

REGULAR MEETING OF THE FLORIN RESOURCE CONSERVATION DISTRICT BOARD OF DIRECTORS

Agenda

Tuesday, October 18, 2022

6:00 PM

Join Zoom Meeting: <https://zoom.us/j/88087813278>

Join by Phone: Dial US +1 669 900 6833 Meeting ID: 880 8781 3278

Compliance with Government Code Section 54957.5

Public records, including writings related to an agenda item for an open session of a regular meeting of the Florin Resources Conservation District that are distributed less than 72 hours before the meeting, are available by email request. In addition, such writings may be posted, whenever possible, on the Elk Grove Water District website at www.egwd.org. The Board will discuss all items on the agenda and may take action on any item listed as an "Action" item. The Board may discuss items that do not appear on the agenda but will not act on those items unless there is a need to take immediate action and the Board determines by a two-thirds (2/3) vote that the need for action arose after posting of the agenda. If necessary, the Meeting will be adjourned to Closed Session to discuss items on the agenda listed under "Closed Session." At the conclusion of the Closed Session, the meeting will reconvene to "Open Session."

CALL TO ORDER, ROLL CALL AND PLEDGE OF ALLEGIANCE

Public Comment

This is the opportunity for the public to comment on non-agenda items within the subject matter jurisdiction. Comments are limited to three (3) minutes.

Page Numbers

1. Florin Resource Conservation District Board Meetings by Teleconference

4-6

(Stefani Phillips, Human Resources Administrator/Board Secretary)

Associate Director Comment

Public Comment

Recommended Action/Information:

Consider finding by a majority vote under Gov. Code § 54953, subd. (e)(1)(B) that as a result of the COVID-19 emergency: (i) meeting in person would present imminent risks to the health or safety of attendees; and (ii) the meeting is authorized to be held by teleconference pursuant to Gov. Code § 54953, subd. (e)(1)(C).

2. Proclamations and Announcements

- a. Recognition of Patrick Lee for five years of service.
- b. Recognition of Steve Shaw for fifteen years of service.
- c. Recognition of John Vance for fifteen years of service.
- d. Recognition of Donella Murillo for twenty years of service.

Associate Director Comment

Public Comment

3. Consent Calendar	7-8
(Stefani Phillips, Board Secretary and Patrick Lee, Treasurer)	
a. Minutes of Regular Board Meeting of September 20, 2022	9-11
b. Accounts Payable Check History – September 2022	12-15
c. Board and Employee Expense/Reimbursements – September 2022	16
d. Active Accounts – September 2022	17
e. Bond Covenant Status for FY 2022-23 – September 2022	18
f. CASH - Detail Schedule of Investments – September 2022	19
g. Consultants Expenses – September 2022	20
h. Major Capital Improvement Projects – September 2022	21

Associate Director Comment

Public Comment

Recommended Action/Information: Approve Florin Resource Conservation District Consent Calendar items a – h.

4. Elk Grove Water District Fiscal Year 2022-23 Quarterly Operating Budget Status Report	22-29
---	--------------

(Patrick Lee, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

Recommended Action/Information: Information only.

5. Elk Grove Water District Fiscal Year 2022-23 Quarterly Capital Reserve Status Report	30-33
--	--------------

(Patrick Lee, Finance Manager/Treasurer)

Associate Director Comment

Public Comment

Recommended Action/Information: Information only.

6. Groundwater Workshop – California’s Groundwater Conditions Semi-Annual Updates	34-72
--	--------------

(Bruce Kamilos, General Manager)

Associate Director Comment

Public Comment

Recommended Action/Information: Information only.

7. Future Florin Resource Conservation District Board Meetings	73-74
---	--------------

(Stefani Phillips, Board Secretary)

Associate Director Comment

Public Comment

Recommended Action/Information: Approve future board meetings be held in person beginning November 2022.

8. Filter Train “D” Media Replacement – Railroad Water Treatment Plant **75-81**
(Ben Voelz, Associate Engineer)

Associate Director Comment

Public Comment

Recommended Action/Information: Authorize the General Manager to execute a purchase order in the amount of \$60,590.60 to Kleen Industrial Services to procure replacement filter media.

9. Legislative Matters and Potential Direction to Staff **82-84**
(Travis Franklin, Program Manager)

Associate Director Comment

Public Comment

Recommended Action/Information: Information only.

10. General Manager’s Report **85-86**
(Bruce Kamilos, General Manager)

Associate Director Comment

Public Comment

Recommended Action/Information: Information only.

11. Elk Grove Water District Operations Report – September 2022 **87-147**
(Bruce Kamilos, General Manager)

Associate Director Comment

Public Comment

Recommended Action/Information: Information only.

12. Directors Comments

Adjourn to Regular Meeting – November 15, 2022

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Stefani Phillips, Human Resources Administrator/Board Secretary

SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT BOARD MEETING BY TELECONFERENCE**

RECOMMENDATION

This item is being presented to the Florin Resource Conservation District Board of Directors to consider finding by a majority vote under Gov. Code § 54953, subd. (e)(1)(B) that as a result of the COVID-19 emergency: (i) meeting in person would present imminent risks to the health or safety of attendees; and (ii) the meeting is authorized to be held by teleconference pursuant to Gov. Code § 54953, subd. (e)(1)(C).

SUMMARY

The Florin Resource Conservation District (FRCD) Board of Directors (Board) has conducted board meetings by teleconference since April 21, 2020. On September 15, 2021, the Governor passed Assembly Bill (AB) 361 extending the allowance of public board meetings to be conducted by teleconference effective October 1, 2021, through December 31, 2023. The Board voted that meetings continue to be conducted by teleconference in accordance with AB-361 and concurred that this item be brought back each month for action.

DISCUSSION

Background

Governor Newsom issued Executive Order N-29-20 which allows public agencies to hold board meetings by teleconference without violating the Brown Act. On April 21, 2020, the Board began conducting board meetings by teleconference. Fast forward, Governor Newsom passed AB-361 extending the allowance of public board meetings to be conducted by teleconference through December 31, 2023.

The Board voted that meetings continue to be conducted by teleconference in accordance with AB-361 and concurred that this item be brought back each month for action.

In light of the Governor's declaration that a state of emergency exists due to the incidence and spread of the novel coronavirus, and the pandemic caused by the resulting disease COVID-19, the Board should consider whether meeting in person would present imminent risks to the health or safety of meeting attendees.

FLORIN RESOURCE CONSERVATION DISTRICT BOARD MEETINGS BY TELECONFERENCE

Page 2

COVID-19, the Board should consider whether meeting in person would present imminent risks to the health or safety of meeting attendees.

The Centers for Disease Control indicates that COVID-19 is a highly transmissible virus that is spread when an infected person breathes out droplets and very small particles that contain the virus, and such droplets and particles are breathed in by other people. Variants of the virus continue to emerge, presenting an imminent risk to the health and safety of meeting attendees.

Present Situation

Conducting meetings by teleconference would directly reduce the risk of transmission among meeting attendees, including members of the public and staff, which has the ancillary effect of reducing risk of serious illness and death, as well as reducing community spread of the virus.

To meet by teleconference under AB-361, local agency boards must include an initial agenda item, such as this, to consider finding that the circumstances allowing a teleconference meeting under AB-361 exist. At the October 2021 regular board meeting, the Board reviewed this commencing agenda item and voted that meetings continue to be conducted by teleconference in accordance with AB-361. They also concurred that this item be brought back each month for action.

If the authorization to meet by teleconference is not approved by a majority vote, then the meeting will adjourn after this item and the remaining agenda items will be rescheduled to a future in-person meeting.

If authorization to meet by teleconference is approved by a majority vote, staff will continue to bring a re-authorization to the Board as an action item, at every regular board meeting, until such time the Board determines meetings will continue in person.

Staff recommends that the Board consider finding by a majority vote, that as a result of the COVID-19 emergency, meeting in person would present imminent risks to the health or safety of attendees, and the meeting should be held by teleconference as authorized by subdivision (e)(1)(C) of section 54943 of the Government Code.

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

October 18, 2022

**FLORIN RESOURCE CONSERVATION DISTRICT BOARD MEETINGS BY
TELECONFERENCE**

Page 3

STRATEGIC PLAN CONFORMITY

This item conforms with Strategic Goal No. 1, Governance and Customer Engagement, of the Strategic Plan 2020-2025.

FINANCIAL SUMMARY

There is no direct financial impact associated with this report.

Respectfully submitted,



STEFANI PHILLIPS,
HUMAN RESOURCES ADMINISTRATOR/BOARD SECRETARY

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Stefani Phillips, Board Secretary and Patrick Lee, Treasurer

SUBJECT: **CONSENT CALENDAR**

RECOMMENDATION

It is recommended that the Florin Resource Conservation District Board of Directors approve Florin Resource Conservation District Consent Calendar items a – h.

SUMMARY

Consent Calendar items a – h are standing items on the Regular Board Meeting agenda.

By this action, the Florin Resource Conservation District (FRCD) Board of Directors will approve FRCD Consent Calendar items a – h.

DISCUSSION

Background

Consent Calendar items are standing items on the Regular Board Meeting agenda.

Present Situation

Consent Calendar items a – h are standing items on the Regular Board Meeting agenda.

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

STRATEGIC PLAN CONFORMITY

This item conforms to the FRCD/Elk Grove Water District 2020-2025 Strategic Plan. The monthly Consent Calendar report provides transparency, which aligns with Goal No. 1, Governance and Customer Engagement, of the Strategic Plan 2020-2025.

October 18, 2022

CONSENT CALENDAR

Page 2

FINANCIAL SUMMARY

There is no financial impact associated with this report.

Respectfully Submitted,



STEFANI PHILLIPS
BOARD SECRETARY

And



PATRICK LEE
TREASURER

Attachments

**MINUTES OF THE REGULAR MEETING OF THE
FLORIN RESOURCE CONSERVATION DISTRICT
BOARD OF DIRECTORS**

Tuesday, September 20, 2022

The regular meeting of the Florin Resource Conservation District Board of Directors was called to order at 6:00 p.m. by Vice-chair Tom Nelson via Zoom.

Call to Order, Roll Call, and Pledge of Allegiance.

Directors Present: Tom Nelson, Paul Lindsay, Lisa Medina, Elliot Mulberg
Directors Absent: Sophia Scherman
Staff Present: Bruce Kamilos, General Manager; Patrick Lee, Finance
Manager/Treasurer; Stefani Phillips, Human Resources Administrator/
Board Secretary; Donella Murillo, Finance Supervisor; Ben Voelz,
Associate Engineer; Amber Kavert, Human Resources Technician
Staff Absent: Travis Franklin, Program Manager
Associate Directors Present: None
Associate Directors Absent: None
General Counsel Present: Ren Nosky, JRG Attorneys at Law

Public Comment

No comment.

1. Future Florin Resource Conservation District Board Meeting by Teleconference

Board Secretary Stefani Phillips presented the item to the Florin Resource Conservation District (District) Board of Directors (Board).

In summary, the Board has conducted board meetings by teleconference since April 21, 2020. On September 30, 2021, Executive Order No. N-29-20, which allows for board meetings to be conducted by teleconference expired. On September 15, 2021, the Governor passed Assembly Bill (AB) 361 extending the allowance of public board meetings to be conducted by teleconference effective October 1, 2021, through December 31, 2023. At the September regular board meeting, the Board concurred that meetings continue to be conducted by teleconference in accordance with AB-361. To meet by teleconference under AB-361, local agency boards must include an initial agenda item to consider finding that the circumstances allowing a teleconference meeting under AB-361 exist. After the initial meeting, if 30 days or less have elapsed since the last meeting, an agenda item should be included to renew the determination that meeting in person presents health risks. However, if more than 30 days have passed, an initial agenda item must be included to re-authorize meeting by teleconference under AB-361.

MSC (Nelson/Mulberg), to find by a majority vote under Gov. Code § 54953, subd. (e)(1)(B) that because of the COVID-19 emergency: (i) meeting in person would present imminent risks to the health or safety of attendees; and (ii) the meeting is authorized to be held by teleconference pursuant to Gov. Code § 54953, subd. (e)(1)(C). 4/0: Ayes: Lindsay, Nelson, Medina, and Mulberg.

2. Proclamations and Announcements

Nothing to report.

3. Consent Calendar

- a. Minutes of Regular Board Meeting of August 16, 2022
- b. Accounts Payable Check History – August 2022
- c. Board and Employee Expense/Reimbursements – August 2022

- d. Active Accounts – August 2022
- e. Bond Covenant Status for FY 2022-23 – August 2022
- f. CASH - Detail Schedule of Investments – August 2022
- g. Consultants Expenses – August 2022
- h. Major Capital Improvement Projects – August 2022

MSC (Medina/Lindsay) to approve Florin Resource Conservation District Consent Calendar items a-h. 4/0: Ayes: Lindsay, Nelson, Medina, and Mulberg.

4. Year to Date Revenues and Expenses Compared to Budget – August 2022

Finance Manager Patrick Lee presented the item to the Board.

5. Professional Services Agreement for Preparation of the 2024-2028 Water Rate and Connection Fee Study

Mr. Lee presented the item to the Board.

In summary, as part of the 2020-2025 Strategic Plan, the District is due to conduct a review of the Elk Grove Water District (EGWD) water rates to ensure sufficient revenue requirement coverage for its operational, debt service and capital expenses for the years 2024-2028. The last water rate study was completed and adopted by the Board in June 2018 and a new study was identified by the Board as a key objective for fiscal year 2022-23. On August 1, 2022, staff issued a Request for Proposals for a Water Rate and Connection Fee Study (Study) for the EGWD to determine the EGWD's revenue requirements to cover operational, capital and debt service costs for years 2024-2028. The District only received one (1) proposal from Raftelis. Staff recommends the Board authorize the general manager to execute a professional services agreement with Raftelis and authorize staff to form a Community Advisory Committee (CAC) to assist with input on the Study.

A discussion ensued regarding how many members of the public would make up the CAC, as well as how many Board members. Staff will work with general counsel, Chair and Vice-chair to determine how the CAC is approved and what the makeup of the CAC looks like.

MSC (Medina/Mulberg) to authorize: 1) The General Manager to execute a professional services agreement with Raftelis in an amount not-to-exceed \$68,746 for the preparation of the 2024-2028 Water Rate and Connection Fee Study for the Elk Grove Water District; and 2) Staff to proceed with forming a Community Advisory Committee to assist with providing input on the Study. 4/0: Ayes: Lindsay, Nelson, Medina, and Mulberg.

6. Water Professionals Appreciation Week

General Manager Bruce Kamilos presented the item to the Board.

In summary, California's sixth annual Water Professionals Appreciation Week kicked off October 1, 2022, highlighting the important role of water industry professionals and local public water agencies in ensuring safe and reliable water, wastewater, and recycled water operations in California. To extend its appreciation to Elk Grove Water District employees and all water professionals, staff recommended that the Board adopt Resolution No. 09.20.22.01, declaring October 1-9, 2022, Water Professionals Appreciation Week.

MSC (Lindsay/Mulberg) to adopt Resolution No. 09.20.22.01, declaring October 1-9, 2022, Water Professionals Appreciation Week. 4/0: Ayes: Lindsay, Nelson, Medina, and Mulberg.

7. Groundwater Workshop – Groundwater Substitution Transfers

Mr. Kamilos presented a PowerPoint presentation on groundwater substitution transfers.

8. Elk Grove Water District Well Siting and Design Study and Source Capacity Update

Mr. Kamilos presented the item to the Board.

In summary, a key objective for last fiscal year was to complete an update of the District's source capacity. On February 15, 2022, the Board revised this key objective to include conducting a new well siting and design study. Staff recommended, and the Board agreed, that conducting a Well Siting and Design Study (Study) was important as it would help the District plan for a new well in the future as part of its asset management program. To complete the Study, the District contracted with Wood Rodgers. The Study analyzed available parcels within the District that would meet minimum space requirements to accommodate a drilling rig and regulatory clearances from existing utilities. The results of that analysis yielded six (6) potential well site locations, and Wood Rodgers ultimately narrowed its recommendations to two (2) well sites. The Study also evaluated well design considerations, methods of water quality treatment, and estimated capital costs specific to each proposed well site location. Additionally, staff conducted a source capacity update by following the procedures outlined in section 64554 of Title 22, California Code of Regulations. The source capacity update is meant to determine if the District has sufficient source capacity to meet maximum day demand and peak hour demand.

MSC (Lindsay/Medina) to accept and file the Elk Grove Water District Well Siting and Design Study. 4/0: Ayes: Lindsay, Nelson, Medina, and Mulberg.

9. General Managers Report

Mr. Kamilos presented the item to the Board.

In summary, Mr. Kamilos explained that the District is now operating in the new Administration Building and that staff will bring back an agenda item for returning to in person meetings at the next meeting. He also mentioned there is no need for a county election, as the total number of candidates for the Board equaled the number of positions needs to be filled, saving the District \$250,000.

10. Elk Grove Water District Operations Report – August 2022

Mr. Kamilos presented the EGWD Operations Report – August 2022 to the Board.

11. Directors Comments

Mr. Lee informed the Board that the Government Finance Officers Association (GFOA) has identified legislation that will require municipalities to enhance their financial reporting, which will create an increase in cost to those agencies. The GFOA is recommending agencies to send a letter of non-support. The board asked staff to bring back a letter to the next meeting.

The board asked that staff bring back an item on the agenda regarding rules for the Board Chambers.

12. Closed Session

Nothing to report.

Adjourn to Regular Board Meeting on October 18, 2022.

Respectfully submitted,

Stefani Phillips

Stefani Phillips, Board Secretary

AK/SP

Check History Report

9/1/2022 to 9/30/2022
Elk Grove Water District

Check Number	Check Date	Vendor Number	Name	Check Amount	Explanation
055953	9/8/2022	A.P.TH0	A.P. THOMAS CONSTRUCTION, INC	130,800.16	9829 Waterman Road - Improvements (construction)
055954	9/8/2022	A1 TOWI	A1 TOWING SERVICE, LLC	317.00	Distribution Vehicle Accident - Reimbursed by ACWA JPIA
055955	9/8/2022	ACWA JP	ACWA JPIA	67,148.54	Medical Benefits - October 2022
055956	9/8/2022	AMAZON	AMAZON CAPITAL SERVICES	984.84	(2) Invoices - Materials, Software Items
055957	9/8/2022	BEN RES	BENEFIT RESOURCE, INC	125.00	Daily Tasks/Help Tickets
055958	9/8/2022	BG SOLU	SOLUTIONS BY BG INC.	14,570.00	Materials - Treatment
055959	9/8/2022	BRENNITA	BRENNITAG PACIFIC, INC	1,379.51	Sampling - Treatment
055960	9/8/2022	BSK4	BSK ASSOCIATES	1,911.00	Ethernet Service/Phones-MOC/ADMIN
055961	9/8/2022	CONSOLI	CONSOLIDATED COMMUNICATIONS	1,575.02	
055962	9/8/2022	COVER A	COVERALL NORTH AMERICA, INC	499.00	
055963	9/8/2022	CROWN P	CROWN PLUMBING SACRAMENTO	678.00	Repairs - ADMIN 9829 Waterman Road
055964	9/8/2022	DATAPRO	DATAPROSE LLC	518.70	CCR Advertisement
055965	9/8/2022	DATAPRO	DATAPROSE LLC	570.96	Insert - We've Moved
055966	9/8/2022	DATAPRO	DATAPROSE LLC	6,688.40	August - Billing, Postage & Insert
055967	9/8/2022	DB COLS	DB CONSTRUCTIONAL LANDSCAPE	3,150.00	Landscape & Maintenance - Wellsite's & Offices
055968	9/8/2022	DITCH 3	DITCH WITCH WEST	155.97	
055969	9/8/2022	EARL CO	EARL CONSULTING CO., LLC	1,620.00	Project Management - New ADMIN Building
055970	9/8/2022	INT STA	INTERSTATE OIL COMPANY	2,886.94	Fuel
055971	9/8/2022	INT STA	INTERSTATE OIL COMPANY	1,593.02	Fuel
055972	9/8/2022	JAYS	JAY'S TRUCKING SERVICE	2,471.43	Mud Dump & Materials - 2nd Ave
055973	9/8/2022	JPIA	ACWA/JOINT POWERS INSURANCE	264.00	Reimbursement of over payment for Towing (Distribution Accident)
055974	9/8/2022	KAISER3	THE PERMANENTE MEDICAL	115.00	
055975	9/8/2022	LCW	LIEBERT CASSIDY WHITMORE	689.00	Legal - August - 2022
055976	9/8/2022	PAGE	PAGE SUPPLY CORP	3,308.72	(5) Invoices - Materials & Supplies - Distribution
055977	9/8/2022	PIT 6	PITNEY BOWES GLOBAL FINANCIAL SERVICES LLC	178.42	
055978	9/8/2022	PLATT2	PLATT	151.40	
055979	9/8/2022	PMI	PERRYMAN MECHANICAL, INC.	626.99	Repairs & Maintenance - AC Unit - Well #4
055980	9/8/2022	RDO	RDO EQUIPMENT CO.	1,023.27	Repairs & Maintenance - Vector
055981	9/8/2022	SIERRA	SIERRA OFFICE SUPPLIES	139.99	
055982	9/8/2022	SMUD	SMUD	7,300.36	
055983	9/8/2022	SMUD	SMUD	2,349.10	
055984	9/8/2022	SMUD	SMUD	9,445.96	
055985	9/8/2022	SMUD	SMUD	14,062.54	
055986	9/8/2022	SMUD	SMUD	1,385.07	
055987	9/8/2022	SMUD	SMUD	53.28	
055988	9/8/2022	SMUD	SMUD	681.41	
055989	9/8/2022	SMUD	SMUD	8,244.01	
055990	9/8/2022	SMUD	SMUD	2,097.08	
055991	9/8/2022	SMUD	SMUD	857.70	
055992	9/8/2022	SOFTWAR	SOFTWAREONE, INC	1,457.20	Cisco Umbrellas Web Filtering Software
055993	9/8/2022	TRE&TRA	TRENCH & TRAFFIC SUPPLY	1,628.21	Equipment Rental - 2nd Ave
055994	9/8/2022	VALLEYO	VALLEY OAK PRESS, INC.	175.00	Unclaimed Funds Advertisement - Legal Notice
055995	9/8/2022	WALKER	WALKER KREATIVE	1,800.00	Social Media Public Outreach Campaign
055996	9/14/2022	AMAZON	AMAZON CAPITAL SERVICES	1,237.62	(7) Invoices - Materials, Supplies, Tools
055997	9/14/2022	AQUA	AQUA SIERRA CONTROLS, INC	1,483.33	*Annual Instrument Service & Calibrations (2) ABB Mag Meters

055998	9/14/2022	BACK TE	BACKFLOW TECHNOLOGIES, INC	2,145.00	Contracted Services - Backflow Testing
055999	9/14/2022	BAY 3	BAY ALARM COMPANY	22,187.32	Installation Charge & Equipment Sale, Monitoring
056000	9/14/2022	BRENNITA	BRENNITAG PACIFIC, INC	2,707.98	Materials - Treatment
056001	9/14/2022	BSK4	BSK ASSOCIATES	48.00	Sampling - Treatment
056002	9/14/2022	CDW	CDW GOVERNMENT	6,742.31	* Annual Security Scanning Software - ADMIN/OPS
056003	9/14/2022	CHECK P	CHECK PROCESSORS, INC	351.30	
056004	9/14/2022	CINTAS2	CINTAS	342.58	
056005	9/14/2022	CS BK	CARD SERVICES	6,147.60	Meals, Software Programs, P.E. License Renewal, ACWA 2022 Fall Conf, Comp Testing
056006	9/14/2022	CS BV	CARD SERVICES	1,787.36	Tools, BF Prevention Course (DF), Materials
056007	9/14/2022	CS DM	CARD SERVICES	565.84	CSMFO Annual Membership, Supplies, Software Programs, Employee Appreciation BBQ
056008	9/14/2022	CS SP	CARD SERVICES	668.96	Materials, Software Programs, Employee Appreciation BBQ
056009	9/14/2022	CS SS	CARD SERVICES	247.36	Materials, Repairs & Maintenance Vehicles
056010	9/14/2022	CSPL	CARD SERVICES	51.75	Materials, USPS Address change
056011	9/14/2022	ELK LOC	ELK GROVE LOCK AND SAFE CO	149.00	
056012	9/14/2022	FERRELL	FERRELLGAS	41.41	
056013	9/14/2022	HACH	HACH COMPANY	294.46	
056014	9/14/2022	HAVEN T	HAVEN TECHNOLOGY CORP.	4,654.09	Customer Service Lobby Microphones
056015	9/14/2022	HOLT	HOLT OF CALIFORNIA	2,985.48	Rental Equipment - Dump Truck - 2nd Ave
056016	9/14/2022	JRG	JRG ATTORNEYS, LLP	1,242.00	Legal - August 2022
056017	9/14/2022	LANSET	LANSET AMERICA	1,339.81	Disaster Recover - MOC/ADMIN
056018	9/14/2022	METRO2	METRO MAILING SERVICE	2,105.16	Summer Water Drop Printing
056019	9/14/2022	OREILLY	O'REILLY AUTO PARTS	94.12	
056020	9/14/2022	PACE	PACE SUPPLY CORP	1,511.85	(2) Invoices - Materials, Supplies - Distribution
056021	9/14/2022	RADIAL	RADIAL TIRE OF ELK GROVE	1,163.89	Pipe Trailer - New Tires - Utility Crew
056022	9/14/2022	REPUBLI	REPUBLIC SERVICES #922	38.74	
056023	9/14/2022	S CHEM	SIERRA CHEMICAL COMPANY	1,394.16	Materials - Treatment
056024	9/14/2022	SAC 5	SACRAMENTO COUNTY	20.00	Lien Release
056025	9/14/2022	SAC 5	SACRAMENTO COUNTY	20.00	Lien Release
056026	9/14/2022	SAC 5	SACRAMENTO COUNTY	20.00	Lien Release
056027	9/14/2022	SAC 5	SACRAMENTO COUNTY	20.00	Lien Release
056028	9/14/2022	SWRCB2	SWRCB-DWOCP	60.00	Distribution Certification D2 - Brandon Kent
056029	9/14/2022	SWRCB2	SWRCB-DWOCP	60.00	Treatment Certification Renewal T2 - Brandon Kent
056030	9/14/2022	ULTRA	ULTRA TRUCK WORKS, INC	135.00	
056031	9/14/2022	VERIZON	VERIZON WIRELESS	540.64	
056032	9/21/2022	AMAZON	AMAZON CAPITAL SERVICES	161.54	(2) Invoices - Materials, Supplies
056033	9/21/2022	BG SOLU	SOLUTIONS BY BG INC.	9,955.31	Daily Tasks/Help Tickets
056034	9/21/2022	BSK4	BSK ASSOCIATES	313.00	Sampling - Treatment
056035	9/21/2022	CAL CUT	CALIFORNIA CUT & CORE, INC	1,237.50	(2) Invoices - Contracted Services - Flat Saw
056036	9/21/2022	CCPPM	CCPPM	2,401.20	Printing - New Business Cards & Envelopes
056037	9/21/2022	CINTAS	CINTAS	96.94	
056038	9/21/2022	CINTAS2	CINTAS	171.29	
056039	9/21/2022	COEG	CITY OF ELK GROVE	896.61	General District Maintenance - Encroachment & Overhead Allocation
056040	9/21/2022	COEG	CITY OF ELK GROVE	1,044.97	Adams/Truman Water Main Replacement - Encroachment & Overhead Allocation
056041	9/21/2022	CORE&MA	CORE & MAIN LP	13,054.35	Materials - 2nd Ave
056042	9/21/2022	COUNTY	COUNTY OF SACRAMENTO	635,029.09	Sac County Water Billings - July & August 2022
056043	9/21/2022	CR KAED	KATHLEEN EDDY	337.83	Account Closed - Customer Refund
056044	9/21/2022	CR KAR	KATHERINE REID	89.23	Account Closed - Customer Refund
056045	9/21/2022	CR WHO	WHITE HORSE HOME INC	261.75	Account Closed - Customer Refund
056046	9/21/2022	CRF CYH	CYNTHIA HOWERTON	45.85	Account Closed - Customer Refund
056047	9/21/2022	CRF ERG	ERICA GUERRA	37.96	Account Closed - Customer Refund
056048	9/21/2022	CRF LEN	LENNAR HOMES CA, INC	138.84	Account Closed - Customer Refund
056049	9/21/2022	CRF LEN	LENNAR HOMES CA, INC	60.61	Account Closed - Customer Refund
056050	9/21/2022	CRF MYC	MY LINH CHU	76.51	Account Closed - Customer Refund

056051	9/21/2022	CRF NDA	NICK DALEO	109.11	Account Closed - Customer Refund
056052	9/21/2022	CRF PVU	PRINCEP VAN UCLARAY	123.35	Account Closed - Customer Refund
056053	9/21/2022	CRF ROA	RON ANDERS	270.81	Account Closed - Customer Refund
056054	9/21/2022	CRF SKE	SARAH KEYSER	25.14	Account Closed - Customer Refund
056055	9/21/2022	CRFPERS	PERSONAL REALTY	210.23	Account Closed - Customer Refund
056056	9/21/2022	CS AA	CARD SERVICES	1,313.10	Materials & Safety Related Materials
056057	9/21/2022	CS SH	CARD SERVICES	2,444.21	Training, Employee Appreciation Summer BBQ, Materials, Repairs, Maintenance
056058	9/21/2022	CS TF	CARD SERVICES	415.86	Supplies, Safety Materials, Printing (Water Drop Design)
056059	9/21/2022	DMV	DMV	7.00	
056060	9/21/2022	HANFORD	HANFORD SAND & GRAVEL, INC	1,418.92	Materials - Water Main Replacement Project
056061	9/21/2022	HOLT	HOLT OF CALIFORNIA	6,173.41	(2) Invoices - Dump Truck & Backhoe - 2nd Ave
056062	9/21/2022	HOLY TR	H.T.E.O.C.	520.00	Construction Rental Yard - CIP Adams St.
056063	9/21/2022	KEVIN Y	KEVIN YOUNG CONCRETE	2,250.00	Contracted Services - Remove & Replace Damaged Concrete - 9083 Doncaster Ct.
056064	9/21/2022	PAGE	PAGE SUPPLY CORP	8,977.70	(3) Invoices - Materials & Supplies - Distribution
056065	9/21/2022	PG&E	PACIFIC GAS & ELECTRIC	18.36	
056066	9/21/2022	ROOCO	ROOCO RENTS	2,517.20	Materials - 2nd Ave
056067	9/21/2022	SAC 5	SACRAMENTO COUNTY	20.00	Lien Release
056068	9/21/2022	SAC 5	SACRAMENTO COUNTY	20.00	Lien Release
056069	9/21/2022	SIERRA	SIERRA OFFICE SUPPLIES	671.60	
056070	9/21/2022	TEICH A	TEICHERT AGGREGATES	1,853.34	(2) Invoices - Materials - Utility Crew
056071	9/21/2022	TRAFF S	TRAFFIC SIGN SPECIALTIES	200.42	
056072	9/21/2022	TRE&TRA	TRENCH & TRAFFIC SUPPLY	19,074.80	(14) Invoices - Equipment Rental - 2nd Ave
056073	9/21/2022	USBANK	U.S. BANK EQUIPMENT FINANCE	752.14	Copier - ADMIN
056074	9/21/2022	USS	UNITED SITE SERVICES	1,217.40	
056075	9/28/2022	AFLAC	AFLAC	1,444.92	
056076	9/28/2022	AMAZON	AMAZON CAPITAL SERVICES	210.79	*Annual Support for Meter Reading Equipment
056077	9/28/2022	AQUA ME	AQUA-METRIC SALES, CO.	2,678.00	
056078	9/28/2022	BAY 3	BAY ALARM COMPANY	636.00	
056079	9/28/2022	BEN RES	BENEFIT RESOURCE, INC	125.00	Sampling - Treatment
056080	9/28/2022	BSK4	BSK ASSOCIATES	363.00	Additional Flooring for Vault and Storage Rooms - ADMIN
056081	9/28/2022	CAP COM	CAPITAL COMMERCIAL FLOORING,	4,825.00	Account Closed - Customer Refund
056082	9/28/2022	CHIC12	CHICAGO TITLE COMPANY	169.76	
056083	9/28/2022	CINTAS2	CINTAS	591.78	
056084	9/28/2022	COVER A	COVERALL NORTH AMERICA, INC	1,009.24	Prorated Cleaning New ADMIN & Old ADMIN
056085	9/28/2022	CPHILLI	CHRISTOPHER PHILLIPS	247.77	Boot Reimbursement (2019) Reissue Unclaimed Funds
056086	9/28/2022	CR EHU	EDWIN HUDSON	145.80	Account Closed - Customer Refund
056087	9/28/2022	CR FID	FIDELITY NATIONAL TITLE	140.79	Account Closed - Customer Refund
056088	9/28/2022	CRF ALO	ANTHONY LOCKE	63.07	Account Closed - Customer Refund
056089	9/28/2022	CRF CLO	CLOTEAL HERRON	39.33	Account Closed - Customer Refund
056090	9/28/2022	CRF DWO	DAN WORLEY	122.41	Account Closed - Customer Refund
056091	9/28/2022	CRF ERO	EDWARD ROGERS	57.48	Account Closed - Customer Refund
056092	9/28/2022	CRF FH	F&H CONSTRUCTION	2,049.26	Account Closed - Customer Refund
056093	9/28/2022	CRF GHI	GHITA UNDERGROUND	1,996.04	Account Closed - Customer Refund
056094	9/28/2022	CRF JCO	JANUS CORPORATION	51.29	Account Closed - Customer Refund
056095	9/28/2022	CRF KRE	KUNZITE RESIDENTIAL INC	473.45	Account Closed - Customer Refund
056096	9/28/2022	CRF LAU	LAURIE A. DAPELO	79.32	Account Closed - Customer Refund
056097	9/28/2022	CRF RAR	RENATO ARMAMENTO	221.18	Account Closed - Customer Refund
056098	9/28/2022	CRF SRU	SUSAN RUSHING	79.39	Account Closed - Customer Refund
056099	9/28/2022	CRF STC	SPRUCE TITLE CO.	13.60	Account Closed - Customer Refund
056100	9/28/2022	CRF VET	VETERAN PIPELINE	295.94	Account Closed - Customer Refund
056101	9/28/2022	CRF VRE	VICTOR REYES	30.90	Account Closed - Customer Refund
056102	9/28/2022	CRFAT&E	ALLIED TITLE & ESCROW SERVICES	149.36	Account Closed - Customer Refund
056103	9/28/2022	CRFNAS	NAOMI SANTIAGO	67.28	Account Closed - Customer Refund

056104	9/28/2022	CRFOCT2	ORANGE COAST TITLE CO.	18.42	Account Closed - Customer Refund
056105	9/28/2022	CRFPLC	PLACER TITLE COMPANY	19.52	Account Closed - Customer Refund
056106	9/28/2022	CRFPROE	PROFESSIONAL ED	313.59	Account Closed - Customer Refund
056107	9/28/2022	CRFSTE	STEWART TITLE OF CA	40.94	Account Closed - Customer Refund
056108	9/28/2022	DATAPRO	DATAPROSE LLC	570.96	Billing Insert - Hibernata
056109	9/28/2022	DB COLS	DB CONSTRUCTIONAL LANDSCAPE	950.00	Tree Removal - 9829 Waterman Road
056110	9/28/2022	ELK LOC	ELK GROVE LOCK AND SAFE CO	575.00	Changed Locks at Hampton
056111	9/28/2022	FRONT C	FRONTIER COMMUNICATIONS	258.02	
056112	9/28/2022	INT STA	INTERSTATE OIL COMPANY	2,468.50	
056113	9/28/2022	OREILLY	O'REILLY AUTO PARTS	75.40	Fuel
056114	9/28/2022	PEST	PEST CONTROL CENTER INC	168.00	
056115	9/28/2022	QUAL SO	QUALITY SOUND	23,532.51	New Boardroom AV
056116	9/28/2022	SIERRA	SIERRA OFFICE SUPPLIES	360.52	
056117	9/28/2022	USABLUE	USABlueBook	438.87	
056118	9/28/2022	VIPRE 2	THREATTRACK SECURITY INC.	1,521.00	*Annual Vipre Endpoint Security - Anti-Virus
056119	9/28/2022	WILSON	MARCELL WILSON	39.86	Boot Reimbursement (2018) Reissue Unclaimed Funds
Total:				1,128,024.06	

BOARD AND EMPLOYEE MONTHLY EXPENSE/REIMBURSEMENTS
As of 09/30/2022

INDIVIDUAL	DESCRIPTION	AMOUNT PAID
Travis Franklin	ACWA 2022 Fall Conference	\$775.00
Dave Frederick	Exam Backflow Recertification	\$305.00
Dave Frederick	BF Prevention Assembly Tester Course 40 Hour	\$1,250.00
Bruce Kamilos	P.E. License Renewal	\$180.00
Bruce Kamilos	ACWA 2022 Fall Conference	\$775.00
Amber Kavert	ACWA 2022 Fall Conference	\$775.00
Donella Murillo	CSMFO Annual Membership Dues	\$110.00
Brandon Kent	Training Materials - Treatment Operator Volume II	\$160.98
Christopher Phillips	Boot Reimbursement (2019) Reissue Unclaimed Funds	\$247.77
Stefani Phillips	ACWA 2022 Fall Conference	\$775.00
Sofia Scherman	ACWA 2022 Fall Conference	\$775.00
		\$6,128.75

**Active Account Information
As of 09/30/2022**

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Metered												
Residential	12,303	12,292	12,293									
Commercial	361	361	360									
Irrigation	185	187	186									
Fire Service	186	186	187									
Total Accounts	13,035	13,026	13,026	-	-	-	-	-	-	-	-	-

**Active Account Information
FY 2021/2022**

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
Water Accounts:												
Metered												
Residential	12,305	12,318	12,300	12,309	12,299	12,312	12,300	12,293	12,312	12,297	12,293	12,314
Commercial	362	363	362	362	362	363	362	362	362	366	361	361
Irrigation	183	183	183	183	183	183	184	184	185	186	184	185
Fire Service	183	183	183	183	183	184	184	184	185	188	185	186
Total Accounts	13,033	13,047	13,028	13,037	13,027	13,042	13,030	13,023	13,044	13,037	13,023	13,046

**Bond Covenant Status
For Fiscal Year 2022-23
As of 09/30/2022**

Operating Revenues:	
Charges for Services	\$ 4,723,083
 Operating Expenses:	
Salaries & Benefits	903,335
Seminars, Conventions and Travel	6,855
Office & Operational	338,634
Purchased Water	986,487
Outside Services	174,585
Equipment Rent, Taxes, and Utilities	172,788
Total Operating Expenses	<u>2,582,685</u>
 Net Operating Income	 <u>\$ 2,140,398</u>
 Annual Interest & Principal Payments	
\$3,883,204	\$ 970,801 (1)
 Debt Service Coverage Ratio, YTD Only:	 2.20
 Required	 1.15

Notes

1. Reflects budget divided by number of months year to date.
However, first Principal/Interest Payments made in September.
Projected Annual Budget Coverage Ratio is **1.29**

**CASH - Detail Schedule of Investments
As of 09/30/2022**

G/L Account Fund
HELD BY BOND TRUSTEE:

<u>G/L Account Fund</u>	<u>Water</u>	<u>Account number / name</u>	<u>Investment Name</u>	<u>Investment Type</u>	<u>Restrictions</u>	<u>Market Value</u>			
1110-000-20	Water	BNY 892744 FRCD 2014A DEBT SERVICE	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00			
1112-000-20	Water	BNY 743850 FRCD 2016A DEBT SERVICE	Dreyfus Inst Treasury	MM Mutual Fund	Restricted	0.00			
					Subtotal	-			
1001-000-20	Water	Cash on Hand			Unrestricted	300.00			
<u>HELD BY F&M BANK:</u>									
1011-000-10	FRCD	F&M 08-032009-01 CHECKING ACCOUNT			Unrestricted	Closed Out Account			
1011-000-20	Water	F&M 08-032017-01 OPERATING ACCOUNT			Unrestricted	3,073,819.03			
1084-000-20	Water	F&M 08-03201702-31 MONEY MARKET		0.25%	Unrestricted	100,889.50			
1031-000-20	Water	F&M 08-032912-01 CREDIT CARD ACCOUNT			Unrestricted	342,074.43			
1061-000-20	Water	F&M 08-032890-01 PAYROLL ACCOUNT			Unrestricted	253,801.58			
1071-000-20	Water	F&M 08-032920-01 DRAFTS ACCOUNT			Unrestricted	197,175.07			
					Subtotal	3,967,759.61			
<u>INVESTMENTS</u>									
1080-000-20	Water	Office of the Treasurer - Sacramento California	LAIF	Investment Pool	Unrestricted	5,491,403.78			
1081-000-20	Water	CALTrust Medium Term		Investment	Unrestricted	1,321,507.11			
1082-000-20	Water								
		<u>PURCHASE DATE</u>	<u>ISSUED BY</u>	<u>CALL DATE</u>	<u>% of Portfolio</u>	<u>CURRENT YIELD</u>	<u>MATURITY DATE</u>	<u>COST BASIS</u>	<u>MARKET VALUE</u>
		9/30/2016	US Bank	N/A	1.60%	2.73%	N/A	\$ 57,312.99	\$ 57,312.99
		11/19/2020	3135GASH0 Federal Home Loan (FHLB)	07/10/20 - qrtly	24.20%	0.650%	11/25/2025	\$ 1,000,000.00	\$ 885,420.00
		7/31/2020	3133ELO56 Federal Home Loan (FHLB)	11/25/20 - qrtly	25.50%	0.610%	7/2/2024	\$ 1,000,000.00	\$ 933,620.00
		7/29/2021	3133EMT36 Federal Home Loan (FHLB)	04/15/26 - qrtly	24.10%	0.980%	4/26/2026	\$ 1,000,000.00	\$ 882,980.00
		7/31/2020	3136G4YP2 Federal Natl MTG ASSN	07/09/2021 - qrtly	24.60%	0.800%	7/9/2025	\$ 1,000,000.00	\$ 901,570.00
								4,057,312.99	3,660,902.99
								Total	14,441,873.49
								Total Restricted	-
								Total Unrestricted	14,441,873.49
<u>Call Date</u>	<u>CUSIP</u>	<u>Issued by:</u>	<u>Call Date</u>	<u>Maturity Date</u>	<u>Interest Rate</u>	<u>YTM</u>	<u>Price</u>	<u>Market Value</u>	

YTM = Yield to Maturity
qtrly = quarterly
cont. = continuous

Authorized Signers
Bruce Kamilos
Patrick Lee
Donella Murrillo
Stefani Phillips

Fiscal Retainer Contracts

	Description	Total Contract	Current Month	Paid to date	2022-2023 FY Budget	Percent of year (25%)
JRG Attorneys, LLP	Task orders	TBD	\$ 1,242	\$ 5,750		
Liebert Cassidy Whitmore	Task orders	TBD	\$ 689	\$ 1,297		
Total			\$ 1,931	\$ 7,047	\$ 145,000	4.86%
Solutions by BG, Inc.	Task orders	792,676	\$ 24,525	\$ 66,174	\$ 255,840	25.87%

Major Contracts

Consultant	Description	Total Contract	Paid to date	2022-2023 FY Budget	Percent of Contract Amount
*Earl Consulting	PSA	\$ 78,000	\$ 1,620	\$ 71,689	91.91%
**MFDB Architects	PSA	\$ 205,270	\$ -	\$ 197,171	96.05%
A.P. Thomas (Construction)	PSA	\$ 2,554,565	\$ 130,800	\$ 2,143,441	83.91%
		\$ 2,837,835	\$ 132,420	\$ 2,412,301	85.00%

\$28,000 on 2/25/22. Original Contract amount was \$40,000.

