

JOINT POWERS AUTHORITY BOARD MEETING

Oroville City Council Chambers
1735 Montgomery Street
Oroville, CA. 95965



May 25, 2023
REGULAR MEETING
OPEN SESSION 2:00 PM
AGENDA

REQUESTS TO ADDRESS BOARD

If you would like to address the Board at this meeting, you are requested to complete the blue speaker request form (located on the wall by the agendas) and hand it to the Board Clerk, who is seated on the right of the Council Chamber. The form assists the Clerk with minute taking and assists the Board in conducting an orderly meeting. Providing personal information on the form is voluntary. For scheduled agenda items, **please submit the form prior to the conclusion of the staff presentation for that item.** Pursuant to Government Code Section 54954.2, the Board is prohibited from taking action except for a brief response from the Board or staff to statements or questions relating to a non-agenda item.

Attend in-person or listen in by one of the methods listed below. The zoom option is for viewing purposes only.

- Zoom Link: <https://zoom.us/j/91028842432?pwd=TVh4SIFHbUhyTG9oeXFnejFWUjEwZz09>
- By Phone – 1-669-900-6833 Passcode: 17351735
- Zoom Application: Meeting ID: 91028842432 Passcode: 17351735
- Email comments accepted until 12pm to publiccomment@cityoforoville.org

CALL TO ORDER / ROLL CALL

1. **Pledge of Allegiance**

2. **Roll Call**

Board Members: Bill Connelly, Janet Goodson, William Bynum, Kyle Daley, Bruce Wristen

Staff Management Team: Butte County – Kamie Loeser, Christina Buck TWSD – Chris Heindell, Oroville – Matt Thompson, Josh Freitas

REGULAR BUSINESS

3. ***The Board may Approve the Minutes of the May 11, 2023 Special Board Meeting.**

Action: Approval of the meeting minutes.

4. ***Presentation of the 2022 Annual Report for the Wyandotte Creek Subbasin** (Kelly Peterson, Butte County and Luthorff Scalmanini Consulting Engineers)

Recommendation: Accept for information.

5. ***Consideration of the Final Fee Report Regarding Long-Term Funding for the Wyandotte Creek GSA** (Kamie Loeser, Butte County and LSCE)

The Board will consider the final Fee Report prepared by the consultant.

Recommended Action: That the Board select a Fee option, approve the 2023 Fee Report, and schedule a public hearing for July 27, 2023

6. **Consideration to cancel the June Board meeting and hold a public workshop instead**
(Kamie Loeser, Butte County)

Recommended Action: That the Board cancel the Board meeting and approve scheduling a public workshop.

REPORTS AND CORRESPONDENCE

7. **Verbal Management Committee Updates** (staff)

*7.1 Butte County Public Health Department Quarterly Well Permit Summary

PUBLIC COMMENT- NON-AGENDA ITEMS

This is the time for the public to address the Board on items not listed on the agenda. The Wyandotte Creek GSA Board is prohibited by State law from taking action on any item presented if it is not listed on the agenda. Comments will be limited to three minutes per person.

ADJOURN THE MEETING

The meeting will be adjourned to a regular meeting of the Wyandotte Creek GSA Board to be held on July 27, 2023 at 2:00 pm.

Accommodating Those Individuals with Special Needs – In compliance with the Americans with Disabilities Act, the City of Oroville encourages those with disabilities to participate fully in the public meeting process. If you have a special need in order to allow you to attend or participate in our public meetings, please contact the Board Clerk at (530) 538-2535, well in advance of the regular meeting you wish to attend, so that we may make every reasonable effort to accommodate you. Documents distributed for public session items, less than 72 hours prior to meeting, are available for public inspection at City Hall, 1735 Montgomery Street, Oroville, California.

Recordings - All meetings are audio recorded.

*Materials attached

JOINT POWERS AUTHORITY BOARD MEETING

Oroville City Council Chambers
1735 Montgomery Street
Oroville, CA. 95965



May 11, 2023
SPECIAL MEETING
MINUTES

This agenda was posted on Thursday, May 4, 2023. This meeting was recorded and may be viewed at cityoforoville.org

CALL TO ORDER / ROLL CALL

Chairperson Connelly opened the meeting at 10:05 AM.

