	Despite this broad and diverse dependence on groundwater for drinking water use, the approach to PH CP, TN	

					The draft oof sets the mission water quality at maximum containmant bevelotimote; or the rightourtains		
					Water Quality Objectives (WQOs) at each RMW based on the dominant beneficial use for that monitoring		
					well. The MOs for water quality were set at 75% of the MCLs or WQOs. The draft GSP further defines the		
					UR for degraded water quality as being when one-third of the RMWs in the subbasin exceed an MT.		
					Section 2.2 of the draft GSP identifies arsenic, nitrate, certain volatile organics, and		
					1,2,3-trichloropropane (TCP) as Constituents of Concern (COCs) for the MKGSA due to concentrations		
					near MCLs or due to increasing trends. The draft GSP further identifies the following constituents to be		
					measured where applicable (Section 3.2.2.4): arsenic, nitrate, chromium-6, dibromochloropropane		
					(DBCP), TCP, tetrachloroethylene (PCE), sodium, chloride, perchlorate, total dissolved solids (TDS). For the		
					reasons identified below, the water quality monitoring network and analysis presented in the draft GSP		
					does not clearly illustrate how the MOs/MTs will be sufficient to ensure that the stated water quality		
					UR of impacting the long-term viability of the groundwater resource, particularly for domestic water		
					users and DACs, will be avoided. The draft GSP identifies a methodology used to		
					distinguish between the applicability of either MCLs or agricultural WQOs as the MTs for a given RMW. As		
					stated in Section 5.3.3.3, "If the majority of the beneficial use (greater than 50% of the pumping within a		
					determined area) was agriculture and there were no public water systems (including schools) the		
					minimum threshold would be a host of agricultural water quality constituents" and "If a monitoring well		
					is located within an urban area, or near a public water system (e.g., within a mile), which includes		
					schools, then the minimum threshold would be set at the MCL for drinking water." However, the draft		
					GSP does not clearly identify on a map or otherwise which RMWs will use MCLs and which will use		
					agricultural WQOs. The document also does not identify which monitoring wells are located within an		
					urban area or near a public water system. For transparency and completeness, the GSP should clearly		
					identify on maps and in tables which set of MTs/MOs will be applied to which RMWs. These maps should		
	Self-Help				clearly identify the location of DACs, small water systems, and other sensitive users so that the public is		
	Enterprises/				able to review and evaluate the proposed sustainability approach. Per 23 CCR §354.28, the draft GSP		
	Leadership			Groundwater Quality-	should provide a detailed explanation as to how the proposed water quality MTs may affect the interests		
	Counsel for			Monitoring/Minimun	of beneficial uses and users of groundwater or land uses and property interests. Figure 3		
	Justice and			Thresholds/Maximum Contaminant	shows the water quality monitoring network identified in Figures 4-6 and 4-7 of the draft GSP, including		_
011	Accountability WQ	SL-002	MCR-18	2 Levels	the new proposed multi-level monitoring wells. The water quality RMWs are focused in the northern and	SH	II
					and 2025 (Section 7.4.2) and states that "this initial phase of an allocation program shall exclude those		
					well owners who extract less than two AF per year (i.e., de minimis extractors)." Under Section 7.4.8.1, it		
					is acknowledged that the early stages of planning for the assistance program will include "A		
					determination by the GSA to not regulate any de minimis extractor, i.e., any well owner pumping two		
					acre-feet or less annually." This provision is critical to ensure that drinking water users, including DACs		
					and other domestic well users, will continue to have access to drinking water and therefore, the GSP		
					should provide stronger clarification that this provision will be included in any allocation program		
					through and beyond the 2025 timeframe. As described above, the draft GSP indicates that		
					it will not impose pumping restrictions on well owners that extract less than two AF per year, but does		
					not address small water systems that may extract over two AF per year, but serve critical drinking water		
					needs, such as the Soults Mutual Water Company, Okieville/ Highland Acres Mutual Water Company, and		
					the Waukena Elementary School system. The GSP should therefore clearly identify how a groundwater		
					allocation program would be designed to protect small water systems and the beneficial users that		
					depend on them. As discussed above, the draft GSP identifies an impact to 21% of		
					rural/domestic wells, and based on our "quick and dirty" evaluation herein, the actual impacts could be		
					much higher. Given these impacts to well owners, the draft GSP identifies assistance measures that are		
					being considered for small water systems and domestic wells (Section 7.4.8.1). If assistance measures are		
	1				planned to mitigate impacts to drinking water wells, then the draft GSP should provide clear funding		
					mechanisms and implementation plans for these assistance measures. The GSP should also consider the		
	1				following in its implementation plan: -A secure and reliable funding source and		
					mechanism for implementation of any assistance measures needs to be identified. While grant or		
					emergency funding could potentially be available for such a program when needed, the availability of		
1	Self-Help				these funds is not certain. A more secure funding mechanism could be the establishment of a reserve		
	Enterprises/				fund that is paid into on an annual basis and accrues funds that would then available as water levels drop		
	Leadership				in the futureThe implementation of an assistance measure program should be		
	I I				triggered before wells begin to become unusable, so that funding will be available, and the necessary		
	Counsel for		_	Projects and Management Actions-	planning and contracting will be completed such that the necessary construction will be implemented		
	Counsel for Justice and				to detailed the commence of th	IDII I	
011	Counsel for Justice and Accountability AL	SL-003	MCR-18	1 Domestic/De Minimus Extractors	without unnecessarily leaving community members without access to drinking water. Thus, the measure	I'rn	
011	Counsel for Justice and Accountability AL Tulare County	SL-003	MCR-18	1 Domestic/De Minimus Extractors		PH	
	Counsel for Justice and Accountability AL Tulare County Resource	SL-003	MCR-18	1 Domestic/De Minimus Extractors	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and	РП	
	Counsel for Justice and Accountability AL Tulare County Resource Management		MCR-18		"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or	PH	
	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR	SL-003 RM-001	MCR-18	1 Domestic/De Minimus Extractors 1 Internal Referencing	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram.	СР	
	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County		MCR-18		"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding	СР	
	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource		MCR-18		"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams	СР	
012	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource Management Agency Management	RM-001	MCR-18	1 Internal Referencing	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams should be referenced or included in the GSP. Tulare County General Plan Land Use Diagram Figure 4-1	СР	
012	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource		MCR-18		"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams should be referenced or included in the GSP. Tulare County General Plan Land Use Diagram Figure 4-1 (page 4-5) at a minimum should be referenced or included here.	СР	
012	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource Management Agency Management	RM-001	MCR-18	1 Internal Referencing	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams should be referenced or included in the GSP. Tulare County General Plan Land Use Diagram Figure 4-1 (page 4-5) at a minimum should be referenced or included here. "Each of the two incorporated cities in MKGSA's area have adopted General Plans. For the areas not	СР	
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012	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource Management Agency GP Tulare County	RM-001	MCR-18	1 Internal Referencing	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams should be referenced or included in the GSP. Tulare County General Plan Land Use Diagram Figure 4-1 (page 4-5) at a minimum should be referenced or included here. "Each of the two incorporated cities in MKGSA's area have adopted General Plans. For the areas not within the limits of the incorporated cities, the Tulare County General Plan applies. The General Plans for the cities and the General Plan for the county each have land use elements which address water usage.	СР	
012	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource Management Agency GP Tulare County Resource Management Agency GP	RM-001	MCR-18	1 Internal Referencing	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams should be referenced or included in the GSP. Tulare County General Plan Land Use Diagram Figure 4-1 (page 4-5) at a minimum should be referenced or included here. "Each of the two incorporated cities in MKGSA's area have adopted General Plans. For the areas not within the limits of the incorporated cities, the Tulare County General Plan applies. The General Plans for the cities and the General Plan for the county each have land use elements which address water usage. These elements were considered in this GSP." General Plan Land Use Diagrams should be referenced or	СР	
012 012	Counsel for Justice and Accountability AL Tulare County Resource Management Agency OR Tulare County Resource Management Agency GP Tulare County	RM-001	MCR-18	1 Internal Referencing	"It is one of the prime agricultural regions in the Central Valley and home to numerous small towns and communities, as well as the larger cities of Tulare and Visalia." Should reference a specific map or diagram. "Urban land use is located within the limits of the cities of Tulare and Visalia and the surrounding unincorporated areas within the sphere of influence for the cities." General Plan Land Use Diagrams should be referenced or included in the GSP. Tulare County General Plan Land Use Diagram Figure 4-1 (page 4-5) at a minimum should be referenced or included here. "Each of the two incorporated cities in MKGSA's area have adopted General Plans. For the areas not within the limits of the incorporated cities, the Tulare County General Plan applies. The General Plans for the cities and the General Plan for the county each have land use elements which address water usage.	СР	

