

GW Monitoring Program Data Gaps August 30, 2022

Groundwater Monitoring Network Overview

- Process to assess monitoring network and data gaps
- Monitoring Network how documented in tables and exhibits
- Data gaps analysis
- Proposed process to fill data gaps
- Identification of Responsible Agencies to fill data gaps
- Monitoring Program implementation



Groundwater Monitoring Network Maps Example: Canyon GMZ





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Groundwater Monitoring Network Maps Example: Canyon GMZ



- <u>Green Circles</u> are wells that had enough data to compute a TDS and nitrate statistic in 2018.
- White circles are wells that only had a TDS or nitrate statistic. There was only enough qualifying data for one of the two constituents.
- <u>Purple triangles</u> are wells that had insufficient data available to calculate the ambient water quality statistic.
 - Considered in analysis at discretion of project scientists
 - Typically honor historical contours after point stats are lost

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Groundwater Monitoring Network Maps Example: Canyon GMZ

- Open circle filled with a purple circle wells whose qualifying data to generate statistics included data in the last three years of the 20-year analysis period: 2016, 2017 and/or 2018.
 - This was an initial indication that the well location is still being monitored.
 - <u>Black check mark in the center of the purple circle</u>, we have confirmed the well continues to be monitored.
- <u>Open circle only</u> wells whose qualifying data to generate statistics was limited to the time period from 1999 to 2015.
 - This was an initial indication that the well location is no longer monitored. As time progresses, these points will be lost as statistics since they are now confirmed to no longer be monitored.





Groundwater Monitoring Network Maps Example: Lytle GMZ

- Open circle with a black check mark (no purple circle) wells whose qualifying data to generate statistics was limited to the time period from 1999 to 2015 even though new data was available for the well in 2016, 2017, and/or 2018.
 - This means the data was not collected for the 2018 analysis.
 - See for example maps of San Jacinto Upper Pressure, Beaumont, and Lytle GMZs.
- <u>Black check mark only</u> are wells that are currently being monitored as of 2022, but did not have sufficient data to qualify for the 2018 analysis.



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Groundwater Monitoring Network Maps Example: Canyon GMZ

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Groundwater Monitoring Network Table Example: Canyon GMZ

			Table X-X. Grour	ndwater Monitoring	g Network - Canyon	GMZ	
				Sampling	Frequency		Access Decembra to Correctle and Deliver
Well ID	Owner	Well Name	(Figure X-X)	TDS	Nitrate	Agency Responsible for Water Quality Monitoring	Data to BMPTF
1211731	Eastern Municipal Water District	EMWD 05 Cienega	05 Cienega	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1211735	Lake Hemet Municipal Water District	LHMWD 02	LHMWD 02	Annually	Annually	Lake Hemet Municipal Water District	Eastern Municipal Water District
1211772	Lake Hemet Municipal Water District	LHMWD 10	LHMWD 10	Annually	Annually	Lake Hemet Municipal Water District	Eastern Municipal Water District
1211780	Lake Hemet Municipal Water District	LHMWD 14	LHMWD 14	Annually	Annually	Lake Hemet Municipal Water District	Eastern Municipal Water District
2000104	Lake Hemet Municipal Water District	LHMWD 16	LHMWD 16	Annually	Annually	Lake Hemet Municipal Water District	Eastern Municipal Water District
1211787	Lake Hemet Municipal Water District	LHMWD 04	LHMWD 04	Annually	Annually	Lake Hemet Municipal Water District	Eastern Municipal Water District
1211812	Private	Record Doe Canyon West	Canyon W.	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1211814	Private	Record Doe Canyon	Doe Canyon	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1211792	Private	Washburn Grant/Florida	Grant/FL	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1210398	Private	McMillan Adobe 01 (East)	Adobe 1	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1211807	Private	McMillan Bee Canyon	Bee Canyon	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1211779	Private	McMillan Acacia	Acacia	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District
1211819	Private	Washburn Pepper Tree	Pepper Tree	Annually	Annually	Eastern Municipal Water District	Eastern Municipal Water District





