



EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

Board of Directors Meeting

AGENDA

Wednesday April 12th, 2022

10:30 a.m. – 12:00 p.m.

San Joaquin County Robert J. Cabral Agricultural Center
2101 E. Earhart Avenue, Stockton, CA 95206

- I. **Call to Order/Pledge of Allegiance & Safety Announcement/Roll Call**
- II. **Scheduled Items**
 - A. Discussion / Action Items:
 1. Approval of the January 11th, 2023, Meeting Minutes (Attachment 1, Page #3)
 2. Preliminary Review of Survey Results and Next Steps for Communications and Engagement Plan
 3. 2022 Annual Report (Report at <http://www.esjgroundwater.org/Documents/Reports>)
 - a. Review of Basin Conditions and Findings ([Attachment 2 - Staff Presentation, Page #7](#))
 - b. Review of Progress and Status of Project Management Actions (GSAs)
 - c. Discussion of Additional Project Management Actions
 4. Budget Overview: Ad Hoc TAC and Steering Committee
- III. **Staff/DWR Reports**
 - A. Staff Reports
 - B. DWR Report ([Attachment 3 – Page #20](#))
 - C. Media clippings ([Attachment 4 – Page #24](#))
- IV. **Directors' Comments**
- V. **Public Comment (non-agendized items)**
- VI. **Future Agenda Items**
- VII. **Adjournment**

Next Regular Meeting
Wednesday, May 10th, 2023

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

Board of Directors Meeting

AGENDA

(Continued)

10:30 a.m. – 12:00 p.m.

San Joaquin County Robert J. Cabral Agricultural Center

Action may be taken on any item

Agendas and Minutes may also be found at <http://www.ESJGroundwater.org>

Note: If you need disability-related modification or accommodation in order to participate in this meeting, please contact San Joaquin County Public Works Water Resources Staff at (209) 468-3089 at least 48 hours prior to the start of the meeting.

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY
Board Meeting Minutes
January 11, 2023

I. CALL TO ORDER/PLEDGE OF ALLEGIANCE & SAFETY ANNOUNCEMENT/ROLL CALL

The Eastern San Joaquin Groundwater Authority (GWA) Board Meeting convened in Assembly Room 1 at the Agricultural Center and Chairman Winn called the meeting to order at 10:41am on January 11, 2023.

Angie Provencio of San Joaquin County Water Resources Division conducted roll call.

In attendance: Alan Nakanishi, David Breitenbucher, Dan Wright, Myron Blanton, Mike Henry, Eric Thorburn, John Herrick, Joe Valente, Brandon Nakagawa, Mel Panizza, and Robert Rickman.

II. SCHEDULED ITEMS

A. Discussion/Action Items:

1. Approval of Minutes of November 9th, 2022

Motion:

David Breitenbucher made motion and Mike Henry seconded to approve the minutes of the November 9, 2022, meeting.

2. Selection of Officers

Matt Zidar reviewed the JPS requirements for Selection of Officers with the board and asked if the board would like to make the nomination of Chairman. Alan Nakanishi suggested that the board nominate Robert Rickman to Chairman of the Board during this meeting. Dan Wright concurred.

Motion:

Alan Nakanishi motioned to nominate Robert Rickman to Chairman of the ESJ GWA Board and David Breitenbucher seconded the motion. The vote was unanimous.

3. 2023 Calendar and Committees: Staff Report

The ESJ GWA Board meetings for 2023 will continue to be held the second Wednesday of each month, while continuous efforts will be made to hold quarterly meetings. The same time and location will continue into 2023: at the San Joaquin County Agricultural Center (unless otherwise advised) and will begin at 10:30AM.

Proposed 2023 GWA Board Calendar
January 11, 2023
February 8 th 2023
March 8 th , 2023, Item: Annual Report (may not be required)
April 12th 2023
May 10 th , 2023, Item: Annual Budget
July 12th 2023
October 11th 2023

The board had no objections to the schedule.

4. Annual Report Process for Adoption, Delegation to ad Hoc Technical Advisory Committee and Steering Committee: Staff Report

Matt Zidar noted that the report is being prepared and will be posted to the website. Each of the GSAs provided input, data or updates regarding their project management actions, a draft was then prepared and circulated to the GSAs for comment. Comments were then used to prepare a final draft annual report. The Annual Report is due to DWR April 1st of each year. There are no requirements in either the SGMA legislation or the GSP regulations that require annual reports to be adopted or approved. In the past the Board accepted the annual report and directed submittal to DWR. Since the Board is meeting quarterly and would not meet until after the Annual Report due date, the proposed action is to delegate responsibility to the Technical Advisory Committee (TAC) to review the report, and then for the Steering Committee to discuss the TAC review, accept the report in March and direct that it be submitted by the April 1 due date. The board will then review the report and provide an opportunity for public comment in April. John Herrick requested that a draft report be sent to the board prior to the meeting and Matt Zidar agreed to send after the Steering Committee meets to allow them to make the final amendments.

Motion:

Motion: Direct the TAC to review the report and provide comments to the Steering Committee who will then consider comments, accept the report and direct submittal to DWR by April 1, 2023.

Motion was made by Eric Thorburn and seconded by Joe Valente. The vote was unanimous.

5. Department of Water Resources Facilitation Support Service Work Plan, Communications and Engagement Plan Update: Staff Report and Work Plan

Matt Zidar shared that Stantec is the DWR contractor for providing facilitation support services to SGMA agencies. Staff worked with DWR and Stantec to prepare a plan to review the prior communications and engagement plan (C&E Plan), conduct surveys and interviews, define GSA and GWA roles, and update the C&E Plan. There will be interviews with the GSA members on what they need for communications and engagement plans, review of prior C&E Plan to identify

gaps, evaluation of best practices, and work to identify the GSA and GWA needs. Matt Zidar stated there will be no action at this time, only open discussion. Alan Nakanishi stated that not many people are interested in ground water. Mike Henry stated that he's had a good turnout in Lockeford and that the locals should go to their local meetings. Brandon Nakagawa reminds the board that the GSA's are responsible for their own outreach, and they've done well doing so. Matt Zidar shared he would love to see more engagement with the public. There was discussion of forming a C&E work group, but no firm plan was established. There were no further comments. Matt Zidar stated more discussions in the future data after the interviews and survey are complete.

6. Review of 2022

Matt Zidar shared the following accomplishments in a review of 2022: the Annual Report, Closure of GSP Development Grant, Development and adoption of the Model Policy, Revised GSP and Response to DWR Comments, Round 1 SGMA Award (\$7.6M), Round 2 SGMA Application (\$20M), award of GSP Implementation Grant (500K), Technical Support Services and Drilling of Deep Wells, Initiated WAF, and Facilitation and Support Services (FSS) agreement for C&E Plan.

7. Priorities for 2023

Matt Zidar shared the following priorities for the 2023 year: Annual Report with addition of Water Quality, GWA Project Management Actions for WAF and Funding & Finance, DWR acceptance of the revised GSP, develop a Well Mitigation strategy, adopt a Communications and Engagement plan for ongoing activities and for the five year update of the GSP, Mobilizing and Planning for 5-Year Updates, and GSA Project Implementation. In addition, work to implement the Data Management System, instrument monitoring wells, revise the monitoring network and support procurement of grant funding is anticipated.

III. STAFF Reports/Water Resources

Matt Zidar shared another rain system was coming with 2-3" in the valley and 6-8" from the mountain area. He commented San Joaquin is on 183% of average in terms of rainfall, Central California Sierra snowpack is at 176% of normal, New Hogan and Comanche are both encroached into the flood pools, Mokelumne Pardee is 210% of average inflow, Calaveras is at 426% and New Melones is steady at 213%.