						"However, the Tulare County 2012 General Plan has a Water Resources Element" Note that the		
						County's GP also has other elements that address water. These should be referenced. The Tulare		
						County General Plan includes both policies and implementation measures that address water supply,		
						wastewater treatment, adequate infrastructure, plans, programs, and funding in the following elements:		
						Planning Framework (Chapter 2), Agriculture (Chapter 3), Land Use (Chapter 4), Economic		
						Development (Chapter 5), Housing (Chapter 6), Environmental Resources Management (Chapter 8),		
						Health and Safety (Chapter 10), Water Resources Chapter 11), Public Facilities and Services Chapter 14),		
						Gen Plan Water Resources Element policies Include: Water Supply WR-1.1		
						Groundwater Withdrawal, WR-1.3 Water Export Outside County, WR-1.4 Conversion of Agricultural		
						Water Resources, WR-1.5 Expand Use of Reclaimed Wastewater, WR-1.6 Expand Use of Reclaimed Water,		
						WR 1.7 Collection of Additional Groundwater Information, WR-1.8 Groundwater Basin Management, WR-		
						1.9 Collection of additional Surface Water Information, WR-1.10 Channel Modification, WR-3.1 Develop		
						Additional Water Sources, WR-3.2 Develop an Integrated Regional Water Master Plan, WR-3.3 Adequate		
						Water Availability, WR-3.4 Water Resource Planning, WR-3.5 Use of Native and Drought Tolerant		
						Landscaping, WR-3.6 Agricultural Irrigation Efficiency, WR 3.7 Emergency Water Conservation Plan, WR-		
						3.8 Educational Programs, WR-3.9 Establish Critical Water Supply Areas WR-3.10 Diversion of		
						Surface Water, WR-3.11 Policy Impacts to Water Resources, WR-3.12 Joint Water Projects with		
						Neighboring Counties, WR-3.13 Coordination of Watershed Management on Public Land		
						PFS-2.1 Water Supply, PFS-2.2 Adequate Systems, PFS-2.3 Well Testing, PFS-2.5 New Systems or Individual		
						Wells, Water Quality, WR-1.2 Groundwater Monitoring, WR 1.7 Collection of Additional Groundwater		
	Tulare County					Information, WR-1.8 Groundwater Basin Management, WR-2.1 Protect Water Quality, WR-2.2 NPDES		
	Resource					Enforcement, WR-2.3 Best Management Practices, WR-2.4 Construction site Sediment, WR-2.5 Major		
	Management					Drainage Management, WR-2.6 Degraded Water Resources, WR-2.7 Industrial and Agricultural Sources,		
012	Agency	GP	RM-004	1	General Plans- Water Resources	WR-2.8 Point Source Control, WR-2.9 Private Wells, PFS-2.1 Water Supply, PFS-2.5 New Systems or	СР	
	Tulare County							
	Resource							
	Management					"the MKGSA will address these issues with the adoption" Might want to reference the GSA's authority		
012	Agency	GA	RM-005	1	GSP Adoption	to address these issues here and specifically detail how adoption of the GSP will address these issues.	СМ	
						"" work with the county and other organizations to protect prime farmland and farmland of statewide	1	
						importance outside the city's Urban Development Boundary" Should policies from the County General		
						Plan be specifically referenced here? This discussion could reference County Adopted City General Plans		
						(Visalia Area Community Plan) as the appropriate mechanism to coordinate land use and policy decisions		
						within the UAB and UDB. See Tulare County General Plan Planning Framework Chapter 2 Section PF-4 and		
						4-A. In addition, groundwater recharge is not solely determined by FMMP designations (See Tulare		
						County General Plan Health and Safety Element Figure 10-7 areas for groundwater recharge.		
						In addition the following County General Plan policies including but not limited to primarily address		
						farmland protection: AG-1.1 Primary Land Use, AG-1.2 Coordination, AG-1.3 Williamson Act,		
						AG-1.5 Substandard Williamson Act Parcels, AG-1.6 Conservation Easements, AG-1.7 Preservation of		
						Agricultural Lands, AG-1.8 Agriculture Within Urban Boundaries, AG-1.9 Agricultural Preserves Outside		
						Urban Boundaries, AG-1.10 Extension of Infrastructure Into Agricultural Areas, AG-1.11 Agricultural		
						Buffers, AG-1.12 Ranchettes, AG-1.13 Agricultural Related Uses, AG-1.14 Right-to-Farm Noticing, AG-1.15		
						Soil Productivity, AG-1.16 Agricultural Water Resources, AG-1.18 Farmland Trust and Funding Sources, AG-		
	Tuloro County					2.8 Agricultural Education Programs, LU- 1.5 Paper Subdivision Consolidation, LU-2.1 Agricultural Lands,		
	Tulare County					LU 2.2 Agricultural Parcel Splits, LU-2.5 Residential Agriculture Uses, LU- 2.7 Industrial Development,		
	Resource					RVLP- 1.1 Development Intensity, RVLP- 1.2 Existing Parcels and Approvals, RVLP- 1.3 Tulare County		
012	Management	CD	DN4 00C	1	Conoral Plans Agricultural Land	Agricultural Zones, RVLP- 1.4 Determination of Agricultural Land, RVLP- 1.5 Non Conforming Uses, RVLP-	CD	
012	Agency Tulare County	GP	RM-006		General Plans- Agricultural Land	1.6 Checklist	СР	
	Resource					"The county is revising their well normit application based on CSA input. The proposed revised		
						"The county is revising their well permit application based on GSA input. The proposed revised		
013	Management	CD	DN4 007		Wall Dormitting	application is provided on the following pages." For clarification purposes, this section could clearly	CD	
012	Agency	GP	RM-007	1	Well Permitting	delineate what revisions to the well permitting application are being proposed.	CP	
	Tulare County							
	Resource							
040	Management	C A	DNA 000		CSA Polos	This continue potentials and a few the CCMs in the property that the property of the latest section of the lat		
012	Agency	GA	RM-008	1	GSA Roles	This section notes the role for the GSA's in the process that you may want noted above.	CM	
						"As shown in Figure 1-2, the MKGSA region includes three areas identified as a Census Designated Place		
						by the 2016 U.S. Census Bureau as disadvantaged or severely disadvantaged. The City of Tulare has been		
	T					identified as a Disadvantaged Community, while the community of Matheny Tract and Waukena have		
	Tulare County					both been determined as a Severely Disadvantaged Community. The community of Okieville/Highland		
	Resource					Acres is located within a 2016 U.S. Census Bureau Disadvantaged Community Tract. Stakeholders in these		
	Management					communities have the opportunity to consult on the plan during the agency's Board of Directors and		
012	Agency	OR	RM-009	1	GSP Organization	Advisory Committee meetings and during review of this Plan." Seems to be a repeat of Section 1.5.2.3	СР	
						"Placement of recharge projects and management of pumping regimes in each GSA/Management Area		
	Tulare County					such that acceleration of contaminant plume migration that impairs domestic and municipal supply well		
	Resource					production as induced by GSP projects and management actions is avoided." this is important for any		
	Management					new community, as well as for existing communities that fall under the County's purview. Acquisition of		
012	Agency	GP	RM-010	1	Public Property Permitting	property for public purposes may require a General Plan Referral.	СР	
	Tulare County							
	Resource							
	Management				Groundwater Levels- Minimum	"one-third of the representative monitoring sites in all three GSA jurisdictions combined exceed their		
012	Agency	GL	RM-011 MCR-2	1	Thresholds/Measurable Objectives	respective minimum threshold water level elevations." Over what time period?	СР	
	Tulare County							
	Resource					"a determination has been made that the percentage of wells completely dewatered by 2040 should		
	Management				Undesirable Results- Groundwater	the minimum thresholds not be exceeded would not constitute an undesirable result." For clarification		
012	Agency	GL	RM-012	1	Levels	should that actual percentage be stated here?	PH	CP, TN