Groundwater Monitoring Network Maps Example: Lytle GMZ

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Groundwater Monitoring Network Table Example: Canyon GMZ

		Table)	(-X. Groundwater M	Aonitoring Networl	k - Lytle GMZ		
				Sampling	Frequency		
Well ID	Owner	Well Name	Well Label (Figure X-X)	TDS	Nitrate	Agency Responsible for Water Quality Monitoring	Agency Responsible to Compile and Deliver Data to BMPTF
1000449	City of Rialto	CITY 2	City 2	Monthly	Annually	City of Rialto	City of Rialto
1000511	City of San Bernardino	SBWD Lytle Creek 02	Lytle 2	Annually	Annually	City of San Bernardino	City of San Bernardino
1000260	City of San Bernardino	SBWD Mallory Street Well (Mallory 03)	Mallory 3	Annually	Monthly	City of San Bernardino	City of San Bernardino
1000424	Fontana Water Company	F28A	F28A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000421	Fontana Water Company	F29A	F29A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000400	Fontana Water Company	F32A	F32A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000398	Fontana Water Company	F34A	F34A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000418	Fontana Water Company	F36A	F36A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000425	Fontana Water Company	F40A	F40A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000388	Fontana Water Company	F42A	F42A	Annually	Annually	Fontana Water Company	Fontana Water Company
1000439	Muscoy Mutual Water Company	WELL 01	WELL 01	Triennially	Annually	Muscoy Mutual Water Company	Muscoy Mutual Water Company
1000435	Muscoy Mutual Water Company	WELL 02	WELL 02	Triennially	Annually	Muscoy Mutual Water Company	Muscoy Mutual Water Company
1000436	Muscoy Mutual Water Company	WELL 03	WELL 03	Triennially	Annually	Muscoy Mutual Water Company	Muscoy Mutual Water Company
1000454	Muscoy Mutual Water Company	WELL 04	WELL 04	Triennially	Annually	Muscoy Mutual Water Company	Muscoy Mutual Water Company
1200208	Muscoy Mutual Water Company	WELL 05	WELL 05	Triennially	Annually	Muscoy Mutual Water Company	Muscoy Mutual Water Company
1000266	Riverside Highland Water Company	LC 10	LC 10	Triennially	Annually	Riverside Highland Water Company	Riverside Highland Water Company
1000267	Riverside Highland Water Company	LC 8	LC 8	Triennially	Annually	Riverside Highland Water Company	Riverside Highland Water Company
1208827	West Valley Water District	WVWD 01A	WVWD 01A	Triennially	Quarterly	West Valley Water District	West Valley Water District
1000450	West Valley Water District	WVWD 02	WVWD 02	Triennially	Quarterly	West Valley Water District	West Valley Water District
1208007	West Valley Water District	WVWD 04A	WVWD 04A	Triennially	Quarterly	West Valley Water District	West Valley Water District
1206896	West Valley Water District	WVWD 05A	WVWD 05A	Triennially	Quarterly	West Valley Water District	West Valley Water District
1000507	West Valley Water District	WVWD 07	WVWD 07	Triennially	Quarterly	West Valley Water District	West Valley Water District
1208008	West Valley Water District	WVWD 08A	WVWD 08A	Triennially	Quarterly	West Valley Water District	West Valley Water District



Data gaps were identified qualitatively as follows:

• In areas where the storage raster shows significant aquifer volume and there are either no wells monitored or there are large spatial gaps between monitored wells.









Data gaps were identified qualitatively as follows:

• In areas where a significant spatial gap is created by wells that have generated statistics in the past but are no longer monitored.









Data gaps were identified qualitatively as follows:

• In high TDS areas where a spatial gap is created by well(s) that have generated statistics in the past but are no longer monitored.







Data gaps were identified qualitatively as follows:

• If a well is no longer monitored but occurs in an area with limited aquifer storage (grey and brown areas, it was *not deemed a data gap*.









Data gaps were identified qualitatively as follows:

• If a well is no longer monitored, but is reasonable in proximity to wells that continue to be monitored, it was not deemed a data gap.