**Change Order to Amend Contract for an additional \$12,770.00. Original Contract amount was \$192,500.

Major Capital Improvement Project
Budget vs Actuals
As of 9/30/2022

Capital Project	Total Project Budget	Total Project Exp to Date	Percent Spent	Capitalized Labor	Fund Type	Project Type	2022-23		Sept		YTD % Spent
							Budget	Project Exp	Project Exp	Total YTD (1)	
Locust/Summit Alley Water Main	635,000	-	0.00%	\$ -	R&R	Supply/Distribution	635,000	\$ -	-	-	0.00%
2nd Ave Water Main	188,000	97,091	51.64%	34,129	R&R	Supply/Distribution	188,000	49,808	94,405	50.22%	
Truman St/Adams St Water Main	129,000	93,227	72.27%	54,277	R&R	Supply/Distribution	129,000	15,174	93,227	72.27%	
Elk Grove Blvd/Grove Street Alley Water Main	376,000	-	0.00%	-	R&R	Supply/Distribution	376,000	-	-	-	0.00%
ChlorTech System Replacements	150,000	-	0.00%	-	R&R	Treatment	150,000	-	-	-	0.00%
Media Replacement - RRWTP Filter Vessel	90,000	-	0.00%	-	R&R	Treatment	90,000	-	-	-	0.00%
Backup IT Server Replacements	30,000	-	0.00%	-	R&R	Building and Site	30,000	-	-	-	0.00%
9829 Waterman Rd	3,238,028	2,668,110	82.40%	-	CIP	Building and Site	1,281,316	187,359	711,397	55.52%	
Brinkman Transmission Main	50,000	-	0.00%	-	CIP	Supply/Distribution	50,000	-	-	-	0.00%
Service Line Replacements (Paving)	85,000	83,932	98.74%	-	CIP	Supply/Distribution	85,000	-	83,932	98.74%	
Unforeseen Capital Projects	100,000	605	0.60%	-	-	-	100,000	170	605	0.60%	
Sub-Total	\$ 5,071,028	\$ 2,942,966	58.03%	\$ 88,407	-	-	\$ 3,114,316	\$ 252,511	\$ 983,567	31.58%	

(1) Includes \$88,407 in capitalized labor through 09/30/2022

(2) Includes unforeseen capital projects, including:

Radio Antenna Well 4D	\$ 435
Radio Antenna Well 4D	170
Total	\$ 605

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Patrick Lee, Finance Manager/Treasurer

SUBJECT: **ELK GROVE WATER DISTRICT FISCAL YEAR 2022-23 QUARTERLY OPERATING BUDGET STATUS REPORT**

RECOMMENDATION

This item is presented for discussion purposes only. No action by the Florin Resource Conservation District Board of Directors is requested at this time.

SUMMARY

Staff is presenting the quarterly budget status report through the first quarter of fiscal year 2022-23. This report is to keep the Florin Resource Conservation District (District) Board of Directors (Board) and the public informed on the financial status of the Elk Grove Water District (EGWD).

DISCUSSION

Background

On June 21, 2022, the Board approved the District's Fiscal Year (FY) 2022-23 Operating Budget. The adopted budget projects total revenues of approximately \$15.9 million and total expenditures of approximately \$17.9 million, including appropriations into the District's FY 2022-23 Capital Improvement Program (CIP) reserves of approximately \$3.1 million. The projected expenses in excess of revenues of approximately \$2.0 million will be funded by excess operating reserves from prior years.

Present Situation

A summary of the EGWD's financial status as of September 30, 2022 (Attachment 1) is provided with this report and a detailed analysis of the changes in each revenue and expenditure category is as follows:

Revenues collected through the first quarter of the fiscal year total \$4,798,480 which is 30.23% of the \$15,873,385 annual budget. The revenues are \$91,413 or 1.87% below the same quarter of the prior year due to an overall reduction in consumption for the months of July and August 2022 as a result of conservation efforts.

AGENDA ITEM No. 4

ELK GROVE WATER DISTRICT FISCAL YEAR 2022-23 QUARTERLY OPERATING BUDGET STATUS REPORT

Page 2

Total Operational Expenses were \$2,582,684 through the first quarter, which is 23.77% of the annual budget of \$10,863,138. The actual operating expenses were \$3,978 or 0.15% above the same quarter of the prior fiscal year as follows:

Personnel expenditures through the first quarter total \$903,335 which is 20.58% of the \$4,388,458 annual budget. The actual expenses were \$5,007 or 0.55% below the same period of the prior fiscal year. The decrease is due mainly to the timing of payment for medical premium invoices (Q1 of FY 2023 only reflects three payments, Q1 of FY 2022 reflects four payments), and an increase in capitalized labor offset by an increase salaries COLA's, promotions, and new hires.

Seminars, Conventions and Travel expenditures total \$6,855, which is 16.97% of the annual budget of \$40,393. The actual expenses were \$4,942 or 258.26% above the same period of the prior fiscal year due mainly to the resumption of in-person conferences and seminars.

Office and Operational expenditures total \$338,634, which is 24.15% of the annual budget of \$1,402,320. The actual expenses were \$18,382 or 5.15% below the same period of the prior fiscal year due mainly to an increase in insurance premiums offset by the decrease in equipment repairs and the purchase of software for water modeling in FY 2022.

Estimated Purchased Water costs total \$986,487, which is 28.55% of the annual budget of \$3,455,261. The actual expenses were \$11,522 or 1.15% below the same period of the prior fiscal year. The decrease is due mainly to a decrease in consumption related to conservation efforts as a result of drought conditions.

Outside Services expenditures total \$174,585, which is 16.21% of the annual budget of \$1,077,032. The actual expenses were \$475 or 0.27% above the same period of the prior fiscal year.

Equipment Rent, Taxes and Utilities expenditures total \$172,788, which is 34.58% of the annual budget of \$499,674. The actual expenses were \$33,472 or 24.03% above the same period of the prior fiscal year. The increase is due mainly to electricity cost related to increase water pumping and production during the summer months.

**ELK GROVE WATER DISTRICT FISCAL YEAR 2022-23 QUARTERLY OPERATING
BUDGET STATUS REPORT**

Page 3

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

STRATEGIC PLAN CONFORMITY

This item conforms to the FRCD/EGWD's 2020-2025 Strategic Plan. Development and adoption of annual budgets that are balanced through cost saving measures or transfers from operating reserves is specifically identified as an objective in the Fiscal Responsibility section of the Strategic Plan.

FINANCIAL SUMMARY

This report is provided to the Board for information only. There is no financial impact associated with this item at this time. Staff has provided a copy of the September 30, 2022 Quarterly Budget Review (Attachment 2) for the first quarter. The Quarterly Budget Review includes the line-item detail for the expenditure categories for the quarter-to-date for FY 2022-23, as well as the detail for last year's quarter-to-date.

Respectfully submitted,



PATRICK LEE
FINANCE MANAGER/TREASURER

Attachments

Attachment 1

Elk Grove Water District Year to Date Revenues and Expenses Compared to Budget As of September 30, 2022

	General Ledger Reference	YTD Activity	Annual Budget	3/12=25.00% % Realized
Revenues	4100 - 4900	\$ 4,723,083	\$ 15,873,385	29.75%
Operating Expenses				
Salaries & Benefits	5100 - 5280	962,016	4,847,546	19.85%
less Capitalized Labor		(88,407)	(459,089)	19.26%
Less CalPERS Prepayment for Remainder of Year: (1)		(5,992)		
Adjusted Salaries and Benefits:		\$ 867,617	\$ 4,388,457	19.77%
Seminars, Conventions and Travel	5300 - 5350	6,855	40,393	16.97%
Office & Operational	5410 - 5494	338,634	1,402,320	24.15%
Purchased Water est. (1)	5495 - 5495	986,487	3,455,261	28.55%
Outside Services	5505 - 5580	174,585	1,077,032	16.21%
Equipment Rent, Taxes, Utilities	5620 - 5760	172,788	499,674	34.58%
Total Operational Expenses		\$ 2,546,967	\$ 10,863,137	23.45%
Net Operating Income		\$ 2,176,116	\$ 5,010,248	43.43%
Non-Operating Revenues				
Interest Received	9910 - 9910	6,716	25,000	26.86%
Unrealized Gains/(Losses)	9911 - 9911	(68,601)	-	100.00%
Other Income/(Expense)	9920 - 9973	98,580	221,000	44.61%
Total Non-Operating Revenues		\$ 36,695	\$ 246,000	14.92%
Non-Operating Expenses				
Election Costs	9950 - 9950	-	250,000	0.00%
Capital Expenses (2):				
Capital Improvements	1705 - 1760	795,329	1,416,316	56.15%
Capital Replacements	1705 - 1760	187,632	1,598,000	11.74%
Unforeseen Capital Projects	1705 - 1760	605	100,000	0.60%
Total Capital Expenses:		\$ 983,567	\$ 3,114,316	31.58%
Bond Interest Accrued (3)	7300 - 7300	330,801	1,323,204	25.00%
Total Non Operating Expenses		\$ 1,314,368	\$ 4,687,520	28.04%
Bond Retirement (3):		\$ 640,000	\$ 2,560,000	25.00%
Total Expenditures		4,464,640	17,864,657	24.99%
Revenues in Excess of All Expenditures, including Capital		\$ 258,443	\$ (1,991,272)	-12.98%

Notes:

1. There is a lag in water billings from the Sacramento County Water Agency. Included above is an estimate of costs to date based on water used.
2. YTD Activity includes \$88,407 in capitalized labor charged to capital projects.
3. Bond retirement payments are made two times a year in September and March
4. Accounts receivable balance, which represents the difference between the total amount billed and total amount collected, as of September 30, 2022 is \$280,281.48

Attachment 2

**ELK GROVE WATER DISTRICT
QUARTERLY BUDGET REVIEW
THROUGH SEPTEMBER 30, 2022
FISCAL YEAR 2022-23**

Account Description	FY 2022-23 Budget	Y-T-D 9/30/2022	25.00% Percentage	Y-T-D 9/30/2021	Change from prior year
4100 Water Payment Revenues - Residential	\$ 13,427,749	4,143,478	30.86%	\$ 4,275,839	\$ (132,361)
4110 Water Payment Revenues - Commercial	1,912,041	501,996	26.25%	543,190	(41,194)
4120 Water Payment Revenues - Fire Service	205,595	52,320	25.45%	50,937	1,383
4200 Meter Fees/Plan Check/Water Capacity	126,000	19,571	15.53%	11,531	8,040
4201 Backflow Installation	10,000	14,125	141.25%	6,476	7,649
4202 Backflow Testing Fee	-	7,410	100.00%	-	7,410
4300 Fire Protection	-	156	-	312	(156)
4520 Door Hanger Fees	115,000	30,250	26.30%	-	30,250
4530 Meter Testing Fee	-	47	100.00%	-	47
4540 New account Fees	25,000	5,220	20.88%	7,410	(2,190)
4550 NSF Fees	3,000	560	18.67%	280	280
4560 Fees & Penalties	-	8,004	0.00%	-	8,004
4570 Shut-off Fees	50,000	19,800	39.60%	-	19,800
4575 24 Hour Turn On	-	-	0.00%	-	-
4580 Restoration Fees	-	-	100.00%	50	(50)
4585 Administration Citations	-	-	100.00%	345	(345)
4590 Credit Card Fees	-	-	0.00%	-	-
4591 Sac County Release of Lien Fee	-	(220)	-100.00%	(340)	120
4700 Rental Income	-	-	#DIV/0!	8,334	(8,334)

**ELK GROVE WATER DISTRICT
QUARTERLY BUDGET REVIEW
THROUGH SEPTEMBER 30, 2022
FISCAL YEAR 2022-23**

4900 Customer Refunds	(1,000)	(4,238)	423.80%	(14,471)	10,233
TOTAL GROSS REVENUES	\$ 15,873,385	\$ 4,798,480	30.23%	\$ 4,889,893	\$ (91,413)

Account Description	FY 2022-23 Budget	Y-T-D 9/30/2022	25.00% Percentage	Y-T-D 9/30/2021	Change from prior year
Salaries & Benefits					
5100 Executive Salary	207,527	46,807	22.55%	42,140	4,666
5110 Exempt Salaries	634,842	144,358	22.74%	112,681	31,677
5120 Non-Exempt Salaries	1,957,845	421,717	21.54%	368,781	52,936
5130 Overtime Compensation	45,000	10,327	22.95%	9,990	337
5140 On Call Pay	31,025	7,055	22.74%	7,140	(85)
5150 Holiday Pay	137,977	24,438	17.71%	16,682	7,756
5160 Vacation Pay	161,804	39,500	24.41%	45,537	(6,037)
5170 Personal Time Pay	118,715	26,883	22.65%	30,240	(3,356)
5200 Medical Benefits	781,483	166,212	21.27%	215,990	(49,778)
5195 EAP	874	214	24.51%	259	(45)
5201 EGWD Contribution H.S.A	23,700	-	0.00%	-	-
5210 Dental/Vision/Life Insurance	60,730	15,308	25.21%	19,125	(3,817)
5220 Retirement Benefits	287,851	61,828	21.48%	53,410	8,419
5225 Retirement Benefits - Post Employment	186,234	19,504	10.47%	34,577	(15,073)
5230 Medical Tax, Social Security and SUI	67,060	10,479	15.63%	9,621	858
5240 Worker's Compensation Insurance	96,600	-	0.00%	-	-
5250 Education Assistance	2,500	-	0.00%	-	-
5260 Employee Training	41,700	1,716	4.12%	2,946	(1,230)
5270 Employee Recognition	2,880	1,386	48.14%	64	1,322
5280 Meetings	1,200	-	0.00%	-	-
Less Capitalized Expenditures	(459,089)	(88,407)	19.26%	(60,842)	(27,565)
Less Remaining CalPERS prepayment	-	(5,992)	N/A	-	-
Category Subtotal	4,388,458	903,335	20.58%	908,342	(5,007)

Account Description	FY 2022-23 Budget	Y-T-D 9/30/2022	25.00% Percentage	Y-T-D 9/30/2021	Change from prior year
Seminars, Conventions and Travel					
5300 Airfare	4,550	335	7.36%	-	335
5310 Hotels	12,100	530	4.38%	81	449
5320 Meals	5,638	124	2.19%	347	(223)
5330 Auto Rental	1,500	-	0.00%	-	-
5340 Seminars & Conferences	9,125	4,399	48.21%	200	4,199
5350 Mileage Reimbursement, Parking, Tolls	1,480	111	7.47%	-	111

**ELK GROVE WATER DISTRICT
 QUARTERLY BUDGET REVIEW
 THROUGH SEPTEMBER 30, 2022
 FISCAL YEAR 2022-23**

5375 Auto Allowance	6,000	1,357	22.62%	1,285	72
Category Subtotal	40,393	6,855	16.97%	1,913	4,942

Account	Description	FY 2022-23 Budget	Y-T-D 9/30/2022	25.00% Percentage	Y-T-D 9/30/2021	Change from prior year
	Office & Operational					
5410	Advertising	17,200	3,075	17.88%	1,855	1,220
5415	Association Dues	134,359	94,405	70.26%	88,887	5,518
5420	Insurance	125,700	58,326	46.40%	32,152	26,174
5425	Licenses, Certifications, Fees	3,800	925	24.34%	585	340
5430	Repairs & Maintenance - Automotive	35,500	917	2.58%	2,295	(1,378)
5432	Repairs & Maintenance - Building	84,820	17,541	20.68%	7,428	10,113
5434	Repairs & Maintenance - Computers	20,650	10,957	53.06%	88	10,868
5435	Repairs & Maintenance - Equipment	147,100	12,892	8.76%	41,475	(28,583)
5438	Fuel	67,220	13,927	20.72%	9,294	4,634
5440	Materials	95,000	39,478	41.56%	16,866	22,612
5445	Chemicals	55,000	19,670	35.76%	20,043	(373)
5450	Meter Repairs	136,000	11,013	8.10%	-	11,013
5453	Permits	90,000	5,602	6.22%	3,922	1,681
5455	Postage	77,275	13,847	17.92%	12,930	917
5460	Printing	23,300	4,225	18.13%	2,538	1,687
5465	Safety Equipment	25,000	4,031	16.12%	854	3,177
5470	Software Programs & Updates	146,256	8,341	5.70%	96,250	(87,908)
5475	Supplies	36,420	6,343	17.41%	4,234	2,109
5480	Telephone	28,020	5,590	19.95%	6,123	(532)
5485	Tools	15,000	4,900	32.66%	5,760	(860)
5490	Clothing Allowance	7,700	573	7.44%	511	62
5491	EGWD-Other Clothing	13,000	2,055	15.81%	2,698	(643)
5493	Water Conservation Materials	18,000	-	0.00%	228	(228)
	Category Subtotal	1,402,320	338,634	24.15%	357,016	(18,382)

**ELK GROVE WATER DISTRICT
 QUARTERLY BUDGET REVIEW
 THROUGH SEPTEMBER 30, 2022
 FISCAL YEAR 2022-23**

Account Description					
5495 Purchased Water	3,455,261	986,487	28.55%	998,009	(11,522)

Account Description	FY 2022-23 Budget	Y-T-D 9/30/2022	22.62% Percentage	Y-T-D 9/30/2021	Change from prior year
Outside Services					
5505 Administration Services	4,100	691	16.85%	922	(231)
5510 Bank Charges	185,600	49,204	26.51%	43,335	5,869
5515 Billing Services	25,500	3,436	13.48%	3,402	34
5520 Contracted Services	504,410	87,919	17.43%	88,367	(447)
5525 Accounting Services	30,000	11,779	39.26%	11,615	164
5530 Engineering	50,000	-	0.00%	5,970	(5,970)
5535 Legal Services	145,000	3,155	2.18%	5,248	(2,093)
5540 Financial Consultants	-	-	0.00%	(1,510)	1,510
5545 Community Relations	10,700	175	1.64%	-	175
5550 Pre-employment	1,000	-	0.00%	274	(274)
5552 Misc. Medical	2,000	115	5.75%	597	(482)
5555 Janitorial	21,200	3,226	15.22%	5,589	(2,363)
5560 Bond Administration	7,050	1,500	21.28%	1,500	-
5570 Security	31,972	7,155	22.38%	3,477	3,677
5575 Sampling	58,500	6,229	10.65%	5,324	905
Category Subtotal	1,077,032	174,585	16.21%	174,109	475

Account Description	FY 2022-23 Budget	Y-T-D 9/30/2022	25.00% Percentage	Y-T-D 9/30/2021	Change from prior year
Equipment Rent, Taxes and Utilities					
5610 Occupancy	6,000	12,000	200.00%	24,000	(12,000)
5620 Equipment Rental	30,074	6,731	22.38%	6,475	256
5710 Property Taxes	4,000	-	0.00%	434	(434)
5740 Electricity	410,200	140,807	34.33%	97,473	43,333
5750 Natural Gas	2,000	49	2.45%	115	(66)
5760 Sewer and Garbage	47,400	13,201	27.85%	10,819	2,382
Category Subtotal	499,674	172,788	34.58%	139,316	33,472
 Total Operational Expenses	 10,863,138	 2,582,684	 23.77%	 2,578,707	 3,978

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Patrick Lee, Finance Manager/Treasurer

SUBJECT: **ELK GROVE WATER DISTRICT FISCAL YEAR 2022-23 QUARTERLY CAPITAL RESERVE STATUS REPORT**

RECOMMENDATION

This item is presented for discussion purposes only. No action by the Florin Resource Conservation District Board of Directors is requested at this time.

SUMMARY

On June 16, 2020, the Florin Resource Conservation District (District) Board of Directors (Board) adopted the District's Reserve and Capital Investments Policy (Policy), establishing the funding levels for each of the District's respective reserve funds. Per the Policy, the District's unrestricted net position as of July 1 of each fiscal year is allocated first to the Operating Reserve (120 days of budgeted operating and maintenance expenses), then to the upcoming year's capital budget, followed by elections/special studies, with the balance allocated to future capital improvements and future capital replacements in the ratio of 75:25, respectively. The total unrestricted net position available to be allocated to reserves on July 1, 2022 was \$19,982,058.

Through the first quarter of Fiscal Year 2022-23, the District expended \$983,566 for capital projects leaving a remaining total reserve balance on September 30, 2022 of \$18,998,492.

DISCUSSION

Background

On June 21, 2022, the Board approved the District's Fiscal Year (FY) 2022-23 Operating Budget and the District's FY 2023-27 Capital Improvement Program (CIP) that included an appropriation of \$16.4 million in expenses, including \$1.7 million in unrestricted funds to the FY 2022-23 CIP.

At the August 16, 2022 regular Board meeting, the Board amended the FY 2022-23 District Operating Budget and the District FY 2023-2027 CIP by increasing the

ELK GROVE WATER DISTRICT FISCAL YEAR 2022-23 QUARTERLY CAPITAL RESERVE STATUS REPORT

Page 2

appropriation to capital reserves by \$1,431,316, resulting in total expenditures of \$17.865 million, including appropriations of \$3.114 million to the FY 2022-23 CIP.

Present Situation

As amended during the regular Board meeting on August 16, 2022, the District had appropriated Reserve Funds for FY 2022-23 as follows:

• Operations Reserves (120 days of O&M budget)	\$ 4,849,427
• FY 2022-23 Capital Improvement Fund	\$ 1,381,316
• FY 2022-23 Capital Replacement Fund	\$ 1,733,000
• Elections and Special Studies	\$ 250,000
• Future Capital Improvements	\$ 8,826,236
• Future Capital Replacements	<u>\$ 2,942,079</u>
	\$ 19,982,058

The District has expended \$983,566 for capital expenditures through September 30, 2022 as follows:

• Capital Improvement Fund	
○ Admin Building 9829 Waterman Rd	\$ 711,396
○ Service Line Replacement Paving	\$ 83,932
○ Unforeseen Capital Projects	<u>\$ 303</u>
TOTAL	\$ 795,631
• Capital Replacement Fund	
○ 2 nd Ave Water Main	\$ 94,405
○ Truman Street/Adams Street	\$ 93,227
○ Unforeseen Capital Projects	<u>\$ 303</u>
TOTAL	\$ 187,935

The District's remaining reserve fund balances as of September 30, 2022 are as follows:

• Operations Reserves (120 days)	\$ 4,849,427
• FY 2021-22 Capital Improvement Fund	\$ 585,685
• FY 2021-22 Capital Replacement Fund	\$ 1,545,066
• Elections and Special Studies	\$ 250,000
• Future Capital Improvements	\$ 8,826,236
• Future Capital Replacements	<u>\$ 2,942,079</u>
	\$ 18,998,492

October 18, 2022

ELK GROVE WATER DISTRICT FISCAL YEAR 2022-23 QUARTERLY CAPITAL RESERVE STATUS REPORT

Page 3

ENVIRONMENTAL CONSIDERATIONS

There are no environmental considerations associated with this report.

STRATEGIC PLAN CONFORMITY

This item conforms to the FRCD/EGWD's 2020-2025 Strategic Plan. Developing and adopting annual budgets that are balanced through cost saving measures or transfers from operating reserves is specifically identified as an objective in the Fiscal Responsibility section of the Strategic Plan.

FINANCIAL SUMMARY

There is no financial impact with this report.

Respectfully submitted,



PATRICK LEE
FINANCE MANAGER/TREASURER

Attachment

Attachment

ELK GROVE WATER RESERVES
Fiscal Year 2022-23
As of September 30, 2022

Total Available \$ 19,982,058 at 7/1/2022

Operating Reserves	Capital Improvements	Capital Replacements	Elections/ Special Studies	Future Capital Improvements	Future Capital Replacements
Needed	Funded	Funded	Funded	Funded	Funded
\$ 4,849,427	\$ 1,381,316	\$ 1,733,000	\$ 250,000	\$ 8,826,236	\$ 2,942,079
Available	Expended	Expended	Expended	Expended	Expended
-	\$ 795,632	\$ 187,935	\$ -	\$ -	\$ -
Remaining	Remaining	Remaining	Remaining	Remaining	Remaining
\$ 4,849,427	\$ 585,685	\$ 1,545,066	\$ 250,000	\$ 8,826,236	\$ 2,942,079

Capital Improvement Funds

Supply/Dist. Improvements	Treatment Plant Improvements	Bldng/Site/Veh. Improvements	Unforeseen Capital Projects
Funded	Funded	Funded	Funded
\$ 50,000	\$ -	\$ 1,281,316	\$ 50,000
Expended	Expended	Expended	Expended
\$ 83,932	\$ -	\$ 711,397	\$ 303
Remaining	Remaining	Remaining	Remaining
\$ (33,932)	\$ -	\$ 569,919	\$ 49,698

Capital Replacement Funds

Supply/Dist. Improvements	Treatment Plant Improvements	Bldng/Site/Veh. Improvements	Unforeseen Capital Projects
Funded	Funded	Funded	Funded
\$ 1,413,000	\$ 240,000	\$ 30,000	\$ 50,000
Expended	Expended	Expended	Expended
\$ 187,632	\$ -	\$ -	\$ 303
Remaining	Remaining	Remaining	Remaining
\$ 1,225,368	\$ 240,000	\$ 30,000	\$ 49,698

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Bruce Kamilos, General Manager

SUBJECT: **GROUNDWATER WORKSHOP – CALIFORNIA’S GROUNDWATER CONDITIONS SEMI-ANNUAL UPDATES**

RECOMMENDATION

This item is presented to the Florin Resource Conservation District Board of Directors for information only.

SUMMARY

Staff will present a series of short workshops to the Florin Resource Conservation District/Elk Grove Water District (District) Board of Directors (Board) on important regional issues related to groundwater sustainability. This month’s topic is California’s Groundwater Condition Semi-Annual Update.

DISCUSSION

Background

At the January 18, 2022 board meeting, the Board agreed that it would be a good idea to have staff present a series of short workshops to educate the Board on important regional issues related to groundwater sustainability.

Present Situation

This month’s workshop is on the topic of California’s Groundwater Conditions Semi-Annual Update published by the California Department of Water Resources.

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

October 18, 2022

**GROUNDWATER WORKSHOP – CALIFORNIA’S GROUNDWATER CONDITIONS
SEMI-ANNUAL UPDATES**

Page 2

STRATEGIC PLAN CONFORMITY

This item conforms to Strategic Goal 7, Water Industry Leadership, of the District’s 2020-2025 Strategic Plan. Understanding the important issues that face the water industry in our region and the state allows the Board to make informed decisions around issues.

FINANCIAL SUMMARY

There is no financial impact associated with this report.

Respectfully submitted,

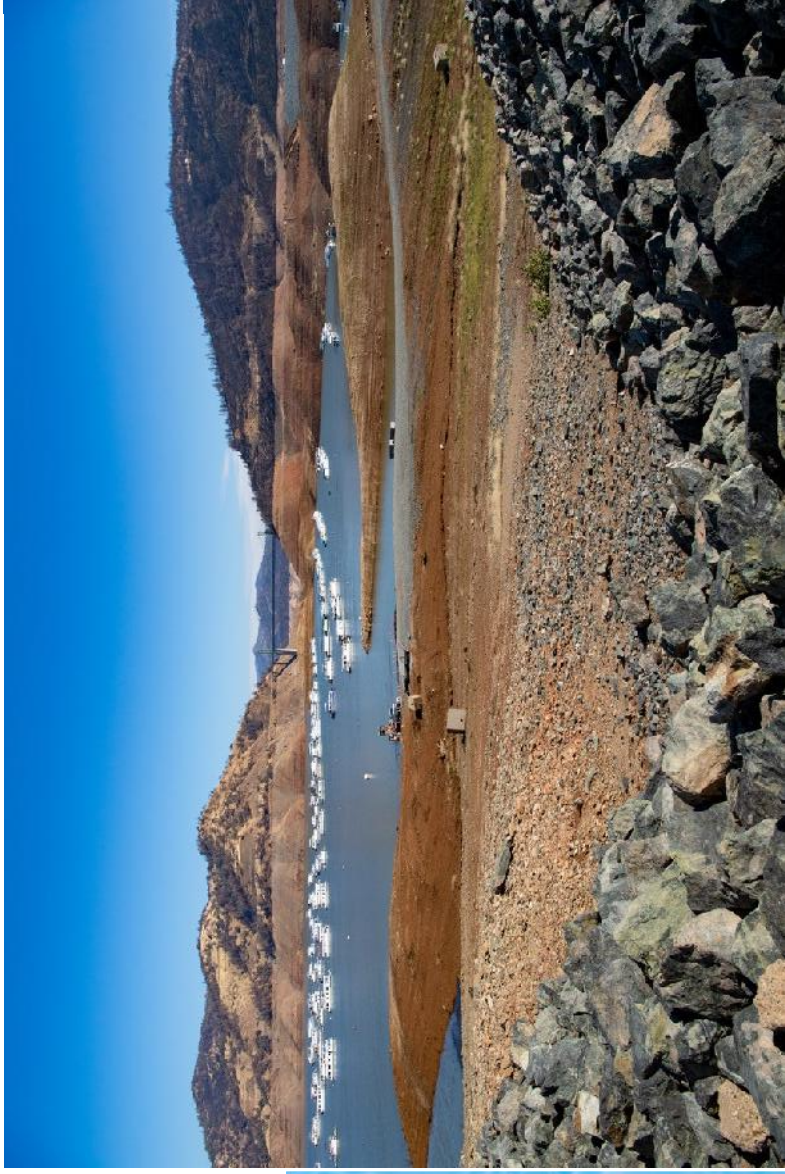
A handwritten signature in blue ink, appearing to read "B. M. Kamilos".

BRUCE KAMILOS
GENERAL MANAGER

Attachment

California's Groundwater Conditions Semi-Annual Update: October 2022

California Department of Water Resources



Florin Resource Conservation District / Elk
Grove Water District Board Meeting

October 18, 2022

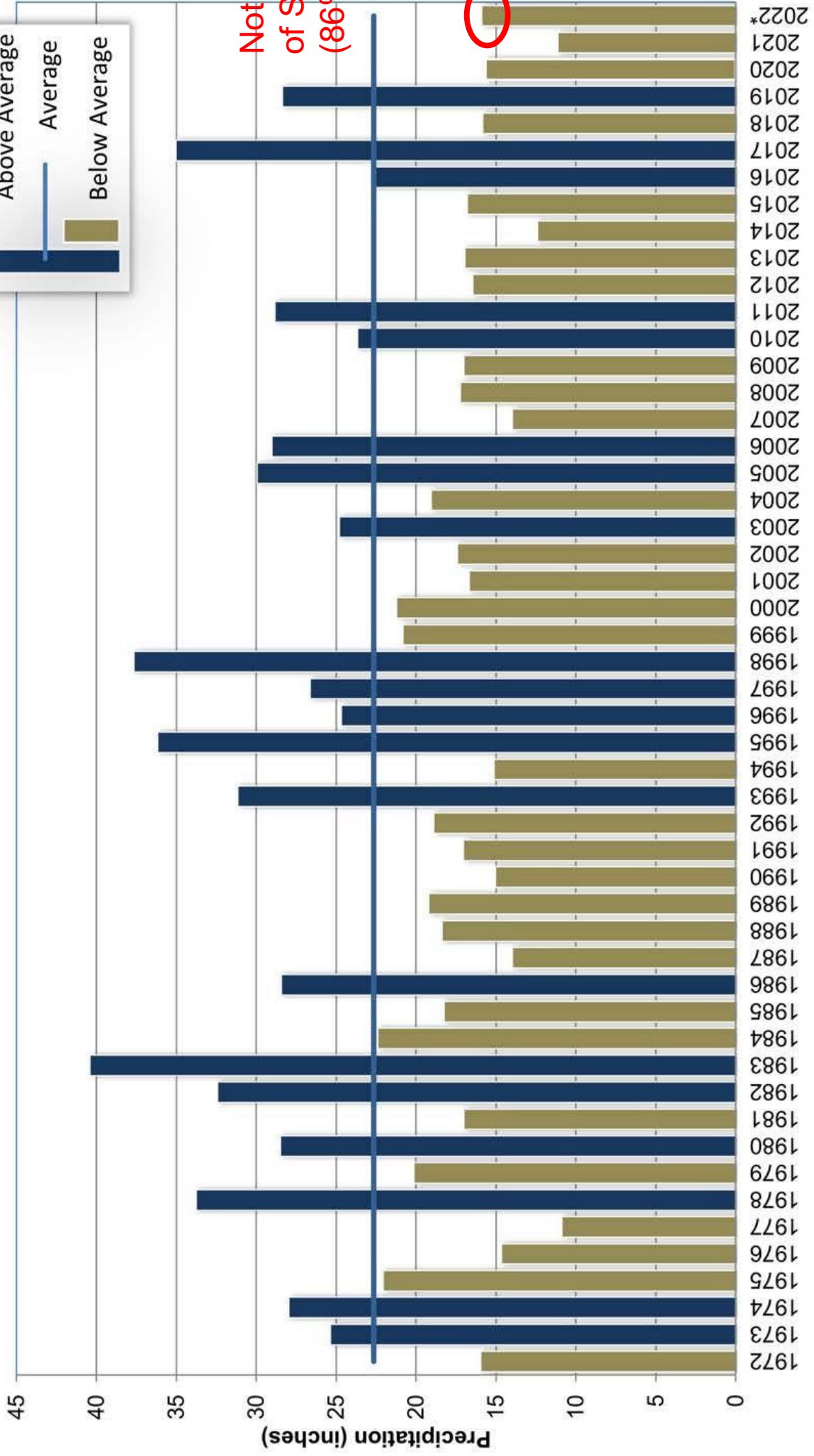
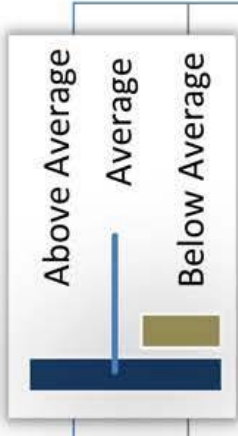
What is California's Groundwater Condition Semi-Annual Update?

- Supplements Calif.'s 5-year Groundwater Updates (CWC 12924)
- Reviews groundwater level changes, land subsidence, and domestic and irrigation wells including dry wells reported
- Provides additional perspective on near-real-time data available through CalGW Live

General Observations

- Evidence suggests current 3-year drought is an extension of the 2012-2016 drought interrupted by a few wet years
- Hot, dry conditions are expected to continue into WY2023
- Historical data shows 2001-2022 is driest 22-year period on record in at least 1,200 years
- Droughts are more commonplace because climate change has fundamentally altered state's hydrologic cycle.
- Droughts increase reliance on groundwater

Statewide Annual Precipitation



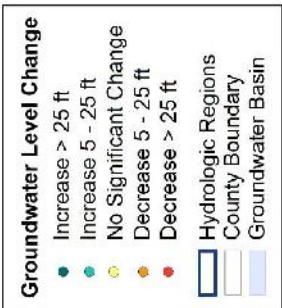
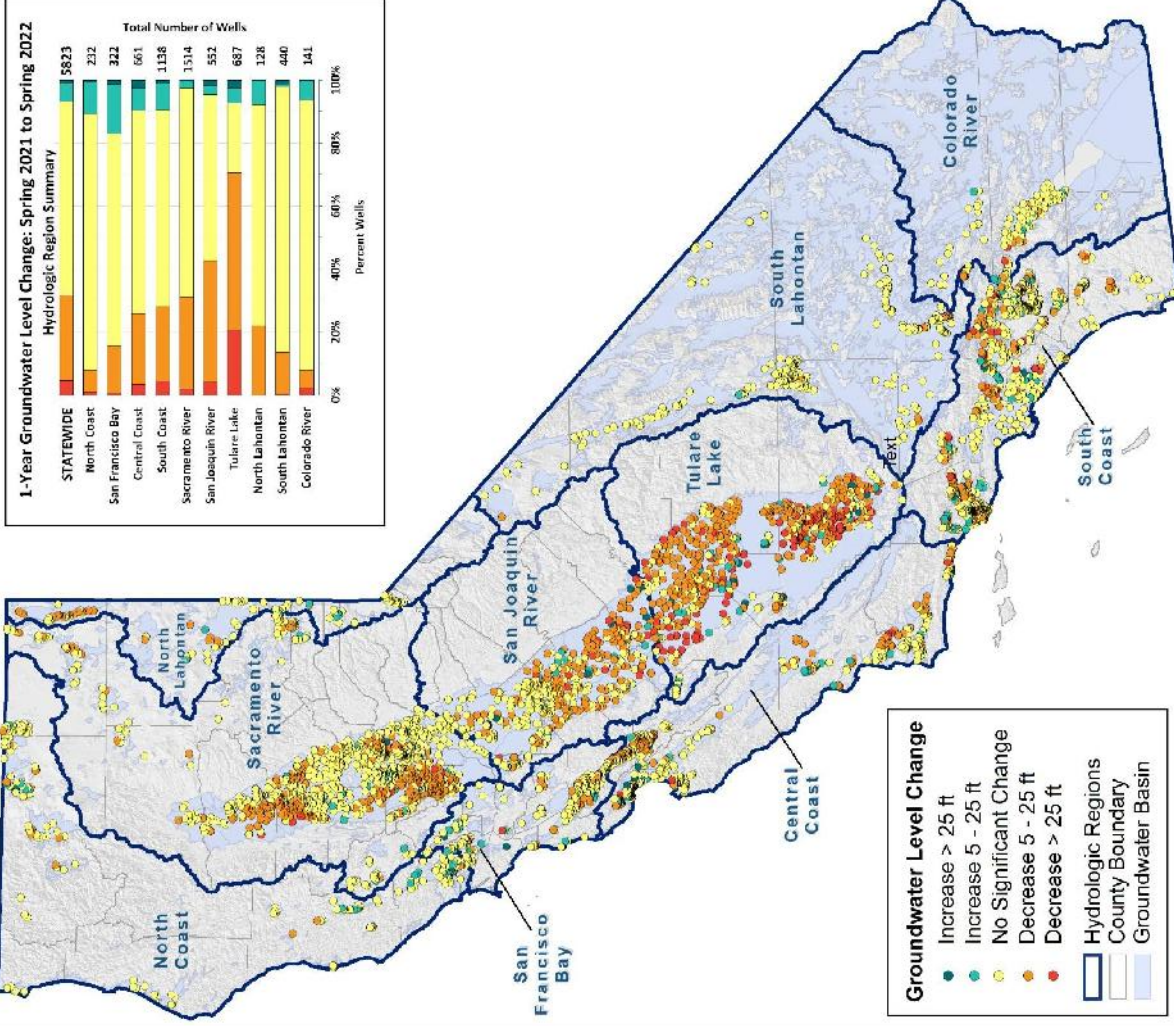
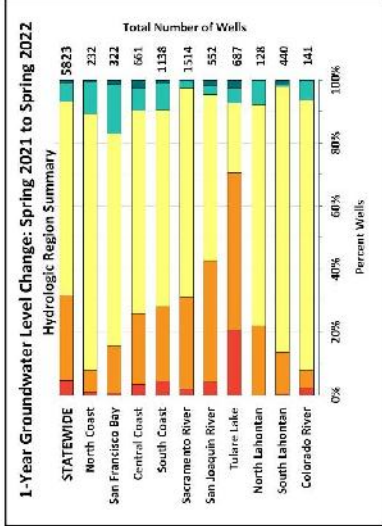
Not reflective
of Sac Region
(86% Avg.)

Water Year (October - September)

Key Findings

- Statewide groundwater levels in decline for past 20 years
- Increased reliance on groundwater during drought periods resulting in lower groundwater levels in parts of state
- Land subsidence continued to occur in 2022
- Number of new domestic and irrigation wells installed statewide in WY2022 is on pace with rate of new wells installed in WY2021
- DWR awarded over \$480M to date in drought relief assistance to small and urban communities to address water supply challenges

One-Year Groundwater Level Change Spring 2021 to Spring 2022



Groundwater level change: map for one-year comparison between spring 2021 and 2022. Groundwater level change determined from water level measurements in wells. Map and chart based on available data from the DWR Enterprise Water Management Database as of 08/31/2022. Map Updated: 09/01/2022.

Period (Water Year Types)	Total Well Count	Decrease > 25 ft	Decrease 5 to 25 ft	No Significant Change (Less than +/- 5 ft)	Increase 5 to 25 ft	Increase > 25 ft
1-Year GWL Change (Critical vs Dry): 2022 compared to 2021	5,823	4.7%	27.1%	61.4%	5.6%	1.2%
3-Year GWL Change (Critical vs Normal): 2022 compared to 2019	5,126	12.5%	39.2%	40.2%	6.7%	1.3%
5-Year GWL Change (Pre-Current Drought): 2022 compared to 2017	4,868	11.1%	36.7%	39.2%	10.1%	3.0%

CalGW Live

- User-friendly interactive website:
<https://sgma.water.ca.gov/CalGWLIVE/#wells>
- Current groundwater level conditions
- 20-year groundwater level trends
- Wells that have gone dry
- Current reservoir levels



CALIFORNIA DEPARTMENT OF WATER RESOURCES

California's Groundwater Conditions Semi-Annual Update: October 2022

Executive Summary

California is in the midst of the third statewide drought declared in the last two decades (2007-2009, 2012-2016, 2020 - present). The state's communities, environment, and agricultural sector are facing exceptional challenges under extreme dry conditions. A growing body of [evidence](#) suggests that the current three-year drought is an extension of the 2012-2016 drought interrupted by just a few wet years. Hot and dry conditions are expected to continue into water year 2023. Also, [historical data](#) show that 2001-2022 is the driest 22-year period on record in at least 1,200 years and has surpassed the severity of the megadrought in the late 1500s that witnessed the second-driest 22-year period (1571-1592) in the Western United States.

Droughts in California are more commonplace because climate change has fundamentally altered the state's hydrologic cycle. As described in the recently released [California's Water Supply Strategy, Adapting to a Hotter, Drier Future](#), recurrent and longer periods of extreme dry weather is the new climate reality of California and could diminish our existing water supply by up to 10% by 2040. Over the last three years, state leaders have earmarked \$8 billion to modernize water infrastructure and management, which enabled emergency drought response as well as projects by local and state agencies to address current and future droughts impacts and become more resilient. The Department of Water Resources (DWR) has awarded more than \$480 million to date in drought relief assistance to small and urban communities to address water supply challenges and over \$350 million in sustainable groundwater funding to help build long-term resilience at both local and regional levels.

Every drought in California increases reliance and use of groundwater, which provides up to 58 percent of the state's total water supply in dry years with over 80-percent of Californians depending on groundwater for some portion of their water supply. Over the last several decades, groundwater basins have been utilized both as a drought buffer and a climate adaptation strategy resulting in overdraft, land subsidence, stream depletion, and groundwater quality degradation in various parts of the state. During the current drought, Governor Newsom has issued several drought emergency proclamations that direct DWR and other agencies to actively respond to the current drought and continue preparing for future droughts by implementing actions including accelerating subsidence and groundwater data collection, improved dry well reporting and drinking water assistance, local well permitting coordination, and regulatory relief of groundwater recharge projects under specified circumstances to mitigate drought impacts.

Key Findings

General

- Californians continue to rely on groundwater to compensate for dwindling snowpack and surface water supplies during the current drought.

Groundwater Levels

- Statewide groundwater levels have been in general decline for the past 20 years with 46 percent of monitoring wells showing a declining trend (**Table 2 and Figure 8**) and is associated with the declining trend in snowpack and precipitation (**Figure 1**).
- Increased reliance on groundwater during drought periods has resulted in continued lowering of groundwater levels in several parts of the state (**Table 1 and Figures 5-7**), exceeding five feet of decline in 30-50% of monitoring wells statewide.
- Groundwater level changes from Spring 2021 to Spring 2022 show groundwater levels declined greater than five feet in 32 percent of wells (**Figure 5**).
- In the Tulare Lake Hydrologic Region, over 40 percent of monitoring wells show declines of more than 25 feet in the last three years.

Land Subsidence

- The frequency of statewide land subsidence monitoring and reporting increased in 2022 and shows that land subsidence continued to occur during July 2021 to July 2022 period (**Figure 9**).

Well Infrastructure

- In the first 11 months of WY 2022, the number of new domestic and irrigation wells installed statewide, as reported to DWR, is on pace with the rate of new wells installed in WY 2021 (**Table 5**).
- A total of 1,021 dry well reports were received in the first 11 months of WY 2022, which is similar to the total number of dry wells (1,046) reported in WY 2021 (**Table 5**).
- DWR awarded more than \$480 million to date in drought relief assistance to small and urban communities to address water supply challenges.

Against the backdrop of a new climate reality, the State is entrusted with a historic responsibility to uphold the human right to water as well as assist, guide, and support local agencies and interested parties in implementing the provisions of the [Sustainable Groundwater Management Act \(SGMA\)](#) and the actions identified in the Governor's [Water Resilience Portfolio](#) and [California's Water Supply Strategy](#). In addition, it is important to increase public awareness and understanding about the critical role of groundwater in

meeting the current and future water needs of California for the success of state and local plans.

In recognition of the increased long-term reliance on groundwater and even greater reliance during dry periods, it is imperative that local and state groundwater management decisions, both near-term drought actions and long-term implementation of SGMA, be made with the best available data and information in a transparent and collaborative environment. Since the enactment of SGMA in 2014, great strides have been made by local agencies and the state to collect, report, and disseminate groundwater data and improve management of groundwater resources. This Semi-annual Groundwater Conditions Update is part of a family of groundwater data, tools, and publications under the umbrella of [DWR's California's Groundwater \(Bulletin 118\)](#) and are being provided to local and state agencies to fulfill this imperative.