Robert Rickman shared that assessments need to be turned in to OES for any flood damage and if anyone has any questions, or if resources are needed, to please reach out to him or the OES. He commented that currently 150,000 sandbags have been issued and more will be purchased and encouraged the board to reach out if assistance is needed.

DWR comments were sent in by Chelsea Spier and attached to the agenda for individual review.

IV. DIRECTORS COMMENTS

No Director comments

V. PUBLIC COMMENTS

No public comments

VI. FUTURE AGENDA ITEMS

None

VII. ADJOURNMENT at 11:58AM



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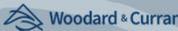
Annual Report Elements



For the preceding water year*, DWR requires reporting on:

- 1) Groundwater elevation data
- 2) Groundwater extraction information
- 3) Surface water supply used or available for use
- 4) Total water use
- 5) Change in groundwater storage

* A Water Year runs from October 1 through September 30



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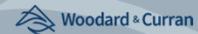
Water Year Type



- ▶ DWR classifies water years into 5 different types, based on runoff for both the Sacramento Valley and the San Joaquin Valley
 - Wet (W), Above Normal (AN), Below Normal (BN), Dry (D), Critical (C)
- ▶ San Joaquin Valley Water Year Type Index for WY 2022 not yet finalized
 - Assumed to be Critical (C) based on conversations with DWR

Water Year	Type
2019	Wet (W)
2020	Dry (D)
2021	Critical (C)
2022	Critical (C) <i>(assumed)</i>

Source: DWR Chronological Reconstructed Sacramento and San Joaquin Valley Water Year Hydrologic Classification Indices



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Groundwater Elevations

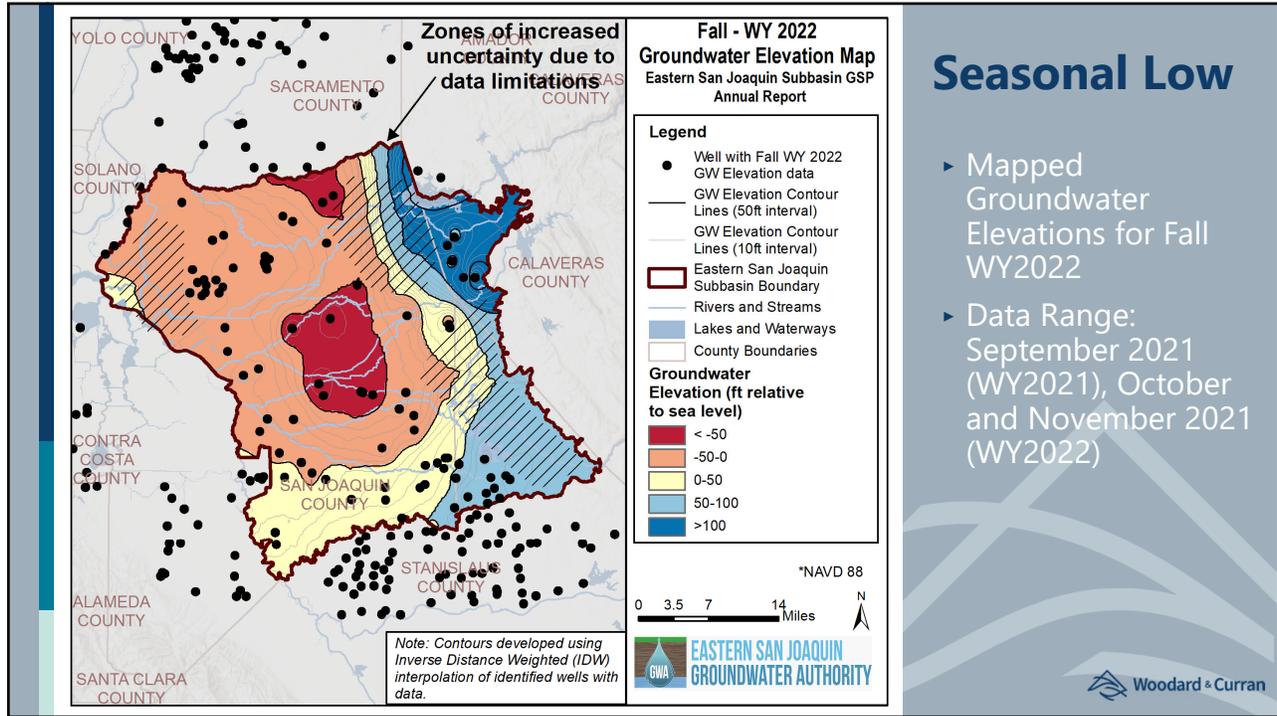


- (1) Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:
- (A) Groundwater elevation *contour maps* for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.
 - (B) *Hydrographs* of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.

*CA Code of Regs: Article 7 Section 356.2



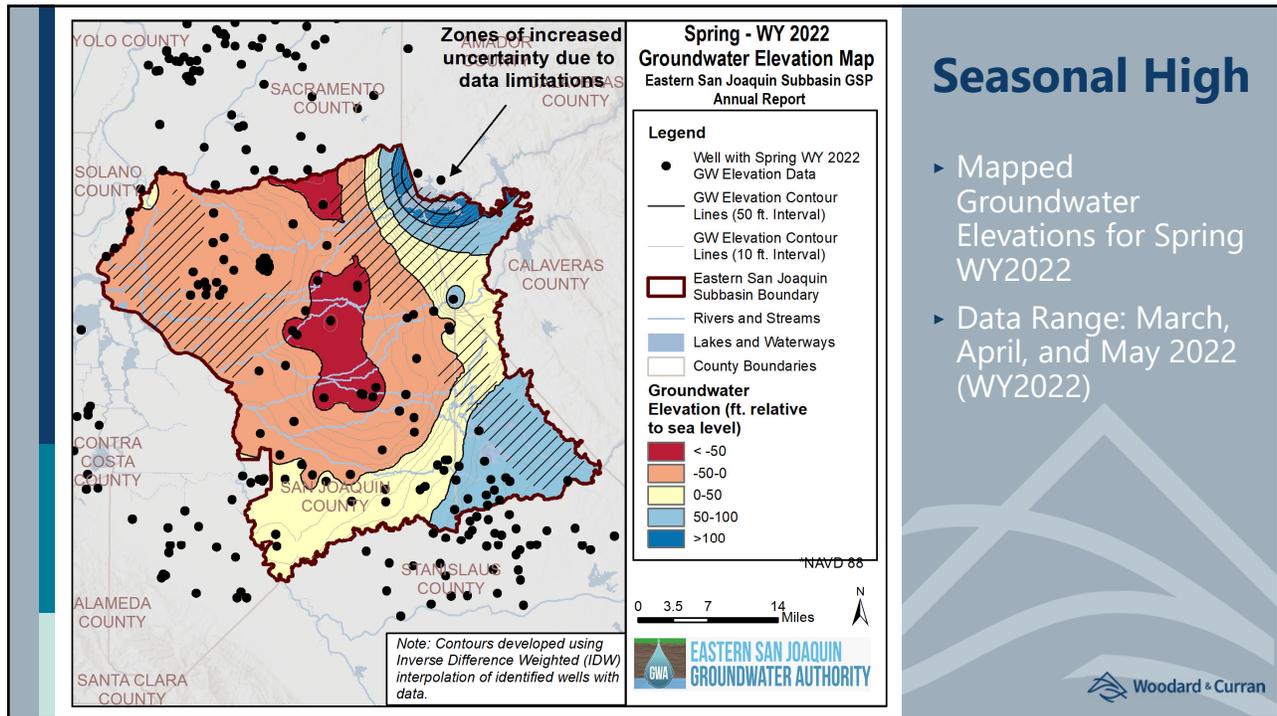
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Seasonal Low