1. **Pledge of Allegiance** -Led by Chairperson Connelly

2. **Roll Call**

PRESENT: Board Members: Bill Connelly, William Bynum, Kyle Daley, Bruce Wristen

Staff Management Team: Butte County – Kamie Loeser, TWSD – Chris Heindell, Oroville – Matt Thompson, Josh Freitas

ABSENT: Board Members: Janet Goodson

REGULAR BUSINESS

3. ***The Board may Approve the Minutes of the April 27, 2023, Board Meeting.**

Motion by Board Member Daley and seconded by Board Member Wristen to approve the minutes of April 27, 2023. Motion passed unanimously.

4. **Consideration of Wyandotte Creek GSA Fee Options for Long-Term Funding**

The Management Committee and funding consultant discussed multiple funding options to fulfill the Wyandotte Creek GSA's revenue needs and direct consultant to include approved funding options in Fee Report.

Motion by Board Member Wristen and seconded by Board Member Daley to instruct the funding consultant to include two funding options, Irr/Non-Irr (1) and Irr/Non-Irr (2) in the Fee Report. Motion passed unanimously.

REPORTS AND CORRESPONDENCE

5. **Verbal Management Committee Updates** - None

PUBLIC COMMENT- NON-AGENDA ITEMS

There were 0 public speakers at this meeting.

ADJOURN THE MEETING

Chairperson Connelly adjourned the meeting at 11:19 am.

Chairperson Bill Connelly

Manager Kamie Loeser

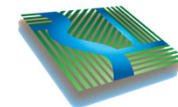
Wyandotte Creek Subbasin Board Meeting WY 2022 Annual Report Update

Eddy Teasdale, PG, CHG (LSCE)

May 25th, 2023







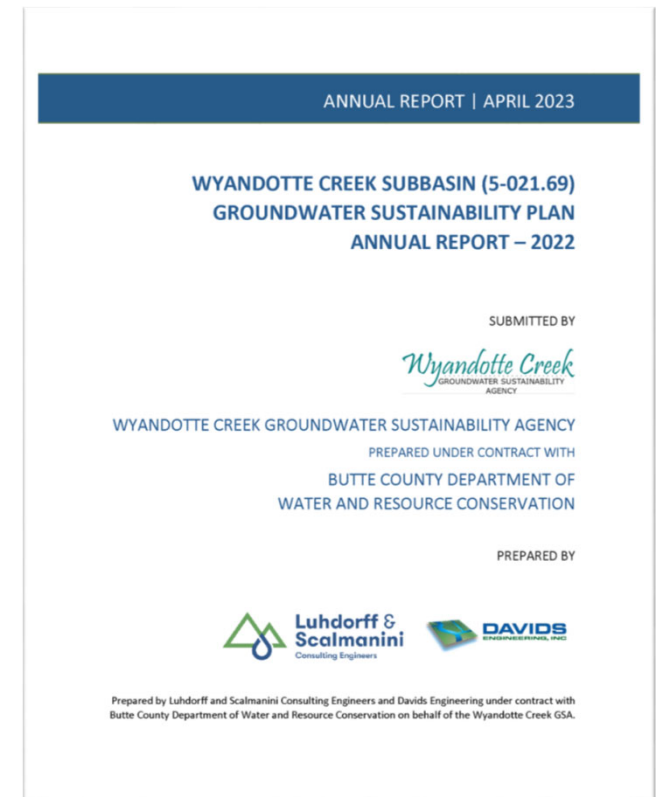
**Luhdorff &
Scalmanini**
Consulting Engineers



DAVIDS
ENGINEERING, INC

Where are We Headed Today?