Introduction

This report is a semi-annual update of the [annual Groundwater Conditions Report](#) published in March 2022 and part of [DWR's California's Groundwater \(Bulletin 118\)](#). Water Year 2022 groundwater data used in this report includes data received electronically by DWR as of August 31, 2022. For a statewide summary of Water Year 2022 conditions, see [DWR's Water Year 2022 Brochure](#). The most recent groundwater data is available in the [California's Groundwater Live](#) website, which is updated on a daily basis as data is received by DWR. Additional data and information are available in the [CNRA Open Data](#) and [Water Data Library](#) websites.

The disparity in reporting periods for various groundwater data sets in this semi-annual report stems from the fact that there is generally an inherent lag between local groundwater data collection in the field and reporting to DWR. Furthermore, the frequency of groundwater data collection is not the same for all data types. As a result, it is possible that all data collected locally for the period of analysis may not have been included in the summary and analysis presented in this semi-annual report. DWR maintains the [California Groundwater Live](#) (CalGW Live) website which is updated daily and presents the most up-to-date data received by DWR.

Since the enactment of SGMA in 2014, significant progress has been made by the local agencies and the state to collect, report, and disseminate groundwater data and manage groundwater resources. Today, groundwater sustainability plans (GSP) are fully developed and in the implementation phase for basins providing 98% of the total groundwater pumped in the state. In addition to maintaining the CalGW Live website for the most recent data, DWR is working towards making annual groundwater use data reported by GSAs available to the public as well as improving timely reporting of groundwater data. Additional relevant groundwater data resources are discussed towards the end of this report.

Drought and Groundwater in California

California’s climate is highly variable and can produce extreme swings. California is currently in its third year of a drought, which was preceded by one of the wettest years on record (2017) on the heels of a prior statewide drought (2012 - 2016). California’s climate varies seasonally, annually, and over longer multi-year and decadal cycles. **Figure 1** shows the annual variability of statewide precipitation for the past 50 years. Since 2000, more than half of California’s Water Years have been dry or drought years, contributing to over-all moisture deficit conditions in our hydrologic system. During dryer periods, groundwater extraction is increased to balance out the seasonal and annual variations in the state’s surface water supply.

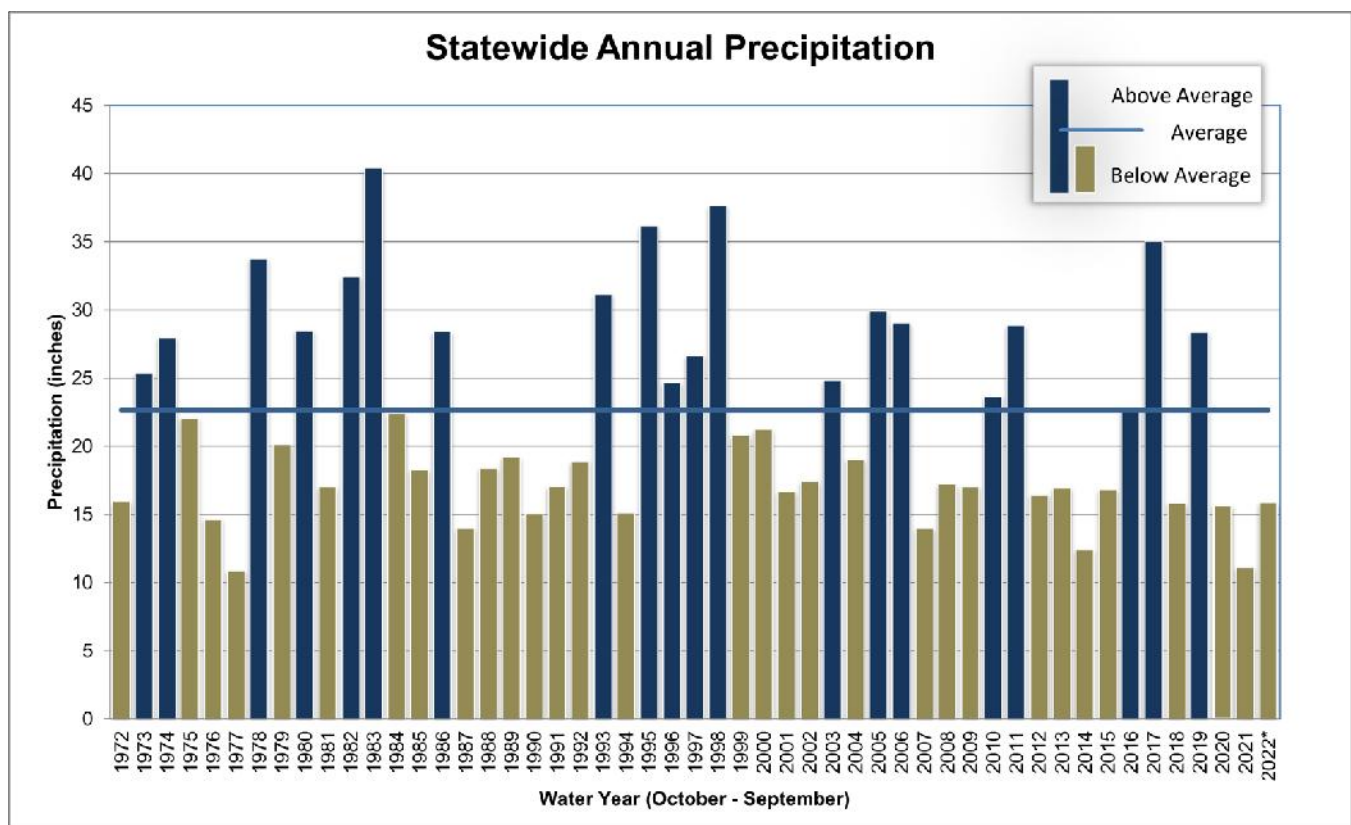


Figure 1: Statewide Annual Precipitation, NOAA National Centers for Environmental Information, ([Climate at a Glance: U.S. Time Series, Precipitation](#)). *2022 Water Year Data uses projected totals based off mean precipitation levels from September 1896 to 2021.

Seasonal variations in statewide precipitation can also be substantial, as shown in **Figure 2** for the Northern Sierra 8-Station Precipitation Index. The State had an exceptionally wet season from the beginning of WY 2022 from October through the end of December 2021; it was on track to match the wettest year on record (2017) in the Northern Sierra, where most of the state’s precipitation falls. However, January, February, and March 2022 were the driest on record dating back over 100 years, ultimately leading to a water year with well below average annual precipitation.

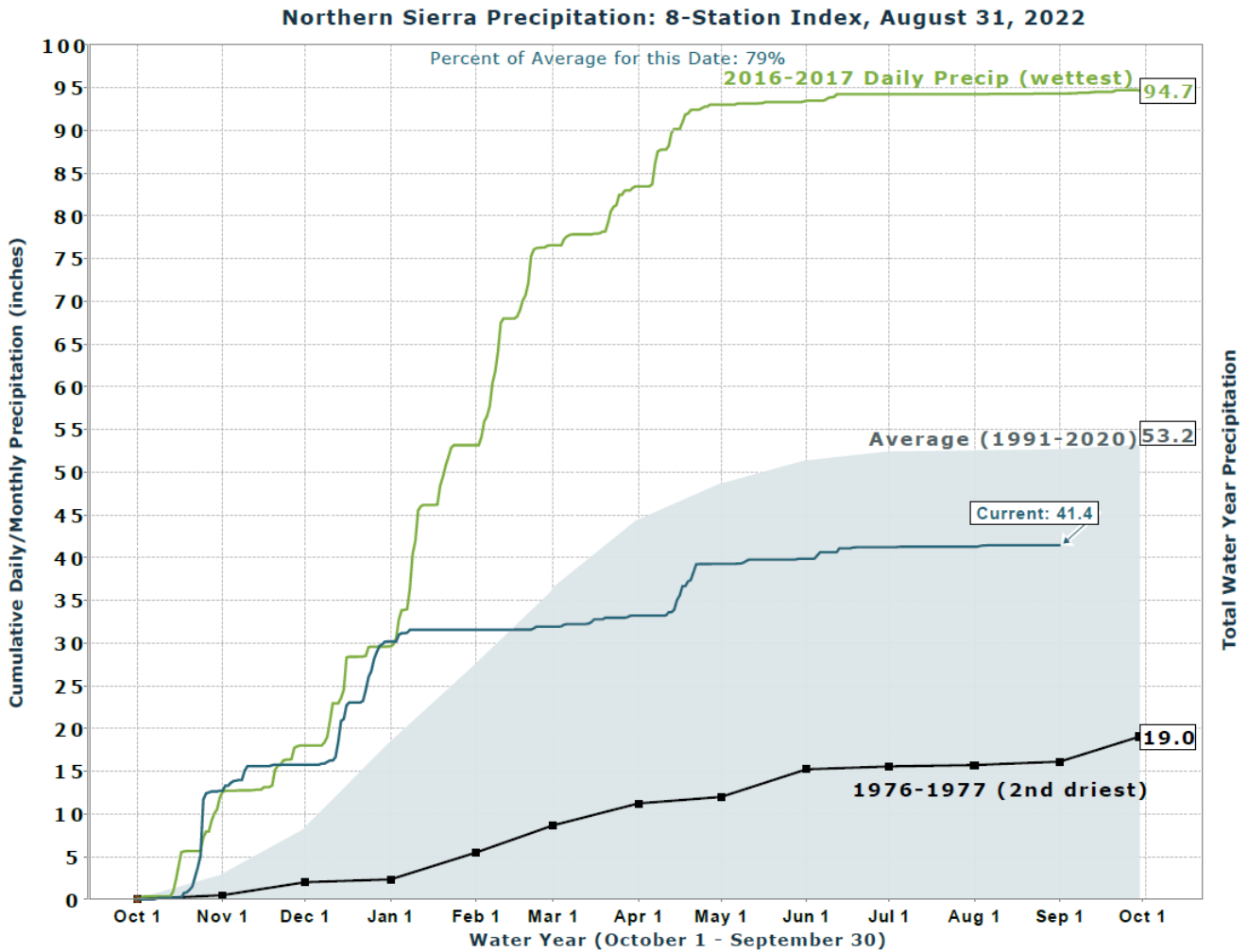


Figure 2: Northern Sierra Precipitation: Average precipitation (53.2 inches) with highest in 2016-2017 WY (94.7 inches) and current 2021-2022 WY (up to August 31) precipitation (41.4 inches) based on [CDEC Sierra Precipitation 8-Station Index](#).

California is also experiencing dryer than average conditions over a longer term. It is reported in a recent [study](#) published in the Nature Climate Change journal that 2000-2022 is the driest 22-year stretch on record in at least 1,200 years in California. Historical data shows that 15 of the 22 years during the 2000-2022 period had below average annual statewide precipitation (**Figure 1**). The cumulative departure from the average annual statewide precipitation (**Figure 3**) for the 2000-2022 period shows the accumulated precipitation deficit during this period.

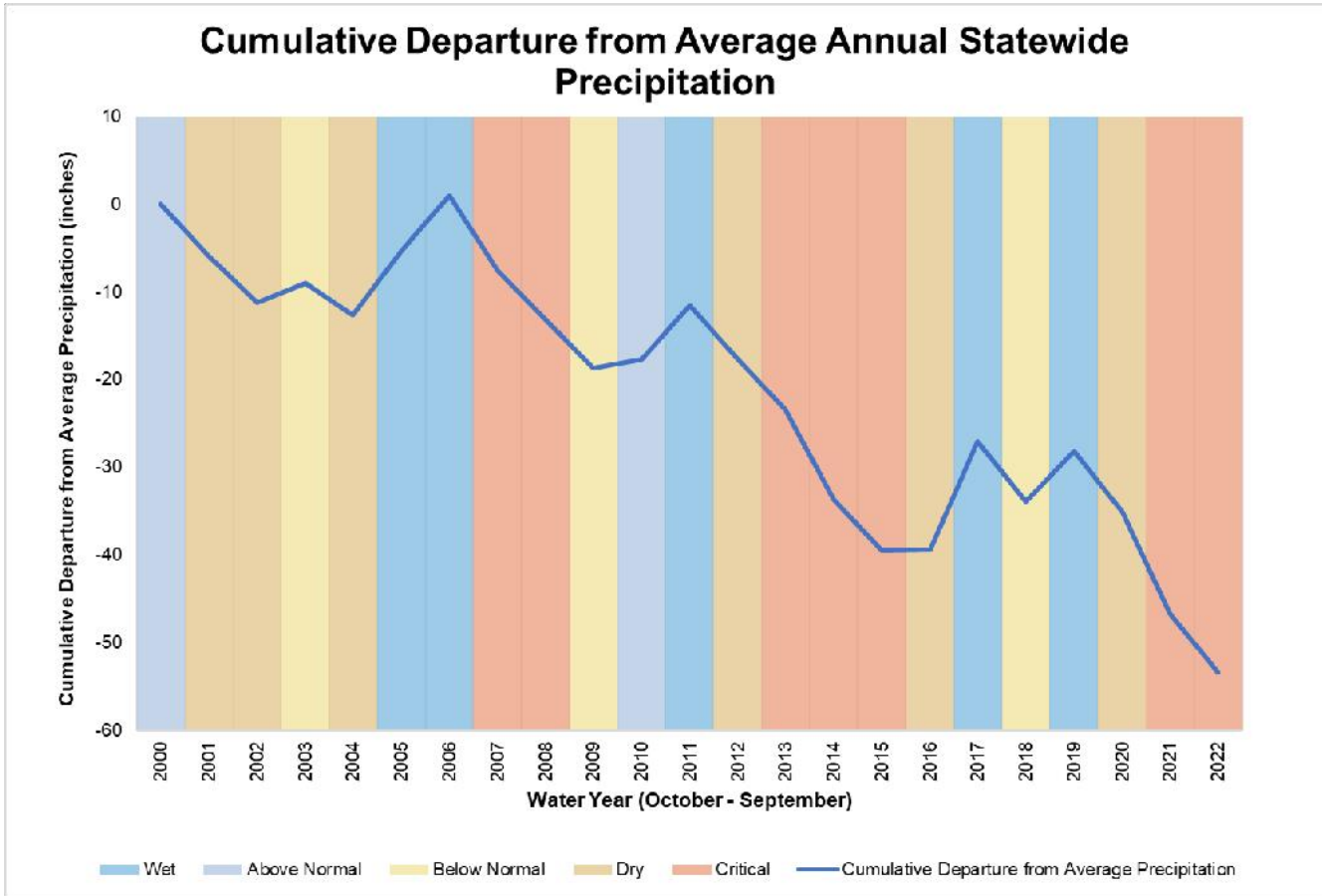


Figure 3: Cumulative Departure from Average Annual Statewide Precipitation based on data from NOAA National Centers for Environmental Information, ([Climate at a Glance: U.S. Time Series, Precipitation](#)). *2022 Water Year Data uses projected totals based off mean precipitation levels from September 1896 to 2021 means.

While precipitation drives the hydrologic system in California, groundwater basins have been utilized over past decades both as a drought buffer and a climate adaptation strategy. On average, groundwater provides 41 percent of the state’s total annual water use, and up to 58 percent of the total annual water use in drought years, while the rest of the annual water use is provided by surface water and water reuse. As shown in **Figure 4**, groundwater use during the 2002-2016 period averaged approximately 17.6 million acre-feet (maf), which represents 41 percent of the average annual total water use (42.9 maf) in the state during that period. During the critically dry year of 2015, total water use in the state declined slightly from the average but groundwater use increased and amounted to approximately 22.9

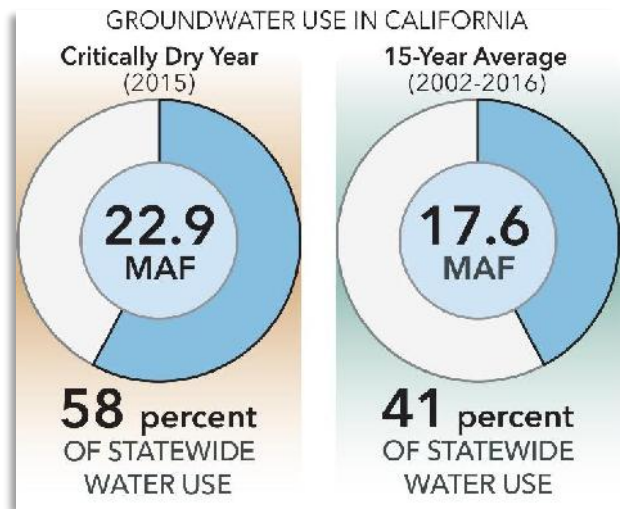


Figure 4: Total Groundwater Use and Percentage of Statewide Water Supply in a Critically Dry Year versus 15-Year Average.

maf, representing 58 percent of total annual water use (39.4 maf) in 2015 ([California's Groundwater Update 2020](#)).

Long-term reliance on groundwater as a drought buffer is not sustainable. Historical data shows that overuse of groundwater combined with a decreased recharge caused by lower precipitation over the last 20 years has prevented groundwater level recovery in many areas of the state (**Figure 8**).

Groundwater Levels

Changes in groundwater levels, especially groundwater level declines during drought, can indicate potential vulnerabilities to groundwater wells, the environment, and areas susceptible to land subsidence and water quality degradation. Groundwater level data provide valuable information on seasonal fluctuations, long-term changes, and trends in groundwater storage. Groundwater levels are measured on a regular schedule in a variety of groundwater wells located throughout the state. Late winter and early spring measurements capture the pre-irrigation seasonal high groundwater levels. Groundwater level data are collected by DWR and also collected and reported to DWR by Groundwater Sustainability Agencies implementing SGMA and by Monitoring Entities participating in the California Statewide Groundwater Elevation Monitoring ([CASGEM](#)) Program.

The maps shown in **figures 5, 6, 7, and 8** depict how groundwater levels have changed over time. **Figures 5, 6, and 7** show respectively one-year, three-year, and five-year change in groundwater levels during the spring season. **Figure 8** uses trend analysis of groundwater levels for wells having measurements in at least 10 water years over a 20-year period to illustrate the long-term trend (a well's water level increasing or decreasing trend over a 20-year period).

The groundwater level change maps also display, in accompanying bar charts, the percentage of wells with various ranges of increases and decreases in groundwater levels by the entire state and hydrologic regions. **Table 1** summarizes the statewide information for one-year, three-year, and five-year changes shown in the groundwater level change maps.

Table 1: Statistical Summary of Groundwater Level (GWL) Changes from spring 2022 (As Shown in **Figures 5-7**). Water Year Type as defined by the Sacramento River 8-Station Index, Department of Water Resources, California Data Exchange Center, [WSIhist \(ca.gov\)](http://WSIhist.ca.gov).

Period (Water Year Types)	Total Well Count	Decrease > 25 ft	Decrease 5 to 25 ft	No Significant Change (Less than +/- 5 ft)	Increase 5 to 25 ft	Increase >25 ft
1-Year GWL Change (Critical vs Dry): 2022 compared to 2021	5,823	4.7%	27.1%	61.4%	5.6%	1.2%
3-Year GWL Change (Critical vs Below Normal): 2022 compared to 2019	5,126	12.5%	39.2%	40.2%	6.7%	1.3%
5-Year GWL Change (Pre-Current Drought): 2022 compared to 2017	4,868	11.1%	36.7%	39.2%	10.1%	3.0%

The one-year change map (**Figure 5**) shows that approximately 61 percent of the statewide well measurements indicate no significant changes (less than +/- 5 feet) in net water level. From Spring 2021 to Spring 2022, approximately 32 percent of measured wells show more than five feet of decline in groundwater levels, and only seven percent show more than five feet of increase in water levels. The Tulare Lake Hydrologic Region outpaces all other hydrologic regions in the state with 71 percent of wells showing one-year declines in water levels, which is about 10 percent more than the one-year declines reported last year ([California Groundwater Conditions Update - Spring 2021](#)). The San Francisco Bay Hydrologic Region showed 17 percent of wells with increasing water levels, the most among all hydrologic regions.

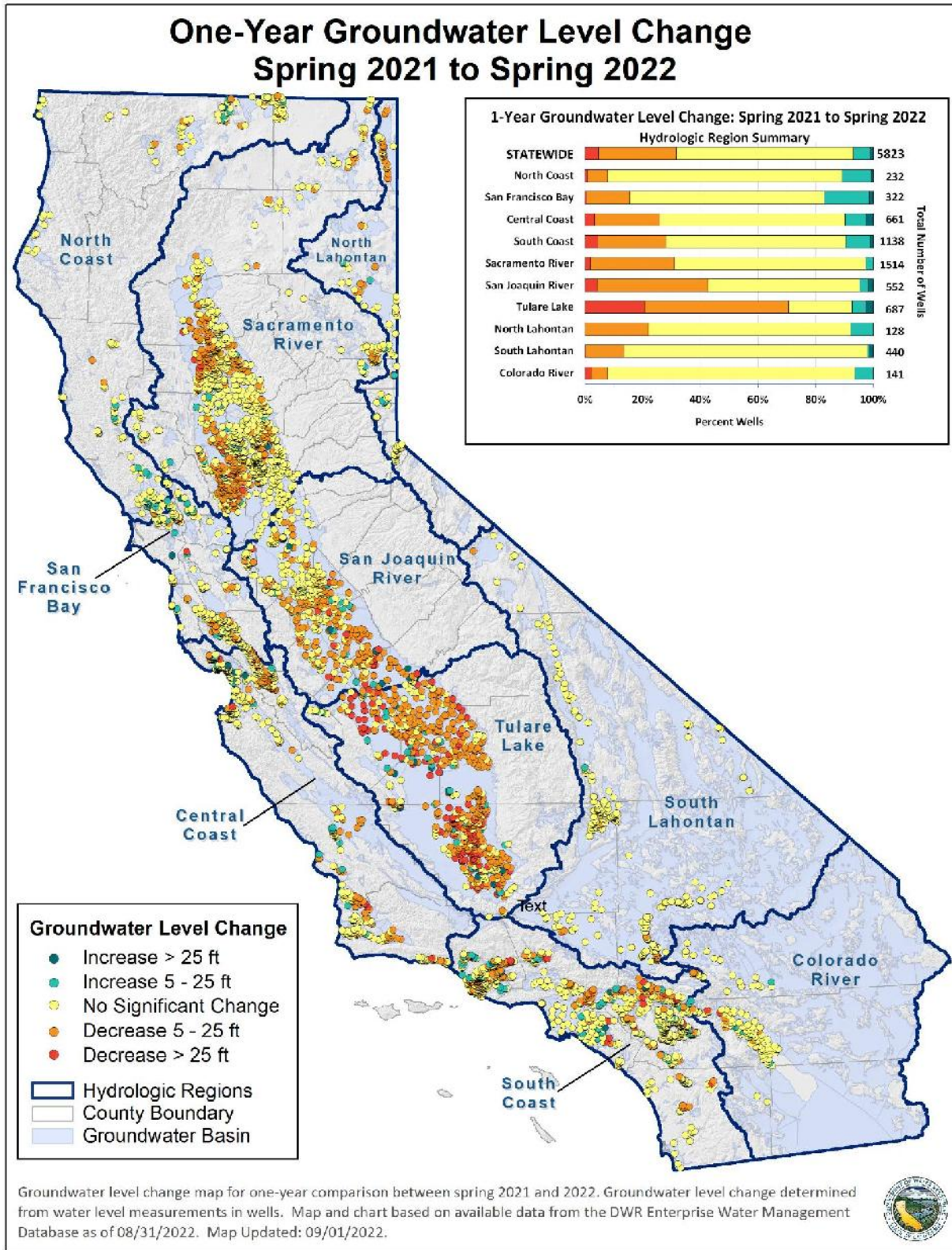


Figure 5: Statewide and hydrologic region groundwater level change map for one-year period between spring 2021 and 2022. See **Table 1** for specific groundwater level statistics. Map and charts based on available data from the [DWR Water Data Library](#) as of 08/31/2022.

The three-year change map (**Figure 6**) spans the current drought period and shows more declines than increases in groundwater levels. Statewide, more than 50 percent of measured wells show more than five feet of decline in groundwater levels. The Tulare Lake Hydrologic Region has the highest percentage (80 percent) of wells with declining groundwater levels, with over 40 percent of wells showing declines of more than 25 feet in the 3-year period. The Sacramento and San Joaquin River hydrologic regions show that nearly 70 percent of wells have some declines in water levels. Groundwater level changes are more balanced in the South Coast and Colorado River hydrologic regions which show similar levels of increases and decreases: greater than five feet increases in 20 percent of wells and decreases in 28 percent of wells in the South Coast; and greater than five feet increases in 28 percent of wells and decreases in 17 percent of wells in the Colorado River hydrologic region.

The previous drought in California lasted from 2012 through 2016, which ended with one of the wettest years on record in 2017. For several years after the last drought, groundwater levels increased in some areas. However, the five-year (2017-2022) change map (**Figure 7**) shows that in most areas of the state groundwater levels have dropped below the 2017 levels, even though two (2017 and 2019) of the five years experienced above average statewide precipitation (**Figure 1**). The South Coast and Colorado River hydrologic regions had more wells with increasing groundwater levels. Statewide, 48 percent of wells experienced more than five feet of decline in groundwater levels while 13 percent of wells had increasing water levels, illustrating the variable nature of groundwater level depletion and recovery across the state.

Figure 8 shows the trend of groundwater level change over time. Rather than a direct comparison of groundwater levels from two different time periods (as in **figures 5, 6, and 7**), **Figure 8** shows the magnitude of decreasing or increasing groundwater level trends in wells over the 20-year period from WY 2002 to WY 2022, which includes droughts from 2007 to 2009, 2012 to 2016, and the current drought (2020 to present). Groundwater levels measured at wells during this 20-year period were analyzed using the Mann-Kendall non-parametric test to determine whether a statistically significant trend (declining trend, no trend, or increasing trend) was present. The data used for this analysis came from wells that have at least 10 years of data within the 2002-2022 period. If a statistically significant trend was observed, the Theil-Sen method was used to calculate the estimated slope of the trend line to quantify the decline or increase as explained in California's Groundwater Update 2020 [Appendix C - Methods and Assumptions](#). During this 20-year period of stressed water resources and increased groundwater use, more than 46 percent of statewide wells had a decreasing trend in groundwater levels while just over 10 percent of wells demonstrate an increasing trend. The percent changes observed from WY 2002 to WY 2022 are summarized in **Table 2**.

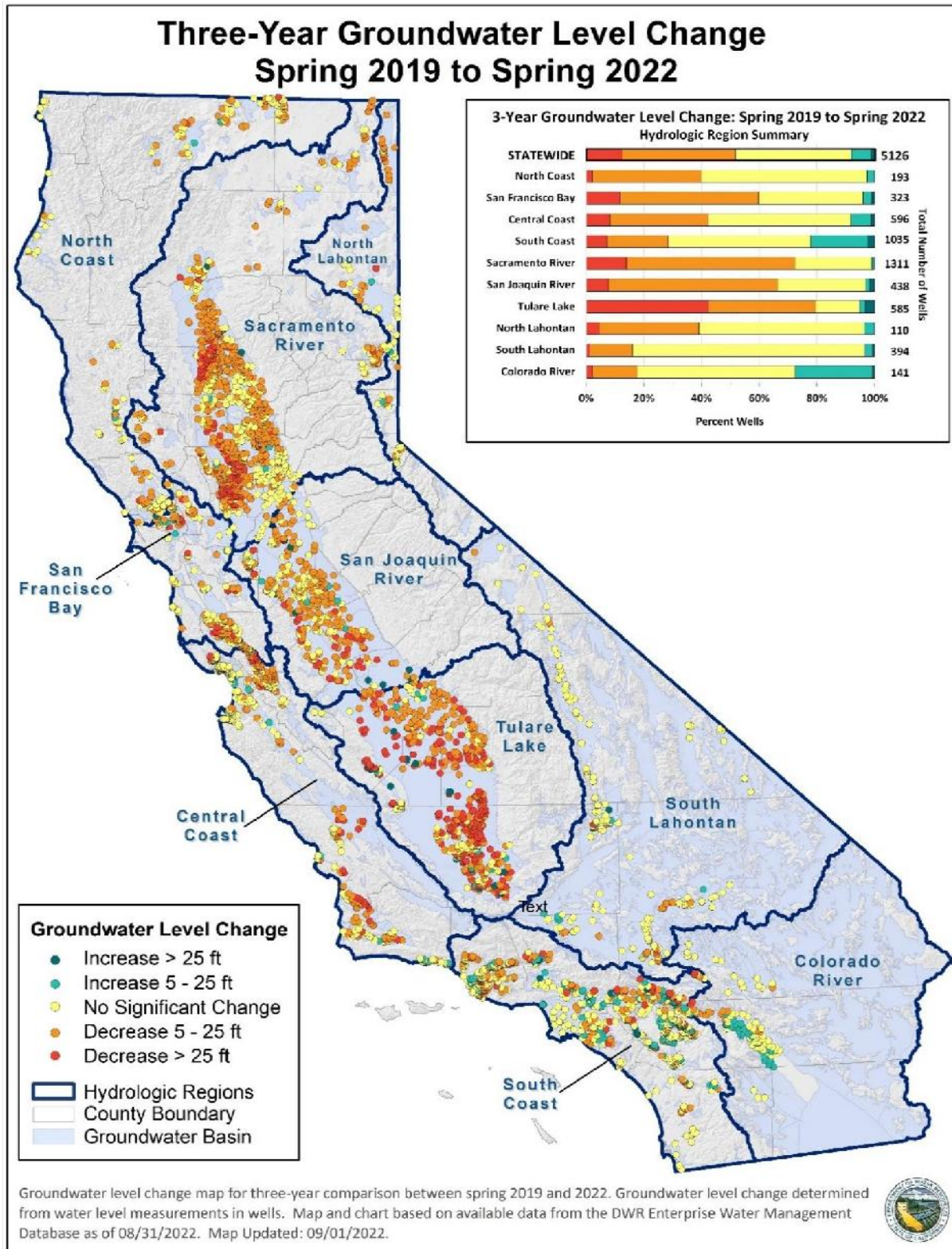


Figure 6: Statewide and hydrologic region groundwater level change map for three-year period between Spring 2019 and 2022. See **Table 1** for specific groundwater level statistics. Map and charts based on available data from the [DWR Water Data Library](#) as of 08/31/2022.

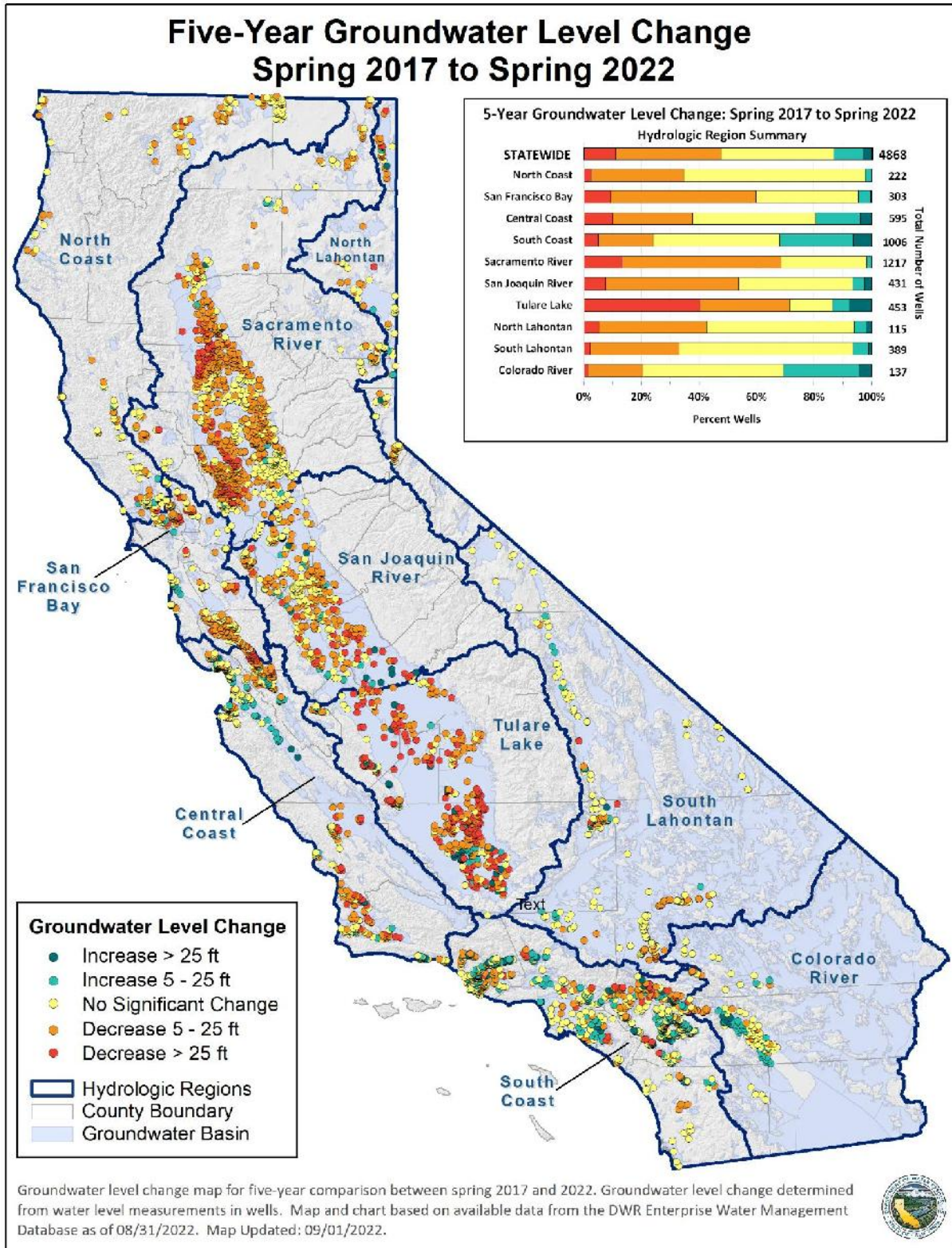


Figure 7: Statewide and hydrologic region groundwater level change map for five-year period between spring 2017 and 2022. See **Table 1** for specific groundwater level statistics. Map and charts based on available data from the [DWR Water Data Library](#) as of 08/31/2022.

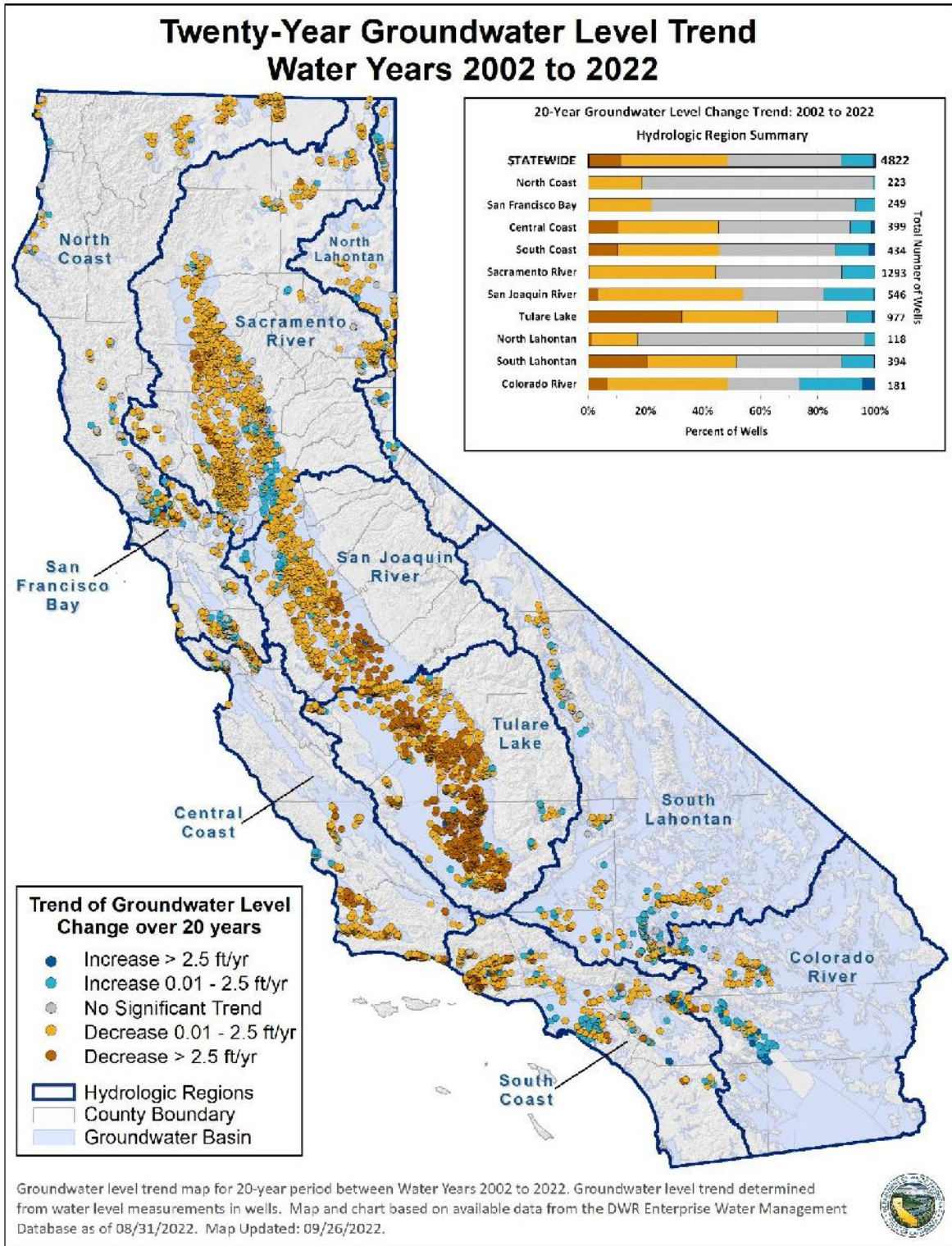


Figure 8: Statewide and hydrologic region groundwater level trend analysis map for Water Years 2002-2022. See **Table 2** for specific groundwater level statistics. Map and charts based on available data from the [DWR Water Data Library](#) as of 08/31/2022.

Table 2: Statistical Summary of Groundwater Level Trend Map (**Figure 8**)

Period	Total Well Count	Decrease > 2.5 ft	Decrease 0.01 - 2.5 ft	No Significant Trend (Less than +/- 0.01 ft)	Increase 0.01 - 2.5 ft	Increase > 2.5 ft
20-Year Trend: 2002 to 2022	4822	10.9%	35.4%	37.6%	10.4%	0.8%

Land Subsidence

Land subsidence has been documented throughout the last century in certain areas of the state resulting in over 30 feet of vertical displacement or “sinking” of the land surface in some areas. This has caused damage and reduced capacity to water conveyance infrastructure, reduced groundwater storage availability for future use, and caused damage to other critical infrastructure. Since 2015, there have been significant improvements to the state’s subsidence monitoring network, most notably the processing and reporting of satellite based Interferometric Synthetic Aperture Radar (InSAR) data, which provides monthly subsidence data for more than 150 groundwater basins. In response to a recent drought executive order to accelerate subsidence data collection and reporting, DWR has increased the reporting frequency of monthly InSAR data from annually to quarterly to provide more real-time information. Vertical ground surface displacement estimates are derived from the InSAR data that are collected by the European Space Agency (ESA) Sentinel-1A satellite and processed by TRE ALTAMIRA, under contract with DWR. This report includes figures, tables, and discussion of land subsidence data for both WY 2022 and the entire InSAR dataset which is referenced as “Since 2015” (a period from June, 2015 to July, 2022). **Tables 3** provides a summary of vertical displacement observed in the InSAR dataset in WY 2022 and **Table 4** provides a summary of cumulative vertical displacement since 2015.

Table 3: Total Area of Subsidence Corresponding to Subsidence Amount for July 2021 to July 2022 (**Figure 9**)

Period	Subsidence >0.1 ft	0.1 to 0.2 ft	0.2 to 0.4 ft	0.4 to 0.6 ft	0.6 to- 0.8 ft	0.8 to 1 ft	>1 ft
July 2021 - July 2022	4,518 sq miles	1,534 sq miles	1,580 sq miles	635 sq miles	417 sq miles	292 sq miles	60 sq miles

Table 4: Total Area of Subsidence Corresponding to Subsidence Amount since 2015 (**Figure 10**)

Period	Subsidence >0.5 ft	0.5 to 1 ft	1 to 2 ft	2 to 3 ft	3 to 4 ft	4 to 5 ft	> 5 ft
June 2015 - July 2022	3,231 sq miles	1,226 sq miles	879 sq miles	458 sq miles	310 sq miles	277 sq miles	82 sq miles

Two maps are provided in this report to display the location and magnitude of statewide land subsidence for the one-year period from July 2021 to July 2022 (**Figure 9**) and for the 7-year period from June 2015 to July 2022 (**Figure 10**). The total area in square miles for 7-year cumulative subsidence is less than the reported total for annual subsidence because the minimum value reported in **Table 4** is a higher value (0.5 feet) than that for the annual summary (0.1 feet) and data coverage for annual maps is higher than that of cumulative subsidence due to improvements in the InSAR processing techniques.

Figure 9 shows the total annual rate of subsidence in feet/year for July 2021 to July 2022. Annual subsidence is shown in six categories: 0.1-0.2 feet/year, 0.2-0.4 feet/year, 0.4-0.6 feet/year, 0.6-0.8 feet/year, 0.8-1 feet/year, and greater than 1foot/year.

Figure 10 shows total subsidence, in feet, from June 2015 to July 2022. Subsidence of less than 0.5 feet is shown in grey color on the map to show the geographic coverage of the InSAR dataset. The hydrologic region summary chart only represents areas of subsidence with 0.5 feet or more.

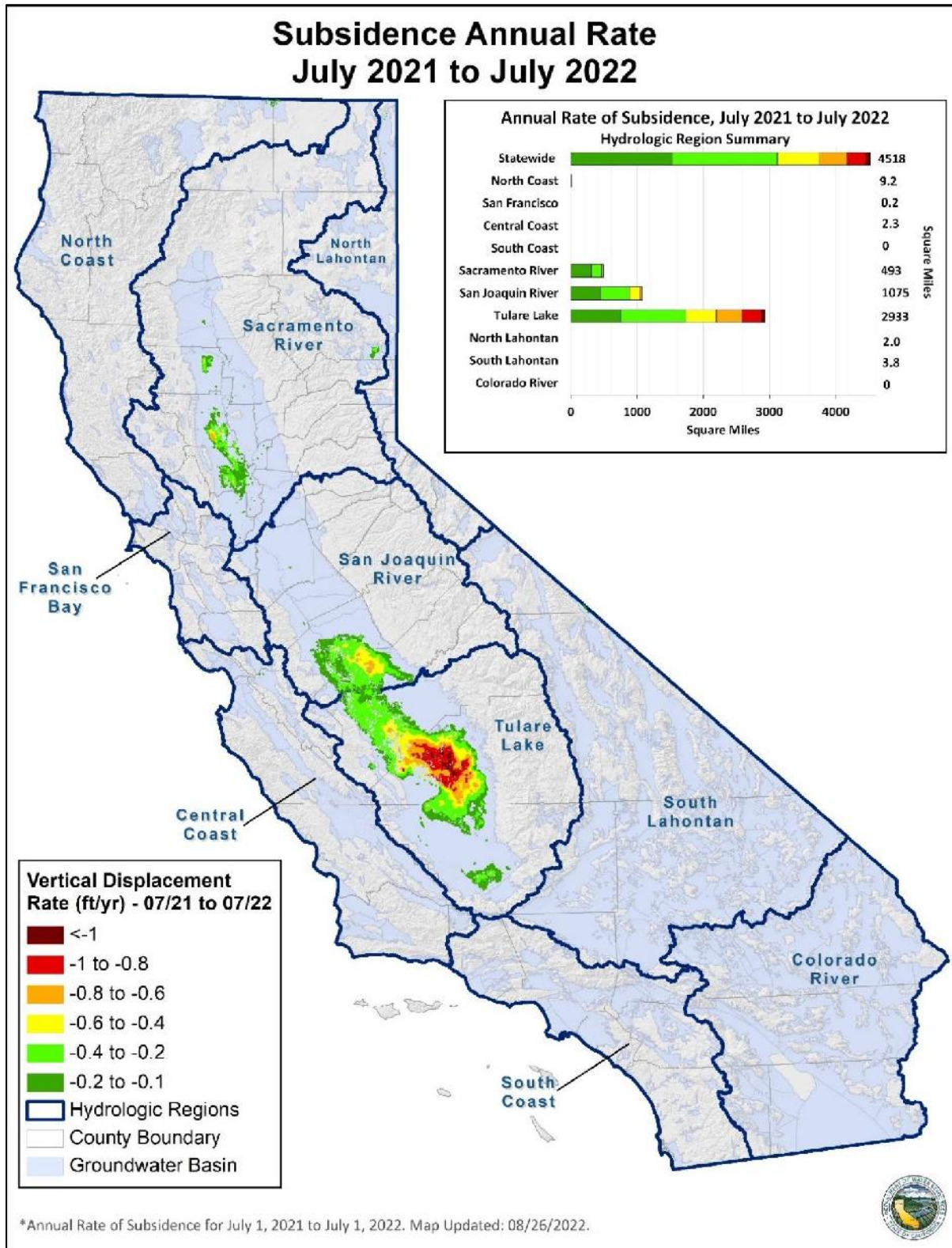


Figure 9: Statewide annual subsidence map for July 2021 to July 2022. See **Table 3** for specific subsidence level statistics. Map and charts based on available data from the [CNRA Open Data](#) as of 08/25/2022.