- ▶ Mapped Groundwater Elevations for Fall WY2022
- ▶ Data Range: September 2021 (WY2021), October and November 2021 (WY2022)

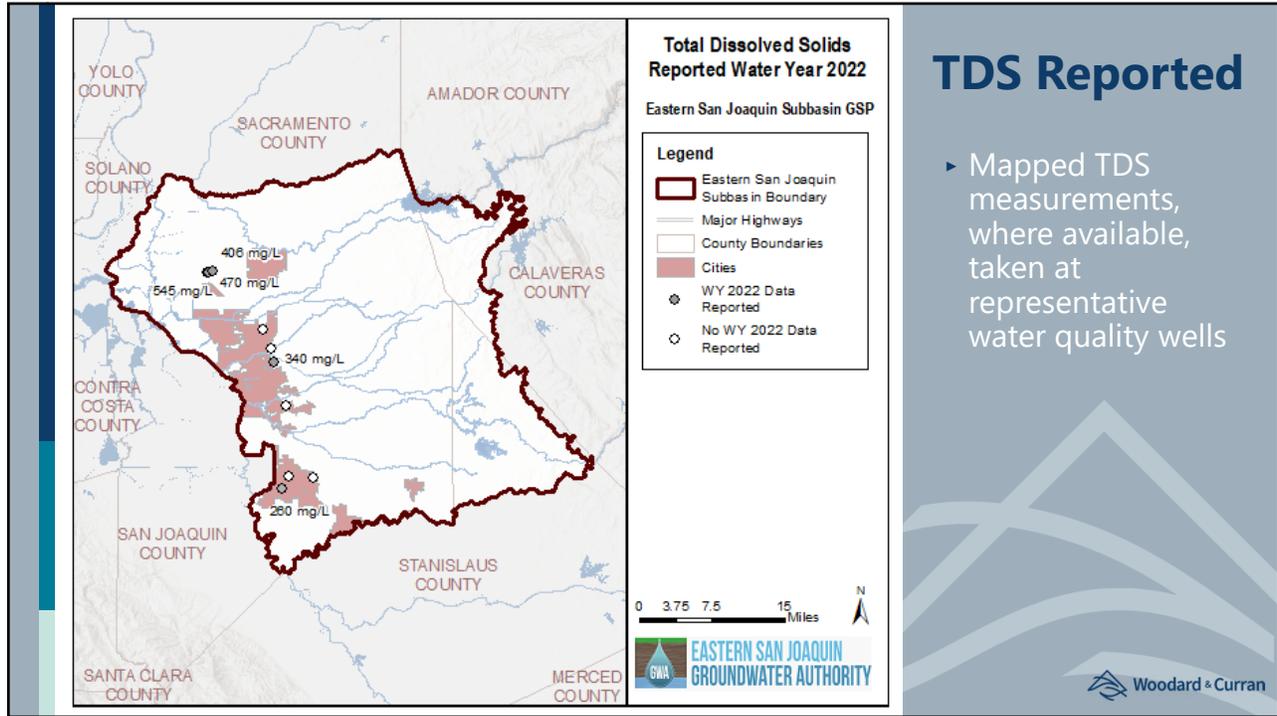
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Seasonal High

- ▶ Mapped Groundwater Elevations for Spring WY2022
- ▶ Data Range: March, April, and May 2022 (WY2022)

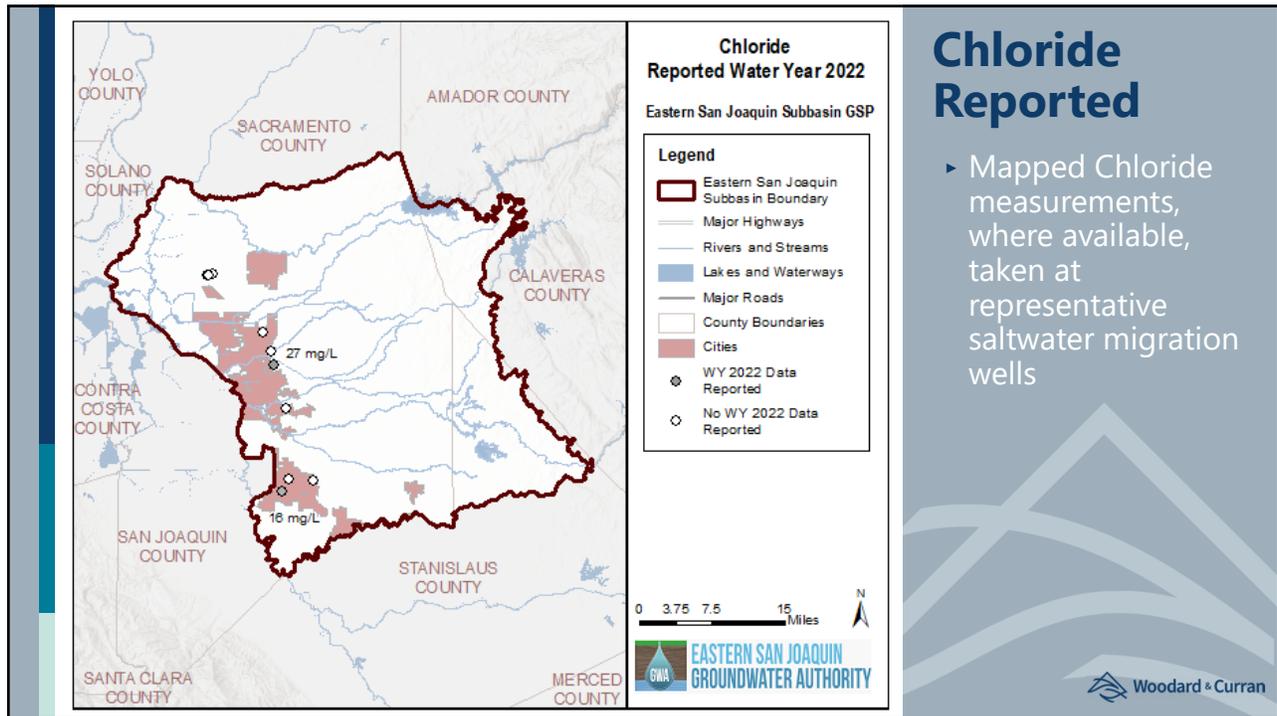
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TDS Reported

- ▶ Mapped TDS measurements, where available, taken at representative water quality wells

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Chloride Reported

- ▶ Mapped Chloride measurements, where available, taken at representative saltwater migration wells

8

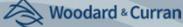
ESJWRM Update

Model-Related Requirements in WY 2022 Annual Report:

- (2) Groundwater Extraction
- (3) Surface Water Supply
- (4) Total Water Use
- (5) Change in Groundwater Storage



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ESJWRM Update

- ▶ Updated Historical ESJWRM through WY 2022
- ▶ Data was collected and incorporated into ESJWRM from the following agencies:

Municipal Water Purveyors:

- ▶ California Water Service Company Stockton District
- ▶ City of Escalon
- ▶ City of Lodi
- ▶ City of Manteca
- ▶ City of Ripon
- ▶ City of Stockton
- ▶ Linden County Water District
- ▶ Lockeford Community Services District
- ▶ Stockton East Water District

Agricultural Water Purveyors:

- ▶ Calaveras County Water District
- ▶ Central San Joaquin Water Conservation District
- ▶ North San Joaquin Water Conservation District
- ▶ Oakdale Irrigation District
- ▶ South San Joaquin Irrigation District
- ▶ Stockton East Water District
- ▶ Woodbridge Irrigation District