-  **Overview / Hydrological and Water Supply Conditions**
-  **Groundwater Conditions**
-  **Water Supply and Water Use (Water Budget)**
-  **Progress Towards GSP Implementation**

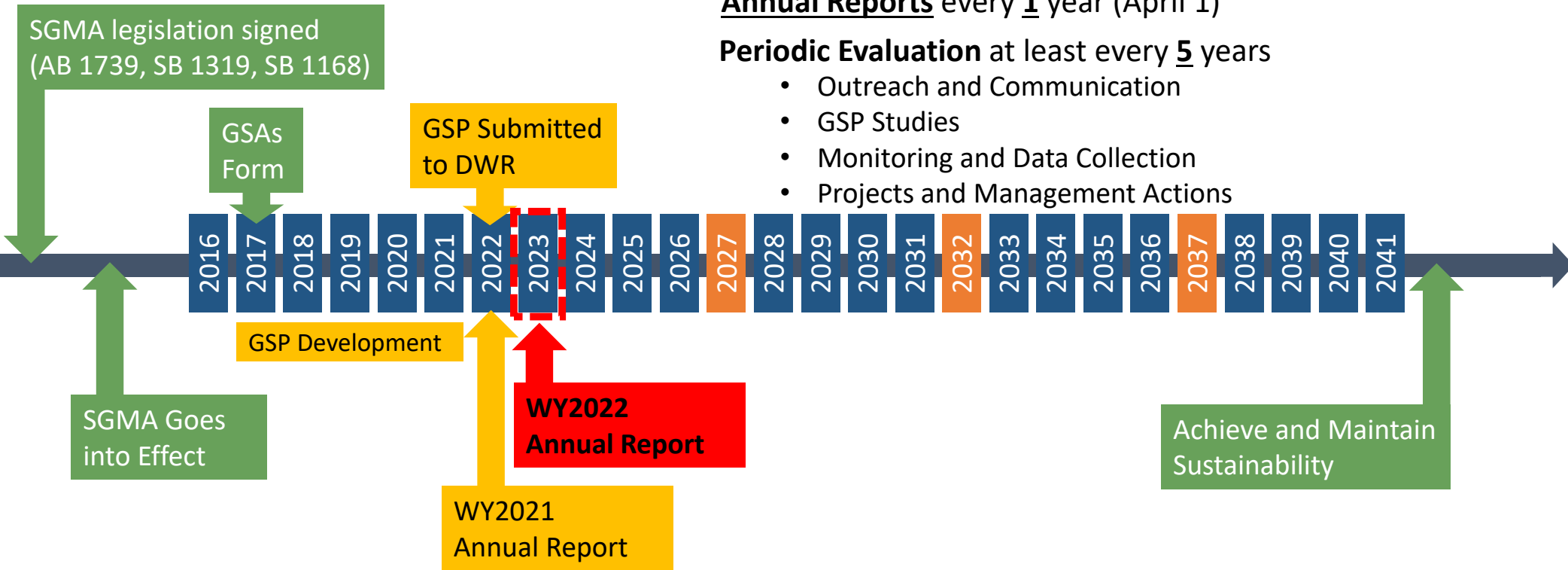


Annual Report Requirements

- **Updates on Groundwater Conditions**
 - Groundwater Elevation (Hydrographs, Contour Maps)
 - Change in Groundwater Storage
- **Water Supply and Water Use**
 - Groundwater Extraction
 - Surface Water Supplies
 - Total Water Use
- **Progress Toward Plan Implementation**
(e.g., implementation of planned projects and management actions)



Overview – SGMA Implementation Timeline



Annual Reports every 1 year (April 1)