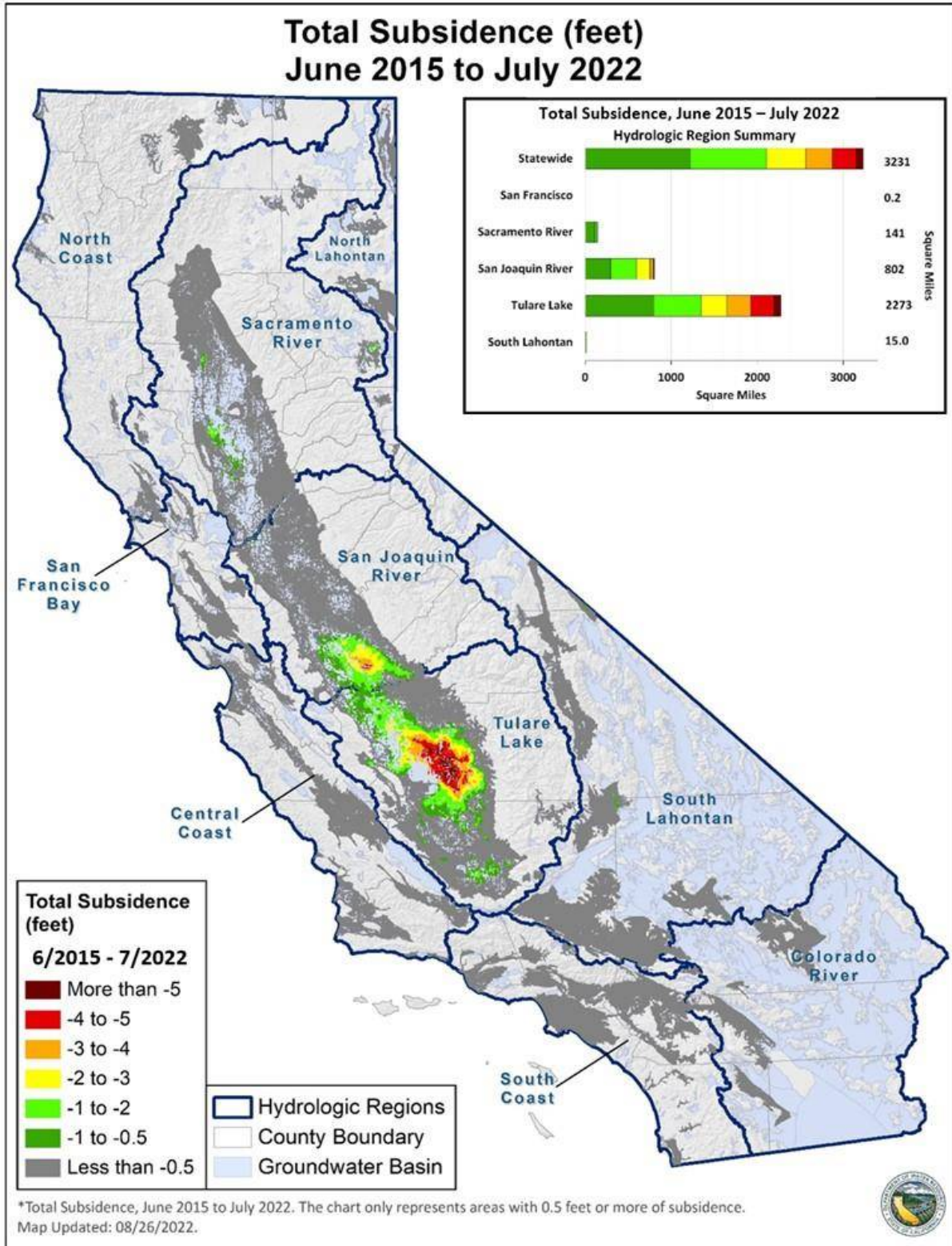


Figure 10: Statewide total subsidence map between June 2015 to July 2022. See **Table 4** for specific subsidence level statistics. Map and charts based on available data from the [CNRA Open Data](#) as of 08/25/2022.

For the July 2021 to July 2022 period, statewide data shows a total area of 4,518 square miles with recorded subsidence greater than 0.1 feet, and 60 square miles recording greater than 1 foot of subsidence. The Tulare Lake Hydrologic Region has the most areas of subsidence with about 3000 square miles of area experiencing greater than 0.1 feet of subsidence during the July 2021 to July 2022 period. During the same one-year period, South Coast and Colorado River hydrologic regions recorded no subsidence over 0.1 feet whereas San Francisco, North Lahontan and South Lahontan hydrologic regions recorded greater than 0.1 feet of subsidence in less than 4 square miles area.

Groundwater Levels and Land Subsidence

Groundwater levels and land subsidence are two of the six sustainability indicators under SGMA and are intricately connected. **Figure 11** shows groundwater levels in conjunction with ground surface elevations measured with an extensometer well and plotted over time since 1991 at a site in Yolo County. The time-series graphs demonstrate how groundwater levels affect elastic (reversible) and inelastic (irreversible) land subsidence. The groundwater level data shows how the depth to groundwater fluctuates seasonally, with corresponding seasonal changes, or vertical displacement, in land surface elevations. The chart shows that prior to 2013, the seasonal depth to groundwater was generally consistent and did not exceed approximately 80 ft. During this time the ground vertical displacement was minimal (plus or minus approximately one inch) and mostly inelastic. However, during the 2012 -2016 drought, pumping increased causing the seasonal water levels to decline beyond 110 ft, establishing a new historical low groundwater level for this site. This resulted in considerable inelastic subsidence with the ground vertical displacement of approximately 10 inches in two years, permanently decreasing groundwater storage capacity.

Although the dramatic vertical displacement has abated since 2015 at this site, seasonal groundwater levels at this site frequently drop below 90 ft and some inelastic land subsidence each year can be seen as the current drought continues.

Groundwater Levels and Subsidence - 1992 to 2022

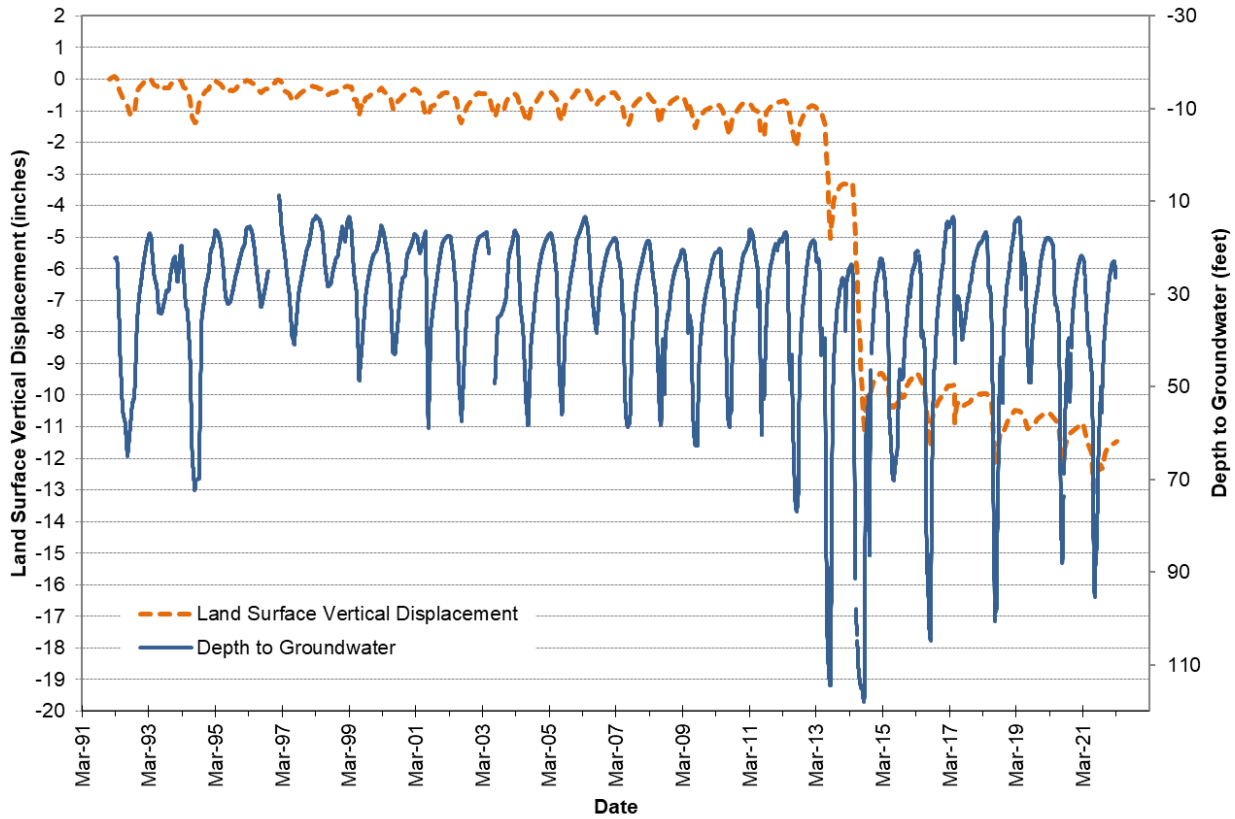


Figure 11: Hydrograph Showing Groundwater Level Changes in a Monitoring Well in conjunction with Land Subsidence in Yolo County, California.

Well Infrastructure

Many factors influence the type and number of groundwater extraction wells (well infrastructure) drilled in California, such as climate conditions, surface water supplies, groundwater level changes, legislative actions, age of the well and other local conditions. Well completion reports (WCR) are submitted to DWR through the [Online System for Well Completion Reports](#) (OSWCR) when a well is installed, replaced, or destroyed. This report includes a summary of data submitted to OSWCR over the last eight water years (2015 - 2022) for groundwater extraction wells classified as domestic or irrigation wells.

This report also provides an eight-year summary of dry water wells reported by members of the public to DWR's Dry Well Reporting System. Reporting is voluntary, so the actual numbers of dry wells and/or the number of resolved dry wells may be higher than what is reported in the database.

An 8-year summary and year-to-year statistics of domestic, irrigation, and dry wells are provided in **Table 5**. The data go back to the 2015 water year, which captures the end of the

previous drought (2012 - 2016). The total number of domestic and irrigation wells installed since 1977 are also provided for context. The water year type designations shown here are based on the San Joaquin Valley Water Year Hydrologic Classification Index, because no statewide water-year type index currently exists. As stated in the Introduction, Water Year 2022 groundwater data used in this semi-annual report includes data received electronically by DWR as of August 31, 2022.

Table 5: Statewide Summary of Newly Installed Domestic and Irrigation Wells and Number of Dry Well Reporting Over Last 8-Years and Total. *Dry Well Reporting started in 2013, whereas the database of WCRs for domestic and irrigation wells are considered to be complete since 1977

Type of Wells	Total since 1977*	8 Year Total (WY 2015 to WY 2022)	WY 2015	WY 2016	WY 2017	WY 2018	WY 2019	WY 2020	WY 2021	WY 2022 (Oct 2021 to Aug 2022)
			Critical	Dry	Wet	Below Normal	Wet	Dry	Critical	Critical
Domestic Wells	276,875	25,651	3,527	4,407	3,124	2,600	2,739	2,990	3,481	2,783
Irrigation Wells	60,339	14,092	3,041	2,866	1,487	1,113	1,332	1,325	1,713	1,215
Dry Wells Reported	4,851	4,373	1,357	546	123	72	52	86	1,046	1,021

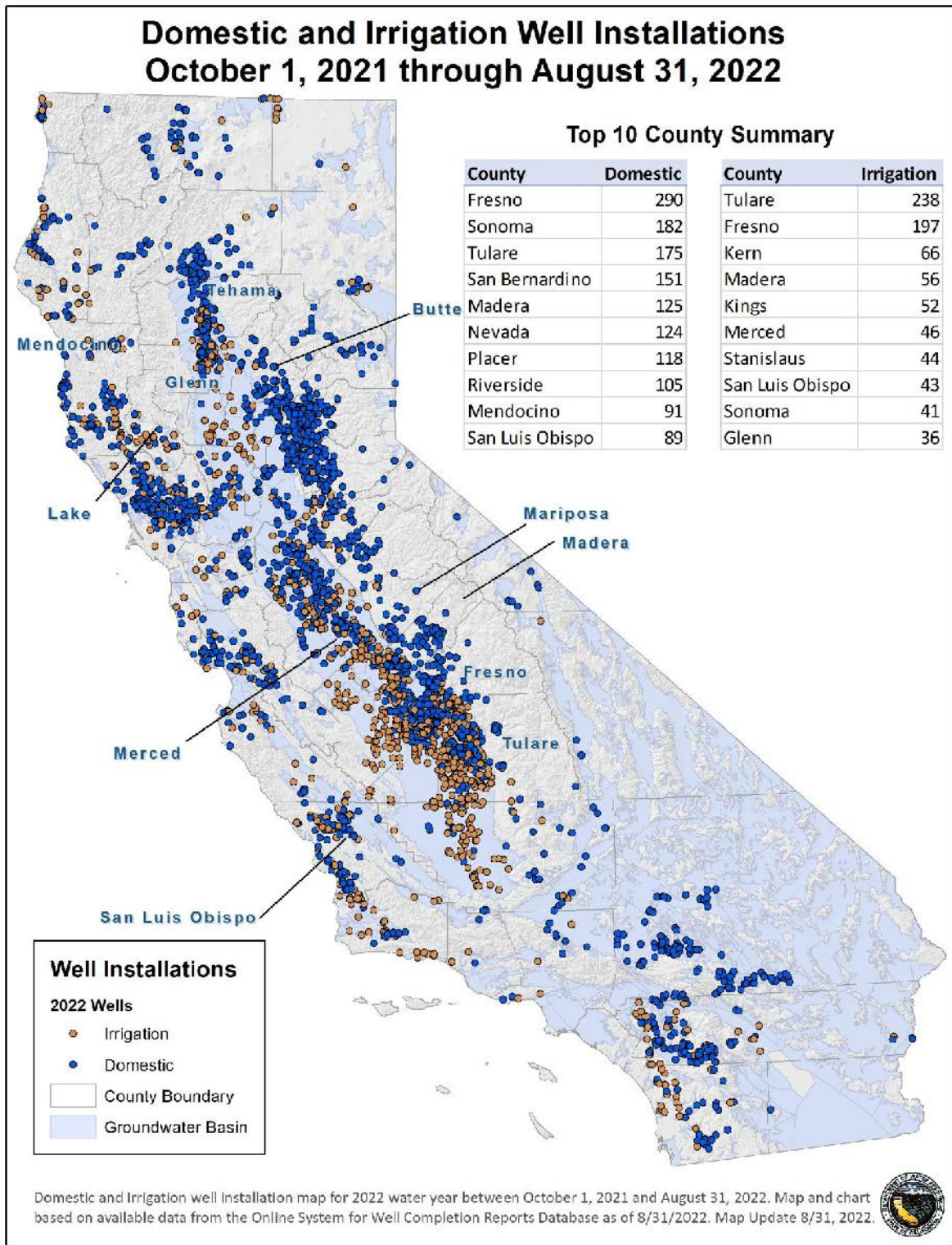


Figure 12: Statewide newly installed domestic and irrigation wells map for Water Year 2022 through August 2022. See **Table 5** for specific well data. Map and charts based on available data from the [CNRA Open Data](#) as of 08/31/2022.

Domestic Wells

Domestic (household) wells provide water to millions of people throughout California. During the 2022 water year (up to August 31), a total of 2,783 new domestic wells were reported to be installed in the state. During the last eight water years (since October 2014), a total of 25,651 domestic wells have been installed, accounting for approximately 9% of the total 276,875 domestic wells installed since 1977. The year-to-year number of new domestic wells has fluctuated from a low of 2,600 in WY 2018 to a high of 4,407 in WY 2016.

The location of new domestic and irrigation wells installed in California during the 2022 water year is shown in **Figure 12**. The counties with the highest number of new domestic wells were Fresno (290), Sonoma (182), and Tulare (175). The spatial distribution shows numerous domestic wells being installed outside of the 515 groundwater basins, in volcanic and fractured rock aquifers across the state, highlighting the dependence on groundwater in these areas.

A monthly timeseries of new domestic well installations since October 2014 is presented in **Figure 13**, along with a cumulative graph. The number of new domestic wells is typically influenced by changes in populations and new home construction, which is strongly influenced by economic cycles. New domestic wells could also be replacement wells for wells that went dry during a drought.

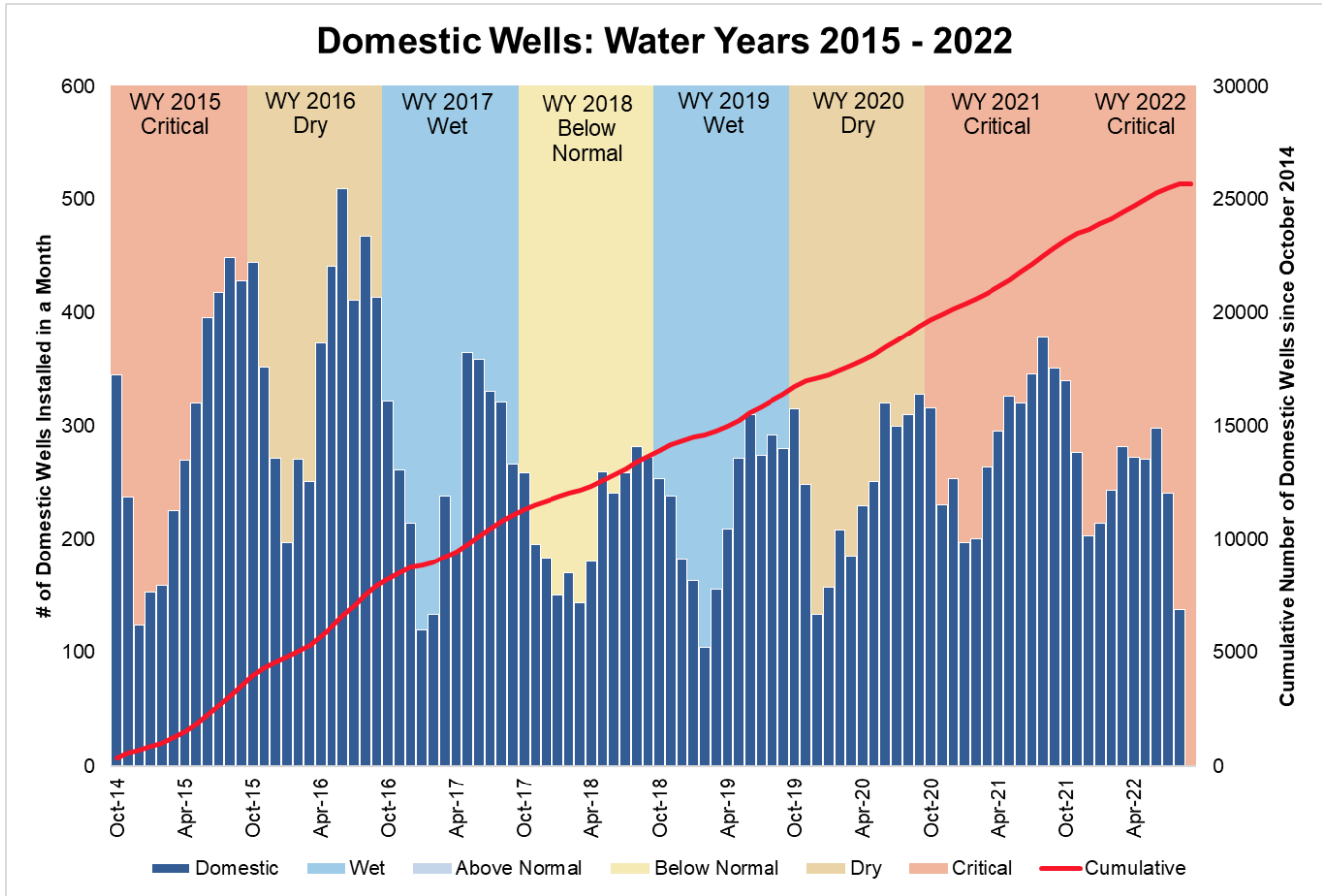


Figure 13: Monthly Domestic Well Installations with Cumulative Curve (WY 2015-2022)

Irrigation Wells

Irrigation wells typically have higher capacity and pump more groundwater than do domestic wells to provide water to farms that feed millions of people throughout California and the world. During the 2022 water year (up to August 31), a total of 1,215 new irrigation wells were reported to be installed in the state. Over the last eight years since October 2014, a total of 14,092 irrigation wells have been installed across the state, accounting for approximately 23 percent of the 60,339 irrigation wells installed statewide since 1977. The year-to-year number of new irrigation wells has fluctuated from a low of 1,113 in WY 2018 to a high of 3,041 in WY 2015.

Figure 12 shows the location of newly installed irrigation wells in WY 2022 through August. New irrigation wells that have been installed in California are much less geographically spread throughout the state when compared with the geographic spread of domestic wells. In the 2022 water year, Tulare County had more new irrigation wells (238) installed than any other county in the state, accounting for approximately one out of every five new irrigation wells (20 percent). Neighboring Fresno County (197) and Kern County (66) ranked 2nd and 3rd

respectively for most new irrigation well installations. These three counties combined account for 41 percent of all new irrigation wells installed in WY 2022. In contrast, 35 California counties had less than 10 new irrigation wells installed, and eight counties had no new irrigation wells installed in WY 2022.

A monthly timeseries of new installations of irrigation wells since October 2014 is presented in **Figure 14**, along with a cumulative graph. Installation trends for new irrigation wells reflect changes in annual precipitation and drought conditions but may also be influenced by other factors such as local and state ordinances, laws, or executive orders, cropping trends, irrigation methods, or the availability of alternative agricultural water supplies. A combined total of 5,907 new irrigation wells were installed during 2015 and 2016 water years towards the end of the 2012 - 2016 drought. This also coincides with the enactment of SGMA in 2014 and the most severe drought conditions during that time period.

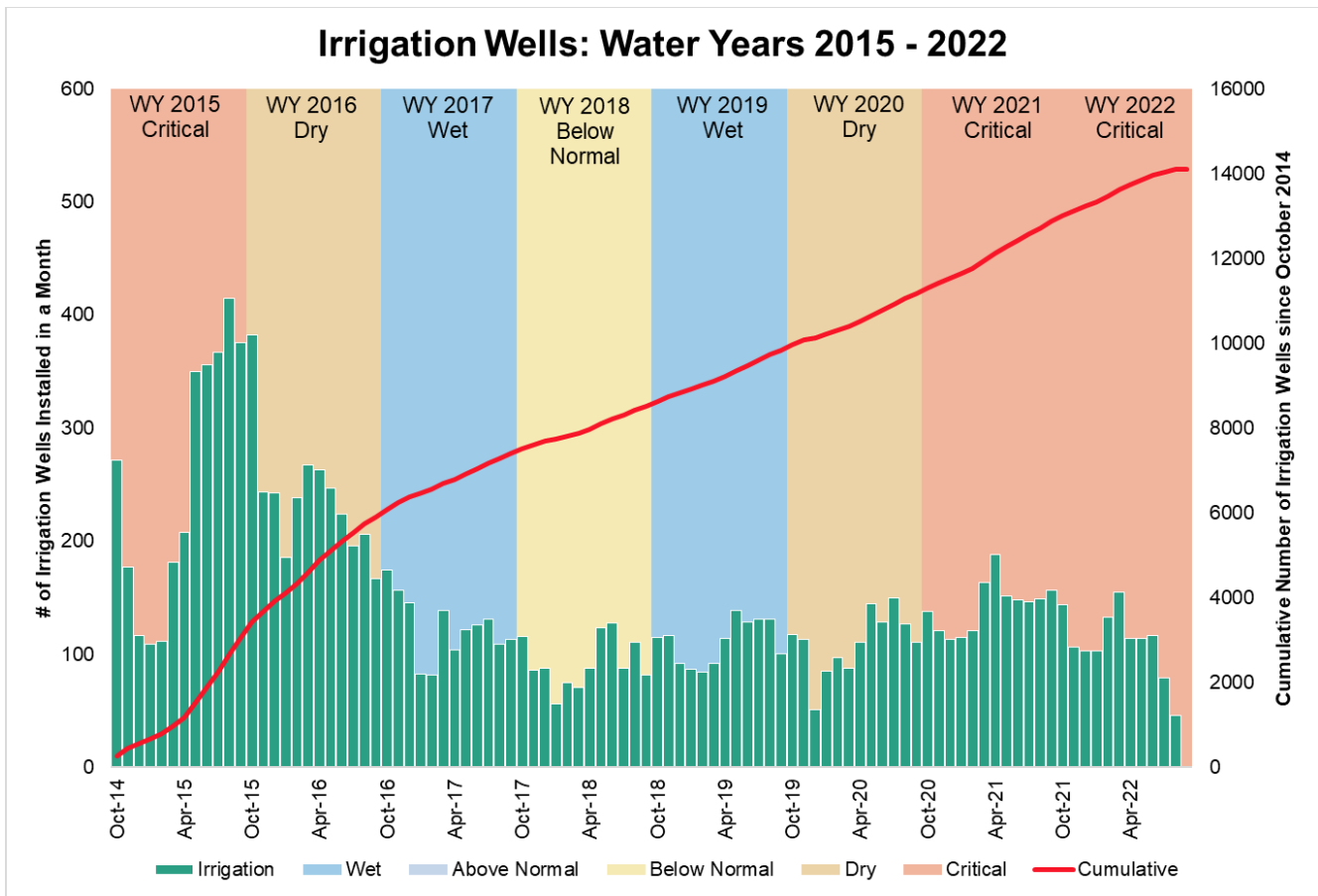


Figure 14: Monthly Irrigation Well Installations with Cumulative Curve (2015-2022)

Dry Well Reporting

Dry well reporting is an important tool to track areas where changes in local groundwater conditions may be impacting beneficial uses and users of groundwater in California for household water uses. It is also a key indicator of areas where drought assistance is most needed. As California continues to experience climate-driven severe drought conditions, leading to less available precipitation and snowmelt, and extreme heat, Californians rely heavily on groundwater to meet their water supply needs. Reports of dry wells naturally increase during extended dry periods as groundwater use increases and groundwater levels decline.

DWR's Dry Well Reporting System was originally developed during the 2012-2016 drought. Based on feedback from counties, the system has been updated to directly and immediately notify local agencies, including county officials, water agencies, and GSAs, when household water supply well outages are reported in their region. Dry well reports submitted to the Dry Well Reporting database can document a new domestic well that went dry or a resolution to a previously reported dry well. The submission of these dry well reports is voluntary so the data may not represent the actual number of dry wells occurring across the state. Since the system has been updated, more dry well reports are likely being submitted to the Dry Well Reporting database than were submitted in the past.

In WY 2022, a total of 1,021 new dry well reports were received by DWR compared to 1,046 in WY 2021. A total of 4,373 new dry well reports were received over the last eight years (2015-2022), and a total of 4,851 dry well reports have been received since 2013. The year-to-year number of dry well reports has fluctuated from a low of just 52 in WY 2019 to a high of 1,357 in WY 2015. For full year-to-year statistics of dry well reporting over the last eight-years see **Table 5**. The locations of dry wells reports in WY 2022 are shown in **Figure 15**.

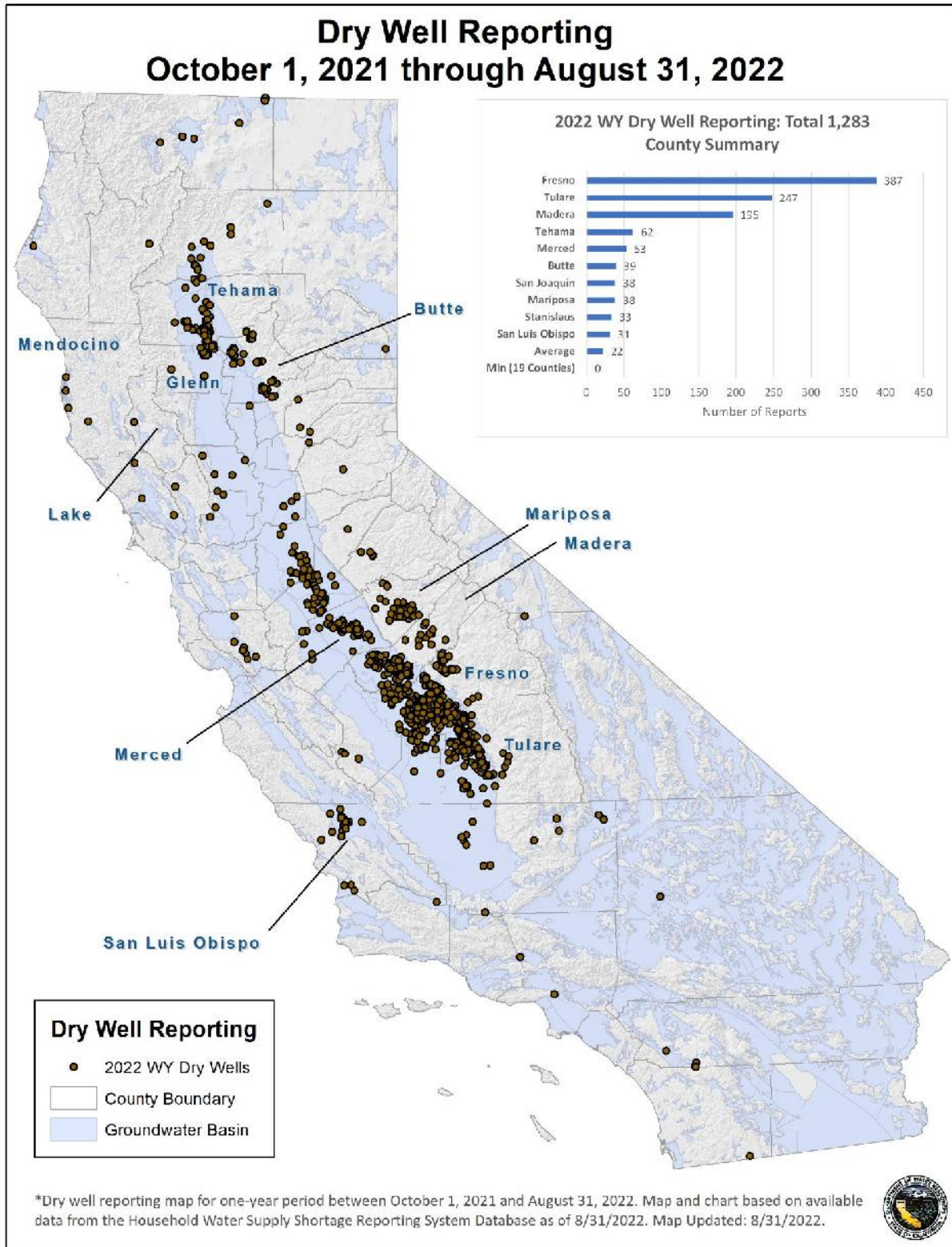


Figure 15: Statewide one-year reported dry wells map for Water Year 2022 (October 2021 through August 2022). Map and charts based on available data from the [CNRA Open Data](#) as of 08/31/2022.

In WY 2022, the highest number of dry well reports were received in Fresno County (359), Tulare County (230), and Madera County (163). These three counties account for approximately two out of every three dry well reports (65 percent) received statewide in WY 2022. Twenty-three counties reported between 1 and 10 dry wells and 20 counties reported zero dry wells.

The statewide trend for dry well reporting over the past eight water years (2015-2022) shows a correlation between extended dry periods and the number of dry well reports. Figure 16 shows a monthly timeseries of dry well reports from October 2014 to August 2022.

The state distributed \$92 million to communities in 26 counties for drought-related projects in 2021, which aided 353,000 Californians.

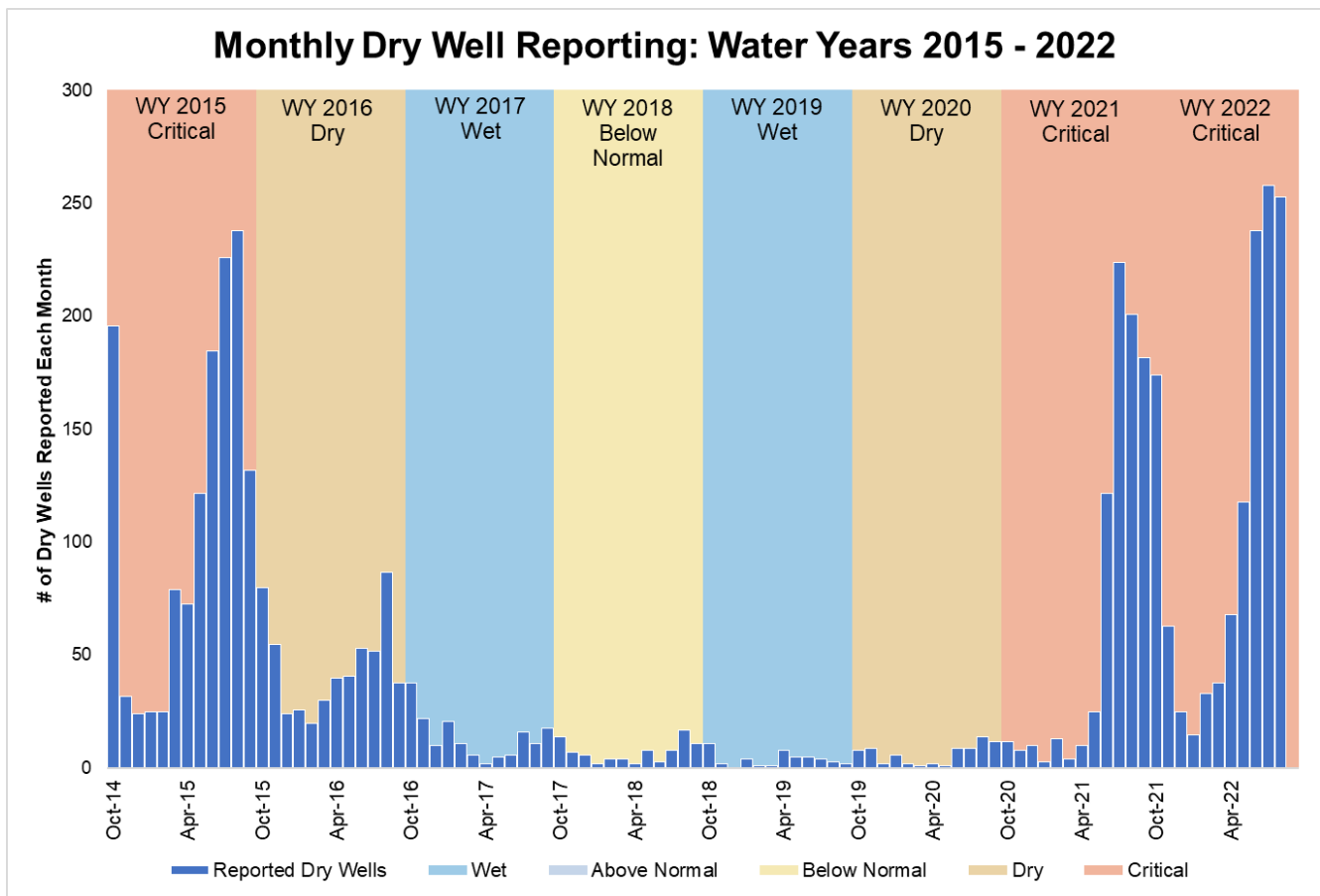


Figure 16: Monthly Dry Well Reporting (WY 2015 - WY 2022)

Data Used in This Report and Other Relevant Data Resources

As previously stated, the disparity in reporting periods for various groundwater data sets in this semi-annual update stem from the fact that there is an inherent lag between local data collection in the field and reporting to DWR. The frequency of groundwater data collection is

not the same for all data types which results in submission of data in different timeframes. For example, groundwater level data are often collected only in fall and spring; as a result, groundwater conditions maps cannot be reliably developed for the summer months until the fall measurements are received.

In addition, it takes time to process and quality control the data received by DWR. As a result, this semi-annual report contains data that are received, quality controlled, and processed as of writing this report and are indicated accordingly for various data types. It is recognized that all data collected locally for the period of analysis may not have been included in the summary and analysis presented in this report. DWR is actively working toward expanding groundwater data collection and streamlining data processing, quality control, and synthesis to ensure more timely reporting and access to groundwater data.

DWR maintains the [California Groundwater Live](#) website which is updated daily and presents the most up-to-date groundwater data received by DWR. It is an interactive application that allows users to explore, analyze, and visualize the latest groundwater data and information for California. Groundwater data is also available to the public on the [CNRA Open Data, Water Data Library](#), and [SGMA Data Viewer](#) web applications.

The [California Groundwater Projects Tool](#) is an interactive mapping tool that allows users to explore a database of nearly 3,000 projects funded by DWR and planned or implemented by local agencies in California over the last decade to manage and monitor groundwater resources.

DWR manages the [Dry Well Reporting System](#) where Californians experiencing problems with their private, self-managed wells that are not served by a public water system can voluntarily report dry wells and be connected with entities providing local assistance for drought.

DWR has also developed an interactive mapping tool, called the [Dry Domestic Well Susceptibility Tool](#), that identifies areas within groundwater basins throughout the state that may be prone to water supply shortages in drinking water wells. Susceptibility is identified based on recent groundwater level measurements and potential 5-year water level decline. The Dry Well Susceptibility Tool is housed on the California's Groundwater Live web-based platform which contains the most recently available information and data on groundwater conditions across the state. The State, 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. The [Dry Domestic Well Susceptibility](#) tool can be used by navigating to [California's Groundwater Live](#) website.

The Dry Well Reporting and Dry Domestic Well Susceptibility tools provide important information and resources for counties, local water agencies, groundwater sustainability agencies, and well owners to use for drought-related planning and decision-making.

Closing Thoughts

Groundwater is a vital resource in California. It sustains our ecosystems, supports our agriculture, fuels our economy, quenches our thirst, and reduces the impacts of droughts and changing climate. Groundwater accounts for about 40 percent of the state's average annual water supply and nearly 60 percent in drought years. More than 80 percent of Californians depend on groundwater for some portion of their water supply. Many communities, particularly in rural areas of California's Central Valley, are 100 percent reliant on groundwater for all their water needs. Groundwater takes on even more importance in the face of California's new climate reality characterized by recurrent and prolonged droughts with the possibility of a reduction of up to 10% in the State's existing water supply by 2040.

During the current 2020-2022 drought, with no end yet in sight, more than 2,000 wells went dry leaving households and communities without water. Even during the 5-year period (2017-2022) that included two wet years (2017 and 2019), the data show that groundwater levels continue to decline. The practice of resorting to pumping groundwater to offset the shortage of surface water supplies is still prevalent as we have recorded about 26,000 new domestic wells and about 14,000 irrigation wells installed in the past 8 years.

Increasing reliance and overuse of groundwater in past decades, especially during recurrent and prolonged dry periods, have resulted in critical overdraft conditions in 21 basins that cover about one-fifth of the total groundwater basin area of the state and accounts for close to two-thirds of the state's average annual groundwater use. California's \$50 billion agricultural economy is at risk. Recurrent droughts have stressed the environment of California with increasing losses and destruction of fish and wildlife habitat and lack of food and drinking water for wild animals. Groundwater quality degradation in many parts of California has put some of the state's most vulnerable populations at risk. The lowering of groundwater levels over the past decades has caused land subsidence, which has damaged and continues to impair critical infrastructure in several parts of the state. Some coastal aquifers have built safeguards, and will need more, against increased sea water intrusion from groundwater level declines and sea level rise. Stream depletions due to excessive groundwater pumping pose a serious threat to the state's goal of protection and enhancement of natural ecosystems.

Significant progress has been made by local agencies and the state towards ending these undesirable trends in groundwater after the passage of SGMA and subsequent development and implementation of the GSPs accompanied by data collection, reporting, and dissemination. Financial assistance provided by the state has accelerated our progress towards sustainability and resiliency. The technical assistance including data and tools provided by DWR and other state agencies has provided local agencies a new level of understanding, analyses, and decision making. Yet, we must acknowledge that data gaps exist, in terms of geographic coverage, frequency, and reporting lag, all of which hinder our

ability to fully understand and report the current conditions of groundwater in a timely manner. There are areas in the state where little groundwater data is available. [California's Groundwater Update 2020 Highlights](#) documented 17 recommendations to advance data-driven decision making, which will fill many of these gaps when implemented.

Governor Newsom's Water Resilience Portfolio and California's Water Supply Strategy include multiple actions and recommendations aimed at sustainable and resilient management of groundwater resources. The onus is on both the State and local agencies to collaboratively work towards implementing the provisions of SGMA and the actions and recommendations identified in California's Groundwater Update 2020 Highlights, the Governor's Water Resilience Portfolio, and California's Water Supply Strategy. It should also be noted that increasing public awareness and understanding of the critical role of groundwater in meeting the total water needs of California, as well as the current statewide groundwater conditions, are essential for the success of all state and local regulations and plans. The publication of annual and semi-annual groundwater conditions reports and the 5-year updates of the California's Groundwater (Bulletin 118) is a major step towards achieving that end.

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Stefani Phillips, Board Secretary

SUBJECT: **FUTURE FLORIN RESOURCE CONSERVATION DISTRICT BOARD MEETINGS**

RECOMMENDATION

It is recommended that the Florin Resource Conservation District Board of Directors approve future board meetings to be held in person beginning November 2022.

SUMMARY

As a result of the COVID-19 pandemic and associated state and local requirements, the Florin Resource Conservation District (FRCD) Board of Directors' (Board) meetings have been conducted by teleconference since April 21, 2020.

During the pandemic, the FRCD's new administration building was under construction for tenant improvements. The new administration building is completed and includes a Board Chambers for public board meetings. Staff moved into the new administration building in September and the new facility is ready to host public board meetings.

DISCUSSION

Background

The Board has conducted board meetings by teleconference since April 21, 2020. On September 15, 2021, the Governor passed Assembly Bill (AB) 361 extending the allowance of public board meetings to be conducted by teleconference effective October 1, 2021, through December 31, 2023. At each of the past board meetings, the Board has voted that meetings be conducted by teleconference in accordance with AB 361 until such time the Board determines meetings will continue in person.

Present Situation

At the September 20, 2022, board meeting, the Board requested that an item be agendaized for the October 18, 2022, board meeting to consider if public board meetings should resume in person. Therefore, staff is bringing this item to the board for consideration with a recommendation that the Board approve future board meetings to be held in person beginning November 2022.

October 18, 2022

FUTURE FLORIN RESOURCE CONSERVATION DISTRICT BOARD MEETINGS

Page 2

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

STRATEGIC PLAN CONFORMITY

This item conforms with Strategic Goal No. 1, Governance and Customer Engagement, of the Strategic Plan 2020-2025

FINANCIAL SUMMARY

There is no direct financial impact associated with this report.

Respectfully submitted,



STEFANI PHILLIPS
BOARD SECRETARY

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Ben Voelz, Associate Engineer

SUBJECT: **FILTER TRAIN “D” MEDIA REPLACEMENT – RAILROAD WATER TREATMENT PLANT**

RECOMMENDATION

It is recommended that the Florin Resource Conservation District Board of Directors authorize the General Manager to execute a purchase order in the amount of \$60,590.60 to Kleen Industrial Services to procure replacement filter media.

SUMMARY

The Elk Grove Water District (EGWD) solicited bids for replacement filter media as part of the approved Media Replacement – Railroad Water Treatment Plant (RRWTP) Filter Vessels project. In accordance with EGWD policy, staff solicited bids from three (3) companies. Staff received two (2) bids. Kleen Industrial Services was the lowest responsive, responsible bidder with a bid amount of \$60,590.60. The approved budget for the Media Replacement – RRWTP Filter Vessels project is \$90,000. The additional funds will be used for labor and equipment rental to install the media.