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Groundwater Extraction

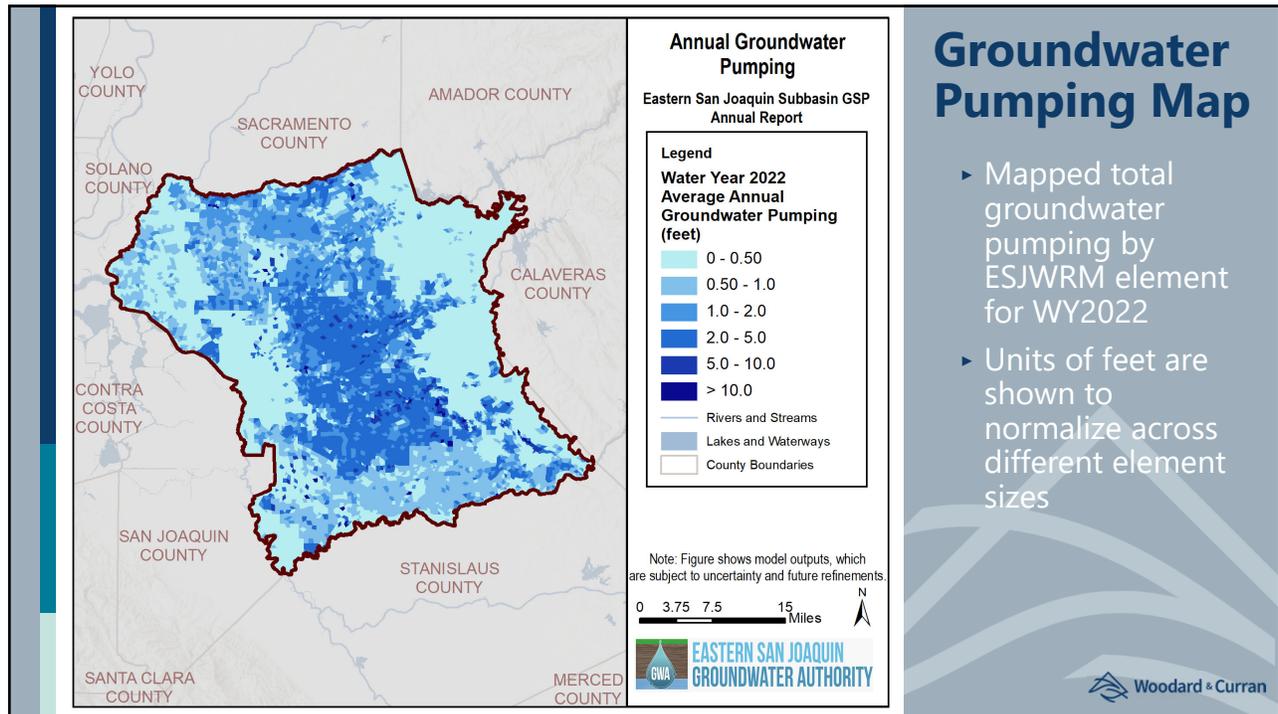


(2) Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.

***CA Code of Regs: Article 7 Section 356.2**



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Groundwater Pumping Map

- ▶ Mapped total groundwater pumping by ESJWRM element for WY2022
- ▶ Units of feet are shown to normalize across different element sizes



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Groundwater Use (AF)



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Month	Agricultural		Urban and Industrial		Total
	Agency Reported Values	Estimated Agricultural*	Agency Reported Values	Private Domestic*	
Oct-20	109	76,900	2,453	1,400	80,862
Nov-20	62	4,000	1,700	1,000	6,761
Dec-20	84	3,800	1,231	900	6,015
Jan-21	57	5,600	1,070	900	7,627
Feb-21	342	19,400	1,687	800	22,229
Mar-21	159	12,100	2,371	1,100	15,730
Apr-21	153	75,700	2,038	1,200	79,091
May-21	601	136,000	2,581	1,800	140,983
Jun-21	555	127,300	3,178	1,600	132,634
Jul-21	516	104,300	3,641	1,700	110,156
Aug-21	439	124,600	3,702	1,300	130,042
Sep-21	276	81,600	3,301	1,200	86,377
Total	3,353	771,300	28,954	14,900	818,507
Measurement Accuracy	High	Medium	High	Medium	-
Total WY 2021	5,640	752,200	26,987	24,500	809,327

* Additional groundwater pumping is estimated by the ESJWRM based on crop type, hydrologic data (precipitation and evapotranspiration), irrigation efficiency, and population information.



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Surface Water Supply



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(3) Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.

***CA Code of Regs: Article 7 Section 356.2**



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Surface Water Deliveries (AF)



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Month	Agricultural		Urban and Industrial		Total
	Agency Reported Values*	Estimated Riparian**	Agency Reported Values	Estimated in ESJWRM	
Oct-19	22,865	12,300	5,061	0	40,227
Nov-19	2,182	700	3,339	0	6,221
Dec-19	1,923	400	3,634	0	5,957
Jan-20	2,292	500	3,710	0	6,502
Feb-20	9,536	1,300	3,625	0	14,461
Mar-20	11,583	2,300	4,577	0	18,459
Apr-20	26,431	11,200	5,204	0	42,835
May-20	40,219	44,200	6,463	0	90,882
Jun-20	44,765	26,500	7,146	0	78,411
Jul-20	50,006	31,800	7,239	0	89,045
Aug-20	50,082	25,800	7,343	0	83,225
Sep-20	40,761	28,800	6,586	0	76,147
Total	302,646	185,800	63,927	0	552,372
Measurement Accuracy	High	Medium	High	Medium	-

* Agency reported values reflect deliveries to meet demand, which was based on evapotranspiration and land use.
** Estimated agricultural surface water deliveries include deliveries to Central Delta Water Authority, South Delta Water Authority, and riparian users along major streams.

Total WY 2021	317,786	193,500	63,311	0	574,597
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Groundwater Recharge or In-Lieu Use



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- ▶ Agencies conducting in-lieu recharge include Cal Water, CCWD, City of Escalon, City of Lodi, City of Manteca, City of Ripon, City of Stockton, CSJWCD, LCWD, LCSD, NSJWCD, OID, SSJID, SEWD, and WID. Riparian users of surface water are also benefitting from in-lieu recharge.
- ▶ Direct recharge projects exist in NSJWCD and SEWD and recharged almost 8,700 AF in WY 2022



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Total Water Use (AF)



Month	Agricultural						Urban and Industrial						Total
	Direct Measurement			Estimated in ESJWRM*			Direct Measurement			Estimated in ESJWRM*			
	Groundwater	Surface Water	Total	Groundwater	Surface Water	Total	Groundwater	Surface Water	Total	Groundwater	Surface Water	Total	
10	109	22865	22,974	76,900	12,300	89,200	2,453	5,061	7,514	1,400	0	1,400	121,088
11	62	2182	2,244	4,000	700	4,700	1,700	3,339	5,039	1,000	0	1,000	12,982
12	84	1923	2,007	3,800	400	4,200	1,231	3,634	4,866	900	0	900	11,972
1	57	2292	2,349	5,600	500	6,100	1,070	3,710	4,780	900	0	900	14,130
2	342	9536	9,878	19,400	1,300	20,700	1,687	3,625	5,312	800	0	800	36,690
3	159	11583	11,741	12,100	2,300	14,400	2,371	4,577	6,948	1,100	0	1,100	34,189
4	153	26431	26,584	75,700	11,200	86,900	2,038	5,204	7,242	1,200	0	1,200	121,926
5	601	40219	40,820	136,000	44,200	180,200	2,581	6,463	9,044	1,800	0	1,800	231,864
6	555	44765	45,320	127,300	26,500	153,800	3,178	7,146	10,324	1,600	0	1,600	211,045
7	516	50006	50,521	104,300	31,800	136,100	3,641	7,239	10,880	1,700	0	1,700	199,201
8	439	50082	50,522	124,600	25,800	150,400	3,702	7,343	11,045	1,300	0	1,300	213,267
9	276	40761	41,037	81,600	28,800	110,400	3,301	6,586	9,887	1,200	0	1,200	162,524
Total	3,353	302,646	305,998	771,300	185,800	957,100	28,954	63,927	92,881	14,900	0	14,900	1,370,879
Measurement Accuracy	High	High	High	Medium	Medium	Medium	High	High	High	Medium	Medium	Medium	-

* Includes estimated agricultural groundwater use, estimated private domestic groundwater use, and estimated riparian surface water use. See previous tables for further details.