	Tulare County					"During this 20-year period, pumping costs will rise due to higher lifts and higher energy pricing, but this		
	Resource					condition is considered by the MKGSA as a manageable impact that has been occurring for many years		
	Management				Groundwater Levels-Economic	and is comparable to inflationary costs experienced by agricultural businesses, municipalities, and small-		
012	Agency	GL	RM-013		1 Impacts	system and domestic households." Can you further detail the costs comparisons?	PH	CP, TN
						"Comparing these resulting groundwater inflow assignments to MKGSA to annual groundwater pumping		
						for the same current period (1997-2017), as identified in Table 6-3, results in an imputed water balance		
	T 1							
	Tulare County					surplus for MKGSA of about 38,000 AF on an average basis. Yet, as acknowledged in Section 2 of this Plan,		
	Resource					MKGSA, like the balance of the Subbasin, experiences a historical decline in groundwater levels and		
	Management					attendant depletion of groundwater in storage within its jurisdictional region." This might be a good		
013	_	NA/D	DN4 04 4	NACD 40	1 Motor Budget		CD	TN
012	Agency	WB	RM-014	MCR-19	1 Water Budget	place to describe the imputed water balance in greater detail to describe the difference from the	CP	TIN
						"Whereas the average water accounting framework water balance is positive, the comparable		
						hydrogeologic water budget is negative by about 13,000 AF. This reduction in storage is to be expected,		
						as water levels decline in the range of 3 feet per year over much of the GSA region. The relative		
	Tulare County					contributions of multiple causes of these declines is the subject of further study and hydrogeologic		
	Resource					analyses." Please provide greater of the detail in regards to the cooperative agreement to help		
					Motor Budget /Motor Assounting			
	Management				Water Budget/Water Accounting	understand why groundwater levels are trending down in the overall Kaweah, even if there is 'surplus'		
012	Agency	WB	RM-015	MCR-20	1 Framework	according to the budget in the Mid-Kaweah.	TN	
						"It is the intent of the Subbasin GSAs, as stipulated in the Coordination Agreement, to continue to discuss		
	Tuloro Court		1					
	Tulare County		1			water balances and groundwater conditions during GSP implementation and, in so doing, manage the		
	Resource					location, extent, and financial contributions to projects and management actions of each." This would be		
	Management		1		Projects and Management Actions-	a good place to discuss the Coordination Agreement? Specific language or chapter/section citations in		
043	_	DNA	D14 C16		_		511	
012	Agency	PM	RM-016		1 Coordination Agreement	the coordination agreement should be referenced here.	PH	
	Tulare County							
	Resource					"As an irrigation district under Division 11 of the California Water Code, TID has authority to manage,		
					Confess Marin Birth 12			
	Management				Surface Water Rights/Recharge	regulate, and engage in groundwater recharge operations for the benefit of its landowners." Can you		
012	Agency	WR	RM-017		1 Operations	state here that the water rights under the existing contracts?	PH	AF
	Tulare County							
			1			" a CCA has the outhority to recorded an analysis of the control o		
	Resource					"a GSA has the authority to regulate groundwater extractions and impose an allocation mechanism."		
	Management					"and an arrangement to apportion responsibilities" Could we say this is achieved through the		
012	Agency	ΔΙ	RM-018		1 Groundwater Allocations	Coordination Agreement?	РН	
012		/ \L	11111 010		1 Groundwater Amocations	coordination rigited ment.	111	
	Tulare County							
	Resource							
	Management					"capped at 55 gallons per capita per day (gpcd) in 2019 and ramped down to 50 gpcd by 2030" It		
013	_	N 41 1	DN4 010		1 Municipal Water Use		TNI	
012		MU	RM-019		1 Municipal Water Use	might be better to say, "May be adjusted back up from 50, based on science."	TN	
	Tulare County							
	Resource							
						"Toble 9.1. Sample Croundwater Extraction Summer," May went to add 'small community water		
	Management					"Table 8-1: Sample Groundwater Extraction Summary" May want to add 'small community water		
012	Agency	AL	RM-020		1 Extraction Data	systems' as a separate line from M&I and Domestic?	PH	
						I do have some clarifying comments regarding the Project and Management Actions in Section 7 of the		
						Plan. Specifically, the concept of on-farm recharge covered in Section 7.3.4. My comments are as		
						follows: 1. It would be helpful to understand how on-farm recharge water quantities will		
						be credited and accounted for. Will there be any losses applied, or "leave-behind?" 2.Will		
						individual water user accounts be created to manage the credits? 3.In addition to on-farm		
						· · · · · · · · · · · · · · · · · · ·		
						recharge, I would like to see some further discussion on private water user/landowner recharge projects		
						such as recharge basins and subsurface recharge system projects. With these projects, the same		
	Westchester					questions outlined above regarding how recharge will be credited and accounted for would be		
	Group					applicable. It would be beneficial to see these items further defined in the Plan, but if		
	Investment				On-Farm Recharge- Groundwater	specifics on such Projects and Management Actions cannot be quantified at this time, I would at least like		
013	Management	AL	WG-001		2 Allocations	to see the Plan outline a process of how such projects and actions could be developed post Plan, and	РН	
013	Management	/1L	44 G-001		Zimodations	to see the Fight outline a process of flow such projects and actions could be developed post Fight, and	' ' '	+
			1					
						The Draft GSP omits critical data, and does not give DWR or the public sufficient information to evaluate		1
						·		
		I				compliance with state law or the impact of the plan on beneficial users. Specifically, the Draft GSP has		
			Ī			not clearly evaluated the impact of the plan on domestic well users and disadvantaged communities,		
					1	which are likely to cause a disparate impact on protected groups pursuant to state civil rights law.		
					l l			
						Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not		
						Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not		
						Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show		
						Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show how the actions of the other GSAs in the subbasin will achieve sustainability throughout the subbasin. The		
						Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show		
	Leadership					Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show how the actions of the other GSAs in the subbasin will achieve sustainability throughout the subbasin. The GSA also does not provide adequate information about the plan for continued public engagement during		
	Leadership Counsel for					Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show how the actions of the other GSAs in the subbasin will achieve sustainability throughout the subbasin. The GSA also does not provide adequate information about the plan for continued public engagement during GSP implementation. More information about each of these gaps in data and information is included		
	Counsel for					Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show how the actions of the other GSAs in the subbasin will achieve sustainability throughout the subbasin. The GSA also does not provide adequate information about the plan for continued public engagement during GSP implementation. More information about each of these gaps in data and information is included below. The GSP cannot be adopted until this key information is made available to the public. The		
						Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show how the actions of the other GSAs in the subbasin will achieve sustainability throughout the subbasin. The GSA also does not provide adequate information about the plan for continued public engagement during GSP implementation. More information about each of these gaps in data and information is included		
014	Counsel for	DC	LC-001		3 Disadvantaged Communities	Further, the GSP has not committed to a clear program to address those impacts. The GSP also does not contain sufficient information on groundwater contamination in the GSA area, and does not clearly show how the actions of the other GSAs in the subbasin will achieve sustainability throughout the subbasin. The GSA also does not provide adequate information about the plan for continued public engagement during GSP implementation. More information about each of these gaps in data and information is included below. The GSP cannot be adopted until this key information is made available to the public. The	PH	