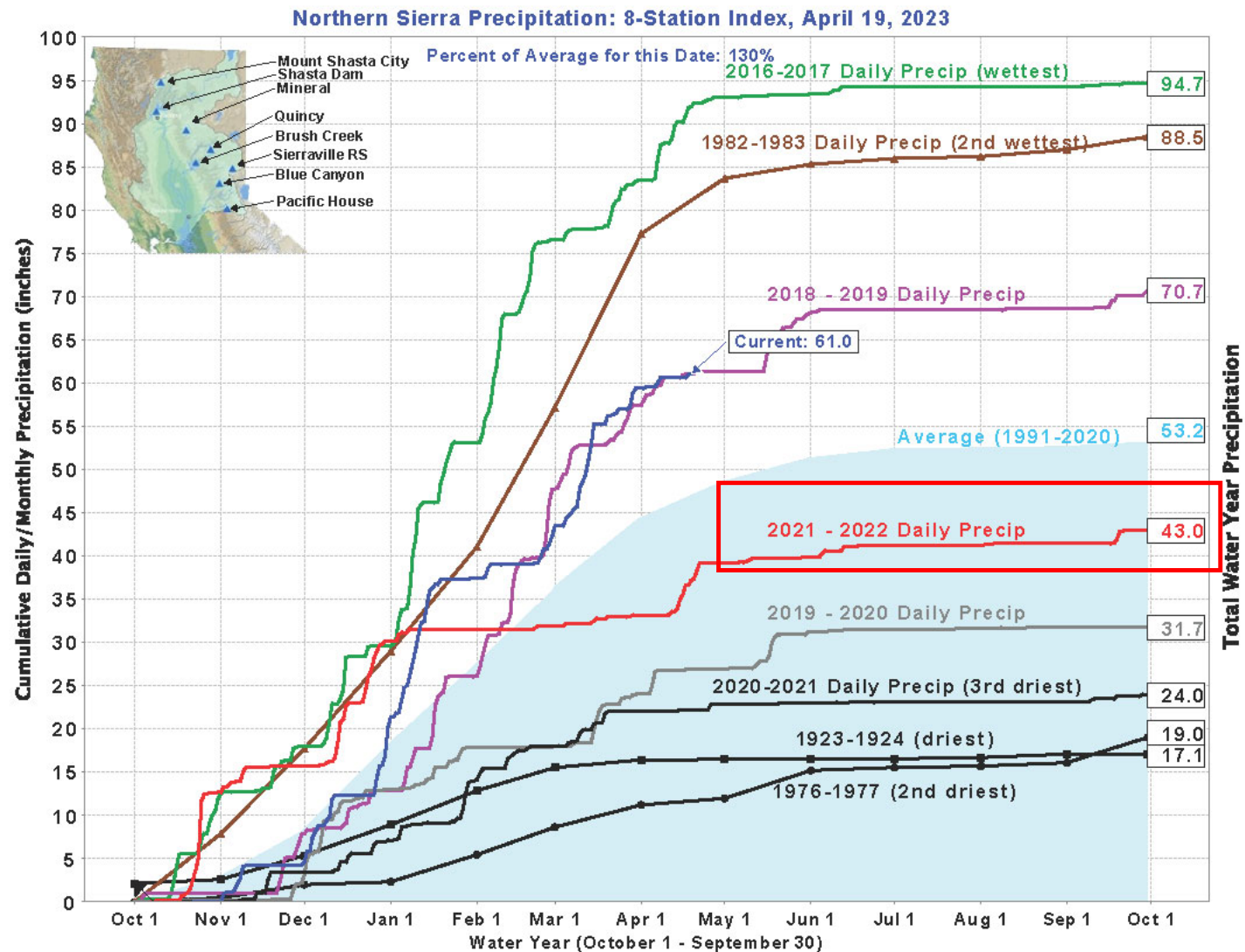
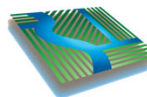
Periodic Evaluation at least every 5 years

- Outreach and Communication
- GSP Studies
- Monitoring and Data Collection
- Projects and Management Actions



2022 WY Conditions

- Classified as a “Critical Dry Year”
 - Below average precipitation (CDEC, 2023 graph)
- Statewide conditions at end of WY
 - Total Annual Precipitation: 17.9” or 76% of historical average.
 - Total Reservoir Storage: 14.7 MAF or 69% of historical average.
 - Snowpack at 64% historical average annual max.
- Sacramento River Region unimpaired runoff, 64% of average (6.7 million acre-feet; DWR, 2022)