For Comparison:

Total WY 2021	5,640	317,786	323,426	752,200	193,500	945,700	26,987	63,311	90,299	24,500	0	24,500	1,383,924
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Groundwater Storage

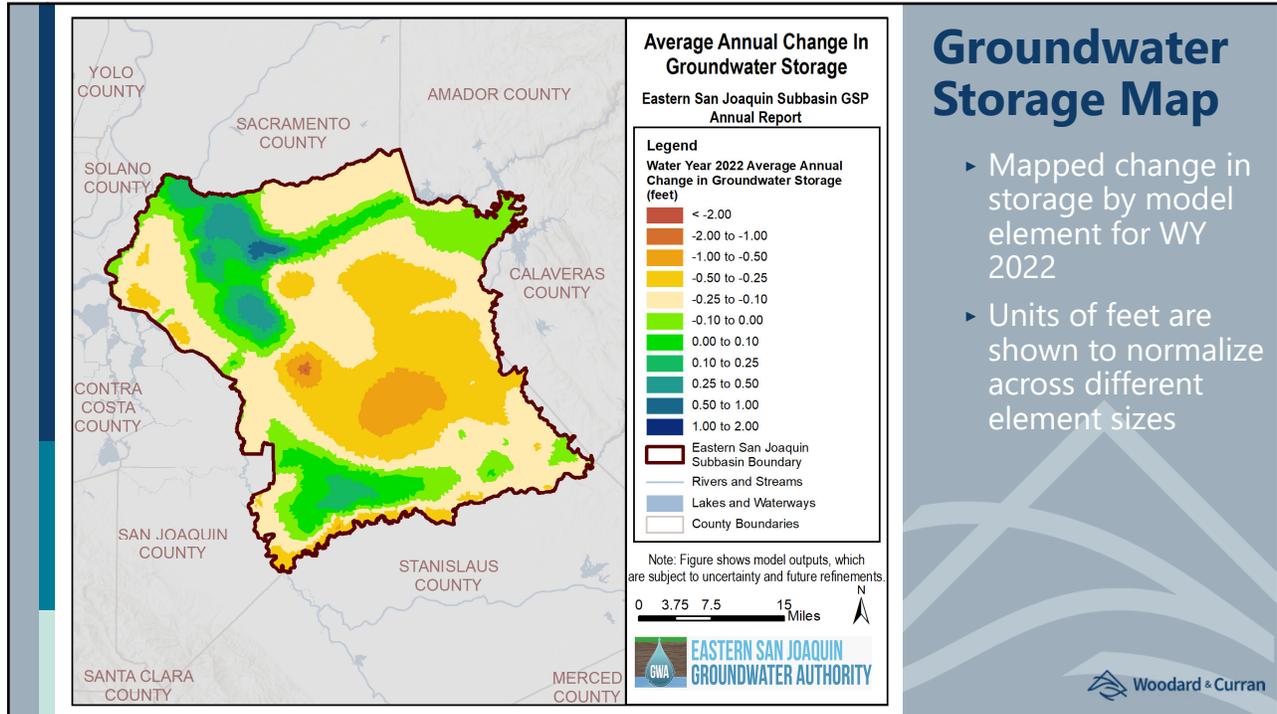


(5) Change in groundwater in storage shall include the following:

- (A) Change in groundwater in storage maps for each principal aquifer in the basin
- (B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.

*CA Code of Regs: Article 7 Section 356.2

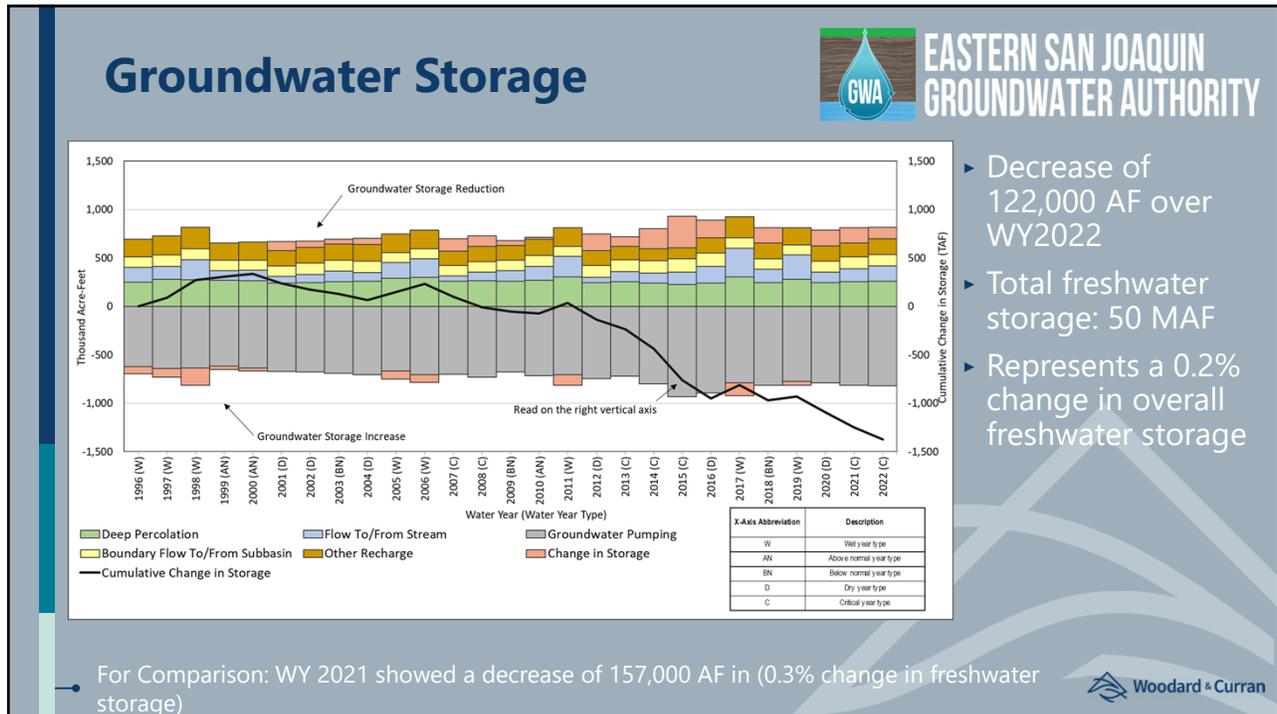




Groundwater Storage Map

- ▶ Mapped change in storage by model element for WY 2022
- ▶ Units of feet are shown to normalize across different element sizes

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Status of SMC*

Groundwater Levels

- ▶ No representative monitoring network wells reported groundwater levels below the minimum thresholds
- ▶ Many wells met or exceeded their measurable objectives

Groundwater Storage*

- ▶ Storage during WY 2022 decreased by 122,000 AF, which is only 0.2% of the total freshwater in storage

Groundwater Quality

- ▶ No reported monitoring wells for water quality reported levels above the minimum thresholds
- ▶ All reported monitoring wells met their measurable objectives

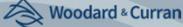
Saltwater Migration

- ▶ No reported monitoring wells for water quality reported levels above the minimum thresholds
- ▶ All reported monitoring wells met their measurable objectives

*The groundwater storage, land subsidence, and depletion of interconnected surface water sustainability indicators use the groundwater level SMC as a proxy. There were no minimum threshold exceedances for groundwater levels; therefore, there were no land subsidence sustainability threshold exceedances.