								sustainability plan. The Draft GSP will cause significant, unreasonable and disparate impacts on			
								protected groups as a result of the sustainability goals that it has set, and has not committed to a			
								concrete plan to prevent or mitigate those impacts. Under SGMA, the GSA is tasked with			
								managing groundwater in a way that does not cause "significant and unreasonable impacts" to the			
								beneficial uses and users of groundwater in the subbasin. <i>The GSA's activities cannot avoid impacts only</i>			
								on certain types of beneficial users; under SGMA it must "consider the interests of" an enumerated list			
								of all types of beneficial users, including domestic well users and disadvantaged communities on			
								domestic wells and community water systems.1 1 Water Code § 10723.2. Furthermore, state law			
								provides that no person shall, on the basis of race, national origin, ethnic group identification, and other			
								protected classes, be unlawfully denied full and equal access to the benefits of, or be unlawfully			
								subjected to discrimination under, any program or activity that is conducted, operated, or administered			
								by the state.2 2 Gov. Code § 11135 ["No person in the State of California shall, on the basis of sex, race,			
								color, religion, ancestry, national origin, ethnic group identification, age, mental disability, physical			
								disability, medical condition, genetic information, marital status, or sexual orientation, be unlawfully			
								denied full and equal access to the benefits of, or be unlawfully subjected to discrimination under, any			
								program or activity that is conducted, operated, or administered by the state or by any state agency, is			
								funded directly by the state, or receives any financial assistance from the state."]; Gov. Code § 65008			
								[Any discriminatory action taken "pursuant to this title by any city, county, city and county, or other local			
								governmental agency in this state is null and void if it denies to any individual or group of individuals the			
								enjoyment of residence, land ownership, tenancy, or any other land use in this state"]; Government			
								Code §§ 12955, subd. (I) [unlawful to discriminate through public or private land use practices, decisions			
								or authorizations]. In addition, the state's Fair Employment and Housing Act guarantees all Californians			
								the right to hold and enjoy housing without discrimination based on race, color, or national origin.3 3			
								Gov. Code § 12900 et seq. Lastly, the Department of Water Resources is required to consider the Human			
	Leadership							Right to Water in its evaluation of the GSA's proposed Groundwater Sustainability Plan, so the drinking			
	Counsel for										
	Justice and										
04.4		200	1.0.000	NACD 24	_	Disadvanta and Communities	5 10722 2	disadvantaged communities of color within the San Joaquin Valley are disproportionately impacted by	DU		
014	Accountability	DC	LC-002	MCR-21	3	Disadvantaged Communities	§ 10723.2	unsustainable groundwater use, falling groundwater tables, dry drinking water wells, subsidence,	РП		
								The SGMA regulations require GSPs to include "[g]roundwater quality issues that may affect the supply			
								and beneficial uses of groundwater, including a description and map of the location of known			
								groundwater contamination sites and plumes."8 The Draft GSP does not contain information about			
								groundwater quality issues, or a map of known groundwater contamination sites and plumes. This			
								information is critical to ensuring that beneficial users are not harmed by increased groundwater			
								contamination resulting from the GSA's groundwater management activities. This information is			
								particularly important for domestic well owners and small disadvantaged communities on small			
								community water systems, whose drinking water supply is most vulnerable to groundwater			
								contamination. Without such information, the GSA cannot measure the impact of groundwater			
								contamination, and therefore cannot protect the drinking water needs of these vulnerable groups.			
								To effectively consider the interests of these types of beneficial users, and avoid a disparate impact on			
								protected groups pursuant to state civil rights law, Mid Kaweah GSA must: Include information			
								on groundwater quality issues that may affect the supply and beneficial uses of groundwater, including a			
	Leadership							description and a map of the location of known groundwater contamination sites and plumes.			
	Counsel for							Include adequate information regarding past, current and potential drinking water issues affecting small			
	Justice and					Groundwater Quality/Disadvantaged		disadvantaged communities and domestic well users in the GSA area, including drinking water			
01.4	Accountability	W/O	1.0.003	MCD 17		Communities		contamination, dry wells, and other drinking water supply and quality issues.	СП		
014	Accountability	wų	LC-003	MCR-17	3	Communities		contamination, dry wells, and other drinking water supply and quality issues.	3П	JI	
								users, particularly domestic well users and disadvantaged communities,9 9 Water Code § 10723.2. and			
								must avoid disparate impacts on protected groups pursuant to state law.1010 Gov. Code § 11135; Gov.			
								Code § 65008; Government Code §§ 12955, subd. (I). The monitoring network as described in the Draft			
								GSP fails to capture drinking water impacts on domestic wells. Representative monitoring wells are the			
								only wells that the GSA will use to measure its compliance with its sustainable management criteria. The			
								Draft GSP establishes two types of representative monitoring wells in the groundwater quality monitoring			
								network: wells that will monitor for only three contaminants of concern that are harmful for agricultural			
								production, and wells that will monitor for ten additional drinking water contaminants. The Draft GSP			
								states that representative monitoring wells will only monitor for agricultural contaminants when over			
								50% of "pumping" nearby is for agriculture. This means that none of the representative monitoring wells			
								will capture groundwater quality or supply impacts to domestic wells outside of public water systems. It			
								is also unclear whether the water quality monitoring wells will capture impacts to domestic wells across			
								the GSA areas because the GSP does not include well construction information for a majority of the			
								water quality representative monitoring wells, so the public and DWR cannot evaluate whether the			
								wells are sampling at the depths of the zones used for drinking water purposes by domestic well users			
								and community water systems in the GSA area.1111 Focused Technical Report, p. 6. The GSA			
								mentions that it may conduct domestic well sampling, which could be added into the groundwater			
								quality monitoring network data. This program, if implemented effectively and if enough wells are tested			
								with adequate frequency, could ensure that domestic wells are also being monitored for compliance with			
								minimum thresholds. <i>In order to avoid drinking water contamination from groundwater management</i>			
								activities, the GSA should include this program in its Management Actions, and provide a clear timeline			
								and strategy for developing and implementing this program. As the attached Focused			
								Technical Report shows, the water quality monitoring network does not cover a large portion in the west			
								of the GSA area, which includes at least 200 domestic wells and several public water systems			
	Leadership							for DACs and schools.12 12 Focused Technical Report, p. 5. <i>The GSP must demonstrate how the</i>			
	Counsel for							monitoring network will be able to monitor for impacts to beneficial users in this area.			
	Justice and					Monitoring Network- Groundwater		developing this monitoring network, the GSA has not considered the interests of this beneficial user			
014	Accountability	WQ	LC-004	MCR-18	3	Quality	23 CCR § 354.34	group and is likely to cause a disparate impact on the protected groups dependent on domestic wells.	SH	I)T	