Overview of 2022 Regional Water Supplies

- **Drought conditions have resulted in reduced surface water supplies and curtailment of water rights by the State Water Resource Control Board throughout the region.**
 - **Reports of Dry / Reduced Capacity Wells***
 - 4 to DWR Dry Well Reporting System (voluntary) within the Subbasin
 - 2 to Butte County EH (only from applications for new wells or deepening / repair)
 - 20 to the Butte County Drought Assistance Program (water tanks / water deliveries)
- * These do not sum up for a total, there is likely overlap, residents reporting to multiple programs



Groundwater Conditions

- **Groundwater Elevations**
 - **9 Representative Monitoring Site (RMS) Wells.**
 - **Domestic, irrigation, and observation wells.**
- **Groundwater Storage**
 - **Calculated utilizing RMS wells**



Lowering
Groundwater Levels

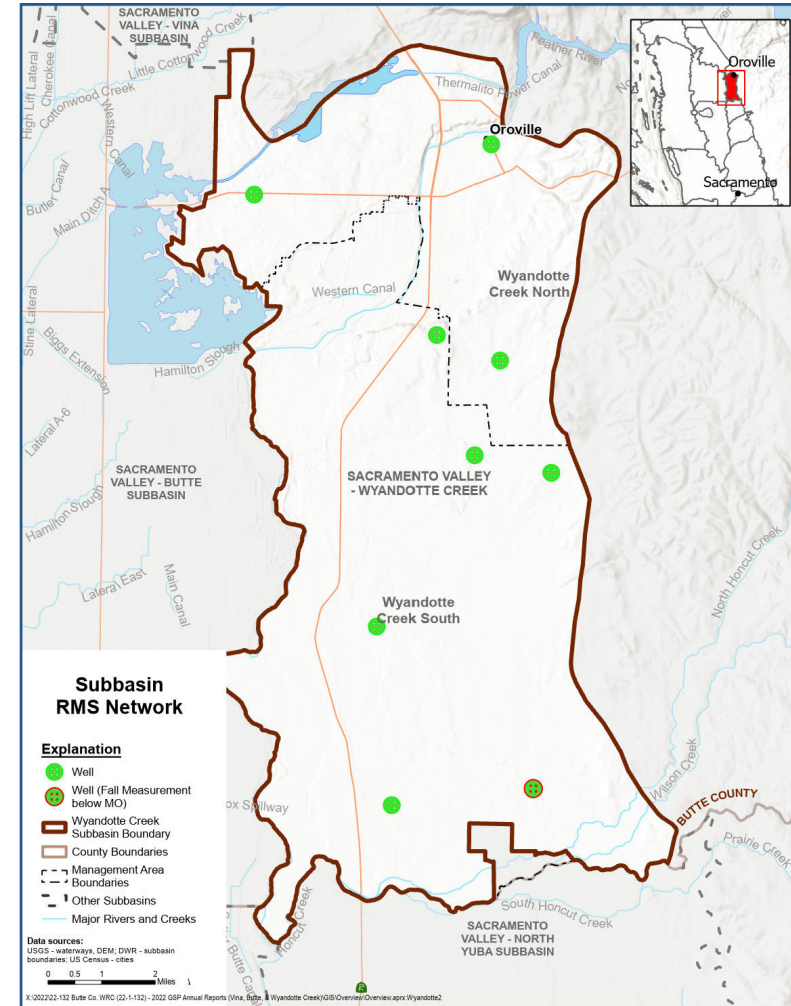


Reduction of Storage

Groundwater Conditions – Groundwater Elevations

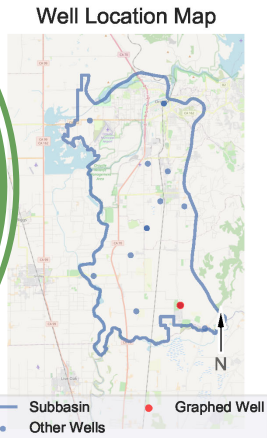
Groundwater Elevations

- **9 Representative Monitoring Sites (RMS) Wells**
 - **3 - North Management Area**
 - **6 - South Management Area**
- **1 well had measurements below the MO in Fall of 2022.**