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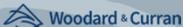
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Status of Projects and Management Actions



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Project	Status
Lake Grube In-lieu Recharge	<ul style="list-style-type: none"> • Project is substantially complete. Meter installation and some finishing work pending.
SEWD Surface Water Implementation Expansion	<ul style="list-style-type: none"> • Project being implemented in stages. Conversion of 1,820 acres to surface water has been completed; an additional 942 acres are in the conversion process; and planning to convert an additional 1,048 acres. • Continued outreach efforts and improvements to convert an additional 3,000 acres to surface water.
NSJWCD South System Modernization	<ul style="list-style-type: none"> • Phase 1: Completed in 2019-2021 including - new pump station, variable frequency drive (VFD), meters, automation equipment, SCADA, new main junction box at Tretheway and Brandt Road. • Phase 2: Improvements include replacing sections of main pipeline and adding more meters and SCADA (Construction planned for 2023). • Phase 3: Awarded a \$3M IRWM grant for Phase 3 South System improvements to focus on more mainline replacement and groundwater recharge capacity.

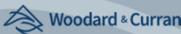


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Status of Projects and Management Actions



Project	Status
Long-term Water Transfer to SEWD and CSJWCD	<ul style="list-style-type: none"> OID and SJJID completed a one-year water transfer to SEWD (13,823 AF) from March-July 2022. Parties have also recently agreed to terms on a 10-year pre-1914 water transfer for up to 10,000 AF in critical years and up to 20,000 AF in non-critical years pending compliance with CEQA.
South System Groundwater Banking with EBMUD	<ul style="list-style-type: none"> NSJWCD and EBMUD working to complete the pilot DREAM Project. Facilities complete and water that was banked in prior years will be returned in February - March 2023. Planning efforts for a larger scale banking project are underway.
NSJWCD North System Modernization/Lakso Recharge	<ul style="list-style-type: none"> Awarded Proposition 68 Round 2 funding \$3.9M. Work underway to prepare master plan and make Phase 1 improvements including facilities necessary to operate Lakso recharge project. Working with landowners to form improvement district to use surface water for irrigation and on-farm recharge in wet years.

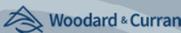


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Status of Projects and Management Actions



Project	Status
Tecklenberg Recharge Project	<ul style="list-style-type: none"> District in negotiations to purchase property and acquire necessary easements in first quarter of 2023. Will prepare design plans in 2023 and construct in 2023-2024
Delta Water Supply Project Phase 2, Groundwater Improvement Project	<ul style="list-style-type: none"> Request for proposals released in early spring of 2022. Contract was awarded and the geotechnical study began in July of 2022 and expected to be completed early spring 2023. Once geotechnical study complete, design and construction of the basin(s) will begin



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Status of Projects and Management Actions



New Projects Added in WY 2022	Status
Wallace-Burson Conjunctive Use Program	<ul style="list-style-type: none"> • Conceptual planning and discussion phase
Calaveras River Wholesale Water Service Expansion	<ul style="list-style-type: none"> • Conceptual planning and discussion phase
AMI Replacement and Conversion – CCWD	<ul style="list-style-type: none"> • Complete
Groundwater Monitoring Plan – NSJWCD	<ul style="list-style-type: none"> • Ongoing
Recycled Water to Manteca Golf Course	<ul style="list-style-type: none"> • City is updating its Reclaimed Water Master Plan to include RW to the Golf Course • 12-in reclaimed water pipeline has been installed
West Groundwater Recharge Basin	<ul style="list-style-type: none"> • Currently in the design stage with first phase construction beginning summer 2022 • Estimated completion in approximately 2032.

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Annual Report Submittal to DWR



- ▶ Annual Report Document
- ▶ GSP Annual Report Elements Guide (“Crosswalk”)
 - Included in the Annual Report Document itself
- ▶ DWR Data Upload Templates
 - Part A: Groundwater Extractions
 - Part B: Groundwater Extractions Methods
 - Part C: Surface Water Supply
 - Part D: Total Water Use

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April 2023 DWR Updates (from DWR's North Central Region Office)

Grants

California Grants Portal

The California State Library, in partnership with the Department of Water Resources and other state grantmaking agencies, has launched the California Grants Portal – your one destination to find all state grant and loan opportunities provided on a first-come or competitive basis. Visit grants.ca.gov to find funding opportunities for you and your community.

SB552: DWR's County Drought Resilience Planning Assistance for state small water system and domestic wells **DWR will provide financial or direct technical assistance to counties (up to \$125,000)** for developing their County Drought Resilience Plan per SB 552 to provide needed water shortage protection and emergency response for state small water systems and domestic wells. A webinar kicking off the availability of these assistance opportunities was held March 16. A recording of the presentation will be available shortly, but [applications and additional information can also be found here](#). For questions, email CountyDRP@water.ca.gov or call Julie Ekstrom at 916-612-4371. **Applications are being accepted now through December 29, 2023.**

ICARP: Regional Resilience Grant Program

The ICARP [Regional Resilience Grant Program](#) (RRGP) is pleased to invite responses to key surveys that mark the beginning of the application process for RRGF funding: the [Intent to Apply Survey and the Request for Help Survey](#). This program funds regional climate resilience efforts, including identifying climate resilience priorities, building capacity, and implementing projects, that respond to a region's greatest climate risks. **The first step in applying to RRGF's funding is filling out the Intent to Apply Survey.** The RRGF application will be available Wednesday, April 26, 2023. Applicants interested in applying for the RRGF but not ready to submit the Intent to Apply Survey may reach out to RRGF staff for help through the Request for Help Survey or by emailing icarp.grants@opr.ca.gov.

Water tank program for dry wells

DWR in partnership with CalOES, DGS, and Water Boards has a new tank program for domestic wells that have gone dry. Eligible Applicants Include: public agencies, public utilities, special districts, colleges and universities, mutual water companies, nonprofit organizations, federally recognized tribes and state tribes listed on the NAHC's consultation list. Under the program, 2,500 gallon tanks are pre-purchased by DWR. The program includes funding for the tanks to be delivered to residence and connected to their existing plumbing with a small pump, and for water hauling to fill the tanks to meet basic health and sanitation needs. For more information contact: smallcommunitydrought@water.ca.gov or Alena Misaghi at (559) 230-3309.

Other state & federal grant websites for resources that may be helpful are:

- California Financing Coordinating Committee -- <https://cfcc.ca.gov/>, and
- CalOES grants -- <https://www.caloes.ca.gov/cal-oes-divisions/grants-management>
- US EPA -- <https://www.epa.gov/grants/specific-epa-grant-programs>, and
- Economic Development Administration -- <https://eda.gov/funding-opportunities/>

Upcoming conferences, webinars, new reports and data

NEW: Executive Order N-4-23: Streamlining Recharge Using Floodwater

On March 10, 2023, Governor Newsom signed Executive Order N-4-23, which set forth the conditions under which water users may capture and divert floodwater for groundwater recharge – temporarily lifting regulations and setting clear conditions for diverting flood stage water without state permits to boost groundwater recharge storage. The Executive Order suspends certain regulatory requirements under conditions of imminent risk of flooding during this Spring's runoff months until June 1, 2023. For more information a [press release](#), [the EO](#), and an [overview fact sheet](#) can be seen here. A joint webinar hosted by DWR, SWRCB, and CDFW was held Thursday March 23, 2023 from 1-2:30 pm, [recording available here](#), [SWRCB reporting page](#) and for other data information and mapping resource tutorials, please visit the [DWR webpage](#).