								The SGMA regulations allow GSAs to establish Management Areas "based on differences in water use				
								sector, water source type, geology, aquifer characteristics, or other factors," for the purpose of				
								identifying "different minimum thresholds, measurable objectives, monitoring, or projects and				
								management actions."13 13 23 CCR § 351 However, it may not do so in a way that causes disparate				
								impacts on a group protected by state civil rights law, or has not adequately "considered the interests of"				
								all types of beneficial users. The Management Areas that the GSA proposes to establish will likely				
								have disproportionately negative impacts on domestic well users and disadvantaged communities. The				
								Draft GSP states that the GSA will establish Management Areas along to the borders of local water				
								and irrigation districts within the GSA, so that each district can manage groundwater its own				
								jurisdiction. However, some districts are only accountable to the needs of agricultural pumping, and do				
								not have representation of drinking water users on their boards. For example, Tulare Irrigation District				
								will be managing a wide area that includes small communities and domestic well owners; however, the				
								irrigation district's board and clientele only reflect agricultural pumping needs. Additionally, East Tulare				
								Villa, a disadvantaged community that depends on drinking water from the City of Tulare, is not included				
								in the same management area as the City of Tulare, which does not allow effective protection of the				
								community's water resources. Therefore this division of Management Areas means that all beneficial				
								users' interests will not be considered in the management of areas where drinking water and agricultural				
								pumping interests are present, and will likely lead to disparate impacts on protected groups.				
								Instead, a tool for protecting drinking water for disadvantaged communities and domestic wells is				
								creating Management Areas around clusters of domestic wells and around disadvantaged communities,				
								with a buffer around the area where the vulnerable drinking water users are located, and setting more				
								protective groundwater quality and groundwater levels minimum thresholds in those areas. This ensures				
	1 1 - 1 -							that there are no localized impacts to drinking water resources from groundwater levels dropping or				
	Leadership							from contaminant plumes being drawn towards large quantities of groundwater pumping.				
	Counsel for					8:		Therefore, we recommend that the GSA: Form Management Areas around clusters of domestic				
04.4	Justice and					Management Areas- Disadvantaged	12 12 22 660 5 251	wells and around disadvantaged communities in the GSA area, with a buffer around the area where the		CD.		
014	Accountability	MA	LC-005	MCR-12		Communities	13 13 23 CCR § 351	vulnerable drinking water users are located, and set groundwater quality and groundwater levels		СР		
								years."14 Undesirable results are the point at which there are "significant and unreasonable				
								impacts" from the six sustainability indicators set out in SGMA: chronic lowering of groundwater levels,				
								reduction of groundwater storage, seawater intrusion, degraded water quality, land subsidence,				
								depletions of interconnected surface water.15 Also fundamental to SGMA is the obligation that				
								GSAs must "consider the interests of" an enumerated list of beneficial users, including "holders of				
								overlying groundwater rights, includingdomestic well owners" and "disadvantaged communities,				
								including, but not limited to, those served by private domestic wells or small community water				
								systems."16 Therefore, the sustainability goal must be based on impacts from the six sustainability				
								indicators, particular with respect to the impacts that they will have on beneficial users.				
								However, instead of basing on impacts from any of the six sustainability indicators on beneficial users,				
								the Kaweah subbasin sustainability goal focuses primarily on "the viability of existing enterprises of				
								the region," the "water needs of existing enterprises," and local plans that create "economic and				
								population growth." This sustainability goal focuses on water for industry, is counter to the intent of				
								SGMA, and frustrates the goals of the law because it does not take into account the needs of or				
								"significant and unreasonable" impacts on all types of beneficial users in the GSA area. This				
								sustainability goal should not focus on economic growth, but rather must consider the interests of all				
								beneficial user groups in the GSA area. The sustainability goal therefore must have co-equal quals of				
								preserving water resources for many uses, including drinking water, environmental, urban, and				
								agricultural. Their discussion of the Sustainability Goal also focuses on augmenting supply, and				
								only implementing Management Actions "where necessary." Even if all projects are implemented and				
								sustainable management criteria are complied with in the plan, many vulnerable drinking water users will be impacted, and the GSA has not committed to implementing its domestic well and small systems.				
								still be impacted, and the GSA has not committed to implementing its domestic well and small systems management action. Instead, the GSA should focus simultaneously on projects and management actions				
								to ensure sustainability and protect drinking water resources. Furthermore, the means by which				
	Leadership							the GSA states it will achieve this sustainability goal, through a "glidepath" approach, is geared towards				
	Counsel for							protecting agricultural interests, and is likely to have severe impacts on the drinking water resources of				
	Justice and					Sustainability Goal- Disadvantaged		domestic well users. The sustainability goal states that it will be reached by the combined efforts				
014	Accountability	DC	LC-006	MCR-21		Communities/Domestic		of all three GSAs. However, the coordination agreement does not clearly show how the sustainability		PH		
21,			25 500	CIT ZI	3	2		The sustainable management criteria for groundwater levels must be made after considering the				
								interests of all beneficial user groups, including domestic well users and disadvantaged				
								communities.17 These policy decisions must also avoid disparate impacts on protected groups pursuant				
								to state and federal law.18 The GSA has not shown how they have considered the interests of				
							17 Water Code §	beneficial users including domestic well owners and disadvantaged communities. The resulting impact				
							10723.2. 18 Gov.	from the proposed sustainable management criteria will likely lead to disparate impacts on protected				
	Leadership						Code § 11135; Gov.	groups pursuant to state and federal law. 17 Water Code § 10723.2. 18 Gov. Code § 11135; Gov. Code §				
	Counsel for						Code § 65008;	65008; Government Code §§ 12955, subd. (I). Furthermore, the Draft GSP does not show how the				
	Justice and					Sustainable Management Criteria-	Government Code	sustainable management criteria for groundwater levels will comply with the sustainability goal to				
014	Accountability	GL	LC-007	MCR-21		Groundwater Levels	§§ 12955, subd. (I).	"preserve the quality of life or support population growth."		PH	CP, TN	
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								Undesirable results are the point at which "significant and unreasonable" impacts on beneficial users			
								caused by declining groundwater levels. The SGMA regulations require GSAs to justify their undesirable			
								results by including the "[p]otential effects on the beneficial uses and users of groundwater."19 GSAs			
								must also describe the "processes and criteria relied upon to define undesirable results."20			
								The Draft GSP's undesirable results for groundwater levels are inadequate because significant and			
								unreasonable impacts will occur without triggering an undesirable result. The Draft GSP states that "one-			
								third of the representative monitoring sites in all three GSA jurisdictions combined exceed their			
								respective minimum threshold water level elevations."21 Violating one-third of the minimum			
								thresholds of the entire subbasin's representative monitoring wells would have unreasonably severe			
								impacts on domestic well users, particularly given that reaching the minimum thresholds in the Mid			
								Kaweah GSA alone would dewater 71% of domestic wells in the Mid Kaweah GSA area and partially			
								dewater an additional 15% of domestic wells.22 <i>The Draft GSP acknowledges the serious financial</i>			
								impact of having to drill deeper wells, well failures, and the increased energy costs of pumping water			
								from lower depths, but the undesirable result for groundwater levels does not prevent either of these			
								, , ,			
								impacts. 23 Furthermore, the vast majority of wells the GSA would allow to go dry before triggering plan			
								failure would be overwhelmingly upon domestic well users and disadvantaged communities, causing a			
								disparate impact in violation of state law. In order to avoid these disparate impacts, the GSA must change			
								the undesirable result or define its own local undesirable result to prevent widespread drinking water			
								impacts to protected groups in the GSA area. In order to avoid a violation of state civil rights			
								law and avoid causing significant and unreasonable impacts as required by the SGMA, the GSA must:			
								Include a local undesirable results definition that makes it clear that the GSA will locally define and			
	Leadership							address an undesirable result within its service area and protect beneficial users of groundwater. 19 23			
	Counsel for							CCR § 354.26. 20 23 CCR § 354.26. 21 Mid Kaweah GSA Draft GSP p. 3-5, dated July 2019. 22 Focused			
	Justice and					Undesirable Results- Groundwater		Technical Report, p. 4. Our analysis shows a much larger impact on domestic wells than the evaluation of			
014	Accountability	GL	LC-008	MCR-13	2	Levels	20 23 CCR § 354.26.	well impacts in the Draft GSP. 23 Mid Kaweah GSA Draft GSP p. 3-8, dated July 2019.	PH	CP, TN	
								exceeded, may cause undesirable results."24 Therefore it must have the purpose of avoiding 24 23 CCR §			
								354.28. "significant and unreasonable" impacts on beneficial users caused by declining			
								groundwaterlevels.25 For groundwater levels specifically, GSAs must place minimum thresholds for			
								each monitoring site at the level "that may lead to undesirable results."26 Under the SGMA			
								regulations, the GSA should provide a description of "the information and criteria relied upon to establish			
								minimum thresholds," an explanation of how the proposed minimum thresholds will "avoid undesirable			
								results," and "how minimum thresholds may affect the interests of beneficial uses and users of			
								groundwater."27 The GSA must also consider that drinking water use has been recognized as the "highest			
								use of water" by the California legislature, and should consult with stakeholders to ensure that the			
								minimum threshold is set is such a way as to guarantee the human right to drinking water to all			
								individuals in the subbasin.28 The Mid Kaweah GSA's approach to setting minimum thresholds			
								does not "consider the interests of" drinking water beneficial users. The GSA's proposed minimum			
								thresholds would allow the current rate of pumping (established by the trend from 2006 to 2016) to			
								continue at least until 2040, and possibly after 2040. The GSA contains an evaluation of well impacts that			
								shows that 21% of wells will go dry, but our analysis shows a much larger impact: taking into account well			
								screen intervals on domestic wells in the GSA, the attached Focused Technical Report shows that 71% of			
								the domestic wells in the GSA will be fully dewatered at the minimum threshold, and an additional 15%			
								will be partially dewatered 29 The GSA has therefore chosen to allow large amounts of pumping to occur			
								at the potential expense of up to 86% of the domestic wells in the GSA area. Since domestic well users			
								are de minimis pumpers and are not part of this aquifer-depleting pumping, this will be a			
								disproportionately negative impact on domestic users, the majority of whom belong to a group protected			
								by state civil rights law. This therefore will cause a disparate impact in violation of state civil rights law.			
							3E 33 CCD 5	In order to show that it has considered impacts on domestic well users and disadvantaged			
	I a a al contra						25 23 CCR §	communities, and ensure that it is not causing a disparate impact on groups protected from such impact			
	Leadership							by state civil law, the GSA must conduct an analysis of how many wells will be impacted by reaching			
	Counsel for							this minimum threshold, in particular domestic wells and small community system wells in			
	Justice and					Minimum Thresholds- Groundwater	354.28.28 Water	disadvantaged communities. It should also quantify the increased pumping costs associated with the			
014	Accountability	GL	LC-009	MCR-13	2	Levels	Code § 106. 29	increased lift at the projected water levels. Then, it must measure whether the impacts to wells and	PH	CP, TN	