- Are all the data gaps real? ... Probably not
 - It is not possible for us to learn enough about the specifics of updated hydrogeologic data that could refute the identification of the data gaps. This knowledge gap, which is best addressed by the agencies operating in the GMZs, was considered in the proposed process to address data gaps.
- Can all the data gaps be realistically filled? ... Probably not
 - Filling data gaps may be prohibitive for a number of reasons, including access, cost, or other reasons. This was considered in the proposed process to address data gaps.



Were Data Gaps identified in the 2022 Monitoring Program, or in any subsequent year during annual compilation of data?

- No Responsible Agencies monitor wells and update program annually per 2022 Monitoring Program implementation plan.
- Yes Responsible Agencies (1) proceed to Step 1 of addressing data gaps and (2) monitor existing wells and update program annually per 2022 Monitoring Program implementation plan.



Step 1. Determine if data gaps affect Regional Board permitting

Do wastewater discharges to the Santa Ana River and its tributaries recharge the GMZ, is recycled water reuse (direct or recharge) currently permitted in the GMZ, and/or is imported water recharge occurring in the GMZ? If no, are any of these activities planned to occur in the next five years?

No – Data gaps do not need to be filled until discharge, reuse, or recharge is planned in the GMZ within the next five-year period. Responsible Agencies for the GMZ must (1) notify the Regional Board and Task Force in writing of this finding and (2) update Regional Board annually as to any changes to the projected discharge and reuse plans.

Yes – <u>Proceed to Step 2</u> of addressing data gaps.

Responsible Agencies have up to two months to address Step 1.

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Step 2. Confirmation of Data Gaps

2a. Do the Responsible Agencies have technical information to refute the finding that a data gap exists? (For example, is there a new hydrogeologic conceptual model that illustrates that the ambient water quality storage model is outdated and would impact the identification of data gaps?)

No – Inform Regional Board and BMPTF and *immediately proceed to Step 3* of addressing data gaps.

Yes – Prepare a technical memorandum (TM) and submit to Regional Board and Task Force with the hydrogeologic evidence that identified data gaps do not need to be addressed.

The TM must include:

(1) characterization of evidence with references cited,

- (2) a proposed updated delineation of aquifer/GMZ boundary (if appropriate), and
- (3) new aquifer storage properties (including layers, if appropriate).

If yes, Responsible Agencies have up to six months to complete this step.

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Step 2. Confirmation of Data Gaps

2a. Did Regional Board accept findings of TM submitted in Step 2a (if applicable)?

- Yes Immediately *proceed to Step 2b* of addressing data gaps.
- No Immediately *proceed to Step 3* of addressing data gaps.



Step 2. Confirmation of Data Gaps

2b. Recompute antidegradation objectives for the GMZ based on revised aquifer storage model. If the GMZ already has maximum benefit objectives, skip this step and proceed to Step 3.

- Must be performed with method for computing ambient water quality for the 1954 to 1973 period.
 Prepare a brief TM documenting the findings and submit to the Regional Board and BMPTF. <u>Proceed</u> <u>to Step 2c</u>
- Alternatively, Responsible Agencies may recommend maximum-benefit objectives. If this is the recommended action, prepare a letter proposal citing the basis for selecting this approach and submit to Regional Board and Task Force for review. If the Regional Board approves, the maximum benefit demonstration will be completed based on a plan/schedule acceptable to the Regional Board.

Responsible Agencies have up to six months to complete 2b following written acceptance of 2a TM by Regional Board.

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Step 2. Confirmation of Data Gaps

2c. If applicable, do the new antidegradation objectives require a Basin Plan Amendment (meaning that based on the recalculation they are different than the current Basin Plan objectives)?

- No Responsible Agencies continue to monitor existing wells and update program annually per 2022 Monitoring Program implementation plan.
- Yes Responsible Agencies proceed to (1) support the Regional Board in preparing the Basin Plan Amendment and (2) monitor wells and update program annually per 2022 Monitoring Program implementation plan.
 - If a Basin Plan amendment is needed for multiple GMZs, the Regional Board can direct the Responsible Agencies or the Task Force to collaborate on a single amendment.