April 2023 DWR Updates (from DWR's North Central Region Office)

DWR Releases the Latest California's Groundwater Conditions, Semi-Annual Update

DWR has released the latest version of [California's Groundwater Conditions, Semi-Annual Update: March, 2023](#). This update provides information on statewide groundwater levels, land subsidence, and well infrastructure, including dry well reporting, and summarizes the effects of the current and historical drought periods on California's groundwater conditions. For the first time, this Semi-Annual Update takes a look at groundwater extraction and change in storage data submitted to DWR in annual reports as part of ongoing efforts to manage groundwater basins under SGMA.

California's Water Supply Strategy: Adapting to a Hotter, Drier Future

August 11, 2022 Governor Newsom announced a new strategic document to manage water in the face of a projected 10% reduction in supplies over the next 20 years. The strategy calls for investing in new sources of water supply, accelerating projects and modernizing how the state manages water through new technology to increase water supply and adapt to more extreme weather patterns caused by climate change. The [full strategy document](#) can be found here and a [press release here](#).

[Under this directive DWR is partnering with SWRCB to fast-track efforts to capture flood waters to recharge groundwater basins](#). The State's efforts reached a milestone January 6 when the State Water Board approved a six-month permit that will enable multiple landowners to divert excess flows from Mariposa creek near the City of Merced to recharge a key groundwater basin. The Merced Project permit, the first approved under a new pilot regulatory assistance program, is expected to pave the way for future projects to allow water from wet-weather storms to be captured and diverted. The permit application authorizes multiple diversions by multiple landowners of up to 10,000 acre-feet of water from the creek during periods of high flows that would otherwise likely flow through the system. Currently there are five applications pending, with two more projected to be approved next week. The remaining three are going through a public noticing process. [A fact sheet on DWR Regulatory Assistance: Temporary Water Rights for Groundwater Recharge can be found here](#).

Protecting California's water supply is more important than ever as we brace for another year of drought conditions. The California Rural Water Association (CRWA), in partnership with the Department of Water Resources, is offering FREE leak detection surveys for small water systems. **If you are a small (including Tribal) water system with 3,000 connections or less, sign up for a free leak detection survey today! Please contact Luis Carmona at: lcarmona@calruralwater.org or 916-283-8509 x109 to get started.**

Executive Order N-7-22

On March 28, 2022 Governor Newsom signed [Executive Order N-7-22](#), which **included new well permitting requirements (Action 9) as well as CEAQ exemptions and permit streamlining for FloodMAR projects (Action 13)**. The materials including a fact sheets, recording and presentation materials from the April 13th and a self-certification form for the CEQA waiver are now posted on DWR's Drought Webpage, under the 'Drought Well Permitting Requirements' and the 'CEQA Suspension on Groundwater Recharge Projects' accordion dropdowns: <https://water.ca.gov/water-basics/drought>. **This EO has been slightly modified in 2023 and the updated [EO-N-3-23](#) which includes the opportunity to send recommendations for further drought related actions and views on existing actions to the governor no later than April 28, 2023.**

DWR's Climate Change Program Resources

DWR's Climate change program has lots of initiatives including resources for water managers. Check out their [webpage](#) and [factsheet](#) here.

California's Groundwater Live: Up-to-date data on groundwater conditions, well installations and subsidence

April 2023 DWR Updates (from DWR's North Central Region Office)

The Department of Water Resources (DWR) released the final [California's Groundwater – Update 2020 \(Bulletin-118\)](#), containing information on the condition of the State's groundwater, DWR has also developed a companion web-based application called [California's Groundwater Live](#) (CalGW Live), leveraging the [California Natural Resources Agency Open Data Platform](#) (Open Data) to improve the access and timeliness of statewide groundwater information. The easy-to-use interface will make many of the data sets used in CalGW Update 2020 available in an interactive map format that will be updated regularly for viewing and downloading. For more information, visit the updated [California's Groundwater website](#) Contact: CalGW@water.ca.gov.

OpenET makes tracking water use data easier with satellite data

A space-based tool is ready to help track water in the western U.S. Using data from satellites, [Open Evapotranspiration](#) (OpenET) gives farmers and other water users information on how much of their water loss ends up as evapotranspiration. The OpenET data are available for 17 western states, including the Colorado River basin area.

SGMA & Drought

Update Your GSA and GSP Manager Point of Contact Information in DWR's SGMA Portal

If your GSA and/or GSP Plan Manager Point of Contact (POC) is not current, or you are not sure, please visit the SGMA Portal to ensure that your contact information is up-to-date. When logged in, the Portal allows edits to be made to previously submitted contact information. If you have SGMA Portal questions, please email them to: GSPSubmittal@water.ca.gov.

Save the Date: Spring GSA Forum: Save-the-Date (April 19, 2023)

DWR hosts bi-annual Groundwater Sustainability Agency (GSA) Forums for GSA members and representatives. These forums are a platform for GSAs to come together to engage and exchange ideas on topics related to implementation of GSPs, and to help GSAs establish professional networks. The agenda and registration link will be shared as details are finalized. A recording of the fall forum focused on Funding SGMA Implementation [can be viewed here](#).

DWR Releases GSP Determinations: 3/2/23

The California Department of Water Resources (Department) released decisions on revised groundwater sustainability plans (GSPs) submitted by local groundwater sustainability agencies (GSAs) in 12 critically overdrafted basins located in the Central Coast and the San Joaquin Valley. Of the 12 basins, the Department issued Inadequate determinations to six basins and notification letters to the remaining six basins that their GSPs are recommended to be Approved with Recommended Corrective Actions. In its technical review of the revised GSPs, the Department found sufficient action has not been taken to address one or more deficiencies in the six Inadequate subbasins, which include: Chowchilla Subbasin, Delta-Mendota Subbasin, Kaweah Subbasin, Kern County Subbasin, Tulare Lake Subbasin, and Tule Subbasin. The determinations can be found on the Department's [SGMA Portal](#). The six Inadequate subbasins are now under State intervention, overseen by the State Water Resources Control Board under SGMA.

Groundwater platform announces expanding list of partners

A coalition of organizations and State agencies have announced [expansion in the number of partners](#) in for the [Groundwater Accounting Platform](#). The platform was initially developed in partnership with the Rosedale-Rio Bravo Water District. Now the platform is adding three new pilot project partners from Merced, Santa Cruz, and Yolo counties. Information from the platform is designed to help groundwater agencies with efforts to prevent dry wells and water supply shortages.

SB552: DWR's Water Shortage Vulnerability Scoring and Tool

April 2023 DWR Updates (from DWR's North Central Region Office)

As part of its technical assistance to support SB 552 implementation, DWR developed the [Water Shortage Vulnerability Scoring and Tool](#) to provide the foundational data and information statewide to counties for their water shortage risk assessment.

Dry Well Susceptibility Map

The DWR, in coordination with the State Water Resources Control Board, has developed an interactive mapping tool, called the Dry Well Susceptibility Tool. This tool identifies areas within groundwater basins that may be prone to water supply shortages in drinking water wells. State and local agencies and well owners can use this tool to anticipate where wells may go dry based on historical conditions to inform drought preparedness decision-making. To use this tool, navigate to [California's Groundwater Live website](#) and click the [Dry Domestic Well Susceptibility tab](#). A fact sheet on this tool, as well as DWR's Dry Well Reporting System, [is available here](#).