								the sustainability goal for the basin within 20 years of Plan implementation and to continue to sustainably			
								manage the groundwater basin over the planning and implementation horizon." Measurable objectives			
								must be more ambitious than the minimum thresholds, and must be the point at which the GSA has			
								determined that it will not exceed its sustainable yield, and therefore avoid "significant and			
								unreasonable" impacts on beneficial users. The GSA has taken the 2006-2016 trend line and set			
								the measurable objective for 2040 at the groundwater elevation reached by the trend line in 2030. <i>The</i>			
								GSA has not evaluated how this groundwater elevation will affect domestic well users and			
								disadvantaged communities, whose critical drinking water resources will be impacted by a decline in			
								groundwater levels. In fact, the attached Focused Technical Report shows that approximately 64% of			
								domestic wells in the GSA area will be dewatered if groundwater levels reach the measurable objectives,			
								and an additional 9% of domestic wells will be partially dewatered. The GSA cannot therefore have			
								considered the interests of this beneficial user group in determining its measurable objectives, and is			
								likely to have a disparate impact on a protected group if it pursues this course of action. In order to			
								show that it has considered impacts on domestic well users and disadvantaged communities, and ensure			
								that it is not causing a disparate impact on groups protected from such impact by state civil law, the GSA			
								must conduct a complete analysis of how many wells will be impacted by this measurable objective, in			
								particular domestic wells and small community system wells in disadvantaged communities. It should			
								measure whether the impacts to wells are "significant and unreasonable" by consulting with domestic			
								well owners and disadvantaged communities. If its current measurable objective will cause a disparate			
								impact or cause significant and unreasonable impacts to these beneficial user groups, it must modify its			
								measurable objective to comply with its legal obligations. It is also unclear how the measurable			
								objectives will achieve the sustainable yield. The GSA must clarify how achieving the measurable			
								objectives at all representative monitoring wells will cumulatively result in attaining the sustainable yield			
								for the GSA area. The GSA must include the following in its Draft GSP to bring its measurable			
	Leadership							objectives into compliance with law: The GSA must clarify how its measurable objectives will			
	Counsel for							achieve the sustainable yield. The GSA must analyze how many wells will be fully or partially			
	Justice and					Measurable Objectives- Groundwater		dewatered at the groundwater elevation of the proposed measurable objective. The GSA must			
014	Accountability	GI	LC-010			Levels		show how it has considered the needs of all beneficial users, including drinking water users, in setting its	СР	TN	
014	,	OL.	10 010		3			SGMA charged GSAs with the responsibility to protect water quality through groundwater			
								management,30 and requires that the GSA consider the interests of all beneficial users including			
								domestic well users and disadvantaged communities.31 <i>This Draft GSP fails to incorporate</i>			
							_	performance measures and management criteria with respect to contaminants that impact human			
								health including those contaminants with established primary drinking water standards, and in doing			
							, ,, ,	so, fails to conform with the requirements of SGMA. The Draft GSP leaves drinking water users in the			
								subbasin vulnerable to increased drinking water contamination from the GSA's groundwater			
							10727.2(d)(2);	management activities or from the lack of adequate groundwater management in the subbasin. The GSA			
							10721(x)(4) 32	has not shown how it has considered the interests of beneficial users including domestic well owners and			
							Water Code §	disadvantaged communities in shaping groundwater quality sustainable management criteria.32			
							10723.2. 33 Gov.	Furthermore, as described in more detail below, the monitoring network for groundwater quality			
	Leadership						Code § 11135; Gov.	does not monitor or manage groundwater impacts for any domestic wells. The resulting impact from the			
	Counsel for										
							LCUGE Y USUUG.	IDIODOSEU SUSTAINADIE MANAREMENT CITTENA. WIII IIKEIV IEAU TO AISDATATE MIDACTS ON DIOTECTEU RIOUDS. M			
						Groundwater Quality- Disadvantaged	•	proposed sustainable management criteria, will likely lead to disparate impacts on protected groups, in conflict with state and federal law 33 30 Water Code § 10721(w)(4): 23 CCR § 354.28(c)(4), 31 Water			
014	Justice and	WO	I.C-011	MCR-18	2	Groundwater Quality- Disadvantaged	Government Code	conflict with state and federal law.33 30 Water Code § 10721(w)(4); 23 CCR § 354.28(c)(4). 31 Water	SH	IT	
014		WQ	LC-011	MCR-18	2	Groundwater Quality- Disadvantaged Communities/Domestic	Government Code §§ 12955, subd. (I).	conflict with state and federal law.33 30 Water Code § 10721(w)(4); 23 CCR § 354.28(c)(4). 31 Water Code §§ 10727.2(d)(2); 10721(x)(4) 32 Water Code § 10723.2. 33 Gov. Code § 11135; Gov. Code § 65008;	SH	ΤL	
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	Τ	Γ	Τ	 				Undesirable results are the point at which "significant and unreasonable" impacts on beneficial users	1	T		<u> </u>
								caused by degraded groundwater quality. The SGMA regulations require GSAs to justify their undesirable				
								results by including the "[p]otential effects on the beneficial uses and users of groundwater."43 GSAs				
								must also describe the "processes and criteria relied upon to define undesirable results."44 The				
								undesirable result cannot have a disparate impact on protected groups pursuant to state civil rights law. The Mid Kaweah GSA has defined a groundwater quality undesirable result as "one-third of all Subbasin				
								designated water quality monitoring sites exhibit a minimum threshold exceedance, and those				
								exceedances are all associated with GSA actions."45 Like the groundwater levels minimum				
								threshold, this definition of undesirable results is inadequate because significant and unreasonable				
								impacts will occur without triggering an undesirable result. Violating water quality standards in one-third				
								of the minimum thresholds of the entire subbasin's representative monitoring wells would have				
								unreasonably severe impacts on drinking water users. Furthermore, the vast majority of wells the GSA would allow to become contaminated before triggering plan failure would be overwhelmingly upon				
								domestic well users and disadvantaged communities, causing a disparate impact in violation of state law.				
								The GSP states that the GSA discussed these impacts with Advisory Committee members, but it cannot				
								have held an informed discussion because it did not have data on the actual potential impact to				
								beneficial users. In order to avoid these disparate impacts, the GSA must change the undesirable result or				
								define its own local undesirable result to prevent widespread drinking water impacts to protected groups				
								in the GSA area. 43 23 CCR § 354.26. 44 23 CCR § 354.26. 45 Draft GSP, p. 3-6 In order to comply with SGMA and state civil rights law, the GSA must: Define its own local interpretation				
	Leadership							of the subbasin's undesirable result. Consider the impact of its undesirable impact on all types				
	Counsel for							of beneficial users in the GSA area by evaluating the potential groundwater quality impact to beneficial				
	Justice and					Undesirable Results- Groundwater		users. Publish this analysis in the GSP, and show how it was used to define the undesirable results.				
014	Accountability	WQ	LC-013	MCR-18	2	Quality		Ensure that this undesirable result does not cause a disparate impact on protected groups under state		SH .	IT	
								disadvantaged communities46 and avoid disparate impacts on protected groups.47 In light of the impacts				
								on domestic well users and disadvantaged communities from the policy decisions discussed above, the				
								GSP must therefore include Projects and Management Actions that protect domestic well users and				
								disadvantaged communities from the drinking water impacts that will occur from the GSA's policy decisions. As noted above and on the attached Focused Technical Report, the minimum thresholds for				
								groundwater levels put more than 86% of domestic wells in the GSA area at risk of full or partial				
								dewatering, and the groundwater quality sustainability goals leave domestic wells unprotected from				
								increased contamination. Furthermore, the GSP cannot create a disparate impact on protected groups				
								pursuant to state law. Without proactive policies and projects to mitigate forthcoming disparate impacts,				
								communities and homes belonging to protected groups based on race, national origin and ethnicity will				
								experience a disproportionately negative impact in violation of state civil rights law. Because <i>the GSP as</i> written will cause a disparate impact on protected groups, and does not consider the interests of				
								domestic well users or disadvantaged communities , the GSP must include projects to prevent and				
								mitigate those impacts.48 The Draft GSP's chapter on Projects and Management Actions				
								contains two projects that may help protect against disparate impacts, but those projects as written are				
								not sufficient to prevent disparate impacts. The recharge basin next to Okieville is a positive step in the				
							Water Code §	right direction towards protecting Okieville's drinking water supply and quantity. The Small Systems (Demostic Well Owner Assistance program could halp provent disparate impacts and show				
							10723.2. 47 Gov.	Small Systems/Domestic Well Owner Assistance program could help prevent disparate impacts and show that the GSA has considered the interests of domestic well owners and small systems, but the GSA's				
								Board of Directors has not committed to doing this program, and does not define how the assistance				
							Code § 65008;	measures will be implemented or funded. Before adoption, the Mid Kaweah GSA must clearly commit to				
							Government Code	projects and management actions to prevent disparate impacts on vulnerable water users, and have				
							§§ 12955, subd. (I).	defined timelines for those projects. The Draft GSP's potential groundwater extraction				
	Leadership						48 Gov. Code § 11135; Gov. Code §	allocation program also raises 46 Water Code § 10723.2. 47 Gov. Code § 11135; Gov. Code § 65008; Government Code §§ 12955, subd. (I). 48 Gov. Code § 11135; Gov. Code § 65008; Government Code §§				
	Counsel for							12955, subd. (I). concerns from the perspective of domestic well users and disadvantaged communities.				
	Justice and					Projects and Management Actions-	Code §§ 12955,	Such a scheme could negatively impact critical drinking water resources if the GSA does not ensure that				
014	Accountability	PM	LC-014	MCR-11	2	Disadvantaged Communities/Domestic	subd. (I)	small systems, in addition to domestic wells, are exempt from pumping restrictions. In order		PH		
								Public outreach has been a critical part of the SGMA implementation process and will continue to be				
								critical in implementing the GSP. The first chapter of the Draft GSP contains a brief description of community engagement during GSP implementation, stating that the GSA will continue notifying the				
								public through email, postings, and social media about GSA board and committee meetings, and the GSA				
								will do additional presentations as resources allow. does not contain adequate information regarding				
								the plan implementation schedule and public process, annual reporting, or the potential to make				
								amendments to the GSP. In the annual report outline proposed by the GSA, public outreach is not included in any of the key sections. Additionally, in the initial GSR implementation budget, there is no				
								included in any of the key sections. Additionally, in the initial GSP implementation budget, there is no budget set aside for public outreach. This engagement is not enough to ensure that all beneficial user				
								groups are considered, or that a wide diversity of stakeholders are included in GSP implementation				
								decisions. The GSP must establish processes by which it will seek and incorporate feedback				
								from the public on an ongoing basis through direct outreach to disadvantaged communities and public				
								workshops that are held at convenient locations and times and accessible in multiple languages.				
								Additionally, proposed reconsiderations must be publicly noticed and circulated for public review and comment prior to final adoption. To ensure that the GSP is implemented properly, the GSA				
								must do the following: The GSA must include a plan for public outreach for the GSP The GSA must include a plan for public outreach for the GSP				
								implementation process. This plan should include translation services in order to meaningfully consult				
								with and consider the interest of all beneficial users. Workshops and meetings must be at an accessible				
								time and locations for all stakeholders. The GSA must include public outreach as part of the				
	l acds whi							annual reporting. The GSA must budget for public outreach. The budget should include				
	Leadership Counsel for							translation services in order to meaningfully consult with and consider the interest of all beneficial users. Clarify in the GSP that the plan may be modified as data becomes available, and that the GSA				
	Justice and							will seek and accept feedback from the public on an ongoing basis throughout plan implementation.				
1	Accountability	PO	LC-015	MCR-23	1	Public Outreach		Clarify that any modification to the GSP must be in writing, noticed and provide sufficient time for		CM		
014	Accountability	_					Ī	, , ,				1