The timing to complete this step will be determined on a case-by-case basis

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Step 3. Fill Data Gaps

3a. Can data gaps be addressed by monitoring existing wells not initially identified for the monitoring program?

• Yes – Responsible Agencies prepare TM documenting expanded monitoring with newly identified existing wells and submit to the Regional Board and BMPTF. TM must include:

(1) updated map and table of monitoring program, including identification of monitoring entities

(2) commitment to annual sampling of new wells that have not previously been monitored for the first three years of monitoring, and

(3) identify if data gaps are not fully addressed with existing wells. *Proceed to Step 3b.*

 No – Responsible Agencies prepare TM documenting finding that no existing wells can be added to the monitoring network and submit to the Regional Board and BMPTF. <u>Proceed to Step 3c</u>.

Responsible Agencies have up to six months to address Step 3a

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Step 3. Fill Data Gaps

3b. Based on TM in step 3a, does Regional Board find that data gaps have been fully address with newly identified existing wells?

- No Responsible Agencies Immediately *proceed to Step 3c* to address remaining data gaps.
- Yes Responsible Agencies proceed to monitor existing wells and update program annually per 2022 Monitoring Program implementation plan.



Step 3. Fill Data Gaps

3c. Can remaining data gaps be filled through construction of new wells?

 No – if new wells cannot be constructed, Responsible Agencies must provide evidence to enable Regional Board to determine if that data gap cannot be reasonably addressed. Findings must be documented and submitted to the Regional Board and Task Force. Such a finding may trigger additional technical studies at the Regional Board's discretion. Responsible Agencies proceed to

(1) implement any Regional Board recommendations and

(2) monitor existing wells and update program annually per 2022 Monitoring Program implementation plan.

<u>Responsible Parties have six months to complete 3c following Regional Board acknowledgement of completion</u> of Step 3a or 3b.

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Step 3. Fill Data Gaps

3c. Can remaining data gaps be filled through construction of new wells?

- Yes Prepare a well siting study and monitoring well construction plan/schedule. Must include:
 - (1) well location(s) and technical specifications,
 - (2) detailed schedule to construct well(s),
 - (3) commitment to annual sampling of new for the first three years of monitoring.

Responsible Agencies proceed to (1) implement construction plan and schedule following Regional Board approval and (2) continue to monitor existing wells and update program annually per 2022 Monitoring Program implementation plan.

Responsible Parties have six months to complete 3c following Regional Board acknowledgement of completion of Step 3a or 3b.

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Who are the Responsible Agencies in each GMZ?



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San Jacinto Lower Pressure		X			1	X																						
Hemet South		X		X	2	X																						
Lakeview/Hemet North		X		X	0	X																						
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Monitoring Program Implementation

Each Year

- April June
 - Collect data from agencies responsible to collect and compile data for delivery to SAWPA
 - Agencies to identify any wells that are not longer sampled, or new wells added
 - Process and load data to project database
- July August
 - Based on agency input, update maps and tables, if necessary, ad check for any new data gaps created by loss of wells defined in 2022 Monitoring Program
 - Notify Responsible Agencies of data gap by August 30th
- September
 - Clock starts on process to fill data gaps, if applicable
- Ongoing: Track status of process to fill data gaps by GMZ

Next Steps

- Receive feedback on Data Gaps, Process to fill Data Gaps, and assignment of Responsible Agencies
- Document Monitoring Program and Data Gaps
- Circulate proposed scope for 2021 ambient water quality (within two weeks)
- Present proposed scope for 2021 ambient water quality (September meeting)
- Circulate draft groundwater monitoring program report (within two weeks of September meeting)

WE SUPPORT OUR COMMUNITIES

WE ARE WATER FOCUSED

WE TAKE PRIDE IN WHAT WE DO

WE DO WHAT'S RIGHT

WE STRIVE TO BECOME OUR BEST

WE BELIEVE IN QUALITY

WE LISTEN

WE SOLVE HARD PROBLEMS

WE SEE THE BIGGER PICTURE

WE TAKE OWNERSHIP

WE COLLABORATE

WE HAVE FUN

WE ARE WEST YOST