Staff recommends that the Board authorize the General Manager to execute a purchase order in the amount of \$60,590.60 to Kleen Industrial Services to procure replacement filter media.

DISCUSSION

Background

This fiscal year’s capital improvement program (CIP) includes the Media Replacement – RRWTP Filter Vessels project. This project replaces existing filter media in Filter Train “D” at the Railroad Water Treatment Plant. Per the District’s asset management program, the useful life of filter media is 10 years. The existing media has been in place since 2010. The approved budget for the Media Replacement – RRWTP Filter Vessels project is \$90,000 which includes material, labor and rental equipment to install the filter media. Labor for this project will be provided by EGWD work forces that have had the required confined space training.

FILTER TRAIN “D” MEDIA REPLACEMENT – RAILROAD WATER TREATMENT PLANT

Page 2

Present Situation

District staff is planning to replace the filter media in early 2023 when water demand is low. In accordance with the District’s Purchase of Goods and Services Policy, staff solicited bids from three (3) companies. Staff received two (2) bids. Kleen Industrial Services was lowest responsive, responsible bidder for the project with a bid of \$60,590.60. The bids are summarized below.

	<u>Company Name</u>	<u>Bid Amount</u>
1	Kleen Industrial Services	\$60,590.60
2	ERS Industrial Services, Inc.	\$106,280.00
3	Rescue Engineers, Inc.	No Bid

Staff recommends that the Board authorize the General Manager to execute a purchase order in the amount of \$60,590.60 to Kleen Industrial Services to procure replacement filter media.

ENVIRONMENTAL CONSIDERATIONS

The proposed project has been determined to be categorically exempt from environmental review under the provisions of California Environmental Quality Act (CEQA) Class 1, Section 15302 (Replacement or Reconstruction), which includes replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity. A Notice of Exemption (NOE) will be filed with the County Clerk for this project.

STRATEGIC PLAN CONFORMITY

The recommendation made in this staff report conforms to Strategic Goal 3, Planning and Operational Efficiency. Strategic Goal 3 directs EGWD to practice ongoing infrastructure renewal and organizational improvement through planning and increased operational efficiency. Implementing the projects contained in the capital improvement program meets this directive.

October 18, 2022

**FILTER TRAIN "D" MEDIA REPLACEMENT – RAILROAD WATER TREATMENT
PLANT**

Page 3

FINANCIAL SUMMARY

The financial impact of the filter media purchase for the Media Replacement – RRWTP Filter Vessels project is \$60,590.60. The funds for this project will be paid for from the approved fiscal year 2022-23 CIP reserve fund.

Respectfully submitted,



BEN VOELZ
ASSOCIATE ENGINEER

Attachment

**PURCHASE ORDER
FOR
FLORIN RESOURCE CONSERVATION DISTRICT**

Purchase Order No. 23- 025

GL# 1708-508-20-000

Seller:		Buyer:		
Name	Kleen Industrial Services	Elk Grove Water District		
Address	50 Oak Court, Suite 210	9829 Waterman Rd.		
City, State Zip	Danville, CA 94526	Elk Grove, CA 95624		
Attn:	Kelly Collins	Attn: Bruce Kamilos, General Manager		
Phone:	(925) 831-980 ext. 805 Fax:	Phone: 916.685.3556 Fax: 916.685.5376		
E-mail:	kelly@kleenblast.com	E-mail: bkamilos@egwd.org		
Project Information:		Ship To:		
Railroad WTP Filter Media Replacement.		Elk Grove Water District		
		9715 Railroad St.		
		Elk Grove, CA 95624		
		Attn: Ben Voelz		
Please forward all invoices to accounts payable@egwd.org				
Order Date	Delivery Date	Ship Via	FOB	Payment Terms
10/11/2022	per contract terms			Net 30 days of invoice

Buyer and Seller agree as follows:

MATERIAL, EQUIPMENT AND/OR SERVICES TO BE PROVIDED: Seller shall furnish the material, equipment and/or services described below which is incorporated into and made part of this Purchase Order. In the event of any conflict between the language in this Purchase Order and the language in the Professional Services Agreement or Construction Contract, the language in the Professional Services Agreement or Construction Contract shall prevail over the language in this Purchase Order.

Description Item No.	Estimated Quantity	Unit Price	Ext. Price	Delivery Date
Railroad WTP Filter Media Replacement as per attached quote dated 10/11/2022.	Various	\$56,516.20	\$56,516.20	
Net Order:			\$56,516.20	
Sales Tax:			\$4,074.40	
Total			\$60,590.60	

[Attach Additional Sheets if necessary]

Buyer:

**By: Bruce Kamilos
Title: General Manager**

DocuSigned by:

05A070A521D246E...

DocuSigned by:

AF8971F0352F4FF...

**By: Kelly Collins
Title: Sales**

PURCHASE ORDER TERMS AND CONDITIONS

ARTICLE 1. DEFINITIONS: The Term "Buyer" as used in this PO means the FLORIN RESOURCE CONSERVATION DISTRICT, and the term "Seller" means the person, firm, or corporation from whom the commodity of service described in the PO it ordered. The term "Material, Equipment, and/or Services" includes materials, supplies, equipment, drawings, data and other property to be furnished and all services including design, delivery, installation, inspection, and testing specified or required to furnish any material, equipment, and/or services.

ARTICLE 2. ACCEPTANCE OF THE PO: The attached Acceptance Copy shall be signed and returned by the Seller within ten (10) calendar days after it is received by the Seller. The receipt by the Buyer of the signed Acceptance Copy or the initiation of performance under this PO by the Seller shall constitute acceptance of the PO by the Seller, including all of the terms and conditions herein. Acceptance is limited to the terms stated herein. Any additional or different terms and conditions proposed by the Seller are rejected unless expressly agreed to in writing by an authorized representative of the Buyer's Purchasing Department.

ARTICLE 3. COMPLETE AGREEMENT: This PO, including all applicable terms, conditions and specifications, shall constitute the sole and exclusive agreement between the parties. This PO supersedes all other writings and negotiations written or oral. Buyer will not be responsible for goods delivered or services rendered without a PO properly signed by the Buyer Purchasing Agent or authorized agent. When this PO covers a continuing service rendered over a stated period of time, Seller must obtain a new order upon expiration of the time period to authorize the continuance of the service for an additional period of time.

ARTICLE 4. DEFAULT: The Buyer may terminate the whole or any part of Seller's work in any one of the following circumstances: (1) If the Seller fails to make delivery or fails to perform within the time specified herein or any authorized extension thereof; or (2) If Seller delivers nonconforming goods; or (3) If Seller fails to perform in accordance with the material provisions of this PO, or so fails to make progress as to endanger performance of this PO in accordance with its terms. In the event of any such failure Buyer will provide Seller with written notice of the default and Buyer's intention to terminate for default if Seller fails to cure the default to Buyer's satisfaction within seven calendar days of Buyer's notice. If Seller fails to cure or correct the default to Buyer's satisfaction within seven days, Buyer may, without further notice to Seller, procure upon such terms and in such manner as the Buyer may deem appropriate, items similar to those terminated, and the Seller shall be liable to the Buyer for any excess costs of such similar items; however, the Seller shall continue the performance of this PO to the extent not terminated. The rights and remedies of the Buyer provided in this clause shall not be exclusive, and are in addition to any other rights and remedies provided by law or under this PO.

ARTICLE 5. CHANGES: Buyer may direct in writing changes, including additions to or deletions from the quantities originally ordered, or in the specifications or drawings. If any such change causes a material increase or decrease in the cost of, or the time required for, performance hereunder, an equitable adjustment shall be made in the price or schedule. Any claims for adjustment which Seller believes result from any change directed by Buyer shall be asserted in writing by Seller no later than ten (10) days from the date of Seller's receipt of any such direction. Equitable adjustments for any claims or changes under this agreement, including claims arising from terminations or suspensions directed under DEFAULT above, of this agreement, will be made by written Change Order. Nothing contained herein shall excuse Seller from proceeding with the change as directed prior to negotiation of any adjustment. Whether made pursuant to this clause or by mutual agreement, changes shall not be binding upon the Buyer, except when

confirmed in writing by a member of the Buyer's Purchasing Department.

ARTICLE 6. INVOICES: Unless otherwise specified in the PO, Seller shall send Buyer a single invoice upon completion of performance. Payment shall not be made prior to receipt and acceptance of items and an invoice.

ARTICLE 7. PROVISIONS REQUIRED BY LAW DEEMED

INSERTED: Each and every provision of law and clause required by law to be inserted in this contract shall be deemed to be inserted herein and the contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provisions is not inserted, or is not correctly inserted then upon application of either party the contract shall forthwith be physically amended to make such insertion or correct.

ARTICLE 8. RIGHT TO AUDIT: Buyer reserves the right to access and audit the Seller's records for a period of four (4) years after payment of any invoice.

ARTICLE 9. TITLE AND RISK OF LOSS: All prices shall be F.O.B. Destination. The Seller shall be responsible for safe and adequate packing of the items, which shall conform to the carriers' requirements. The Seller shall separately number all cases and packages, showing the corresponding numbers on the invoices. An itemized packing slip bearing this PO number shall be placed in each container. No extra charge shall be made for packaging or packing materials unless authority therefor is set forth in this PO. Seller shall assume and pay for any and all loss or damage to the merchandise from any cause whatsoever until delivered to Buyer at the specified destination.

ARTICLE 10. DELIVERY: Timely performance and deliveries are essential to this PO. The Buyer reserves the right to refuse deliveries made in advance of the delivery schedule. Over shipment allowances, if authorized, will be applied to the entire order. If the Buyer agrees to accept deliveries after the date of delivery has passed, the Buyer shall have the right to direct the Seller to make shipment to the delivery point set forth in this PO by the most expeditious means, and the total cost of such expedited shipment and handling shall be borne by the Seller. Acceptance of late deliveries shall not be deemed a waiver of the Buyer's right to hold the Seller liable for any loss or damage resulting therefrom, nor shall it act as a modification of the Seller's obligation to make future deliveries in accordance with the delivery schedule.

ARTICLE 11. DELAYS: Seller will not be liable for delays in performing its obligations to the extent the delay is caused by an unforeseeable condition which is beyond Seller's reasonable control and without Seller's fault or negligence. Acts of God, such as storms or floods, as well as government priorities, acts of civil or military authorities, fires, strikes, epidemics, war or riot are examples of events which will be excusable for being beyond Seller's reasonable control, only upon fulfillment of the following conditions: (a) within seven (7) days of the commencement of any excusable delay, Seller shall provide Buyer with written notice of the cause and extent thereof as well as a request for a schedule extension for the estimated duration thereof, and (b) within seven (7) days of the cessation of the event causing delay Seller shall provide Buyer with written notice of the actual delay incurred, upon receipt of which, the date of promised delivery shall be extended for the time actually lost by reason of an excusable delay.

ARTICLE 12. INSPECTION AND APPROVAL: All items are subject to final inspection and approval after delivery to Buyer. If any items are defective in material or workmanship or otherwise not in conformity with the requirements of this PO, the Buyer shall have the right to require Seller to correct or replace them. Final acceptance or rejection shall be made by the Buyer as promptly as practicable after delivery. Final acceptance shall be conclusive except with respect to latent defects,

fraud or such gross mistakes as amount to fraud, or with respect to the Buyer's rights under the "Warranty" clause.

ARTICLE 13. WARRANTIES-GUARANTEES: The Seller warrants that the items, at time of delivery, shall conform to the Buyer's specifications, the requirements of this PO, approved sample or samples, if any, and are free from defects in design, material and workmanship. Unless otherwise specified in the PO, this warranty shall remain in effect for a one (1) year period after delivery or for such period of time as the item is normally warranted. At the Buyer's option, the Seller shall promptly either repair or replace defective items after receipt of the Buyer's written notice of a defect. Transportation charges for the return and redelivery of defective items shall be borne by the Seller. Seller also warrants that said merchandise is free and clear of all liens and encumbrances whatsoever and the Seller has good and marketable title to same, and Seller agrees to indemnify, defend and hold the Buyer, its officers, agents and employees free and harmless against any and all claimants to said merchandise.

ARTICLE 14. COMPLIANCE WITH ALL APPLICABLE LAWS: Seller's performance shall in all ways strictly conform with all applicable State, Federal and local laws, regulations, safety orders, and working conditions to which it is subject including, but not limited to, safety rules and regulations prevailing wages under the California Labor Code. Seller shall execute and deliver any and all documents as may be required to effect or evidence compliance.

ARTICLE 15. EQUAL OPPORTUNITY EMPLOYER: It is the policy of Buyer that in connection with all materials furnished or work performed under this PO, there be no discrimination against employees because of race, religion, color, sex or national origin, and therefore the Seller agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment Practices Act.

ARTICLE 16. PERMITS OR LICENSES: Seller and all of its employees or agents shall secure and maintain in force such licenses and permits as are required by law, and by the City, in connection with the furnishing of Material, Equipment, and/or Services herein requested.

ARTICLE 17. INDEMNITY: Seller assumes all risk in connection with performance or non-performance of this PO. Seller shall indemnify, defend, and hold harmless Buyer and its elected officials, officers and employees, from all liabilities, obligations, orders, claims, actual damages, governmental fines or penalties, and expenses of defense with respect to such claims (including attorneys' fees and costs) of any kind or nature which may be caused by or arise from furnishing the Material, Equipment, and/or Services, whether such activities or performance thereof be by Seller or by anyone directly or indirectly employed or contracted with by Seller, and whether such liabilities, obligations, orders, claims, actual damages, governmental fines or penalties, and expenses of defense with respect to such claims (including attorneys' fees and costs) shall accrue or be discovered before or after termination of this agreement.

ARTICLE 18. TAXES: Unless prohibited by law, Seller shall pay and has included in the prices of this PO any federal, state or local tax, transportation tax, or other tax which is required to be imposed upon the items ordered hereunder, or by reason of their sale or delivery.

ARTICLE 19. TERMINATION FOR CONVENIENCE: Buyer shall have the right to terminate this PO in whole or in part at any time, and from time to time, by written or telegraphic notice effective upon receipt by Seller of such notice, even though Seller is not in breach of any obligation hereunder. Upon receipt of notice of termination, Seller shall immediately discontinue performance and shall comply with Buyer's instructions concerning disposition of completed and partially completed items, work in progress and materials acquired pursuant to this PO. Upon termination, Contractor shall be compensated only for those services or goods which have been adequately rendered and delivered to the District through the effective date of such termination. Contractor shall be entitled to no further compensation. However, said payment shall not exceed the price specified herein for such items. Seller shall advise the Buyer, in writing, of Seller's claim, if any, for termination costs within ten (10) days after receipt of the notice of termination. Termination in accordance with this article shall not affect Buyer's obligation to pay for items accepted by Buyer prior to such termination.

ARTICLE 20. GOVERNING LAW; VENUE; DEFINITIONS: The definition of terms used, interpretation of this PO and rights of all parties hereunder shall be construed under and governed by the laws of the State of California. Any litigation with respect to this PO shall be brought and conducted in Sacramento County, California.

ARTICLE 21. EXCUSE; WAIVER: Any act or omission of Buyer which Seller might claim as an excuse for its own failure to perform shall be deemed waived by Seller unless it shall notify Buyer of its intention to assert such excuse within ten (10) days after the occurrence of any such act or omission. No action or failure to act by Buyer shall constitute a waiver of a right or duty afforded it under this PO, nor shall such action or failure to act constitute approval of or acquiescence in a breach, except as may be specifically agreed in writing. Seller expressly waives the effect of any statutory or common law provision which construes ambiguities in a contract against the party who drafted the contract.

ARTICLE 22. INSURANCE: If Seller or its employees or agents come onto Buyer's property in connection with this Purchase Order, Seller agrees to carry (i) Workers Compensation Insurance as required by law and Employer's Liability Insurance in the amount of \$1,000,000 per occurrence; (ii) Commercial General Liability Insurance covering personal injuries (including death) in the amount of \$1,000,000 per occurrence, \$ 2 million aggregate, and (iii) automobile liability insurance covering bodily injuries (including death) in the amount of \$1,000,000 per person, and \$1,000,000 per occurrence, property damage in the amount of \$1,000,000. Buyer shall be named as an "Additional Insured" by endorsement under the Commercial General Liability and Automobile Liability policies. The policy shall stipulate that the insurance afforded the Additional Insured shall apply as primary insurance and that any other insurance carried by Buyer will be excess only and will not contribute with this insurance. Seller shall submit written proof of such insurance to Buyer prior to entrance on Buyer's property. Seller shall supply such bonds as required by Buyer.

THIS CONCLUDES THE TERMS AND CONDITIONS DATED 10/11/2022 consisting of Article 1 through Article 22

Quote

KLEEN INDUSTRIAL SERVICES
50 OAK COURT, SUITE 210
DANVILLE, CA. 94526
(925) 831-9802

Order Number: 0025633
Order Date: 10/11/2022

Salesperson: FON
Customer Number: 00-ELK

Sold To:

ELK GROVE WATER DISTRICT
9257 Elk Grove Blvd
Elk Grove, CA 95624-2101

Confirm To:

Ben Voelz (916)-585-9392

Ship To:

ELK GROVE WATER DISTRICT
9721 Railroad St.
Elk Grove, CA 95624-2101

Customer P.O.	Ship VIA	F.O.B.	Terms			
Filter Media Quote - Elk Grove			NET 30			
Item Code	Unit	Ordered	Shipped	Back Order	Price	Amount
PRICES GOOD FOR 30 DAYS FROM DATE OF QUOTE - MEDIA PRICED PER TON OUR PRICES INCLUDE BAGS / SUPER SACKS AND STANDARD PALLETS						
8AFM	EACH	5.75	0.00	0.00	891.00	5,123.25
0.80-1.05mm ANTHRACITE Whse: 001 QTY. (230) X 50LB. BAGS = 11,500LBS. / 5.75 TONS / 230 CU FT (5 FULL PALLETS, 46 BAGS PER PALLET)						
8SFM	EACH	20.00	0.00	0.00	2,223.00	44,460.00
0.3-0.35mm GREENSAND PLUS Whse: 001 QTY. (800) X 50LB. BAGS = 40,000LBS / 20 TONS / 454.54 CU FT (16 FULL PALLETS, 50 BAGS PER PALLET)						
8SFM	EACH	4.20	0.00	0.00	340.22	1,428.92
#6 X #12 SILICA SAND Whse: 001 QTY. (168) X 50LB. BAGS = 8,400LBS / 4.2 TONS / 84 CU FT (3 FULL PALLETS, 56 BAGS PER PALLET)						
8VFM	EACH	6.25	0.00	0.00	249.70	1,560.63
1/4 X 1/8 GRAVEL Whse: 001 QTY. (250) X 50LB. BAGS = 12,500LBS / 6.25 TONS / 125 CU FT (5 FULL PALLETS, 50 BAGS PER PALLET)						
6TRK	EACH	36.20	0.00	0.00	2.00	72.40
ENVIRONMENTAL FEES Whse: 001						
6TRK	EACH	2.00	0.00	0.00	1,523.00	3,046.00
FREIGHT FEES Whse: 001 FOB RANCHO CUCAMONGA, CA. (FREIGHT FOR ANTHRACITE & GREENSAND PLUS, ESTIMATED 2 LOADS)						
6TRK	EACH	1.00	0.00	0.00	825.00	825.00
FREIGHT FEES Whse: 001 FOB MARYSVILLE, CA. (FREIGHT FOR #6 X #12 SILICA SAND & 1/8 X 1/4 GRAVEL)						

Please see Terms and Conditions of Sale at:

https://www.kleenindustrialservices.com/pdf/160616-02_KIS_Terms_Conditions_of_Sale.pdf

Net Order:	56,516.20
Less Discount:	0.00
Freight:	0.00
Sales Tax:	4,074.40
Order Total:	60,590.60

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District
FROM: Travis Franklin, Program Manager
SUBJECT: **LEGISLATIVE MATTERS AND POTENTIAL DIRECTION TO STAFF**

RECOMMENDATION

This item is presented as information although the Florin Resource Conservation District Board of Directors may provide an action to authorize staff to respond to a legislative item.

SUMMARY

There are several bills that have been introduced in the 2022 legislative session that could potentially impact the Florin Resource Conservation District/Elk Grove Water District (District) if passed. These bills are highlighted below.

DISCUSSION

Background

The Florin Resource Conservation District (FRCD) Board of Directors (Board) is periodically updated on legislative and regulatory issues.

Present Situation

The 2022 legislative session ended on August 30th and the Governor was required to sign bills by September 30th for them to become law.

The following bills we tracked were signed by the Governor prior to the deadline.

AB 1902 (Aguiar-Curry D) Resource conservation: resource conservation districts.

Existing law establishes the Department of Conservation and requires it to provide soil conservation advisory services to local governments, landowners, farmers and ranchers, resource conservation districts, and the general public, as provided. This bill will delete this provision. This bill was sponsored by the California Association of Resource Conservation Districts.

LEGISLATIVE MATTERS AND POTENTIAL DIRECTION TO STAFF

Page 2

AB 2449 (Rubio, Blanca D) Open meetings: local agencies: teleconferences.

This bill revises and recasts teleconferencing provisions of the Brown Act until January 1, 2026. Will authorize a local agency to use teleconferencing without complying with the teleconferencing requirements that each teleconference location be identified in the notice and agenda and that each teleconference location be accessible to the public if at least a quorum of the members of the legislative body participates in person from a singular physical location clearly identified on the agenda that is open to the public and situated within the local agency's jurisdiction.

SB 1157 (Hertzberg D) Urban water use objectives: indoor residential water use.

This bill will lower the existing indoor gallons per capita daily (GPCD) water use efficiency standard to 47 GPCD beginning January 1, 2025. (Existing law is 52.5 GPCD.) Beginning January 1, 2030, the indoor standard would be 42 GPCD. (Existing law is 50 GPCD). This bill was amended before signing to require the Department of Water Resources to conduct necessary studies and investigations to assess and quantify the economic benefits and impacts of meeting the 2030 indoor residential use standard of water, wastewater, and recycled water systems. Based on the conclusions of the studies and investigations, the Department of Water Resources shall consider whether to recommend additional variances to accommodate unique challenges related to residential indoor water use.

The following bill we tracked was vetoed by the Governor prior to the deadline.

SB 222 (Dodd D) Water Rate Assistance Program

This bill would have established the Water Rate Assistance Fund in the State Treasury to help provide water affordability assistance, for both drinking water and wastewater services, to low-income residential ratepayers. The bill would have made moneys in the fund available upon appropriation by the Legislature to the state board to provide, in consultation with relevant agencies, direct water bill assistance, water bill assistance to residential ratepayers served by eligible systems, as defined, and by tribal water systems that choose to participate and would have required 80% of total funds to be directly applied to customer assistance.

The Governor vetoed this bill stating, "...this bill does not have any funding identified, and because it is an ongoing program that would require all community water systems and wastewater systems to participate, signing this policy would result in significant General Fund pressures in the billions of dollars to continuously provide such assistance."

LEGISLATIVE MATTERS AND POTENTIAL DIRECTION TO STAFF

Page 3

Staff will continue to monitor legislative matters which may affect District operations.

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

STRATEGIC PLAN CONFORMITY

Tracking active legislation complies with the District's Water Industry Leadership goals of the 2020-2025 Strategic Plan.

FINANCIAL SUMMARY

There is no direct financial impact associated with this report.

Respectfully submitted,



TRAVIS FRANKLIN
PROGRAM MANAGER

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District

FROM: Bruce Kamilos, General Manager

SUBJECT: **GENERAL MANAGER'S REPORT**

RECOMMENDATION

This item is presented to the Florin Resource Conservation District Board of Directors for information, discussion, and in some instances, to provide direction to staff.

SUMMARY

The General Manager's Report is a standing item on the regular board meeting agenda. The report is intended to inform the Florin Resource Conservation District/Elk Grove Water District (District) Board of Directors (Board) of notable, miscellaneous items the General Manager would like to share with the Board. The report also provides an opportunity for the Board to discuss the items, and in some instances provide direction to staff.

DISCUSSION

Background

Each month, the General Manager provides a report to the Board of any notable, miscellaneous items.

Present Situation

- **Exceptional Customer Service Program Update** – Staff will provide an update on the Exceptional Customer Service Program, a key objective for Fiscal Year 2022-23.
- **Cybersecurity Audit** – Staff plans to provide a briefing in closed session at the November board meeting to update the Board on the status of action items recommended in the Cybersecurity Audit.
- **Giant Pumpkin Festival** – Staff will provide a recap of the District's participation in the Giant Pumpkin Festival.

GENERAL MANAGER'S REPORT

Page 2

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

STRATEGIC PLAN CONFORMITY

This item conforms to the FRCD/EGWD 2020-2025 Strategic Plan. Due to the varied subject matters presented in the General Manager's Report, the report over time will likely touch on every strategic goal contained in the plan.

FINANCIAL SUMMARY

There is no financial impact associated with this report.

Respectfully submitted,



BRUCE KAMILOS
GENERAL MANAGER

October 18, 2022

TO: Chair and Directors of the Florin Resource Conservation District
FROM: Bruce Kamilos, General Manager
SUBJECT: **ELK GROVE WATER DISTRICT OPERATIONS REPORT – SEPTEMBER 2022**

RECOMMENDATION

This item is presented for information only. No action by the Florin Resource Conservation District Board of Directors is proposed at this time.

SUMMARY

The Elk Grove Water District (EGWD) Operations Report is a standing item on the regular board meeting agenda.

All regulatory requirements were met for the month of September. Other notable events are described below.

DISCUSSION

Background

Every month, staff presents an update of the activities related to the operations of the EGWD. Included for the Florin Resource Conservation District Board of Director's review is the EGWD's September 2022 Operations Report.

Present Situation

The EGWD September 2022 Operations Report highlights are as follows:

- **Operations Activities Summary** – 446 door hangers were placed for past due balances, which resulted in 73 shut offs. We received three (3) water pressure complaints and four (4) water quality complaints.
- **Production** – The Combined Total Service Area 1 production graph on page 13 shows that production during the month of September decreased 6.04 percent compared to September 2021 and is 6.76 percent less than what was produced in 2020. Year 2020 is the new baseline year the State Water Resources Control Board adopted for water usage. The Total Demand/Production for both service

ELK GROVE WATER DISTRICT OPERATIONS REPORT – SEPTEMBER 2022

Page 2

areas on page 14 shows that customer use during the month of September compared to 2020 was down by 8.12 percent.

- **Static and Pumping Level Graphs** – The third quarter soundings are shown and indicate that the static water levels are stable compared to the third quarter of 2021.
- **Treatment (Compliance Reporting)** – All samples taken during the month comply with all regulatory permit requirements. No exceedances of any maximum contaminant levels were found, and all water supplied to EGWD’s customers met or exceeded safe drinking water standards.
- **Corrective Maintenance Program** – The tables included in this section of the report also include certain activities completed to date. Below is a list of out-of-ordinary maintenance work completed in September:
 - Staff repaired an issue with the air conditioner on the variable frequency drive at Well 4D.
 - Staff investigated Filter 7 at the Railroad Water Plant to determine if weld repairs are needed on the inlet distributor assembly.
 - Staff identified a failure with the submersible pump motor at Well 8.
- **Safety Meetings/Training** – Two (2) safety training sessions were conducted for the month which is compliant with OSHA standards.
- **Service and Main Leaks Map** – There were three (3) service line leaks and two (2) main line leaks during September.
- **System Pressures** – Pressures in Service Area 1 generally remained stable during the month of September. Pressures in Service Area 2, which are controlled by Sacramento County Water Agency, were also stable as compared to the previous month.

ENVIRONMENTAL CONSIDERATIONS

There are no direct environmental considerations associated with this report.

October 18, 2022

ELK GROVE WATER DISTRICT OPERATIONS REPORT – SEPTEMBER 2022

Page 3

STRATEGIC PLAN CONFORMITY

This item conforms to the FRCD/EGWD 2020-2025 Strategic Plan. The EGWD Operations Report provides an ongoing review of EGWD's operations, and therefore, conforms with Strategic Goal No. 1, Governance and Customer Engagement.

FINANCIAL SUMMARY

There is no financial impact associated with this report.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "B. M. Kamilos".

BRUCE KAMILOS
GENERAL MANAGER

BMK/ac

Attachment

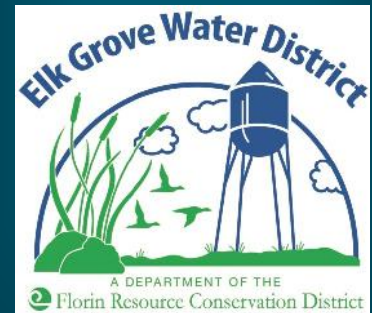
EGWD

OPERATIONS REPORT

September 2022



Elk
Grove
Water
District



Elk Grove Water District
Operations Report
Table of Contents

1. Operations Activities Summary	3
a. Door Hangers and Shut Off Tags	4
2. Production	
a. Active Well Sites & Intertie Connections Map	5
b. Monthly Production Graphs	
i. Well 1D School Street	6
ii. Well 4D Webb Street	7
iii. Well 11D Dino	8
iv. Well 14D Railroad	9
v. Well 8 Williamson	10
vi. Well 9 Polhemus	11
vii. Well 13 Hampton	12
c. Combined Total Production	13
d. Total Demand/Production	14
e. EGWD Water Usage	15
f. EGWD Combined R-GPCD	16
3. Static and Pumping Level Graphs	
a. Well 1D School Street	17
b. Well 4D Webb Street	18
c. Well 11D Dino	19
d. Well 14D Railroad	20
e. Well 8 Williamson	21
f. Well 9 Polhemus	22
g. Well 13 Hampton	23
4. Historic Static Well Levels	24-26
5. Regulatory Compliance	
a. Monthly Water Sample Report	27-31
b. Wastewater Discharge Compliance Report Form	32-36
c. Monthly Summary of Distribution System Coliform Monitoring	37-39
d. Monthly Summary of the Hampton Groundwater Treatment Plant	40-41
e. Monthly Fluoridation Monitoring Report	42-43
f. Quarterly Report for Disinfectant Residuals Compliance Monitoring	44-46
g. Quarterly Summary of Raw Groundwater Coliform Monitoring	47-48
h. Quarterly TTHM And HAA5 Report for Disinfection Byproducts Compliance	49-51
6. Preventative Maintenance Program	
a. Ground Water Wells	52
b. Railroad Water Treatment and Storage Facility	53
c. Hampton Village Water Treatment Plant	54
d. Standby Generators	55
7. Safety Meetings/Training	56
8. Service and Main Leaks Map	57
9. Sample Station Areas Map	58

Operations Activities Summary

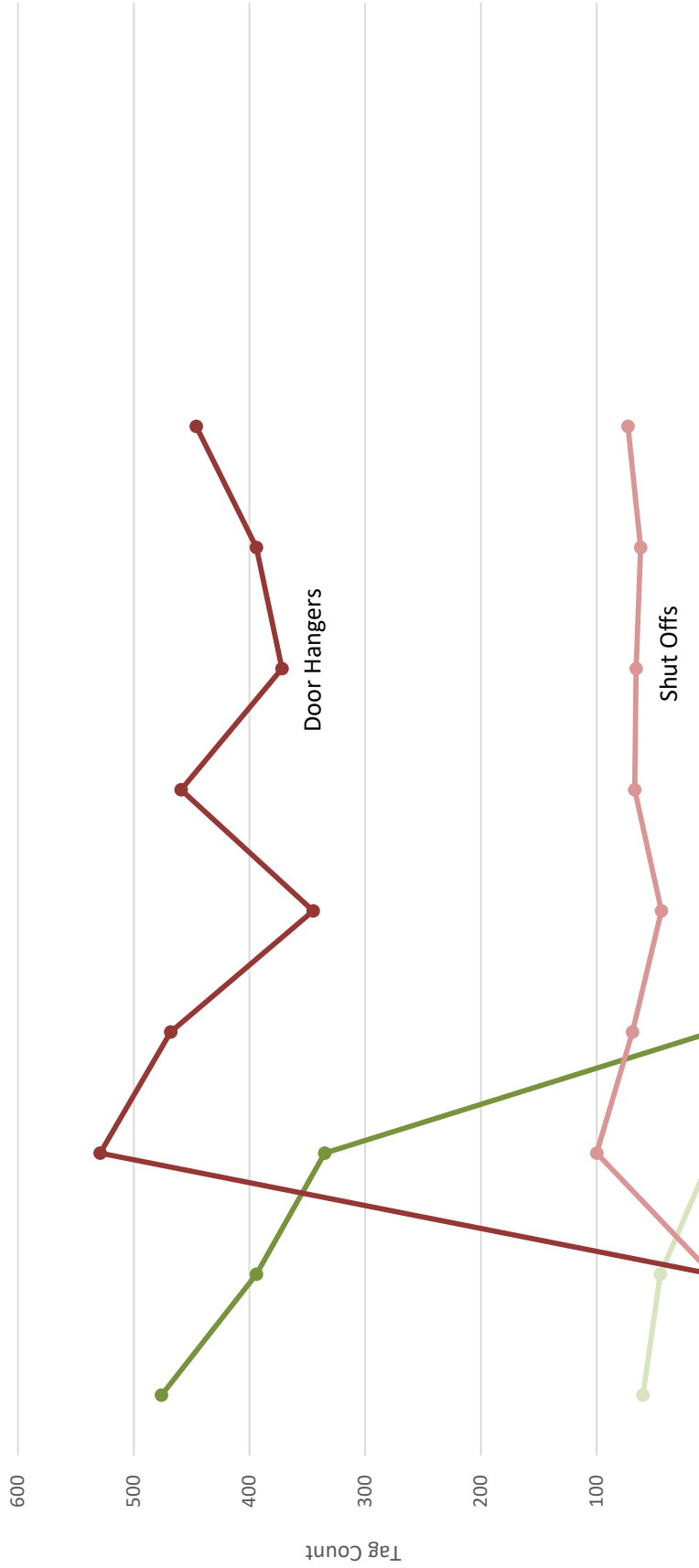
<u>Service Requests:</u>	September -22		YTD (Since Jan. 1, 2022)	
<u>Department</u>	<u>Service Request</u>	<u>Hours</u>	<u>Service Request</u>	<u>Hours</u>
Distribution				
Door Hangers	446	8	3,013	112.6
Shut offs	73	7.75	481	93
Turn ons	67	9.5	440	97.5
Investigations	37	9.25	387	96.75
USA Locates	448	112	3,887	971.75
Customer Complaints				
-Pressure	3	1.5	12	6
-Water Quality	4	2	10	5
-Other	0	0	0	0

<u>Work Orders:</u>	September -22		YTD (Since Jan. 1, 2022)	
<u>Department</u>	<u>Work Orders</u>	<u>Hours</u>	<u>Work Orders</u>	<u>Hours</u>
Treatment:				
Preventative Maint.	17	26.5	146	451.5
Corrective Maint.	6	26	47	420.5
Water Samples	13	44.5	147	458
Distribution:				
Meters Installed	0	0	14	6.3
Meter Change Out	18	10.25	204	109.5
Preventative Maint.				
-Hydrant Maintenance (45)	48	5	327	58
-Valve Exercising (127)	129	27.75	842	168.25
-Other	0	0	0	0
Corrective Maint.				
-Leaks	5	51.5	48	625.7
-Other	15	72.75	145	489.25
Valve Locates	0	0	0	0
Utility:				
Corrective Maint.	0	0	0	0

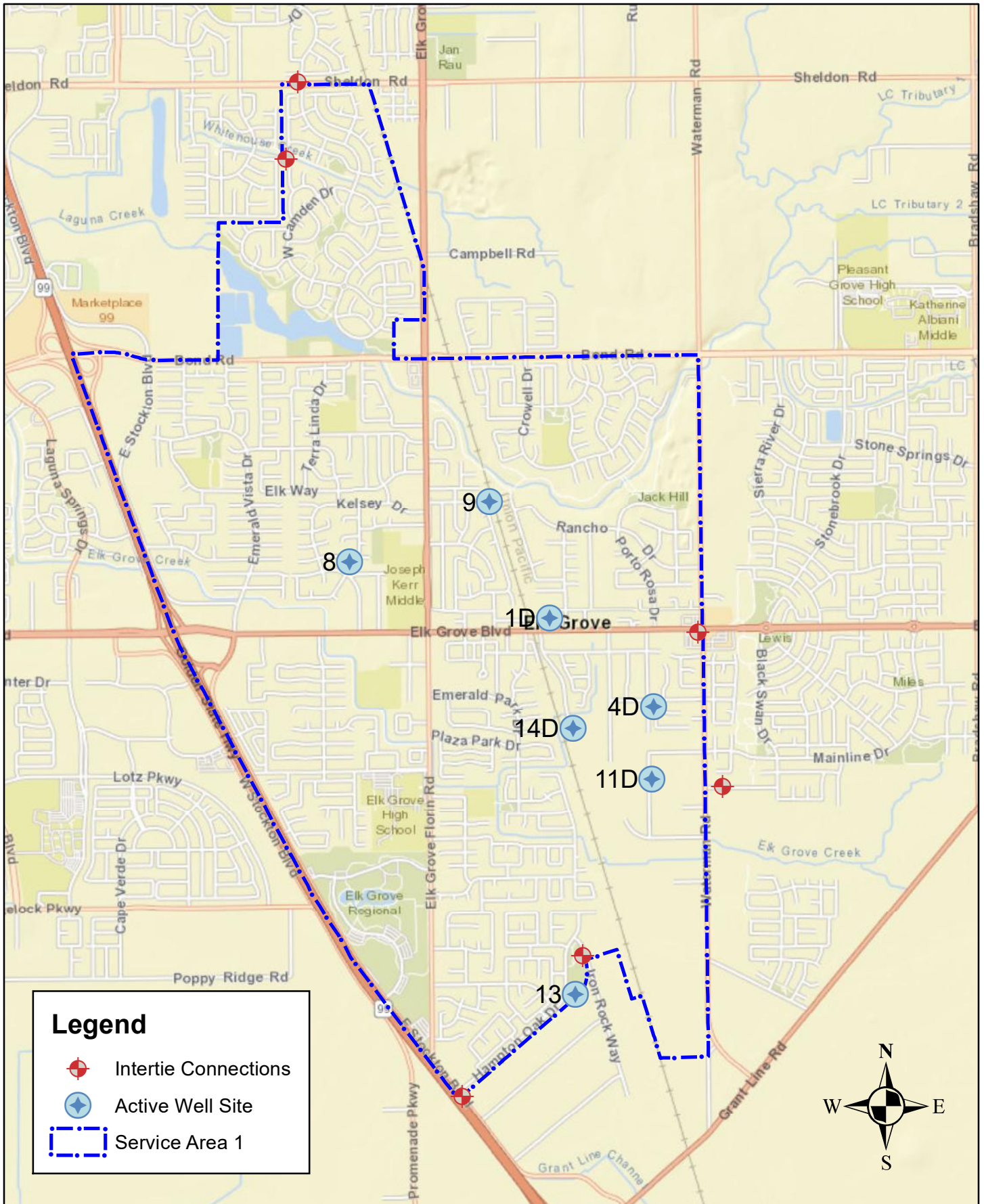


Elk Grove Water District

Door Hangers and Shut Off Tags



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2020 Door Hangers	476	394	335	0	0	0	0	0	0	0	0	0
2020 Shut Offs	60	45	0	0	0	0	0	0	0	0	0	0
2021 Door Hangers	0	0	0	0	0	0	0	0	0	0	0	0
2021 Shut Offs	0	0	0	0	0	0	0	0	0	0	0	0
2022 Door Hangers	0	0	529	468	345	459	372	394	446			
2022 Shut Offs	0	0	100	69	44	67	66	62	73			



Active Well Sites & Intertie Connections

Elk Grove Water District



Elk Grove Water District

Monthly Production

Well ID School -- September 2022

Selected Month Production
101,845 Gallons

Average GPM: 1,697
Pump depth: 275 ft
Well depth: 1025 ft

Motor:

Volts: 468
Volts (Rated): 460
RPM: 1790
RPM (Rated): 2115
Amps A: 181
Amps A (Rated): 222
Amps B: 178
Amps B (Rated): 222
Amps C: 175
Amps C (Rated): 222

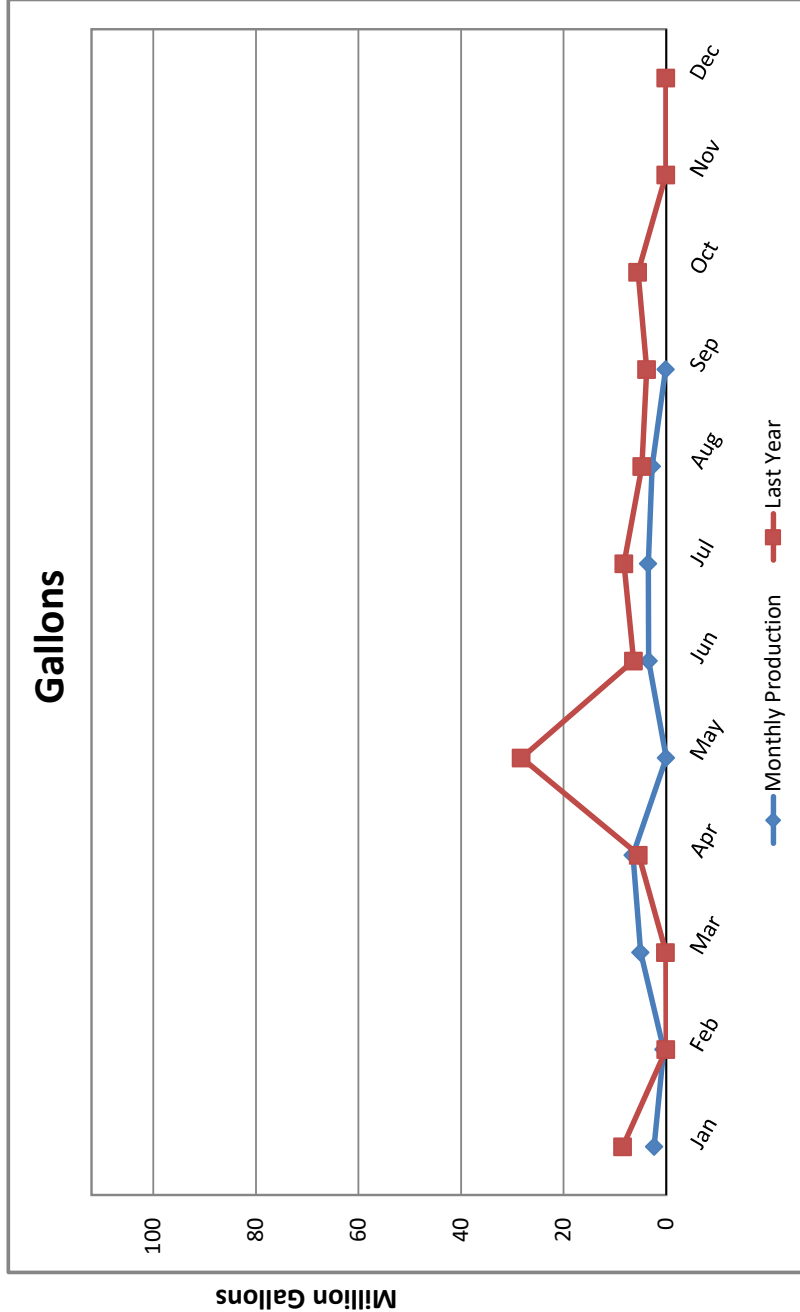
Motor Temp: 91 F
Hour Meter: 1.00
KW Hour Total: 640

Chlorine:

Dosing: 1.77 mg/L
Demand: 0.82 mg/L
Residual: 0.95 mg/L

Vibration Reading:

Base Line: 0.05 in/sec
Current: 0.03 in/sec





Elk Grove Water District

Monthly Production

Well 4D Webb -- September 2022

Selected Month Production
40,364,699 Gallons

Average GPM: 1732
Pump depth: 340 ft
Well depth: 1075 ft

Motor:

Volts: 473
Volts (Rated): 460
RPM: 1732
RPM (Rated): 1775
Amps A: 208
Amps A (Rated): 225
Amps B: 206
Amps B (Rated): 225
Amps C: 206
Amps C (Rated): 225