							In enacting SGMA, the legislature found and declared that "[f]ailure to manage groundwater to prevent			
							long-term overdraft infringes on groundwater rights."53 The test of SGMA further notes 53 AB 1739			
							(2014). that "[n]othing in this part, or in any groundwater management plan adopted pursuant to this			
							part, determines or alters surface water rights or groundwater rights under common law or any			
							provision of law that determines or grants surface water rights."54 As discussed in detail above, <i>the</i>			
	Leadership						Draft GSP allows continued overdraft above the safe yield of the basin, such that drinking water wells			
	Counsel for						(especially domestic wells) will continue to go dry, infringing on the rights of overlying users of			
	Justice and					Water Code §	groundwater. The GSP must be revised to protect the rights of residents of disadvantaged communities			
014	Accountability	WR	LC-016	1	Water Rights/Groundwater Levels	10720.5(b).	and/or low-income households who hold water rights to groundwater. 54 Water Code § 10720.5(b).	PH	AF	
	,					, ,	The "reasonable and beneficial use" doctrine, to which SGMA expressly must comply,55 is codified in the			
							California Constitution. It requires that "the water resources of the State be put to beneficial use to the			
							fullest extent of which they are capable, and that the waste or unreasonable use or unreasonable method			
							of use of water be prevented, and that the conservation of such waters is to be exercised with a view to			
							the reasonable and beneficial use thereof in the interest of the people and for the public welfare." (Cal			
							Const, Art. X § 2; see also United States v. State Water Resources Control Bd. (1986) 182 Cal.App.3d 82,			
							105 ["superimposed on those basic principles defining water rights is the overriding constitutional			
							limitation that the water be used as reasonably required for the beneficial use to be served."].) The			
	Leadership						reasonable and beneficial use doctrine applies here given the negative impacts of the Draft GSP on			
	Counsel for						groundwater supply and quality, which are likely to unreasonably interfere with the use of groundwater			
	Justice and			E	Beneficial Uses- Disadvantaged	Water Code §	for drinking water and other domestic uses. As the Draft GSP authorizes waste and unreasonable use, it			
014	Accountability	DC	LC-017	1 (Communities/Domestic	10720.5(b).	conflicts with the reasonable and beneficial use doctrine and the California Constitution. 55 Water	PH		
							The "public trust" doctrine applies to the waters of the State, and establishes that "the state, as trustee,			
							has a duty to preserve this trust property from harmful diversions by water rights holders" and that thus			
							"no one has a vested right to use water in a manner harmful to the state's waters." 56The "public trust"			
							doctrine has recently been applied to groundwater where there is a hydrological connection			
							between the groundwater and a navigable surface water body.57 In Environmental Law Foundation,			
							the court held that the public trust doctrine applies to "the extraction of groundwater that adversely			
							impacts a navigable waterway" and that the government has an affirmative duty to take the public trust			
							into account in the planning and allocation of 56 United States v. State Water Resources Control Bd.			
							(1986) 182 Cal.App.3d 82, 106; see also Nat'l Audubon Soc'y v. Superior Court (1983) 33 Cal.3d 419, 426			
							["before state courts and agencies approve water diversions they should consider the effect of such			
							diversions upon interests protected by the public trust, and attempt, so far as feasible, to avoid or			
							minimize any harm to those interests."]. 57 Environmental Law Foundation v. State Water Resources			
	Leadership						Control Bd. (2018) 26 Cal.App.5th 844, 844. water resources.58 The court also specifically held that SGMA			
	Counsel for						does not supplant the requirements of the common law public trust doctrine.59 In contrast to these			
	Justice and						requirements, the Draft GSP does not consider impacts on public trust resources, or attempt to avoid			
014	Accountability	WR	LC-018	1	Water Resources/Public Trust		insofar as feasible harm to the public's interest in those resources.	PH	AF	