Dry Well Reporting Site

There is a website available to [report private wells going dry](#). Information reported to this site is intended to inform state and local agencies on drought impacts on household water supplies. The data reported on this site (excluding personal identifiable information) can be viewed on the [SGMA data viewer](#) or downloaded on the [CNRA Atlas](#). Individuals or local agencies can report water shortages and [a list of resources are included on the webpage](#). The reporting forms are available in both English and Spanish. Local agencies can now sign up to receive notifications of any dry wells reported in their area. To sign up please email sgmps@water.ca.gov.

DWR is developing eight Proposition 68-funded technical projects

These projects include airborne electromagnetic surveys, improving groundwater elevation and quality monitoring networks, Statewide land use data collection, improved subsidence monitoring network, installing and maintaining stream gauges, maintaining and enhancing statewide well completion reports, managing and reporting sustainable groundwater information, and enhancing and maintaining DWR's modeling tools. Fact sheets on each project can be viewed under the "Prop 68" tab [here](#).

- [AEM webpage](#) contains information on the how the process works, safety, schedule, data submission by GSAs, TAC, pilot study data and more. Public webinar was held **June 8th 12:00 – 1:00**, a [recording can be viewed here](#) and [handouts can be downloaded here](#). Draft Airborne Electromagnetic (AEM) resistivity **data for the entire Central Valley have been published** on the [California Natural Resources Agency Open Data Portal](#). The dataset can also be viewed online on the [AEM Data Viewer](#). DWR's AEM surveys will continue this Spring. Visit the AEM Survey Schedule webpage for more information on the tentative data publication dates.
- **2020 Statewide Crop Mapping data** was released in **March of 2023** and includes multi-cropping information. The 2020 dataset includes agricultural land use and urban boundaries for all 58 counties in California. The 2020 data can now be accessed at the following locations: [CA DWR Land Use Viewer](#) (viewing and downloading); [CNRA Webpage](#) (viewing and downloading), and will soon be available on the [SGMA Data Viewer](#) (viewing) and the [California State Geoportal](#) (viewing and downloading). A provisional release of Statewide 2021 land use data within the next few week.
- **InSAR subsidence data** is now available [through October 1 of 2022](#) and can now be viewed on the [SGMA data viewer](#). The updated GIS services and data reports are also available [online](#). Future data will be released on a quarterly basis.

Facilitation Support Services (FSS): [Funding still available](#)

- GSA's developing GSPs are eligible to receive funding for identification and engagement of interested parties, meeting facilitation, interest-based negotiation/consensus building, and public outreach facilitation
- More information [can be found here](#). Written translation services available in 8 languages for outreach materials (5,000 word maximum).



EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

Memo

To: GWA Board

From: Matt Zidar, Water Resources Manager

RE: Staff Report, Media Clippings

Date: April 7, 2023

Groundwater recharge: Our time to shine. “The illustrated map below was part of a presentation given by state officials this week to bring attention to the tremendous opportunity that exists right now to recharge vast amounts of [surface water](#) into the San Joaquin Valley groundwater [aquifer](#). The numbers that stand out to me are these: The Southern Sierra mountains show nearly 3.5 million acre-feet of projected runoff anticipated to flow through the Southern San Joaquin Valley over the next several months. Groundwater depletion in the last two years has been over 7 million acre-feet in the Valley. There is a lot of room for this surplus flood water to fill up the aquifer if we can slow the water down and disperse it over the landscape, hopefully in an organized and safe way. ...” [Read more from the Milk Producers Council](#).

FEATURE: The Magic of the Mokelumne: How such a small river produces so many salmon. From <https://mavensnotebook.com/2023/03/28/feature-the-magic-of-the-mokelumne-how-such-a-small-river-produces-so-many-salmon/>. [Robin Meadows](#), [News and Features](#), March 28, 2023 [7](#) 9338

[Amid well-drilling and pumping, calls grow for stronger California water regulation](#)

Los Angeles Times, 2/23/23. In 2014, California adopted a landmark law aimed at combating excessive groundwater pumping, especially in farming areas of the San Joaquin Valley where many families were seeing their wells sputter and run dry. More than eight years later, many local agencies are still working on long-term groundwater sustainability plans. Water levels have continued to decline, and in many areas household wells have continued to dry up — including some that have failed since torrential rains soaked the state in January.

[Why It's Hard for California to Store More Water Underground](#)

The New York Times, 2/27/23 - Despite the storms that have deluged California this winter, the state remains dogged by drought. And one of the simplest solutions — collecting and storing rainfall — is far more complicated than it seems.

[Biden-Harris Administration Announces Almost \\$166 Million for California for Clean Water Infrastructure Upgrades Through the Bipartisan Infrastructure Law](#)

United States Environmental Protection Agency, 2/24/23 - Today, the U.S. Environmental Protection Agency (EPA) announced over \$2.4 billion from President Biden's Bipartisan Infrastructure Law for states, Tribes, and territories through this year's Clean Water State Revolving Fund (CWSRF), including almost \$166 million for California. The funding will support communities in upgrading essential water, wastewater, and stormwater infrastructure that protects public health and treasured water bodies across the nation. Nearly half of this funding will be available as grants or principal forgiveness loans helping underserved communities across America invest in water infrastructure, while creating good-paying jobs.

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AB 460 and SB 389. Pre-1914 and Riparian rights. Article - Legislation impacting these rights.

<https://www.hthglaw.com/proposed-legislation-would-grant-the-state-water-resources-control-board-new-authority-over-all-surface-water-diversions/>. Printable version here: <https://www.hthglaw.com/wp-content/uploads/sites/531/2023/02/RAF-Web-Article-re-surface-water-00412375xC24FB.pdf>

Farmers race to sink water into ground after storms. February 22, 2023. From <https://www.agalert.com/california-ag-news/archives/february-222023/farmers-race-to-sink-water-into-ground-after-storms/>

Growers in the San Joaquin Valley are hurriedly building temporary groundwater sinking basins to take advantage of inexpensive, uncontrolled seasonal water. And they are racing to replenish underground water supplies that could carry them through drier years ahead.

[California Advances Groundwater Sustainability with Release of Decisions for Management Plans in Critically Overdrafted Basins](#)

CA Department of Water Resources, 3/2/23 - The Department of Water Resources (DWR) today announced decisions for groundwater sustainability plans (GSPs) for 12 critically overdrafted groundwater basins in Central California.

[How California Is Using Recent Floods To Recharge Groundwater](#)

The Weather Channel, 3/16/2023 - Even as California reels from a series of drenching atmospheric river-fed storms and near-record snowfall, the drought-plagued state has approved a plan to replenish its groundwater.

Regional water partners' first aquifer recharge and groundwater test a success

“Water agencies in California’s Central Valley and East Bay took a major step forward in February on a joint pilot project to diversify water supplies, enhance drought resilience and restore a depleted aquifer through [groundwater recharge](#). For the first time, the East Bay Municipal Utility District (EBMUD) extracted groundwater banked deep below farmland in San Joaquin County into the utility’s Mokelumne aqueducts, which convey [surface water](#) from Pardee Reservoir in the Sierra Nevada foothills to customers in the East Bay. This extraction was a key step for DREAM – short for Demonstration Recharge, Extraction and Aquifer Management – a pilot project involving EBMUD, North San Joaquin Water Conservation District, San Joaquin County, and Eastern Water Alliance. The unique urban-agricultural partnership is designed to improve water supply reliability for both San Joaquin County farmers and EBMUD customers in Alameda and Contra Costa counties while recharging the critically over-drafted Eastern San Joaquin County Groundwater Basin. ...” [Read more from the County of San Joaquin](#).