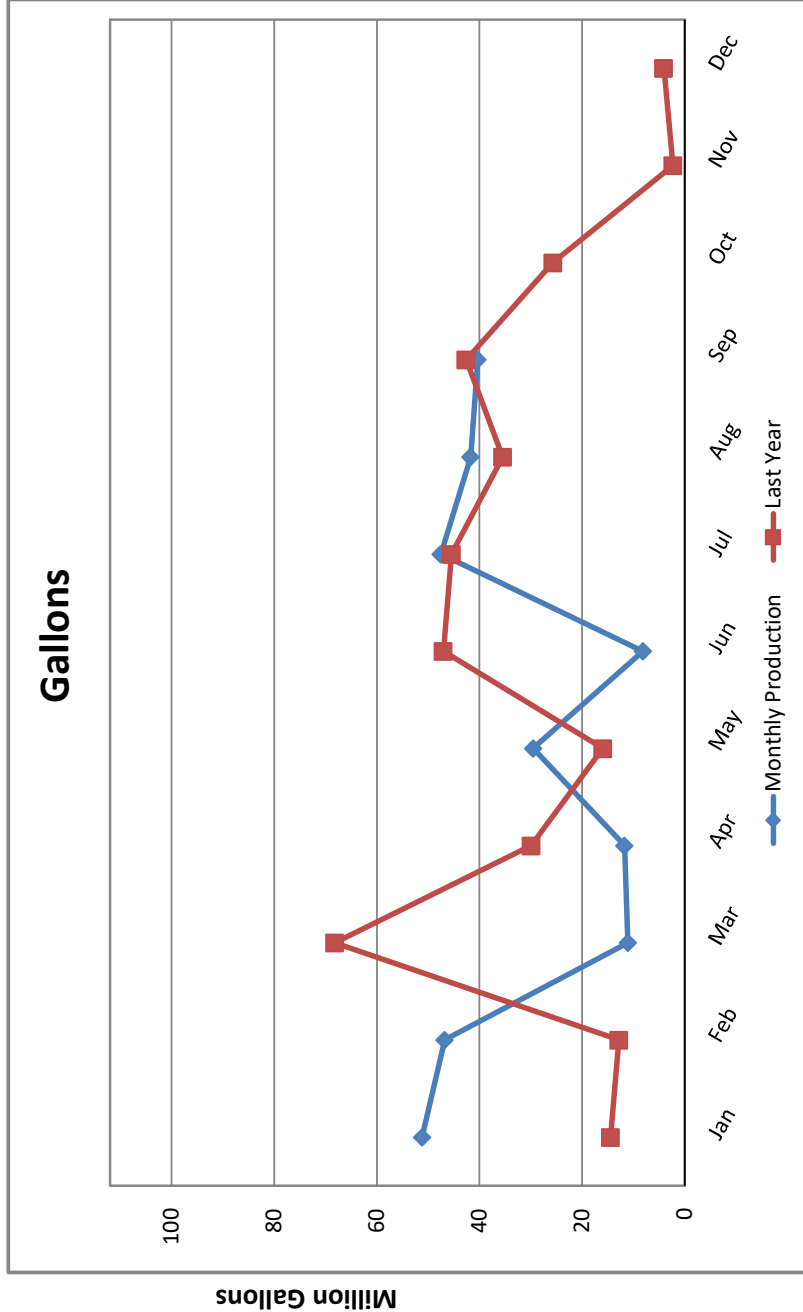
Motor Temp: 165.3 F
Hour Meter: 388.40
KW Hour Total: 60,900

Chlorine:

Dosing: 1.64 mg/L
Demand: 0.68 mg/L
Residual: 0.96 mg/L

Vibration Reading:

Base Line: 0.05 in/sec
Current: 0.01 in/sec





Elk Grove Water District

Monthly Production

Well 11D Dino -- September 2022

Selected Month Production
59,984,075 Gallons

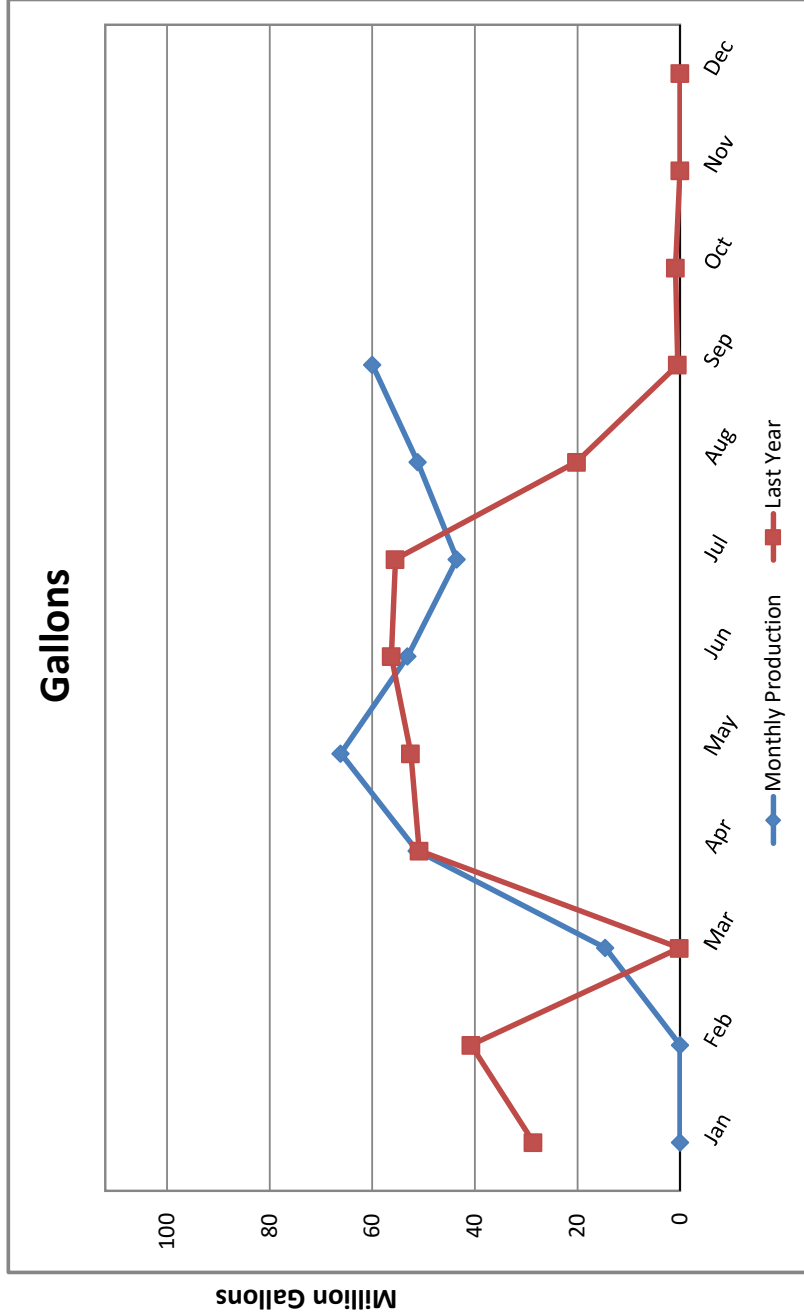
Average GPM: 1742
Pump depth: 340 ft
Well depth: 1038 ft

Motor:
Volts: 478
Volts (Rated): 460
RPM: 1715
RPM (Rated): 1775
Amps A: 208
Amps A (Rated): 225
Amps B: 202
Amps B (Rated): 225
Amps C: 195
Amps C (Rated): 225

Motor Temp: 143.7 F
Hour Meter: 573.80
KW Hour Total: 85,680

Chlorine:
Dosing: 1.63 mg/L
Demand: 0.61 mg/L
Residual: 1.02 mg/L

Vibration Reading:
Base Line: 0.05 in/sec
Current: 0.01 in/sec





Elk Grove Water District

Monthly Production

Well 14D Railroad -- September 2022

Selected Month Production
5,835,433 Gallons

Average GPM: 1356
Pump depth: 340 ft
Well depth: 1051 ft

Motor:

Volts: 475
Volts (Rated): 460
RPM: 1786
RPM (Rated): 1785
Amps A: 165
Amps A (Rated): 171
Amps B: 163
Amps B (Rated): 171
Amps C: 163
Amps C (Rated): 171

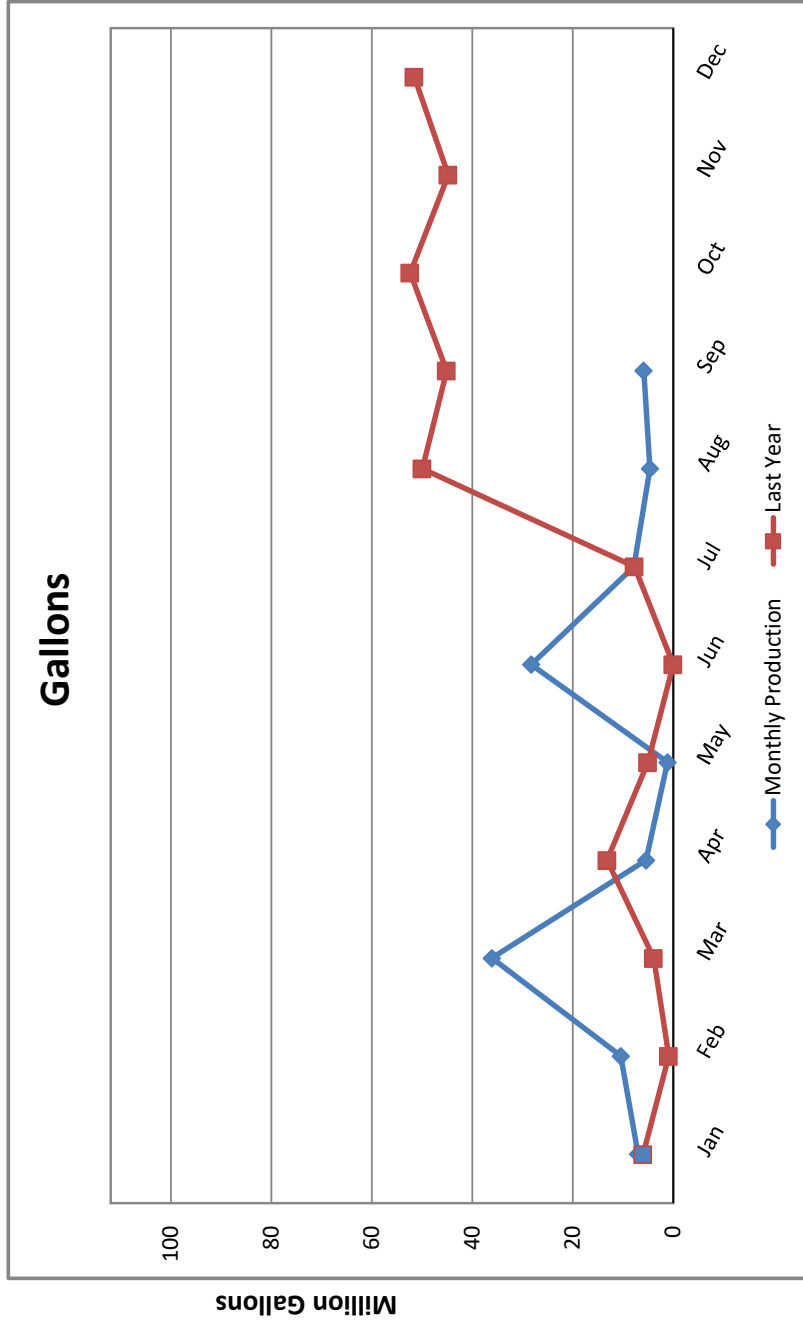
Motor Temp.: 102.5 F
Hour Meter: 71.70
KW Hour Total: 84,320
(KWH total is for the entire facility)

Chlorine:

Dosing: 1.88 mg/L
Demand: 0.89 mg/L
Residual: 0.99 mg/L

Vibration Reading:

Base Line: 0.02 in/sec
Current: 0.01 in/sec





Elk Grove Water District

Monthly Production

Well 8 Williamson -- September 2022
(Submersible)

Selected Month Production
6,465,548 Gallons

Average GPM: 543
Pump depth: 150 ft
Well depth: 564 ft

Motor:

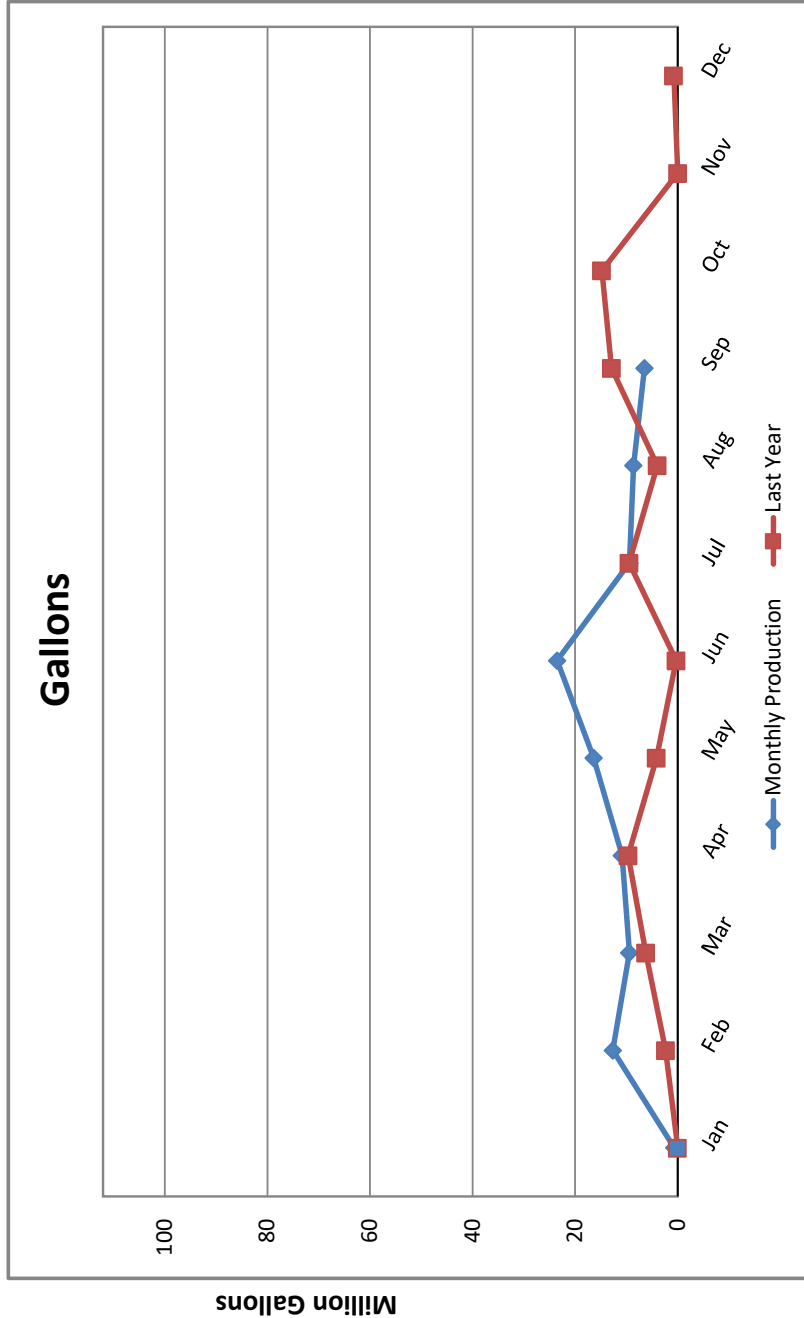
Volts: 459
Volts (Rated): 460

Amps A: 61
Amps A (Rated): 65
Amps B: 59
Amps B (Rated): 65
Amps C: 58
Amps C (Rated): 65

Hour Meter: 198.10
KW Hour Total: 8,100

Chlorine:

Dosing: 1.41 mg/L
Demand: 0.51 mg/L
Residual: 0.90 mg/L





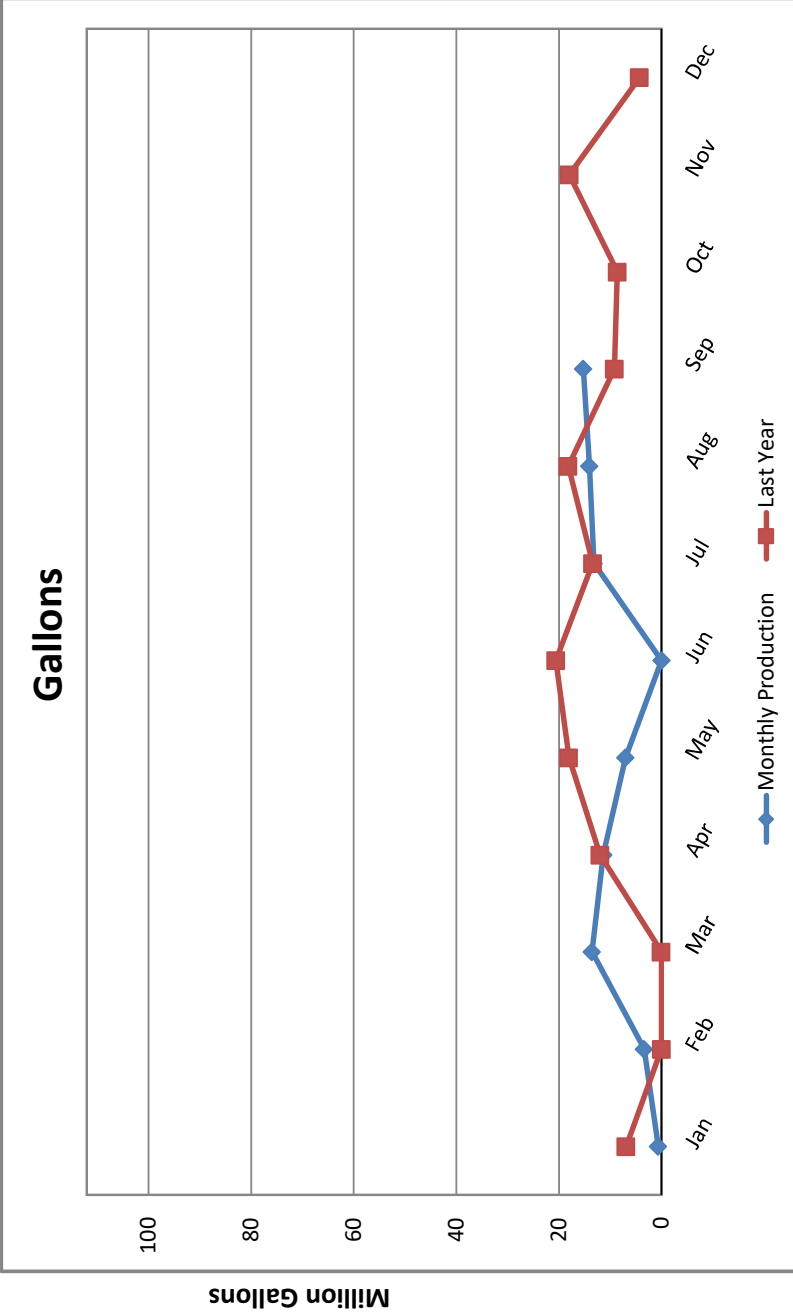
Elk Grove Water District

Monthly Production

Well 9 Polhemus -- September 2022
(Submersible)

Selected Month Production
15,245,175 Gallons

Average GPM: 490
Pump depth: 150 ft
Well depth: 556 ft



Motor:
Volts: 460
Volts (Rated): 460

Amps A: 61
Amps A (Rated): 65
Amps B: 59
Amps B (Rated): 65
Amps C: 58
Amps C (Rated): 65

Hour Meter: 518.30
KW Hour Total: 20,610

Chlorine:
Dosing: 1.42 mg/L
Demand: 0.59 mg/L
Residual: 0.83 mg/L



Elk Grove Water District

Monthly Production

Well 13 Hampton -- September 2022

Selected Month Production
16,635,405 Gallons

Average GPM: 927
Pump depth: 200 ft
Well depth: 500 ft

Motor:

Volts: 476
Volts (Rated): 460
RPM: 1786
RPM (Rated): 1785
Amps A: 104
Amps A (Rated): 141
Amps B: 106
Amps B (Rated): 141
Amps C: 107
Amps C (Rated): 141

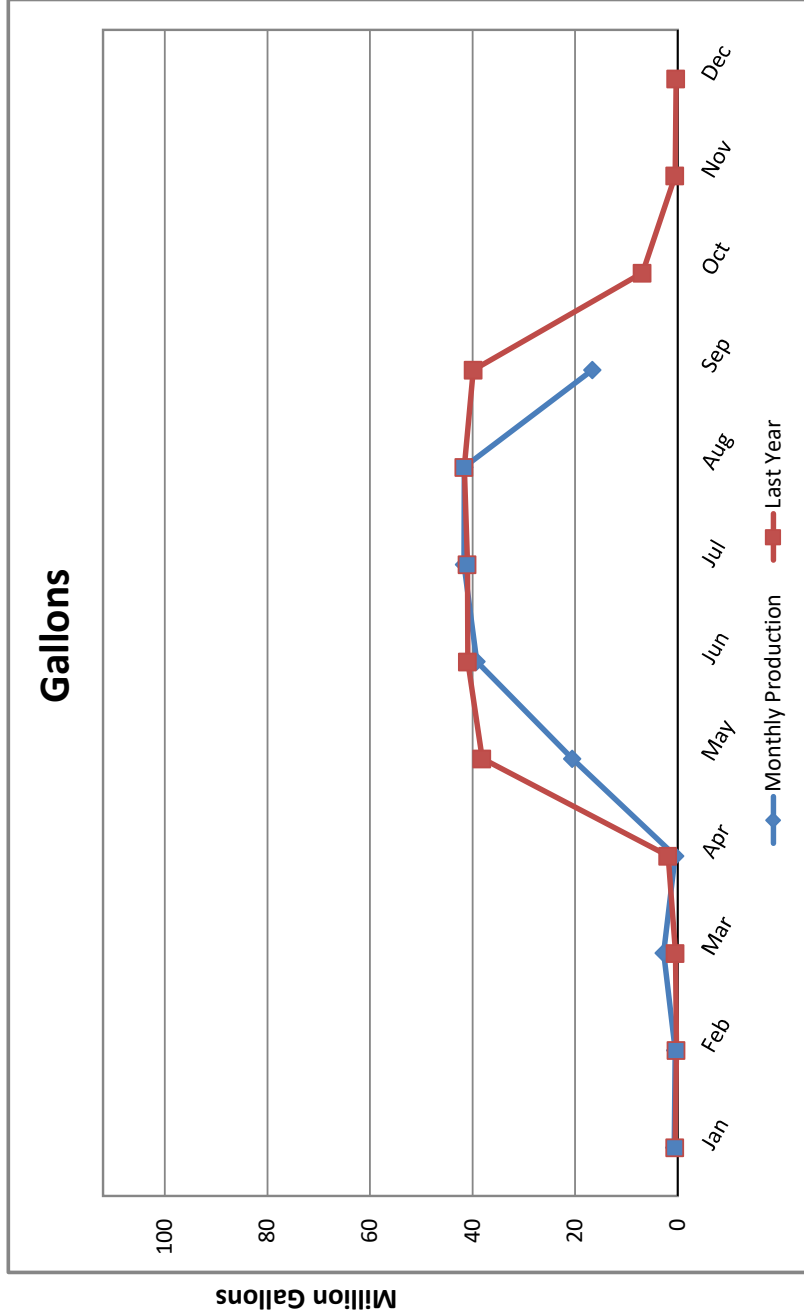
Motor Temp.: 147.6 F
Hour Meter: 298.8
KW Hour Total: 23,220

Chlorine:

Dosing: 1.52 mg/L
Demand: 0.69 mg/L
Residual: 0.83 mg/L

Vibration Reading:

Base Line: 0.02 in/sec
Current: 0.02 in/sec





Elk Grove Water District

Combined Total Production

Service Area 1

Sep-2022

Current Month Production:

144,632,180 Gallons

Highest Day Demand of the Month:

6,200,244

Date of Occurrence

6-Sep-22

Highest Day Demand of the Calendar Year:

6,200,244

Date of Occurrence

6-Sep-22

"Water Year" Rainfall: (Oct-21 to Sep-22)

Current Month: 0.28 in

Year To Date: 16.82 in

"Water Year" Rainfall: (Oct-20 to Sep-21)

September 2021: 0.05 in

Year To Date: 6.61 in

Entire Year Total: 6.61 in

Temperature:

This Month High: 114 F

This Month Low: 53 F

This Month Average: 76.4 F

SEP-21 High: 105 F

SEP-21 Low: 47 F

SEP-21 Average: 73.5 F

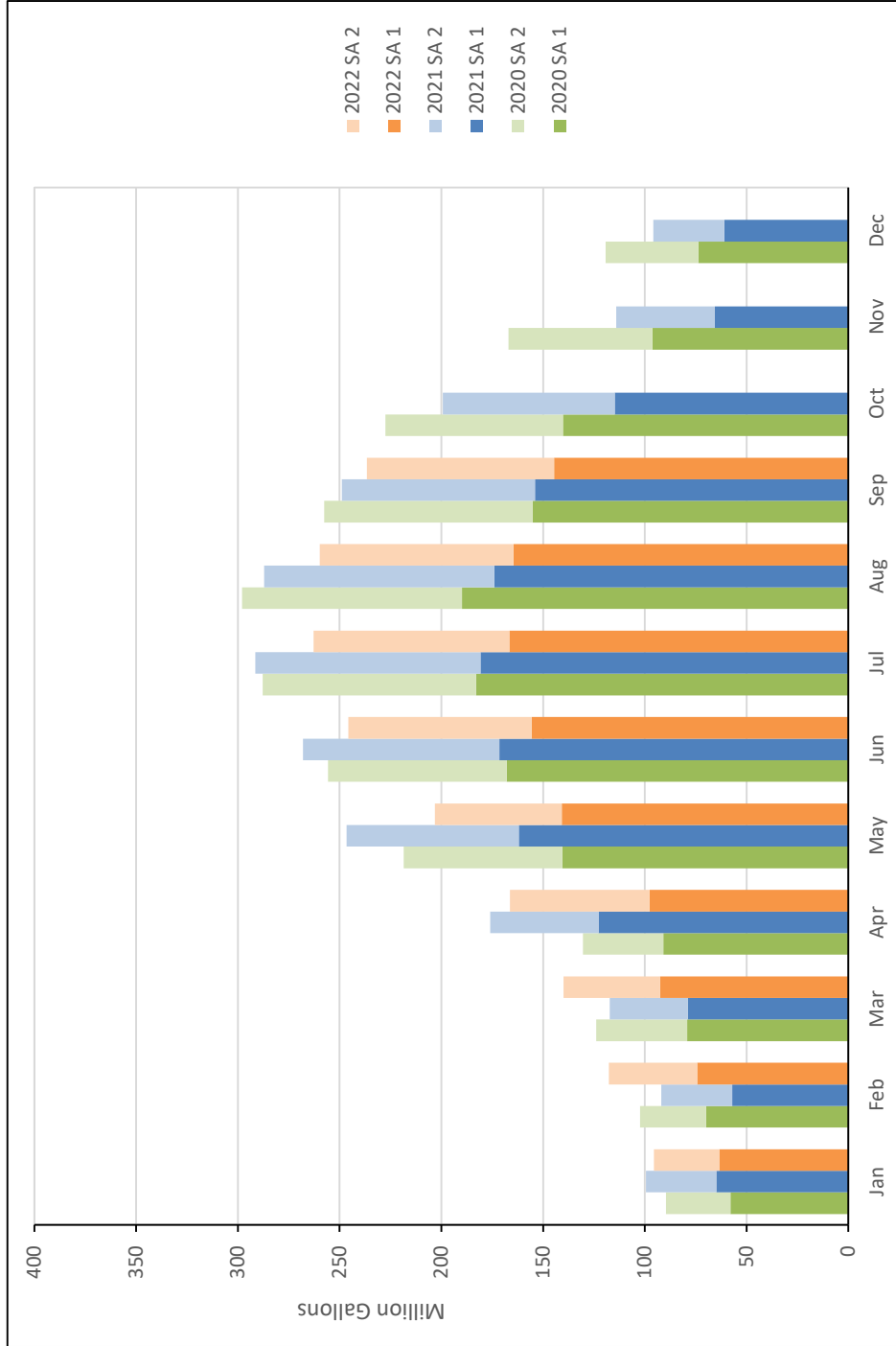




Elk Grove Water District

Total Demand/Production

Sep-2022



Current Month Demand/Production:
236,634,684 Gallons
***Change From September 2020:** -8.12%
GPCD: 167.8 Gallons per Day
R-GPCD: 129.0 Gallons per Day

Service Area 1
Active Connections: 7,936
Current Month Demand/Production:
144,632,180 Gallons
***Change From September 2020:** -6.76%
GPCD: 167.8 Gallons per Day
R-GPCD: 131.1 Gallons per Day

Service Area 2
Active Connections: 4,912
Current Month Demand/Production:
92,002,504 Gallons
***Change From September 2020:** -10.18%
GPCD: 167.8 Gallons per Day
R-GPCD: 125.8 Gallons per Day

*Percent reduction has been changed to percent change. Negative change is reduction and positive change is increase.

Elk Grove Water District Water Usage

Monthly Production (gallons)

2020	January	February	March	April	May	June	July	August	September	October	November	December	Total
GW (SA1)	57,904,843	69,920,851	79,195,437	90,851,253	140,575,760	167,942,394	182,964,721	189,801,764*	155,126,225	140,229,242	96,201,714	73,624,502	1,444,338,706
Purchased (SA2)	31,743,624	32,416,076	44,764,808	39,523,572	77,964,788	87,759,848	104,799,288	108,177,256	102,434,860	87,187,628	70,876,740	45,577,136	833,225,624
Total	89,648,467	102,336,927	123,960,245	130,374,825	218,540,548	255,702,242	287,764,009	297,979,020	257,561,085	227,416,870	167,078,454	119,201,638	2,277,564,330

2021	January	February	March	April	May	June	July	August	September	October	November	December	Total
GW (SA1)	64,881,378	57,088,452	78,904,998	122,759,415	161,903,489	171,428,103	180,693,083	173,985,025	153,922,309	114,717,480	65,607,814	61,008,401	1,406,899,947
Purchased (SA2)	34,553,112	34,867,272	38,268,428	53,156,620	84,725,960	96,521,920	110,862,576	113,081,144	94,977,300	84,569,628	48,501,816	34,885,972	828,971,748
Total	99,434,490	91,955,724	117,173,426	175,916,035	246,629,449	267,950,023	291,555,659	287,066,169	248,899,609	199,287,108	114,109,630	95,894,373	2,235,871,695

2022	January	February	March	April	May	June	July	August	September	October	November	December	Total
GW (SA1)	63,469,715	74,242,203	92,483,924	97,643,001	140,747,995	155,597,114	166,596,675	164,513,039	144,632,180				1,099,925,846
Purchased (SA2)	32,115,380	43,369,788	47,452,372	68,588,608	62,494,652	90,110,812	96,146,424	95,299,688	92,002,504				627,580,228
Total	95,585,095	117,611,991	139,936,296	166,231,609	203,242,647	245,707,926	262,743,099	259,812,727	236,634,684	0	0	0	1,727,506,074

Monthly Percent Change - Comparing 2020 to 2022

% Change	January	February	March	April	May	June	July	August	September	October	November	December	Total
GW (SA1)	9.61%	6.18%	16.78%	7.48%	0.12%	-7.35%	-8.95%	-13.32%	-6.76%	-	-	-	-
Purchased (SA2)	1.17%	33.79%	6.00%	73.54%	-19.84%	2.68%	-8.26%	-11.90%	-10.18%	-	-	-	-
Total	6.62%	14.93%	12.89%	27.50%	-7.00%	-3.91%	-8.69%	-12.81%	-8.12%	-	-	-	-
% Cumulative Change	6.62%	11.05%	11.77%	16.37%	8.69%	5.19%	1.88%	-1.02%	-2.06%	-	-	-	-

*Notes

2020 August production number for SA1 includes water delivered through open interties with SA2.

SA1 = Service Area 1, SA2 = Service Area 2. SA1 is all groundwater (GW) production. SA2 is all purchased water from SCWA.

Charlois and Springhurst Intertie

Charlois Intertie (Aug 2020)

Springhurst Intertie (Aug 2020)

18,000,000 Gallons

8,706,529 Gallons

14,511,000 Gallons

(Determined from Bruce Kamilos calculations)

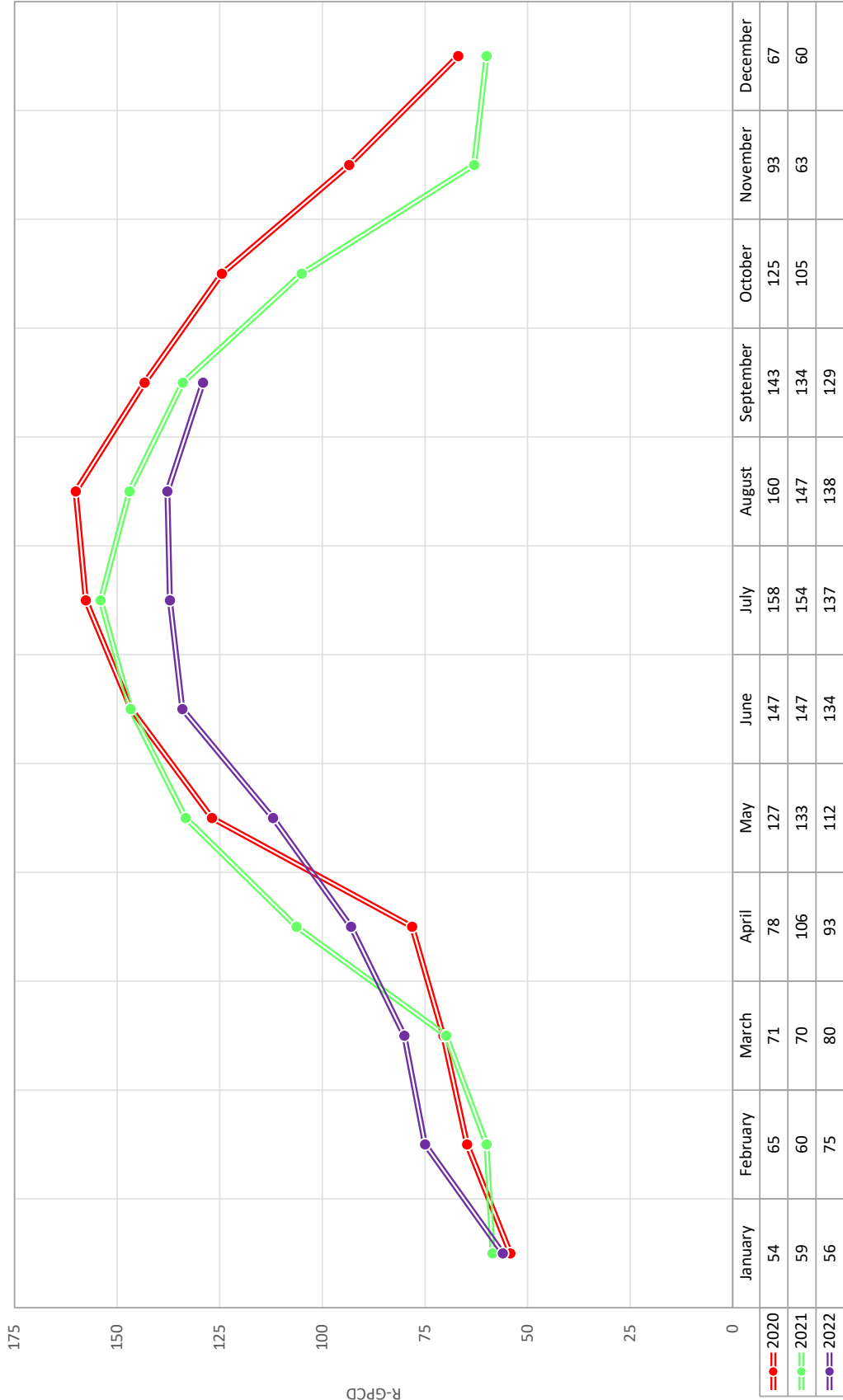
(Number provided from meter read by SCWA)

Service Area 2	Consumption	
	# Accts	Gallons
2022		
Jan	4,902	42,935
Feb	4,906	57,981
Mar	4,908	63,439
Apr	4,908	91,696
May	4,908	83,549
Jun	4,912	120,469
Jul	4,889	128,538
Aug	4,912	127,406
Sep	4,912	122,998
Oct		
Nov		
Dec		



EGWD COMBINED R-GPCD

●— 2020 ●— 2021 ●— 2022



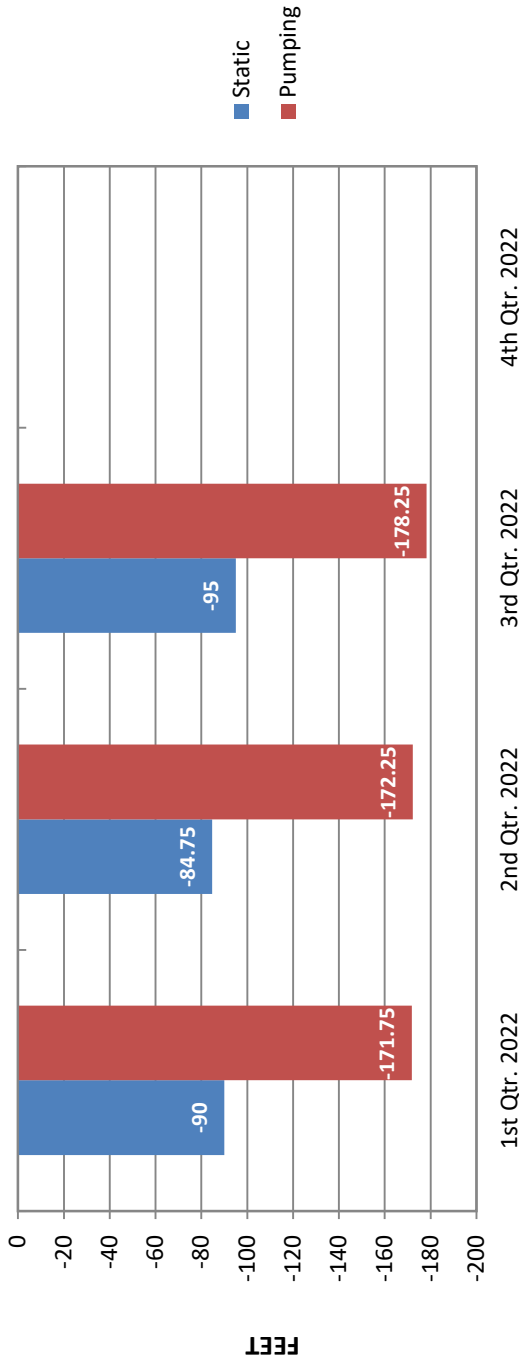
R-GPCD = Residential Gallons per Capita per Day



Elk Grove Water District

Static and Pumping Levels

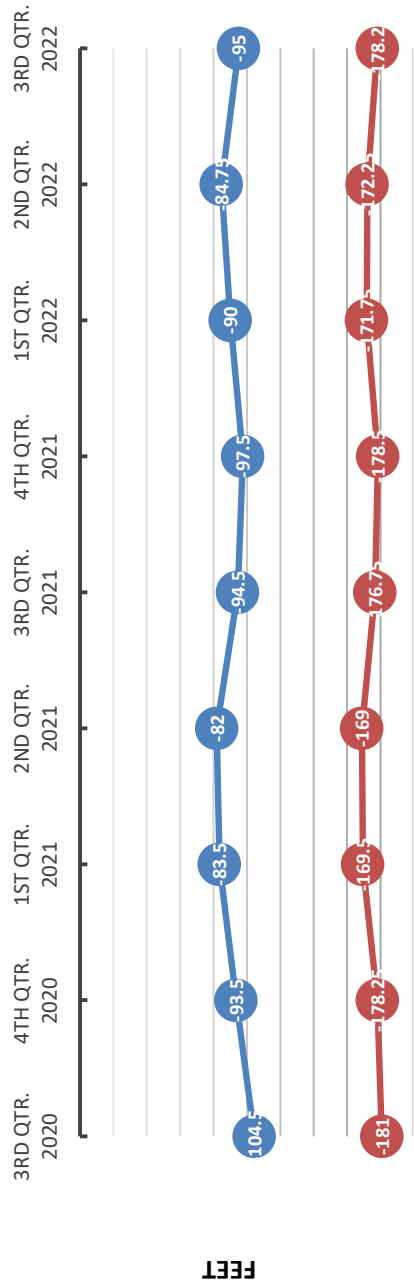
Well 1D School St



Latest Well Sounding

Static: 95 Ft
 Pumping: 178.25 Ft
 Drawdown: 83.25 Ft
 GPM: 1,709
 Specific Capacity: 20.526

Sounding Quarter/Year



Latest Sand Tester Results:

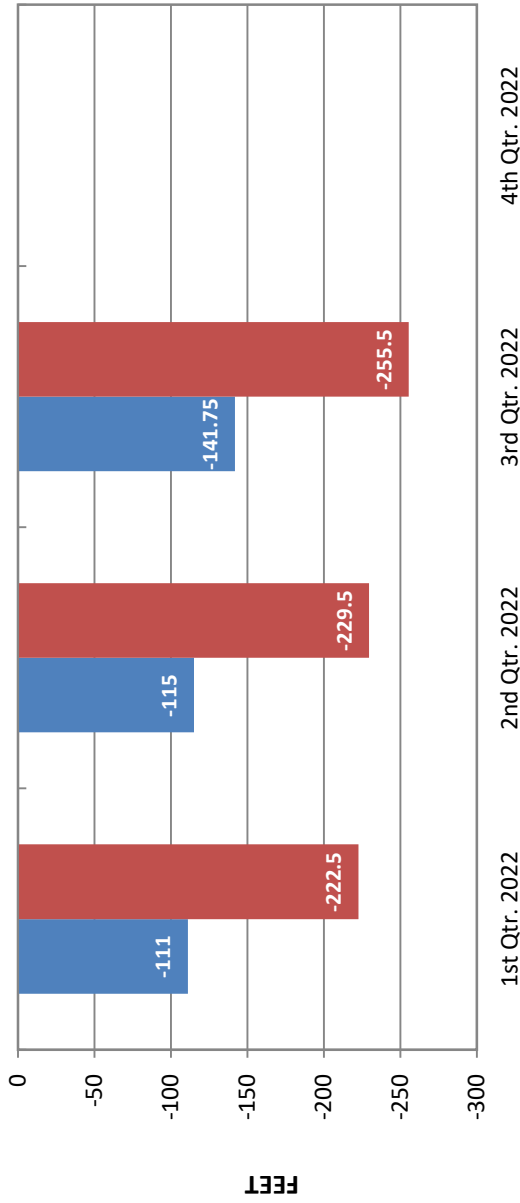
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

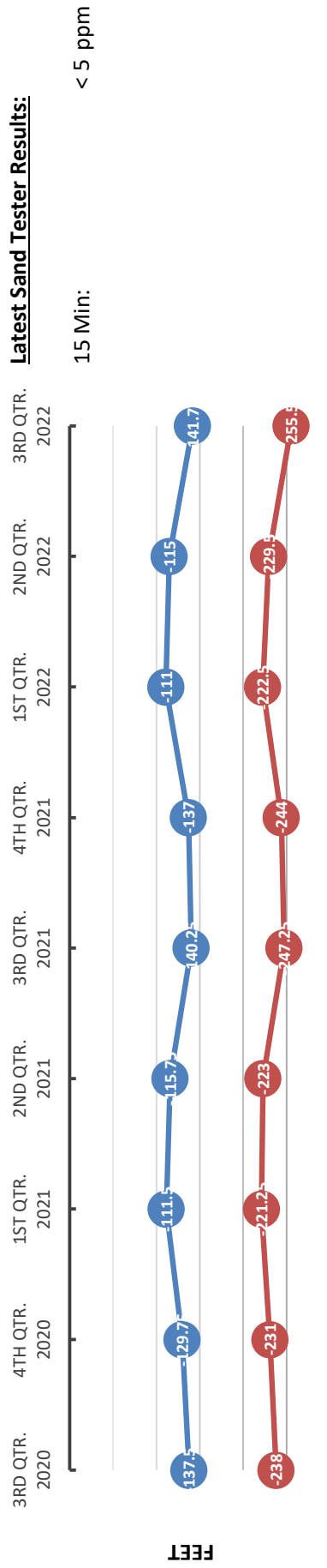
Well 4D Webb St



Latest Well Sounding

Static: 141.75 Ft
Pumping: 255.5 Ft
Drawdown: 113.75 Ft
GPM: 1,725
Specific Capacity: 15.161

Sounding Quarter/Year



Latest Sand Tester Results:

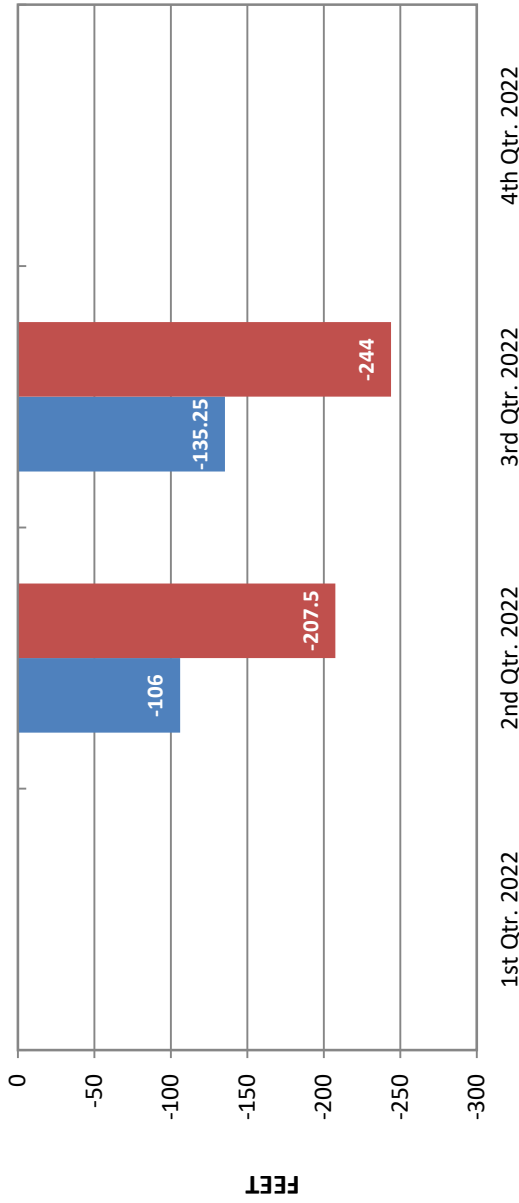
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 11D Dino

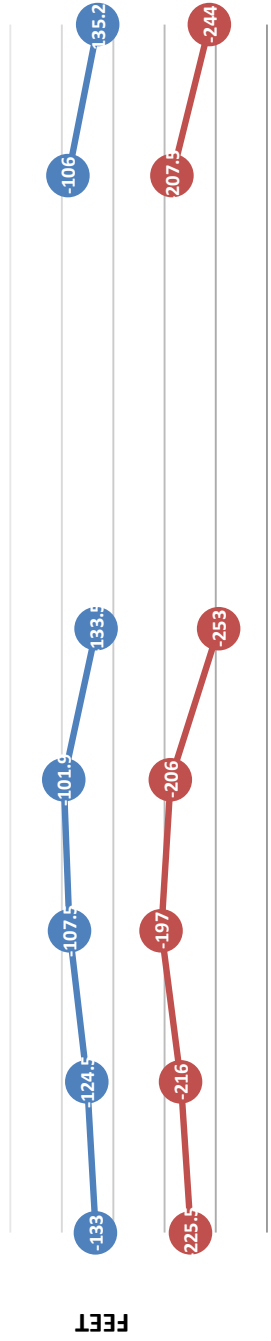


Latest Well Sounding

Static: 135.25 Ft
Pumping: 244 Ft
Drawdown: 108.75 Ft
GPM: 1,700
Specific Capacity: 15.632

Sounding Quarter/Year

Latest Sand Tester Results:
 15 Min: < 5 ppm

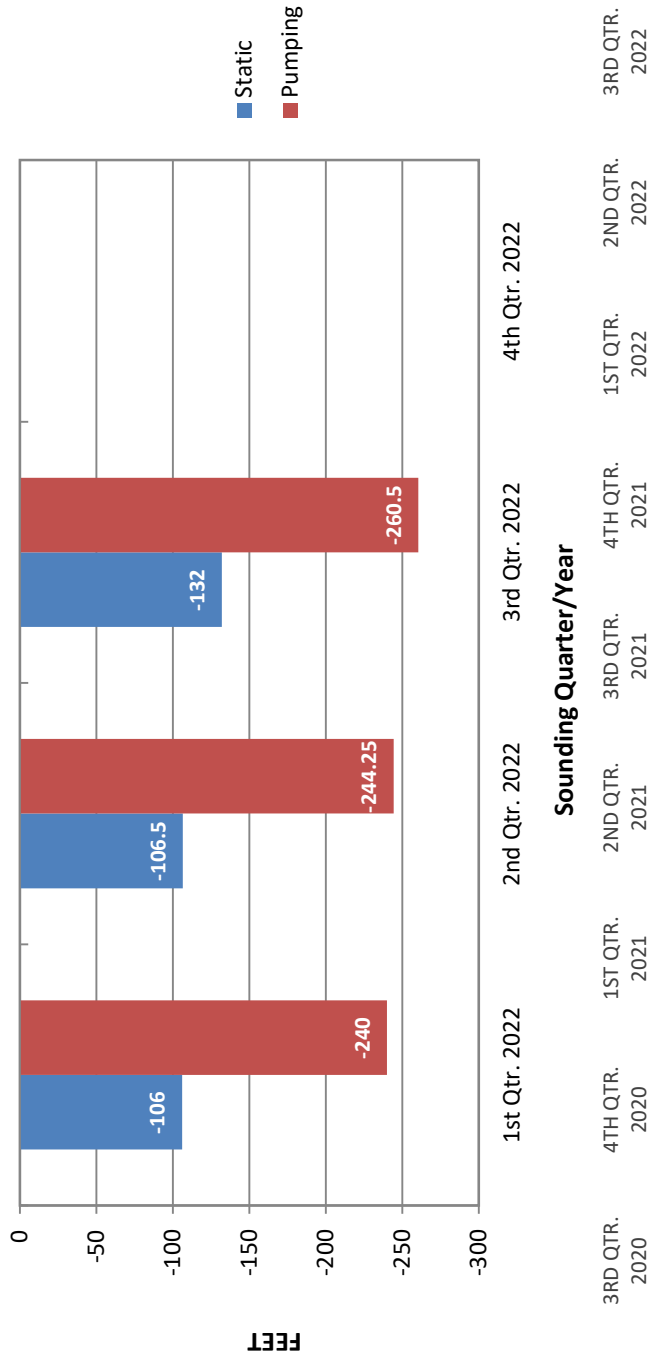




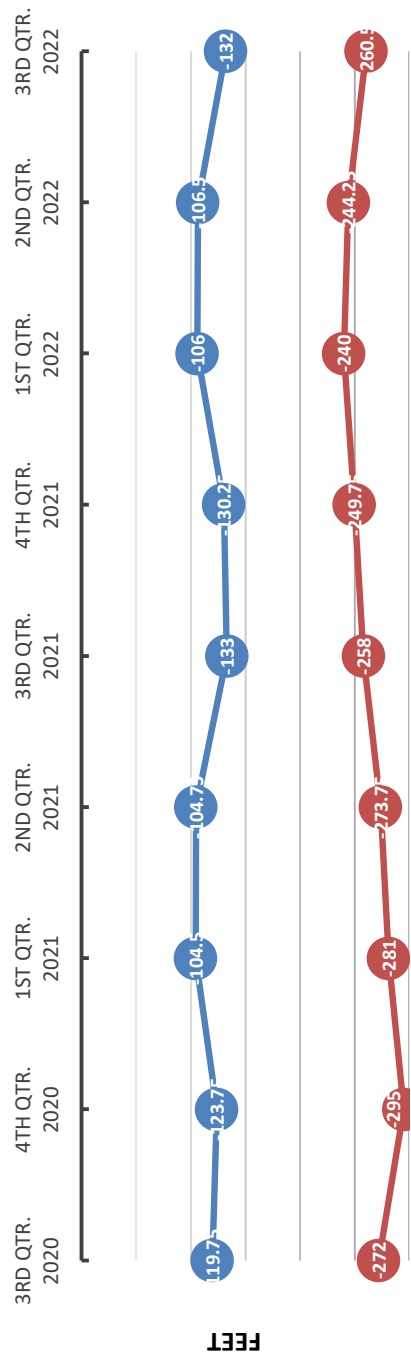
Elk Grove Water District

Static and Pumping Levels

Well 14D Railroad



Sounding Quarter/Year



Latest Well Sounding

Static: 132 Ft
Pumping: 260.5 Ft
Drawdown: 128.5 Ft
GPM: 1,436
Specific Capacity: 11.176

Latest Sand Tester Results:

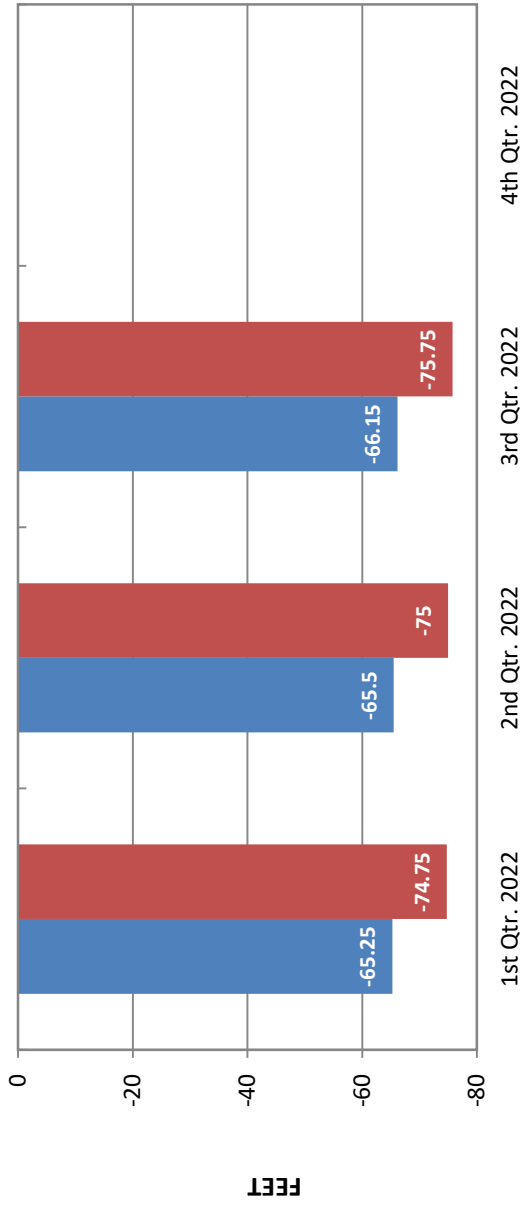
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

Well 8 Williamson

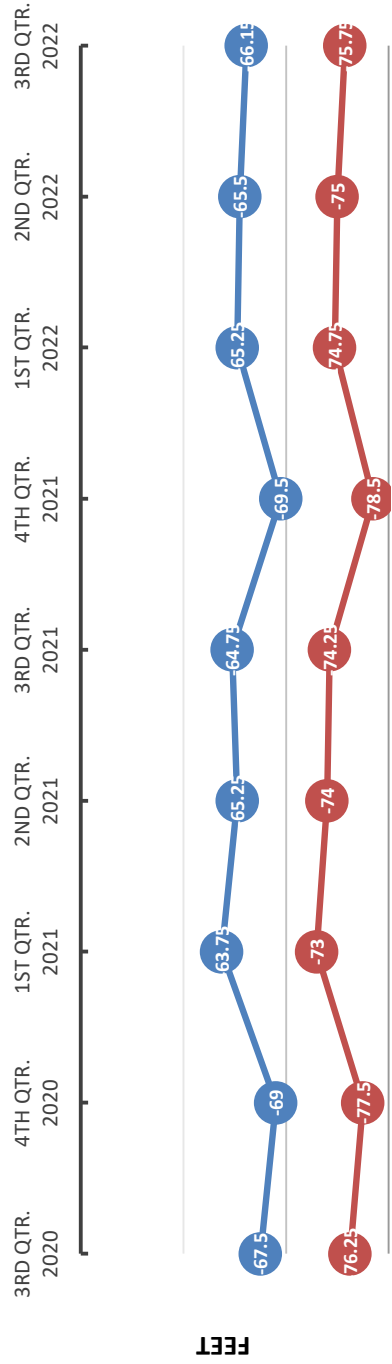


Latest Well Sounding

Static: 66.15 Ft
 Pumping: 75.75 Ft
 Drawdown: 9.6 Ft
 GPM: 547
 Specific Capacity: 56.965

■ Static
 ■ Pumping

Sounding Quarter/Year



Latest Sand Tester Results:

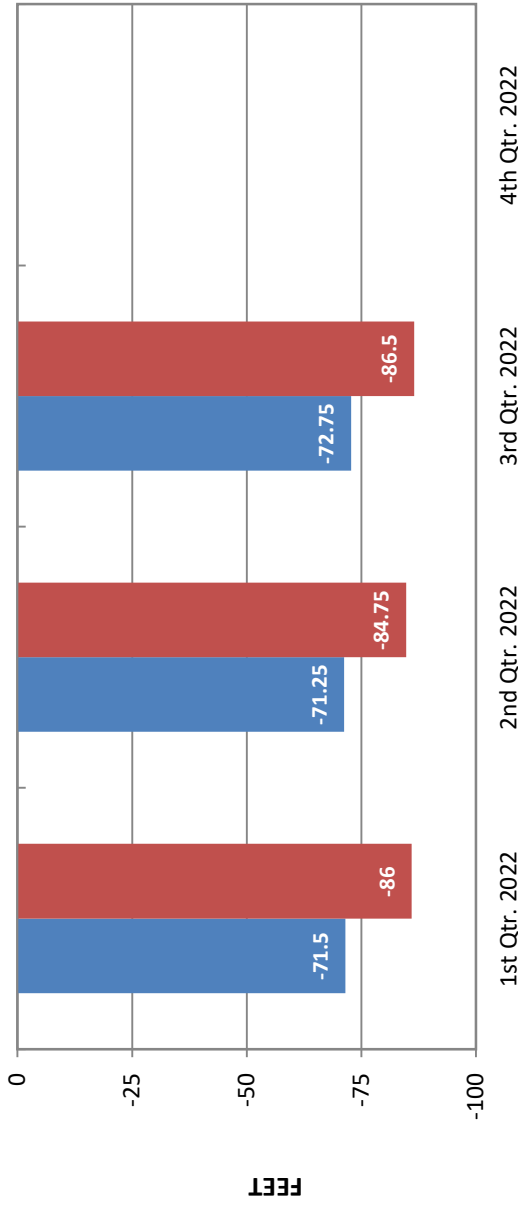
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

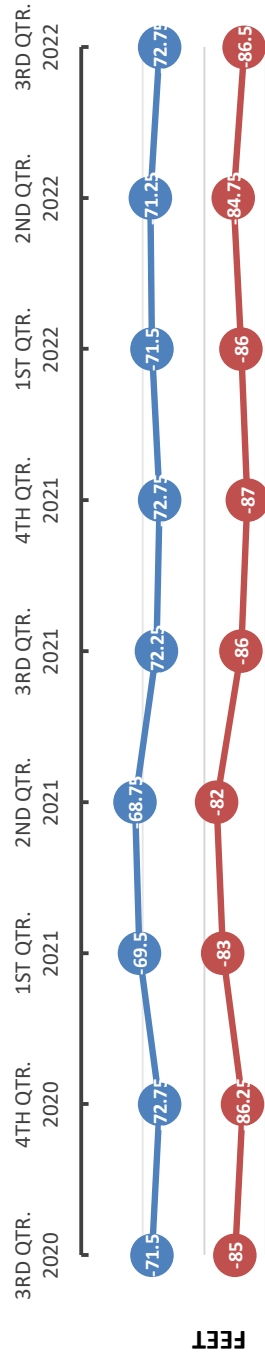
Well 9 Polhemus



Latest Well Sounding

Static: 72.75 Ft
Pumping: 86.5 Ft
Drawdown: 13.75 Ft
GPM: 493
Specific Capacity: 35.840

Sounding Quarter/Year



Latest Sand Tester Results:

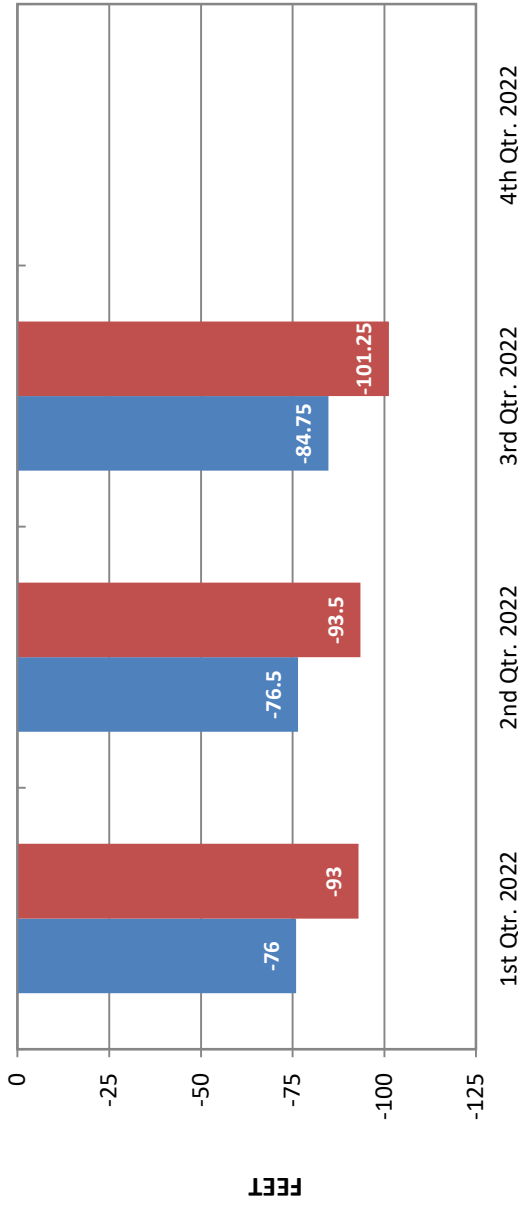
15 Min: < 5 ppm



Elk Grove Water District

Static and Pumping Levels

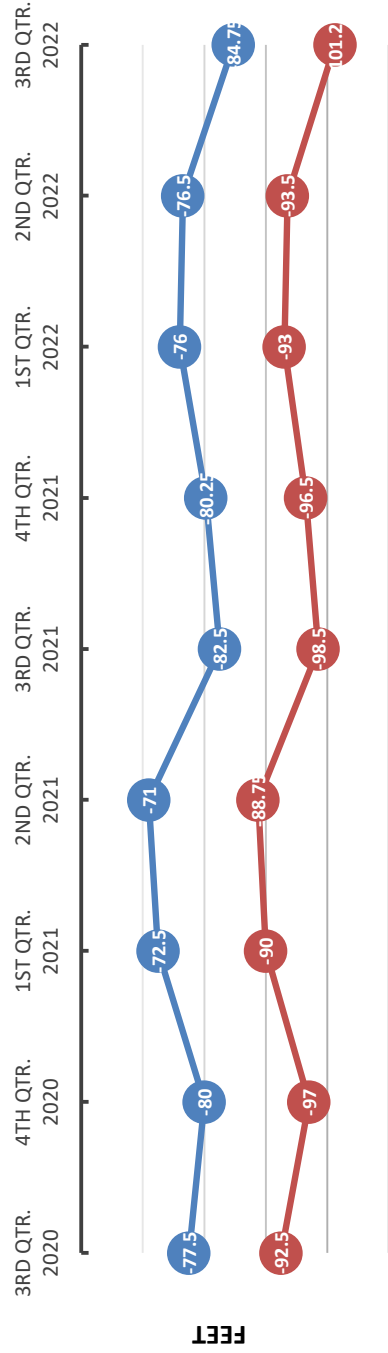
Well 13 Hampton



Latest Well Sounding

Static: 84.75 Ft
 Pumping: 101.25 Ft
 Drawdown: 16.5 Ft
 GPM: 951
 Specific Capacity: 57.663

Sounding Quarter/Year



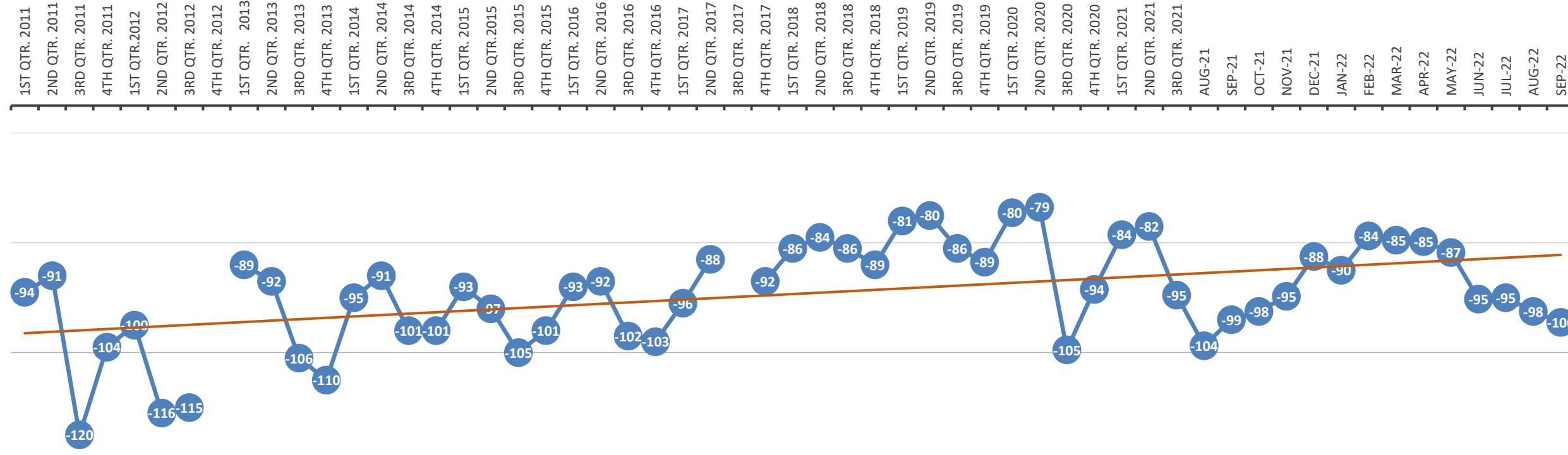
Latest Sand Tester Results:

15 Min: < 5 ppm

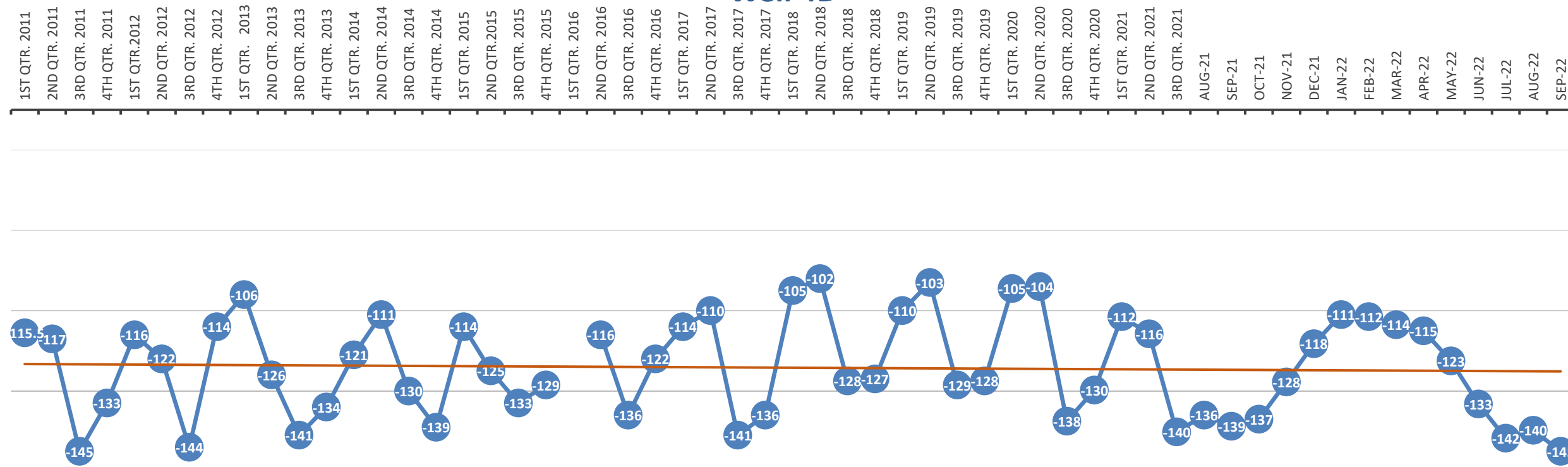


Historic Static Well Levels

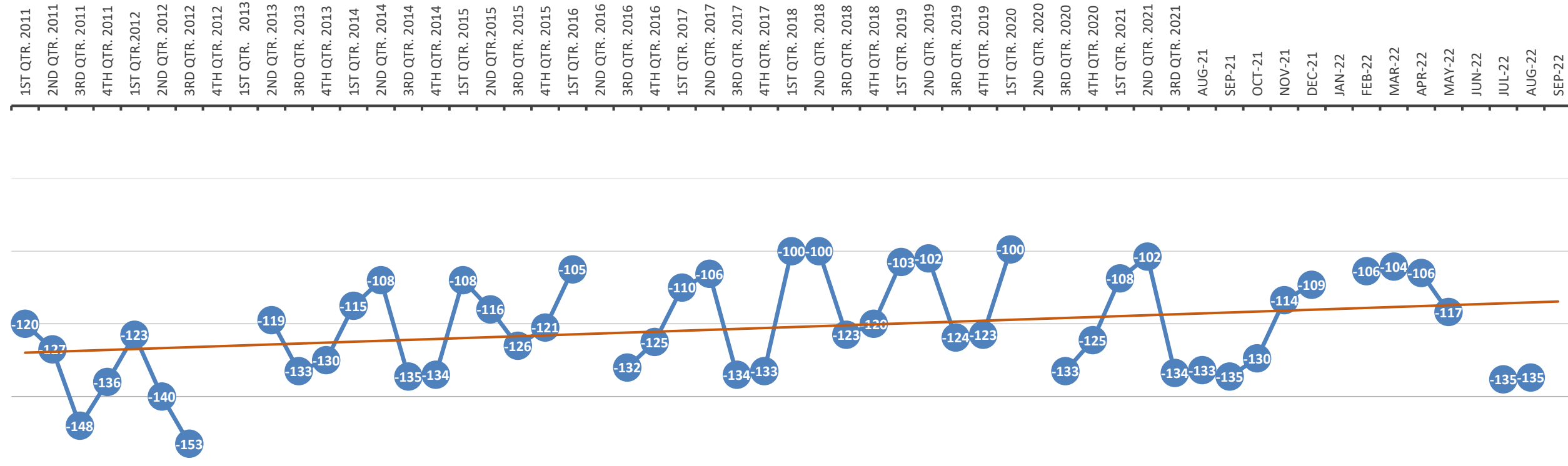
Well 1D



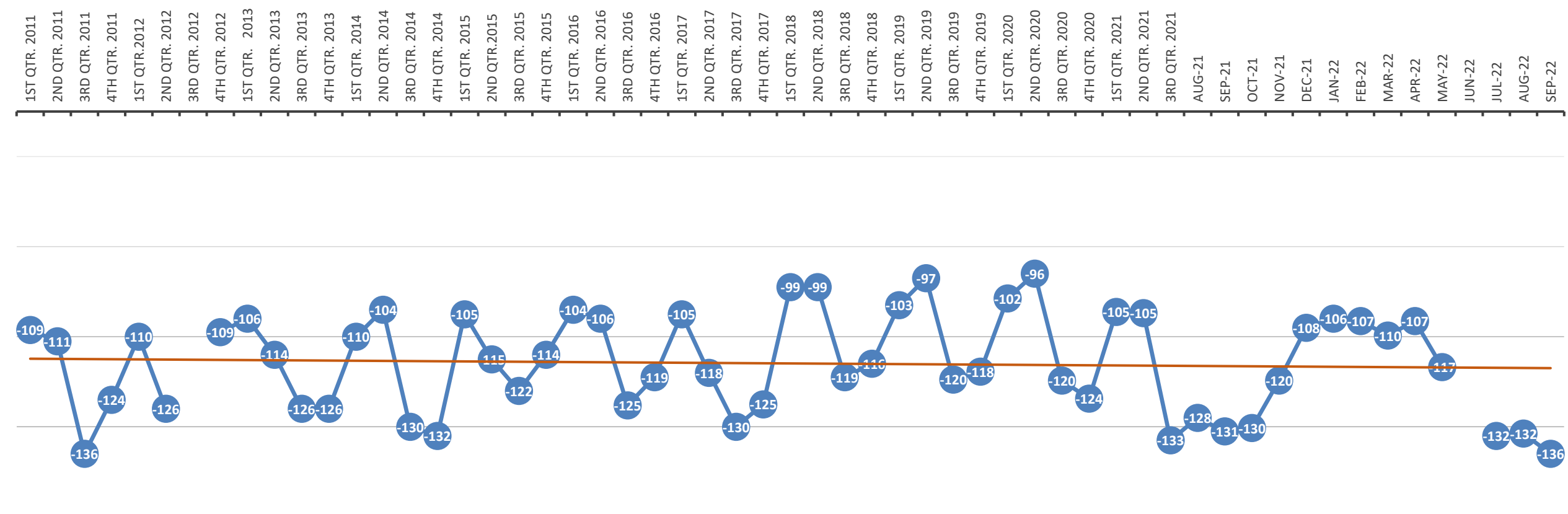
Well 4D



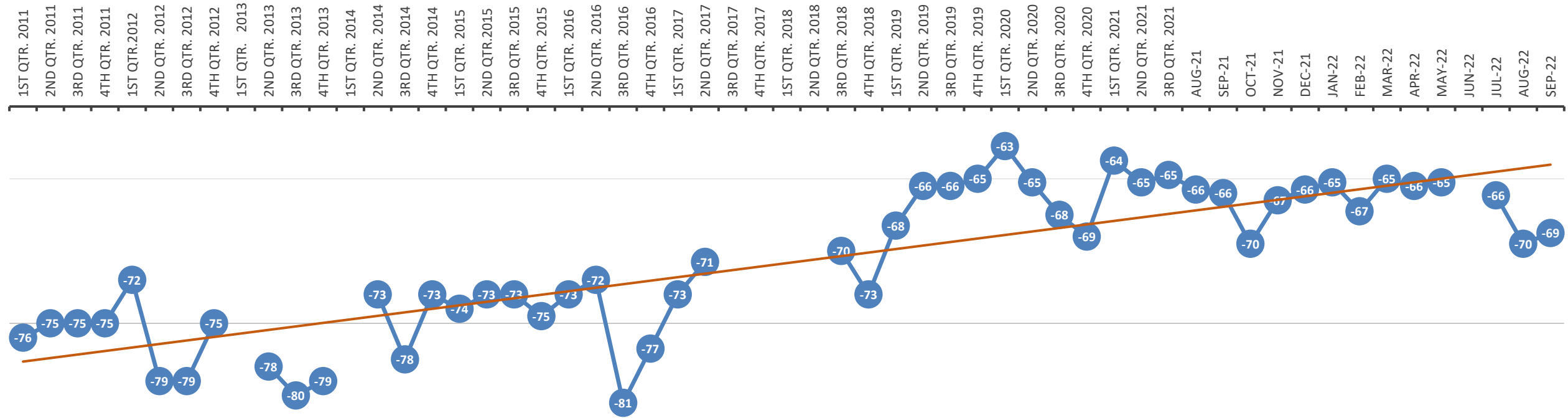
Well 11D



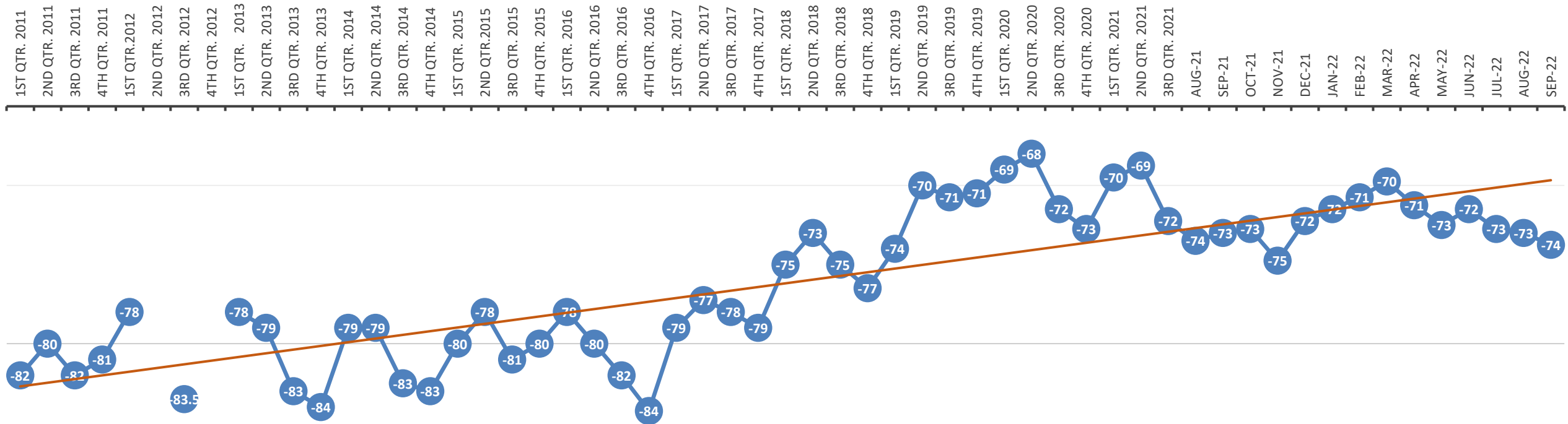
Well 14D



Well 8



Well 9



**Monthly Sample Report -September 2022
Water System: Elk Grove Water System**

Sampling Point: 01 - 8693 W. Camden			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: School Well 01D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
			Quarterly

Sampling Point: 02 - 9425 Emerald Vista			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 03 - 8809 Valley Oak			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: Webb Well 04D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: 04 - 10122 Glacier Point			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 05 - 9230 Amsden Ct.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 06 - 9227 Rancho Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 07 - Al Gates Park Mainline Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: - Williamson Well 8 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: 08 - 9436 Hollow Springs Wy.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week
9/6/2022	Distribution System	Fluoride	Week

Sampling Point: Polhemus Well 9 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: 09 - 8417 Blackman Wy.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 10 - 9373 Oreo Ranch Cir.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 11 - 9907 Kapalua Ln.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: 12-9205 Meadow Grove Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Distribution System	Bacteriological	Week
9/13/2022	Distribution System	Bacteriological	Week
9/20/2022	Distribution System	Bacteriological	Week
9/27/2022	Distribution System	Bacteriological	Week

Sampling Point: Dino Well 11D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: Hampton Well 13 - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Source Water	Fe, Mn, As, Total	Weekly
9/12/2022	Source Water	Fe, Mn, As, Total	Weekly
9/19/2022	Source Water	Fe, Mn, As, Total	Weekly
9/26/2022	Source Water	Fe, Mn, As, Total	Weekly

Sampling Point: Hampton WTP Effluent			
Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Treated Effluent	Fe, Mn, As, Total	Weekly
9/12/2022	Treated Effluent	Fe, Mn, As, Total	Weekly
9/19/2022	Treated Effluent	Fe, Mn, As, Total	Weekly
9/26/2022	Treated Effluent	Fe, Mn, As, Total	Weekly

Sampling Point: Hampton WTP Backwash Tank			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: Railroad Well 14D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: Railroad WTP Effluent

Sample Date	Sample Class	Sample Name	Collection Occurrence
9/6/2022	Treated Plant Effluent	WTP Eff - Fe,Mn,As,Al Total	Month

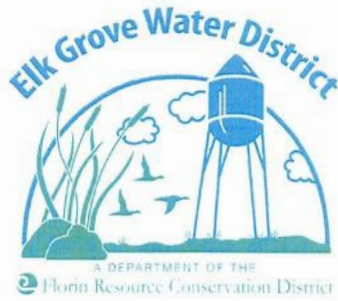
Sampling Point: Railroad WTP Backwash Tank

Sample Date	Sample Class	Sample Name	Collection Occurrence
-------------	--------------	-------------	-----------------------

Sampling Point: Special Distribution/Construction Samples

Sample Date	Sample Class	Sample Name	Collection Description
9/28/2022	Distribution System	Bacteriological	5791 Elk grove Blvd. Valve Install
9/29/2022	Distribution System	Bacteriological	Elliot Springs & Bond Rd. Blowoff

<u>Colors</u>	<u>Monthly Total</u>	<u>Yearly Total</u>
Black = Scheduled	70	665
Green = Unscheduled	2	59
Red = Incomplete Sample	0	



October 6, 2022

Sacramento Regional County
Sanitation District
Environmental Specialist
10060 Goethe Rd.
Sacramento, CA. 95827

WASTEWATER DISCHARGE COMPLIANCE REPORT FORM

Enclosed is the Wastewater Discharge Compliance Report Form from Elk Grove Water District September 2022.

If you have any further questions, you may contact me at 916-585-9386

A handwritten signature in blue ink, appearing to read 'STEVE SHAW', is positioned above the printed name.

STEVE SHAW
WATER TREATMENT SUPERVISOR

COMPLIANCE REPORT FORM

Attn: Ursula Bigler	E-mail: bigleru@sacsewer.com	Wastewater Source Control Section
Phone (916) 875-9093		Fax (916) 875-6374
From: Steve Shaw		
Company: Elk Grove Water District		Permit #: WTP010

The following reports and information are attached (check all that apply):

Month:	September	Year:	2022
---------------	------------------	--------------	-------------

Water use/flow meter report

	Total Gallons
Hampton WTP	475,784
Railroad WTP	0
Analyzer Water	34,560

Monitoring results/analytical report

Discharge Rate

Check the statement below that applies to this report:

Based on a review of this facility's flow data, discharge rate limit was exceeded.
 I certify that this facility is in compliance with the discharge rate limit.

Attached is a description of anticipated changes that may significantly alter the nature, quality, or volume of the wastewater discharged.

Flow monitoring equipment certification (Flow or pH meter, etc.)

Other (describe):

Domestic Calculation

Domestic Usage	Number of Employees	Business Days per Month	Allowance (Gallons per day)	Gallons
Production	11	18	15	2,970
Office	3	18	10	540
Drivers/Field	2	18	3	108
Total				3,618

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations".

SIGNATURE of Authorized Representative:



PRINTED NAME, TITLE:

Steve Shaw Water Treatment Supervisor
 (Name) (Title)

DATE:

10-6-2022

Elk Grove Water District
 Backwash Wastewater pH Results
 and
 Record of Performance Verification For
 OAKTON Multi-Parameter PCSTestr 35

Instructions for Calibration:

1. For best results, calibrate with certified accurate pH calibration standards (buffers). You may calibrate up to five points with the USA (1.68, 4.01, 7.00, 10.01, 12.45) or the NIST (1.68, 4.01, 6.86, 9.18, 12.45) buffer group
 2. Press the "ON/OFF" button to turn meter on, then press "MODE/ENT" to select pH mode as needed.
 3. Rinse the sensor with clean water. Immerse the sensor into your pH buffer and press "CAL". The primary display will show the un-calibrated pH value, while the secondary display should search for and lock on the closest automatic calibration value.
 4. Allow the primary reading to stabilize, then press "MODE/ENT" to confirm the calibration value. The primary value will blink briefly before the secondary value automatically scrolls thru the remaining pH buffers available for calibration.
- Repeat steps 2 & 3 with additional buffers or press "CAL" to return to measurement mode.

Semi-Annual Sample	Date	pH 4 Buffer		pH 7 Buffer		pH 10 Buffer	
		Result	Adjustment	Result	Adjustment	Result	Adjustment
1 of 2			-->		-->		-->
Railroad WTP Backwash Waste		Time	Result	Hampton Village WTP Backwash Waste		Time	Result

Semi-Annual Sample	Date	pH 4 Buffer		pH 7 Buffer		pH 10 Buffer	
		Result	Adjustment	Result	Adjustment	Result	Adjustment
2 of 2	<u>10-4-22</u>	<u>4.25</u>	--> <u>4.01</u>	<u>6.88</u>	--> <u>7.0</u>	<u>9.96</u>	--> <u>10.01</u>
Railroad WTP Backwash Waste		Time	Result	Hampton Village WTP Backwash Waste		Time	Result
		<u>8:20 A</u>	<u>7.55</u>			<u>8:50</u>	<u>7.27</u>

Accuracy: +/- 0.01 pH



INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 Phone (800) 649-4287
 Fax (530) 823-3475
 service@aquasierra.com

Controls, Inc.

Attn: STEVE SHAW
 ELK GROVE WATER DISTRICT
 9257 ELK GROVE BLVD
 ELK GROVE, CA. 95624

Instrument ID 07
 Description MAGNETIC FLOW METER

Serial Number 04W024929
 Model Number MFE4ER140111

Calibrated 8/25/2022
 Scheduled 8/25/2023
 Calibration ID 36075
 Certificate # 07
 Equipment ID WASTE METER

Department ELK GROVE WATER
 Manufacturer ABB KENT TAYLOR
 Calibration Type SCHEDULED
 Location RAILROAD WTP
 Building WASTE TANK

Calibration Specifications

Stated Accuracy Pct of Reading

In Val	In Type	Out Val	Out Type	FndAs	Error%	Lft As	Error %
0.00	FEET PER SEC.	0.00	GPM Rate	0.00	0.00%	0.00	0.00%
1.50	FEET PER SEC.	63.11	GPM Rate	63.29	0.00%	63.29	0.00%
3.00	FEET PER SEC.	126.21	GPM Rate	126.82	0.00%	126.82	0.00%
6.00	FEET PER SEC.	252.43	GPM Rate	253.59	0.01%	253.59	0.01%

Stated Accuracy Pct of Reading

In Val	In Type	Out Val	Out Type	FndAs	Error%	Lft As	Error %
0.00	FEET PER SEC.	0.00	GPM Totalizer	0.00	0.00%	0.00	0.00%
1.50	FEET PER SEC.	63.11	GPM Totalizer	63.39	0.00%	63.39	0.00%
3.00	FEET PER SEC.	126.21	GPM Totalizer	126.81	0.00%	126.81	0.00%
6.00	FEET PER SEC.	252.43	GPM Totalizer	253.69	0.01%	253.69	0.01%

Stated Accuracy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET PER SEC.	4.00	mA	4.00	0.00%	4.00	0.00%
1.50	FEET PER SEC.	5.68	mA	5.69	0.06%	5.69	0.06%
3.00	FEET PER SEC.	7.37	mA	7.38	0.06%	7.38	0.06%
6.00	FEET PER SEC.	10.73	mA	10.76	0.19%	10.76	0.19%

Test Instruments Used During the Calibration

Test Instrument ID	Description	Manufacturer	Model Number	Serial Number
203	Magnmeter Simulator	Abb	MFE-SIM	P1540511212
334	LOOP CALIBRATOR	DRUCK	UPS II	54713

Notes about this calibration

Waste Meter, Main Floor
 0-600 GPM = 4-20 mA
 Sensor Size: 100 mm
 Sensor Factor Number 1 = 1.10888, Number 2 = -19, Number 3 = 5, Number 4 = 1.0000
 Totalizer Start: 17353908 Gallons, Start Time: 1054 Hours
 Totalizer Stop: 17357673 Gallons, Stop Time: 1130 Hours
 Meter is located at: 9715 Railroad Street, Elk Grove
 Railroad W.T.P.

Calibration Result Calibration Successful

Who Calibrated avi d Lovs ey

Aqua Sierra Controls, Inc.
 1650 Industrial Drive
 Auburn, CA 95603
 (530) 823-3241 Fax (530-823-3475

Meter Certification Report

Customer: Elk Grove Water District
 Address: 9257 Elk Grove Boulevard
Elk Grove, CA 95624
 Location: 10113 Hampton Oak, Hampton Oak W.T.P.

Date: 8/25/2022
 Attn: Steve Shaw

Description of Metering Equipment:

Transmitter-- 4" ABB Watermeter M/N: FET3251AOP183C1H1 S/N: 3K620000175209
 Sensor Tube-- M/N: FEP325100M1S1A1B1B1A5P1BOY1AYJIF6T3 Order#: 3R620000175210

Test run #1

		Approx Run time	5:45.55	Minutes		
Spire Meter	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error%
EF10	18.06	104	ABB Watermeter	18.01	104	-0.28%

Test run #2

		Approx Run time	5:34.40	Minutes		
Spire Meter	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error%
EF10	17.82	100	ABB Watermeter	17.76	99	-0.34%

Test run #3

		Approx Run time	5:10.58	Minutes		
Spire Meter	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error%
EF10	17.62	91	ABB Watermeter	17.58	92	-0.23%

Final Check after Adjustment

		Approx Run time		Minutes		
Spire Meter	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error%
EF10			ABB Watermeter			

Pass X Fail

Comments: 4" Carbon Steel, Pipe O.D. = 4.500", Wall Thickness = 0.120

Pipe is very short, Transmitter located inside building (Backwash Wasteflow) Pipe is located outside by tank.