MID-KAWEAH GROUNDWATER SUSTAINABILITY AGENCY ADVISORY COMMITTEE MEETING

MINUTES

September 3, 2019 – 3:00 p.m. City of Visalia Wastewater Treatment Plant 7579 Ave 288 – Visalia, CA

MEMBERS PRESENT: Richard Garcia, Ed Henry, Jessi Snyder, Blake Wilbur, Mike Lane, Eric

Furtado, Mark Boyes, Lee Johnson, Soapy Mulholland

MEMBERS ABSENT: Jim Nichols

BOARD MEMBERS PRESENT: None

GSA MEMBER STAFF PRESENT: Paul Hendrix (GSA Manager), Aaron Fukuda, Trisha Whitfield

PUBLIC ATTENDEES: Leo Schulz, Trent Sherman, Liesbet Olaerts

1. CALL TO REGULAR ORDER

The meeting was opened by Chairman Wilbur at 3:05 p.m. Self-introductions of the Committee members, GSA member staff and general public were made.

2. PUBLIC COMMENT

No comments from any members of the public were given.

3. APPROVAL OF MINUTES

B. Wilbur asked if any Committee members had changes to submit regarding the minutes of the regular meeting held on July 2 and special meeting held on July 25, 2019. There being none, upon the motion of M. Boyes and second by M. Lane, the minutes were approved for filing.

4. GSP OVERVIEW SESSIONS

Tulare ID Grower Meetings – A. Fukuda summarized the multiple meetings held with growers to review and discuss the draft GSP. He noted the key issues on the minds of growers, including dairy water usage, white areas, minimum thresholds and droughts, adjacent well fields, and state actions under probationary status. Mr. Fukuda added that there was good discussion regarding the need for meters and the role of pumping allocations and groundwater markets.

City Public Meetings – P. Hendrix noted the several meetings being held within the cities of Tulare and Visalia concerning the GSP. It was further noted by T. Whitfield that the cities are placing a notification in utility billings about the GSP and associated comment period.

Okieville-Highland Acres CSD Workshop – J. Snyder then announced an upcoming workshop scheduled for September 12th in Okieville concerning the GSP and its relevance to small community and domestic wells.

5. COMMENTS ON GSP

P. Hendrix stated that no substantive comments have been submitted thus far on the draft GSP. He added that Tulare County may be submitting some comments soon, and that their consultant's review of the Plan called attention to its description of county and city general plans and water rights issues.

6. OTHER GSP PUBLIC DRAFTS

P. Hendrix indicated that the Greater Kaweah and East Kaweah GSA public drafts will be available sometime in September.

7. REAPPOINTMENTS TO ADVISORY COMMITTEE

P. Hendrix reviewed the GSA Board's action at its last meeting to reappoint the six members of the Committee whose terms have expired. The reappointments extend the term to the end of 2019, at which time the Board is to consider future reappointments such that a periodic stagger in terms will be instituted.

8. COMMITTEE MEMBER REPORTS, UPDATES

M. Lane noted that he has been asked to provide a GSP overview presentation to the Visalia Industrial Group and to the Visalia Lions Club in the near future.

9. ADJOURN

There being no other matters to come before the Committee, Mr. Wilbur adjourned the meeting at 4:45 p.m.

	Advisory Committee Chair
Attest:	
GSA Board Secretary	