Totalizer Start: 36618128, Totalizer Stop: 36618672

Calibration Performed by: David Lovsey
 David Lovsey



October 10, 2022

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento, CA. 95814

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING

Enclosed is the Monthly Summary of Distribution System Coliform Monitoring report from Elk Grove Water District for September 2022.

If you have any further questions, you may contact me at 916-585-9386.

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written over a horizontal line.

STEVE SHAW
WATER TREATMENT SUPERVISOR

MONTHLY SUMMARY OF REVISED TOTAL COLIFORM RULE DISTRIBUTION SYSTEM MONITORING (including triggered source monitoring for systems subject to the Groundwater Rule)

System Name <p style="text-align: center; font-size: 1.2em;">Elk Grove Water District</p>	System Number <p style="text-align: center; font-size: 1.2em;">3410008</p>
Sampling Period <p style="text-align: center; font-size: 1.2em; color: blue;">September</p>	Year <p style="text-align: center; font-size: 1.2em;">2022</p>

	Number Required	Number Collected	Number Total Coliform Positives	Number E.coli Positives
1. Routine Samples (see note 1)	48	48	1	0
2. Repeat Samples following samples that are Total Coliform Positive and <i>E.coli</i> Negative (see notes 10 and 11)		0	0	0
3. Repeat Samples following Routine Samples that are Total Coliform Positive and <i>E. coli</i> Positive (see notes 10 and 11)		0	0	0
4. Treatment Technique (TT)/MCL Violation Computation for Total Coliform/ <i>E. coli</i> Positive Samples				
a. Totals (sum of columns)	48	48	1	0
b. If 40 or more samples collected in month, determine percent of samples that are total coliform positive [(total number positive/total number collected) x 100] =	2.08	%		
c. Did the system trigger... a Level 2 Assessment TT? (see notes 2, 3, 4, 5 and 6 for trigger info)			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If a Level 2 Assessment is triggered, see note 8 below.</i>				
a Level 1 Assessment TT? (see note 7 for trigger info)			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If a Level 1 Assessment is triggered, see note 9 below.</i>				
5. Triggered Source Samples per Groundwater Rule (see notes 12 and 13)		5	0	0
6. Invalidated Samples (Note what samples, if any, were invalidated; who authorized the invalidation; and when replacement samples were collected. Attach additional sheets, if necessary.)				
7. Summary Completed By: Steve Shaw				

Signature 	Title <p style="text-align: center; font-size: 1.2em;">Water Treatment Supervisor</p>	Date <p style="text-align: center; font-size: 1.2em;">10/10/2022</p>
---------------	--	---

NOTES AND INSTRUCTIONS:

1. Routine samples include:
 - a. Samples required pursuant to 22 CCR Section 64423 and any additional samples required by an approved routine sample siting plan established pursuant to 22 CCR Section 64422.
 - b. Extra samples are required for systems collecting less than five routine samples per month that had one or more total coliform positives in previous month;
 - c. Extra samples for systems with high source water turbidities that are using surface water or groundwater under direct influence of surface water and do not practice filtration in compliance with regulations;
2. Note: For a repeat sample following a total coliform positive sample, any *E.coli* positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Division** (22, CCR, Section 64426.1).
3. Note: For repeat sample following a *E.coli* positive sample, any total coliform positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Division** (22, CCR, Section 64426.1).
4. Note: Failure to take all required repeat samples following an *E. coli* positive routine sample (22, CCR, Section 64426.1) **constitutes an MCL violation and requires immediate notification to the Division** (22, CCR, Section 64426.1).
5. Note: Failure to test for *E. coli* when any repeat sample tests positive for total coliform (22, CCR, Section 64426.1) **constitutes an MCL violation and requires immediate notification to the Division** (22, CCR, Section 64426.1).
6. Note: Second Level 1 treatment technique trigger in a rolling 12-month period.
7. Total coliform Treatment Technique (TT) Violation (**Notify Department within 24 hours of TT violation**):
 - a. For systems collecting less than 40 samples, if two or more samples are total coliform positive, then the TT is violated and a Level 1 Assessment is required.
 - b. For systems collecting 40 or more samples, if more than 5.0 percent of samples collected are total coliform positive, then the TT is violated and a Level 1 Assessment is required.
8. Contact the Division as soon as practical to arrange for the division to conduct a Level 2 Assessment of the water system. The water system shall complete a Level 2 Assessment and submit it to the Division within 30 days of learning of the trigger exceedance.
9. Conduct a Level 1 Assessment in accordance with as soon as practical that covers the minimum elements (22, CCR, Section 64426.8 (a), (2)). Submit the report to the Division within 30 days of learning of the trigger exceedance.
10. Positive results and their associated repeat samples are to be tracked on the Coliform Monitoring Worksheet.
11. Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample. At least three samples shall be taken the month following a total coliform positive.
12. For systems subject to the Groundwater Rule: Positive results and the associated triggered source samples are to be tracked on the Coliform Monitoring Worksheet.
13. For triggered sample(s) required as a result of a total coliform routine positive sample, an *E.coli* positive triggered sample (boxed entry) **requires immediate notification to the Division, Tier 1 public notification, and corrective action.**

COLIFORM MONITORING WORKSHEET

(COMPLETED FOR POSITIVE ROUTINE SAMPLES, ALL REPEAT SAMPLES, AND ALL TRIGGERED SOURCE SAMPLES)

Page 1 of 1
Report Month September Year 2022

Routine Samples ⁹			Repeat Samples ⁶				Triggered Source Samples ⁸				
TC+ Sample Date	TC+ Sample Site ID	¹² E. coli Results	Repeat Collection Date	Repeat Sample Site IDs ¹⁰	Coliform Results (Check one box)			Source Sample Date	Groundwater Source(s) Sampled	¹² TC Results	^{11,12} E. coli Results
					TC-	TC+ BUT E. coli-	TC+ AND E. coli+				
9/20/2022	8417 Blackman Wy	(+ -)	9/21/2022	8417 Blackman Wy	X			9/21/2022	W-65 Sheldon	(+ -)	(+ -)
			9/21/2022	8420 Blackman Wy.	X			9/21/2022	W-64 Westray	(+ -)	(+ -)
			9/21/2022	8714 Blackman Wy	X			9/21/2022	W-67 Waterman Rd.	(+ -)	(+ -)
				4				9/21/2022	W-68 Tillotson	(+ -)	(+ -)
		(+ / -)		1				9/21/2022	W-69 Parry Ranch	(+ -)	(+ -)
				2					(+ / -)	(+ / -)	
				3					(+ / -)	(+ / -)	
				4					(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)
				2						(+ / -)	(+ / -)
				3						(+ / -)	(+ / -)
				4						(+ / -)	(+ / -)

Comments:

- NOTES AND INSTRUCTIONS:**
6. Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample.
 8. For triggered sample(s) required as a result of a total coliform routine positive sample, an E. coli, enterococci, or coliphage positive triggered sample (boxed entry) requires immediate notification to the Department, Tier 1 public notification, and corrective action.
 9. Also include any data for positive samples that occurred in the previous month that led to repeat monitoring occurring in the reporting month. Include location and indicate if the routine sample was either positive or negative for E. coli or Fecal Coliforms.
 10. For systems serving ≤ 1000 persons that collect one or fewer routine samples per month, a triggered source water sample may be used as the fourth repeat, as noted in an approved plan, if E. coli was the indicator used. Show result in GW source column too.
 11. The Department recommends using E. coli (see note 8). If enterococci or coliphage is used, note which in the comment box below.
 12. Circle the appropriate result.



October 5, 2022

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento, CA. 95814

MONTHLY SUMMARY OF THE HAMPTON GROUNDWATER TREATMENT PLANT

Enclosed is the Monthly Summary of the Hampton GWTP report from Elk Grove Water District for September 2022.

If you have any further questions, you may contact me at 916-585-9386.

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written over a horizontal line.

STEVE SHAW
WATER TREATMENT SUPERVISOR

Elk Grove Water District

Hampton GWTP Monthly Report

PWS Number 3410008-013

Hampton Water Treatment Plant

Month: September

Date	Hour Meter	Run Hours	Production Meter	Well Production	Backwash Meter	Backwash Waste	Date	Fe, R	Fe, T	Mn, R	Mn, T	As, R	As, T	Weekly Average
last day	24297.3		424172554		30147771	36835376	9/6/2022	0.022	0.042	0.027	0.001	12	2	Weekly Average
1	24321.9	24.6	425545499	1372945	30180205	36873693	9/12/2022	0.002	0.048	0.033	0.011	10	1	Inf. pH 7.0 to 7.0
2	24345.5	23.6	426871608	1326109	30208937	36909253	9/19/2022	0.008	0.024	0.005	0.003	3	<2	Cl2 6.9 to 7.1
3	24369.3	23.8	428205441	1333833	30241356	36945861	9/26/2022	0.013	0.037	0.011	0.006	2	2	Cl2 6.9 to 7.6
4	24393.9	24.6	429570266	1364825	30274026	36984175								
5	24417.7	23.8	430894520	1324254	30302895	37021346								
6	24441.3	23.6	432216312	1321792	30345944	37064185								
7	24466.1	24.8	433595443	1379131	30378270	37103636								
8	24489.2	23.1	434876782	1281339	30407015	37137563								
9	24513	23.8	436206414	1329632	30435808	37173725								
10	24537.6	24.6	437573513	1367099	30468151	37212052								
11	24561.3	23.7	438888408	1314895	30500172	37248077								
12	24585.6	24.3	440230654	1342246	30536578	37289797								
13	24591.8	6.2	440577116	346462	30540179	37298404								
14	24591.8	0	440577116	0	30540179	37298404								
15	24591.8	0	440577116	0	30540179	37298404								
16	24591.8	0	440577116	0	30540179	37298404								
17	24591.8	0	440577116	0	30540179	37298404								
18	24591.8	0	440577116	0	30540179	37298404								
19	24591.8	0	440577116	0	30540179	37298404								
20	24595	3.2	440751017	173901	30550951	37311160								
21	24595	0	440751017	0	30550951	37311160								
22	24595	0	440751017	0	30550951	37311160								
23	24595	0	440751017	0	30550951	37311160								
24	24595	0	440751017	0	30550951	37311160								
25	24595	0	440751017	0	30550951	37311160								
26	24595	0	440751017	0	30550951	37311160								
27	24596.1	1.1	440807959	56942	30550951	37311160								
28	24596.1	0	440807959	0	30550951	37311160								
29	24596.1	0	440807959	0	30550951	37311160								
30	24596.1	0	440807959	0	30550951	37311160								
31		0		0										
Total		298.8		16,635,405	403,180	475,784								

Weekly In-House Monitoring (mg/L) R (Raw) T (Treated) As (ug/L)

Total Gallons Sodium Hypochlorite: 161.6 Gal
Pounds per day 6.516 Lbs/Day
Dosage (Milligrams Per Liter @ 12.5% Cl) 1.8 mg/L

Total Gallons Ferric Chloride: 104.9 Gal
Dosage (Milligrams Per Liter @ 38% FeCl) .65mg/L

Total Gallons Sodium Hydroxide: 131.7 Gal
Dosage (Gallons Per Hour @ 30% NaOH) 0.48 Gal/Hr

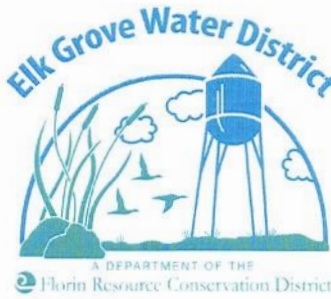
Total Gallons Sulfuric Acid : 102.49 Gal
Dose (Gallons Per Hour @ 93% H2SO4) 0.33 Gal/Hr

Reporting Limits/Units
Iron (Fe) = 0.300 mg/L (Secondary)
Manganese (Mn) = 0.050 mg/L (Secondary)
Arsenic (As) = 10 ug/L (Primary)

Maximum Contaminant Levels (MCLs)
Iron (Fe) = 0.300 mg/L (Secondary)
Manganese (Mn) = 0.050 mg/L (Secondary)
Arsenic (As) = 10 ug/L (Primary)

Total Run Hours 298.8Hours
Total Backwash Waste 475,754Gal

Prepared By: Steve Shaw Date: 10/5/2022



October 5, 2022

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento, Ca. 95814

MONTHLY FLUORIDATION MONITORING REPORT

Enclosed is the Monthly Summary of the Fluoridation Monitoring from Elk Grove Water District for September 2022.

If you have any further questions, you may contact me at 916-585-9386.

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written over a horizontal line.

STEVE SHAW
WATER TREATMENT SUPERVISOR

ELK GROVE WATER DISTRICT AREA 2

DISTRIBUTION SYSTEM MONTHLY FLUORIDATION MONITORING REPORT September 2022

Monitoring Results (mg/L)

Week	Location of Sample	Date	Time	Results
1	Hollow Springs	9/6/2022	9:20 AM	0.52
1	Kapalua	9/6/2022	9:39 AM	0.8
1	Al Gates Park	9/6/2022	10:01 AM	0.71
1	Oreo Ranch	9/6/2022	10:20 AM	0.57
1	Blackman	9/6/2022	12:55 PM	0.57
2	Hollow Springs	9/13/2022	10:22 AM	0.66
2	Kapalua	9/13/2022	10:48 AM	0.58
2	Al Gates Park	9/13/2022	11:05 AM	0.6
2	Oreo Ranch	9/13/2022	11:25 AM	0.60
2	Blackman	9/13/2022	1:00 PM	0.6
3	Hollow Springs	9/20/2022	9:32 AM	0.53
3	Kapalua	9/20/2022	10:15 AM	0.6
3	Al Gates Park	9/20/2022	10:43 AM	0.76
3	Oreo Ranch	9/20/2022	11:07 AM	0.64
3	Blackman	9/20/2022	12:43 PM	0.66
4	Hollow Springs	9/27/2022	9:35 AM	0.56
4	Kapalua	9/27/2022	10:01 AM	0.71
4	Al Gates Park	9/27/2022	10:32 AM	0.46
4	Oreo Ranch	9/27/2022	10:49 AM	0.63
4	Blackman	9/27/2022	12:09 PM	0.72
5	Hollow Springs			
5	Kapalua			
5	Al Gates Park			
5	Oreo Ranch			
5	Blackman			

Monthly fluoride split sample results:

Date: 9/6/2022

Water System Results: 0.52 mg/L

Approved Lab: 0.74 mg/L

Contact Name: Steve Shaw

Telephone : (916) 585-9386

System PWS Number: 3410008



October 5, 2022

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento, CA 95814

**QUARTERLY REPORT FOR DISINFECTANT RESIDUALS COMPLIANCE
MONITORING**

Enclosed is the Quarterly Report for Disinfectant Residuals Compliance Monitoring from Elk Grove Water District for 3rd Quarter 2022.

If you have any further questions, you may contact me at 916-585-9386

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written above the typed name.

STEVE SHAW
WATER TREATMENT SUPERVISOR

Quarterly Report for Disinfectant Residuals Compliance For Systems Using Chlorine or Chloramines

System Name: Elk Grove Water District Area 1

System No.: 3410008

Calendar Year: 2022

Quarter: 3rd

1st Quarter			
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)	
Previous Year	April	0.96	
	May	0.99	
	June	1.00	
	July	0.94	
	August	1.00	
	September	0.99	
	October	0.96	
	November	0.99	
	December	0.89	
	Current Year	January	28 0.85
		February	28 0.79
		March	35 0.89
Running Annual Average (RAA):		0.94	
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

2nd Quarter			
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)	
Previous Year	July	0.94	
	August	1.00	
	September	0.99	
	October	0.96	
	November	0.99	
	December	0.89	
	Current Year	January	0.85
		February	0.79
		March	0.89
		April	28 0.86
		May	35 0.92
		June	28 0.91
Running Annual Average (RAA):		0.92	
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

3rd Quarter			
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)	
Previous Yr	October	0.96	
	November	0.99	
	December	0.89	
Current Year	January	0.85	
	February	0.79	
	March	0.89	
	April	0.86	
	May	0.92	
	June	0.91	
	July	28 0.87	
	August	35 0.82	
	September	28 0.84	
	Running Annual Average (RAA):		0.88
	Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

4th Quarter		
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)
Current Year	January	0.85
	February	0.79
	March	0.89
	April	0.86
	May	0.92
	June	0.91
	July	0.87
	August	0.82
	September	0.84
	October	24 1.02
	November	30 0.96
	December	25 0.90
Running Annual Average (RAA):		0.89
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Comments: The Elk Grove Water District is split into two different water systems. Area 1 water is produced and distributed by Elk Grove Water District.

Signature: 45

Date: October 5, 2022 134

Quarterly Report for Disinfectant Residuals Compliance For Systems Using Chlorine or Chloramines

System Name: Elk Grove Water District Area 2

System No.: 3410008

Calendar Year: 2022

Quarter: 3rd

1st Quarter			
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)	
Previous Year	April	1.19	
	May	1.21	
	June	1.17	
	July	1.14	
	August	1.13	
	September	1.09	
	October	0.94	
	November	0.87	
	December	0.89	
	Current Year	January	20
		February	20
		March	25
Running Annual Average (RAA):		1.06	
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

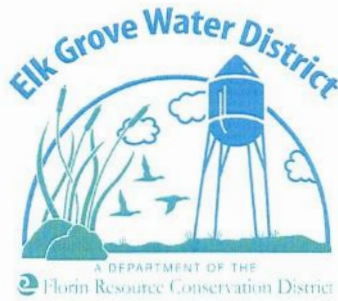
2nd Quarter			
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)	
Previous Year	July	1.14	
	August	1.13	
	September	1.09	
	October	0.94	
	November	0.87	
	December	0.89	
	Current Year	January	0.99
		February	1.01
		March	1.06
		April	21
		May	25
		June	20
Running Annual Average (RAA):		1.05	
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

3rd Quarter		
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)
Previous Yr	October	0.94
	November	0.87
	December	0.89
Current Year	January	0.99
	February	1.01
	March	1.06
	April	1.09
	May	1.20
	June	1.21
	July	20
	August	25
	September	21
Running Annual Average (RAA):		1.09
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

4th Quarter		
Month	Number of Samples Taken	Monthly Avg. Chlorine Level (mg/L)
Current Year	January	0.99
	February	1.01
	March	1.06
	April	1.09
	May	1.20
	June	1.21
	July	1.29
	August	1.20
	September	1.38
	October	16
	November	20
	December	19
Running Annual Average (RAA):		1.14
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Comments: The Elk Grove Water District is split into two different water systems. Area 2 is whole sale water from Sacramento County Water Agency.

Signature:



October 4, 2022

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento, Ca. 95814

QUARTERLY SUMMARY OF RAW GROUNDWATER COLIFORM MONITORING

Enclosed is the Quarterly Summary of Raw Groundwater Coliform Monitoring report from Elk Grove Water District for 3rd Quarter 2022.

If you have any further questions, you may contact me at 916-585-9386.

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written above the printed name.

STEVE SHAW
WATER TREATMENT SUPERVISOR

QUARTERLY SUMMARY OF RAW GROUNDWATER COLIFORM MONITORING

Samples must be taken prior to chlorination

Water System Name

Elk Grove Water District

Water System Number

3410008

Sampling Period:

Month July - September/ 3rd Quarter

Year 2022

Well Name	Status (On/Off)	Sample Time & Date	Total Coliforms (P/A, CFU or MPN)	<i>E. coli</i> (P/A, CFU or MPN)
Well # 1D School St.	ON	7/15/2022 11:03	A	A
Well # 4D Webb St.	ON	7/14/2022 8:50	A	A
Well # 11D Dino Dr.	ON	7/6/2022 8:42	A	A
Well 14D Railroad St.	ON	7/6/2022 8:28	A	A
Well # 8 Williamson	ON	7/26/2022 9:00	A	A
Well # 9 Polhemus	ON	7/6/2022 9:00	A	A
Well # 13 Hampton	ON	7/5/2021 10:15	A	A



October 4, 2022

State Water Resources Control Board
Division of Drinking Water
1001 I Street
13th Floor
Sacramento CA. 95814

QUARTERLY TTHM AND HAA5 REPORT FOR DISINFECTION BYPRODUCTS COMPLIANCE

Enclosed is the Quarterly TTHM and HAA5 Report from Elk Grove Water District for the 3rd quarter 2022.

If you have any further questions, you may contact me at 916-585-9386.

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written over a light blue horizontal line.

STEVE SHAW
WATER TREATMENT SUPERVISOR

Quarterly TTHM Report for Disinfection Byproducts Compliance (in µg/L or ppb)

System Name: Elk Grove Water District System No.: 3410008 Year: 2022 Quarter: 3

Year:	2018				2019				2020				2021				2022			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Quarter:	1/10	4/10	7/3	10/9	1/15	4/9	7/16	10/22	2/4	4/7	7/14	10/6	1/19	4/6	7/6	10/5	1/11	4/5	7/12	
Sample Date (month/date):	1	3	0	0	45	38	0	1	1	31	0	3	1	40	0	0	0	0	0	0
Site Q1 TTHM Results	1	2	1	1	12	21	21	21	10	8	8	9	9	11	11	10	10	0	0	0
Lcn. Running Annual Average	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Meets Standard? ¹ (check box)	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>
Projected LRAA Next Quarter	N/A	N/A	N/A	N/A	23	30	21	10	1	16	8	9	1	21	10	10	0	0	0	0
Op Evaluation Req'd ² (check box)	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Site Q2 TTHM Results	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lcn. Running Annual Average	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Meets Standard? ¹ (check box)	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>
Projected LRAA Next Quarter	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Op Evaluation Req'd ² (check box)	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Site Q3 TTHM Results	2	1	0	0	2	0	0	1	2	2	1	2	2	1	1	1	0	0	0	0
Lcn. Running Annual Average	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Meets Standard? ¹ (check box)	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>
Projected LRAA Next Quarter	N/A	N/A	N/A	N/A	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
Op Evaluation Req'd ² (check box)	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Site Q4 TTHM Results	1	1	0	1	3	1	0	0	2	3	0	1	1	1	1	0	0	0	0	0
Lcn. Running Annual Average	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Meets Standard? ¹ (check box)	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>
Projected LRAA Next Quarter	N/A	N/A	N/A	N/A	2	2	1	0	1	2	1	1	1	1	1	1	0	0	0	0
Op Evaluation Req'd ² (check box)	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>
Quarterly Average	1	2	0	0	17	13	0	1	2	12	0	2	1	14	1	0	0	0	0	0
No. Samples This Quarter	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Identify the sample locations in the table below.

Site	Sample Location
Q1	9436 Hollow Springs
Q2	
Q3	8693 W. Camden
Q4	9230 Amsden Ct

Comments:

¹ Meets Standard - LRAA, calculated quarterly, is less than 80 ug/L

² Operation Evaluation Req'd - Projected LRAA, calculated quarterly, is greater than 80 ug/L

Signature:  Date: October 4, 2022

*If, during the first year of monitoring, any individual quarter's average will cause the running annual average of that system to exceed the standard, then the system is out of compliance at the end of that quarter.

Quarterly HAA5 Report for Disinfection Byproducts Compliance (in µg/L or ppb)

System Name: **Elk Grove Water District** System No.: **3410008** Year: **2022** Quarter: **3**

Year:	2018				2019				2020				2021				2022			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Quarter:	1/10	4/10	7/3	10/9	1/15	4/9	7/16	10/22	2/4	4/7	7/14	10/6	1/19	4/6	7/6	10/5	1/11	4/5	7/12	
Sample Date (month/date):	0	0	0	0	29	28	0	0	0	19	0	0	0	21	0	0	0	0	0	0
Site Q1 HAA5 Results	0	0	0	0	7	14	14	14	7	5	5	5	5	5	5	5	5	0	0	0
Ln. Running Annual Average	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meets Standard? ¹	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	N/A	N/A	N/A	N/A	0	15	21	14	7	0	10	5	5	0	11	5	5	0	0	0
Projected LRAA Next Quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Op Evaluation Req'd ²	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Site Q2 HAA5 Results	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ln. Running Annual Average	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meets Standard? ¹	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Projected LRAA Next Quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Op Evaluation Req'd ²	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site Q3 HAA5 Results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ln. Running Annual Average	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meets Standard? ¹	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected LRAA Next Quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Op Evaluation Req'd ²	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site Q4 HAA5 Results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ln. Running Annual Average	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meets Standard? ¹	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected LRAA Next Quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Op Evaluation Req'd ²	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Site Q4 HAA5 Results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ln. Running Annual Average	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meets Standard? ¹	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected LRAA Next Quarter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Op Evaluation Req'd ²	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
(check box)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Quarterly Average	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
No. Samples This Quarter																				

Identify the sample locations in the table below.

Site	Sample Location
Q1	9436 Hollow Springs
Q2	
Q3	8693 W. Camden
Q4	9230 Amsden Ct

Comments:

¹ Meets Standard - LRAA, calculated quarterly, is less than 60 ug/L
² Operation Evaluation Req'd - Projected LRAA, calculated quarterly, is greater than 60 ug/L

Signature: 

Date: October 4, 2022

Date

*If, during the first year of monitoring, any individual quarter's average will cause the running annual average of that system to exceed the standard, then the system is out of compliance at the end of that quarter.

Elk Grove Water District

Preventative Maintenance Program

Groundwater Wells

Monthly												Semi-annual			Annual			
Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2022	
Well 14D Railroad	Initials	AH	BW	AH	AH	BW	AH	AH	AH				Sect: 7.1	Sect: 7.2	AH	6/21/22	20834	Sect: 7.3
	Date	1/3/22	2/24/22	3/2/22	4/14/22	5/16/22	6/22/22	7/13/22	8/11/22	9/22/22								
	W.O.#	20385	20463	20536	20622	20689	20827	20915	20972	21108								
Well 4D Webb	Initials	AH	BW	BW	AH	AH	BW	BW	BW				Sect: 8.1	Sect: 8.2	AH/BW	6/16/22	20835	Sect: 8.3
	Date	1/4/22	2/11/22	3/10/22	4/14/22	5/4/22	6/30/22	7/15/22	8/1/22	9/14/22								
	W.O.#	20386	20464	20537	20623	20690	20828	20916	20973	21109								
Well 11D Dino	Initials	AH	AH	AH	AH	BW	AH	AH	BW	AH			Sect: 9.1	Sect: 9.2	AH	6/21/22	20836	Sect: 9.3
	Date			3/28/22	4/19/22	5/2/22	6/27/22	7/12/22	8/1/22	9/22/22								
	W.O.#	20387	20465	20538	20624	20691	20829	20917	20974	21110								
Well 1D School	Initials	AH	BW	AH	AH	AH	AH	AH	AH				Sect: 13.1	Sect: 13.2	AH/BW	6/16/22	20837	Sect: 13.3
	Date	1/5/22	2/24/22	3/1/22	4/19/22	5/20/22	6/27/22	7/13/22	8/11/22	9/22/22								
	W.O.#	20388	20466	20539	20625	20692	20830	20918	20975	21111								
Well 8 Williamson	Initials	BW	BW	BW	BW	BW	BW	BW	BW				Sect: 11.1	Sect: 11.4				Sect: 11.4
	Date	1/6/22	2/7/22	3/2/22	4/19/22	5/2/22	6/6/22	7/14/22	8/1/22	9/8/22								
	W.O.#	20389	20467	20540	20626	20693	20831	20919	20976	21112								
Well 9 Polhemus	Initials	BW	BW	BW	BW	BW	BW	BW	BW				Sect: TBD	Sect: TBD				Sect: TBD
	Date	1/3/22	2/7/22	3/2/22	4/4/22	5/5/22	6/6/22	7/1/22	8/1/22	9/12/22								
	W.O.#	20390	20468	20541	20627	20694	20832	20920	20977	21113								
Well 13 Hampton	Initials	AH	AH	AH	AH	AH	AH	BW	BW				Sect: TBD	Sect: TBD	AH/BW	6/16/22	20838	Sect: TBD
	Date	1/6/22	2/22/22	3/28/22	4/4/22	5/18/22	6/22/22	7/18/22	8/2/22	9/12/22								
	W.O.#	20391	20469	20542	20628	20695	20833	20921	20978	21114								

█ = Well Rehab.

Year: 2022

Elk Grove Water District

Preventative Maintenance Program

Railroad Water Treatment and Storage

Facility

Item	Monthly												Quarterly				Semi-annual		Annual		
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd	4th	1st	2nd	Refer.	2022
Clor-Tec System	Section: 4.2	AH/BW 1/14/22 20392	AH 2/17/22 20477	AH 3/7/22 20547	AH 4/22/22 20633	AH 5/19/22 20681	AH 6/22/22 20850	AH 7/25/22 20905	AH 8/11/22 20979	AH 9/26/22 21121				AH 2/9/22 20481	AH 4/22/22 20637	AH 7/11/22 20909			Section: 4.3	4.4	
Filter System	Section: 5.1	AH/BW 1/12/22 20393	AH 2/11/22 20478	AH 3/9/22 20548	AH/BW 4/18/22 20634	AH 5/17/22 20682	AH 6/14/22 20851	AH 7/28/22 20906	AH/BW 8/10/22 20980	AH/BW 9/22/22 21122				AH 6/30/22 20847					Section: 5.2	5.3	
Backwash System	Section: 2.1	BW 1/28/22 20394	AH 2/15/22 20479	BW 3/9/22 20549	BW 4/25/22 20635	AH 5/18/22 20683	AH 6/28/22 20852	AH 7/25/22 20907	BW 8/8/22 20981	AH/BW 9/22/22 21123				AH 6/16/22 20848					Section: 2.2	Section: 2.3	
Booster Pumps	Section: 3.1	BW 1/19/22 20395	AH 2/11/22 20480	BW 3/7/22 20550	BW 4/25/22 20636	BW 5/9/22 20684	AH 6/29/22 20853	BW 7/25/22 20908	BW 8/11/22 20982	BW 9/26/22 21124				AH/BW 6/29/22 20846					Section: TBD	Section: 3.2	
LAB		Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Section: 1.1	Section: 2.4	Section: 1.2
Clear Wells		Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Section: 1.1	Section: 2.4	Section: 1.2
MCC		Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Initials Date W.O. #	Section: 1.1	Section: 2.4	Section: 1.2

Year: 2022

Elk Grove Water District

Preventative Maintenance Program

Hampton Village Water Treatment Plant

Item	Monthly												Quarterly			Semi-annual		Annual				
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd	4th	Refer.	1 ST 6 TH MO.	2 ND 6 TH MO.	Refer.	2022
Chemical Systems	Section: TBD	Initials Date W.O. #	AH 1/6/22 20396	AH 2/15/22 20470	AH 3/3/22 20552	AH 4/27/22 20638	AH 5/18/22 20678	AH 6/22/22 20839	AH 7/18/22 20902	BW 8/2/22 20983	AH 9/19/22 21115			AH 3/3/22 20555	AH 6/22/22 20842	AH 8/18/22 21037		Section: TBD			Section: TBD	
Filter System	Section: TBD	Initials Date W.O. #	AH 1/6/22 20397	AH 2/15/22 20471	AH 3/3/22 20553	AH 4/27/22 20639	AH 5/18/22 20679	AH 6/22/22 20840	AH 7/18/22 20903	BW 8/2/22 20984	AH 9/19/22 21116			Section: TBD	AH 6/30/22 20844			Section: TBD			Section: TBD	
Backwash System	Section: TBD	Initials Date W.O. #	AH 1/6/22 20398	AH 2/15/22 20472	AH 3/3/22 20554	AH 4/27/22 20640	AH 5/18/22 20680	AH 6/22/22 20841	BW 7/18/22 20904	AH 8/2/22 20985	AH 9/19/22 21117			Section: TBD	AH 6/30/22 20845			Section: TBD			Section: TBD	
LAB		Initials Date W.O. #												Section: TBD	AH 3/3/22 20556	AH 6/22/22 20843	AH 8/24/22 21038				Section: TBD	
MCC		Initials Date W.O. #																				

Elk Grove Water District

Preventative Maintenance Program

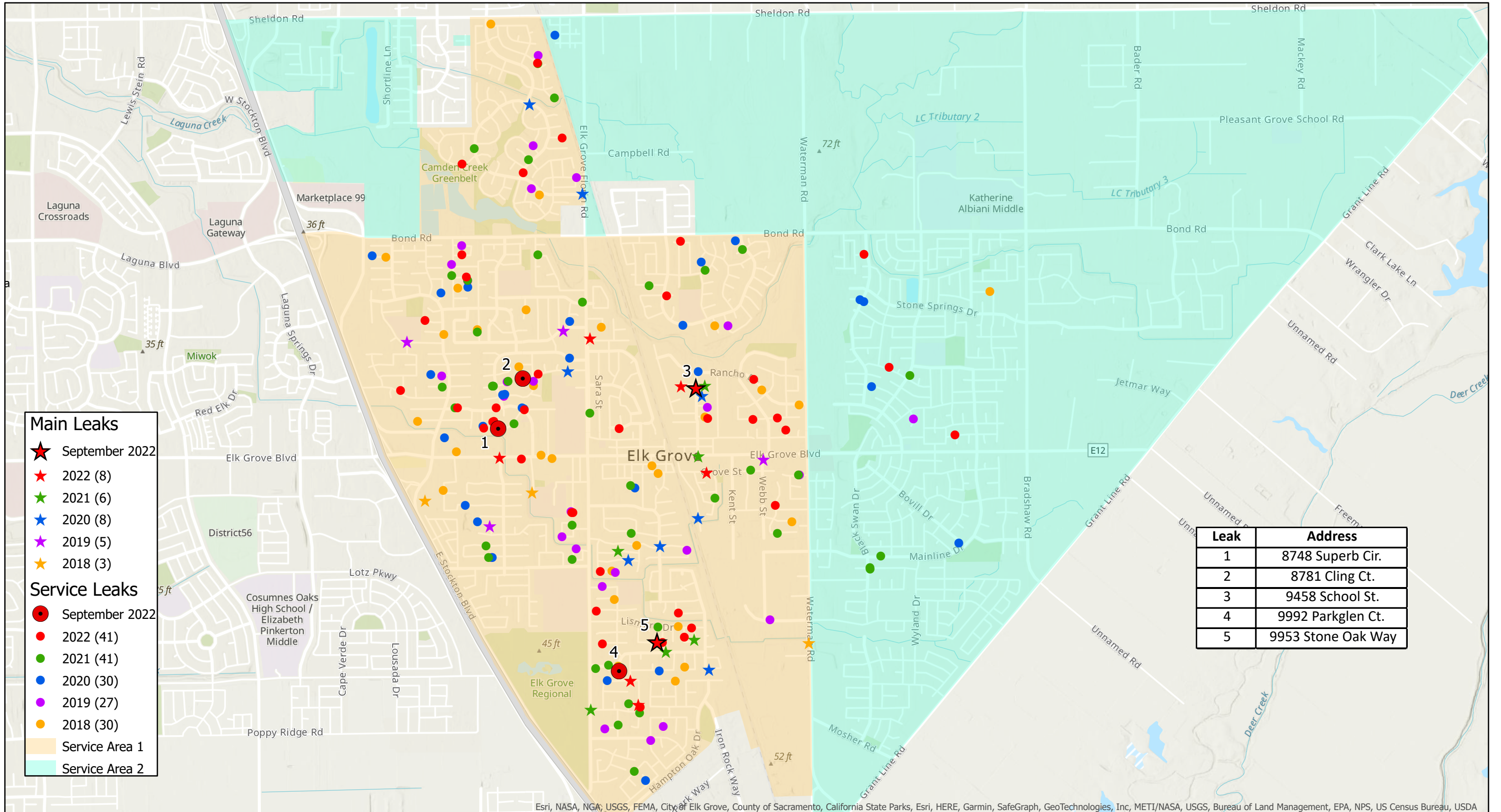
Standby Generators

Item	Monthly												Annual		
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2022
Railroad	Initials	AH	AH	AH	AH	AH	AH	AH/BW	AH	AH				Section: TBD	
	Date	1/14/22	2/22/22	3/25/22	4/26/22	5/20/22	6/23/22	7/28/22	8/11/22	9/28/22					
	W.O. #	20399	20473	20543	20629	20685	20854	20911	20986	21118					
Webb	Initials	AH	BW	BW	AH/BW	BW	AH	AH	BW	AH				Section: TBD	BW
	Date	1/12/22	2/10/22	3/2/22	4/27/22	5/9/22	6/28/22	7/26/22	8/17/22	9/27/22					8/17/22
	W.O. #	20400	20474	20544	20630	20686	20855	20912	20987	21119					21033
Dino	Initials	AH	BW	BW	AH/BW	BW	AH	AH	BW	AH				Section: TBD	BW
	Date	1/12/22	2/23/22	3/7/22	4/25/22	5/2/22	6/27/22	7/20/22	8/17/22	9/22/22					8/17/22
	W.O. #	20401	20475	20545	20631	20687	20856	20913	20988	21120					21035

 = Load test

Elk Grove Water District
 Safety Meetings/Training
 September 2022

Date	Topic	Attendees	Hosted By
9/12/2022	Fatigue On The Job	Alan Aragon, Stefan Chanh, David Frederick, Sean Hinton, Brandon Kent, Justin Mello, Jose Mendoza, Sal Mendoza, Michael Montiel, Chris Phillips, Steve Shaw, John Vance, Brandon Wagner, Marcell Wilson, Vue Xiong	Steve Shaw & Sean Hinton
9/26/2022	Heat Illness	Alan Aragon, David Frederick, Jaylyn Gordon-Ford, Aaron Hewitt, Sean Hinton, James Hinegardner, Brandon Kent, Jose Mendoza, Sal Mendoza, Michael Montiel, Chris Phillips, Steve Shaw, John Vance, Brandon Wagner, Marcell Wilson, Vue Xiong	Steve Shaw & Sean Hinton



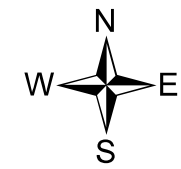
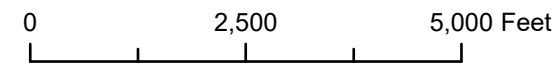
- Main Leaks**
- ★ September 2022
 - ★ 2022 (8)
 - ★ 2021 (6)
 - ★ 2020 (8)
 - ★ 2019 (5)
 - ★ 2018 (3)
- Service Leaks**
- September 2022
 - 2022 (41)
 - 2021 (41)
 - 2020 (30)
 - 2019 (27)
 - 2018 (30)
- Service Area 1
 Service Area 2

Leak	Address
1	8748 Superb Cir.
2	8781 Cling Ct.
3	9458 School St.
4	9992 Parkglen Ct.
5	9953 Stone Oak Way

September 2022	
Main Line Leaks: 2	YTD: 8
Service Line Leaks: 3	YTD: 41
Total Leaks: 5	YTD: 49

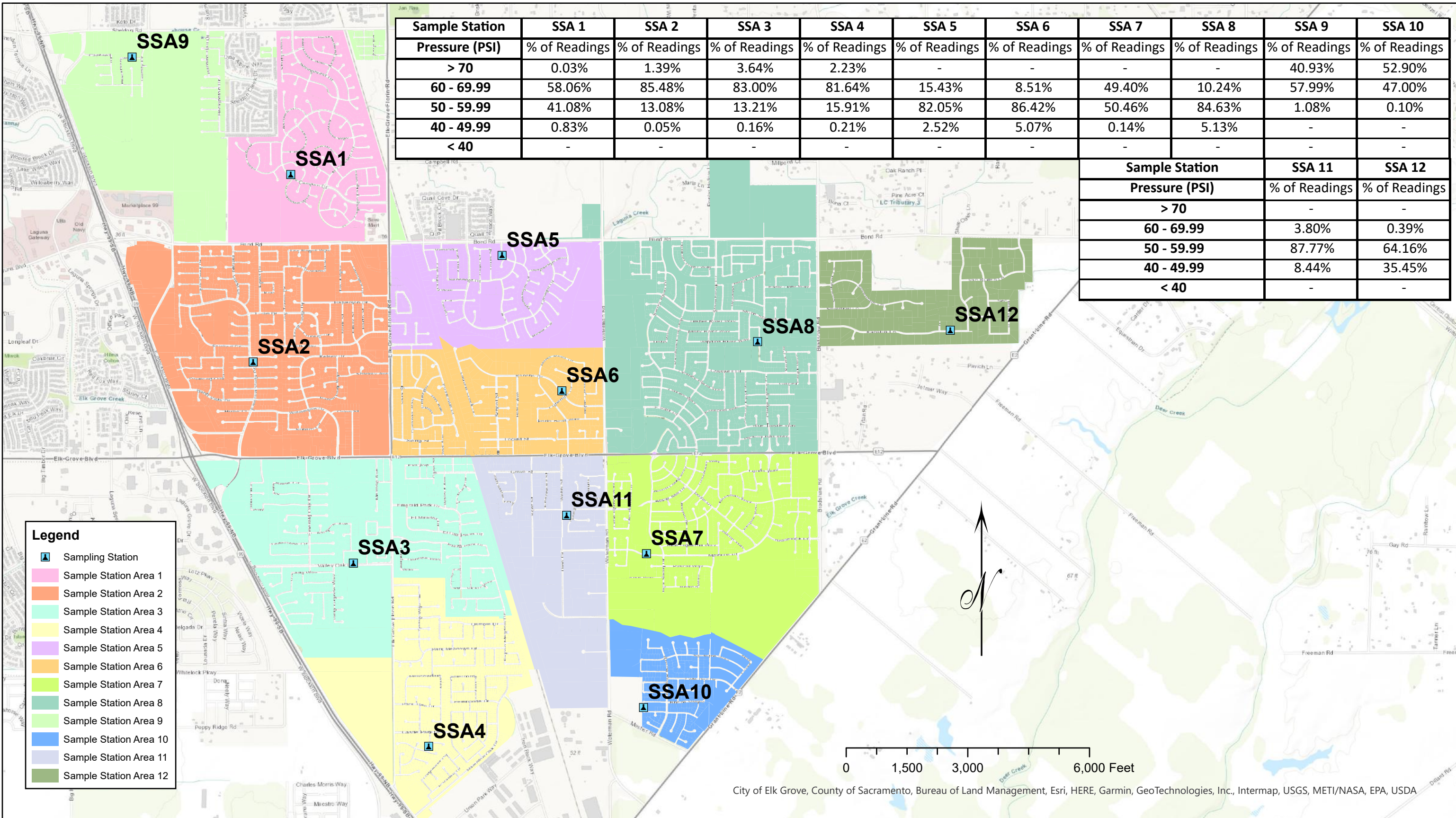


Elk Grove Water District Main and Service Line Leaks Map



Elk Grove Water District Main & Service Line Leaks Created by: Richard Ko Date: October 6, 2022
--














Esri, NASA, NGA, USGS, FEMA, City of Elk Grove, County of Sacramento, California State Parks, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA



Sample Station	SSA 1	SSA 2	SSA 3	SSA 4	SSA 5	SSA 6	SSA 7	SSA 8	SSA 9	SSA 10
Pressure (PSI)	% of Readings	% of Readings	% of Readings	% of Readings	% of Readings	% of Readings	% of Readings	% of Readings	% of Readings	% of Readings
> 70	0.03%	1.39%	3.64%	2.23%	-	-	-	-	40.93%	52.90%
60 - 69.99	58.06%	85.48%	83.00%	81.64%	15.43%	8.51%	49.40%	10.24%	57.99%	47.00%
50 - 59.99	41.08%	13.08%	13.21%	15.91%	82.05%	86.42%	50.46%	84.63%	1.08%	0.10%
40 - 49.99	0.83%	0.05%	0.16%	0.21%	2.52%	5.07%	0.14%	5.13%	-	-
< 40	-	-	-	-	-	-	-	-	-	-

Sample Station	SSA 11	SSA 12
Pressure (PSI)	% of Readings	% of Readings
> 70	-	-
60 - 69.99	3.80%	0.39%
50 - 59.99	87.77%	64.16%
40 - 49.99	8.44%	35.45%
< 40	-	-

Legend

-  Sampling Station
-  Sample Station Area 1
-  Sample Station Area 2
-  Sample Station Area 3
-  Sample Station Area 4
-  Sample Station Area 5
-  Sample Station Area 6
-  Sample Station Area 7
-  Sample Station Area 8
-  Sample Station Area 9
-  Sample Station Area 10
-  Sample Station Area 11
-  Sample Station Area 12

City of Elk Grove, County of Sacramento, Bureau of Land Management, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, METI/NASA, EPA, USDA

Sample Stations: 12

September 2022



Elk Grove Water District
Sample Station Areas

Projected Coordinate System: NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS Database

Modified by: Richard Ko

October 6, 2022