Groundwater Conditions – Groundwater Elevations

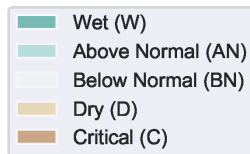
WYANDOTTE CREEK Subbasin - State Well Number (SWN): 17N04E09N002M



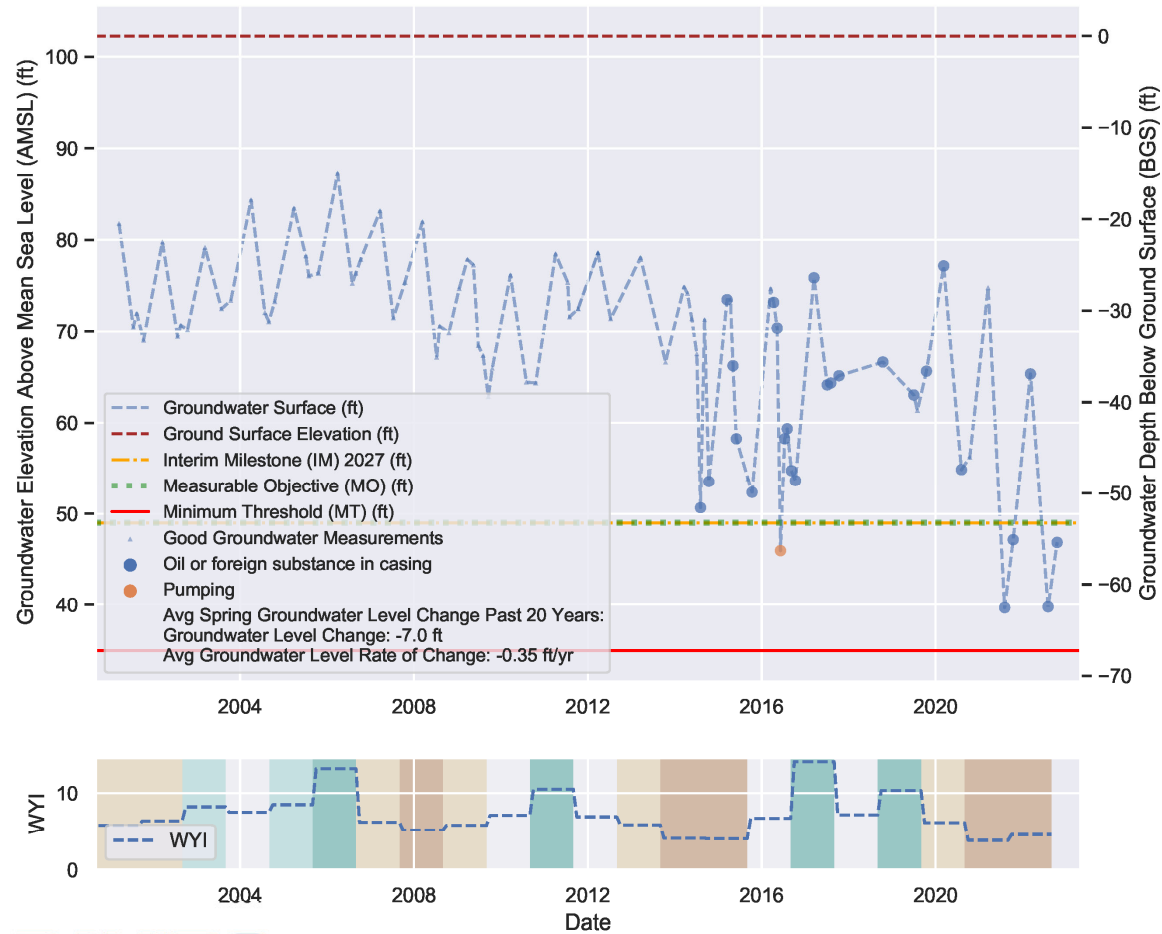
Sustainable Management Criteria:

IM (2027) = 49.0 ft AMSL
 MO = 49.0 ft AMSL
 MT = 35.0 ft AMSL

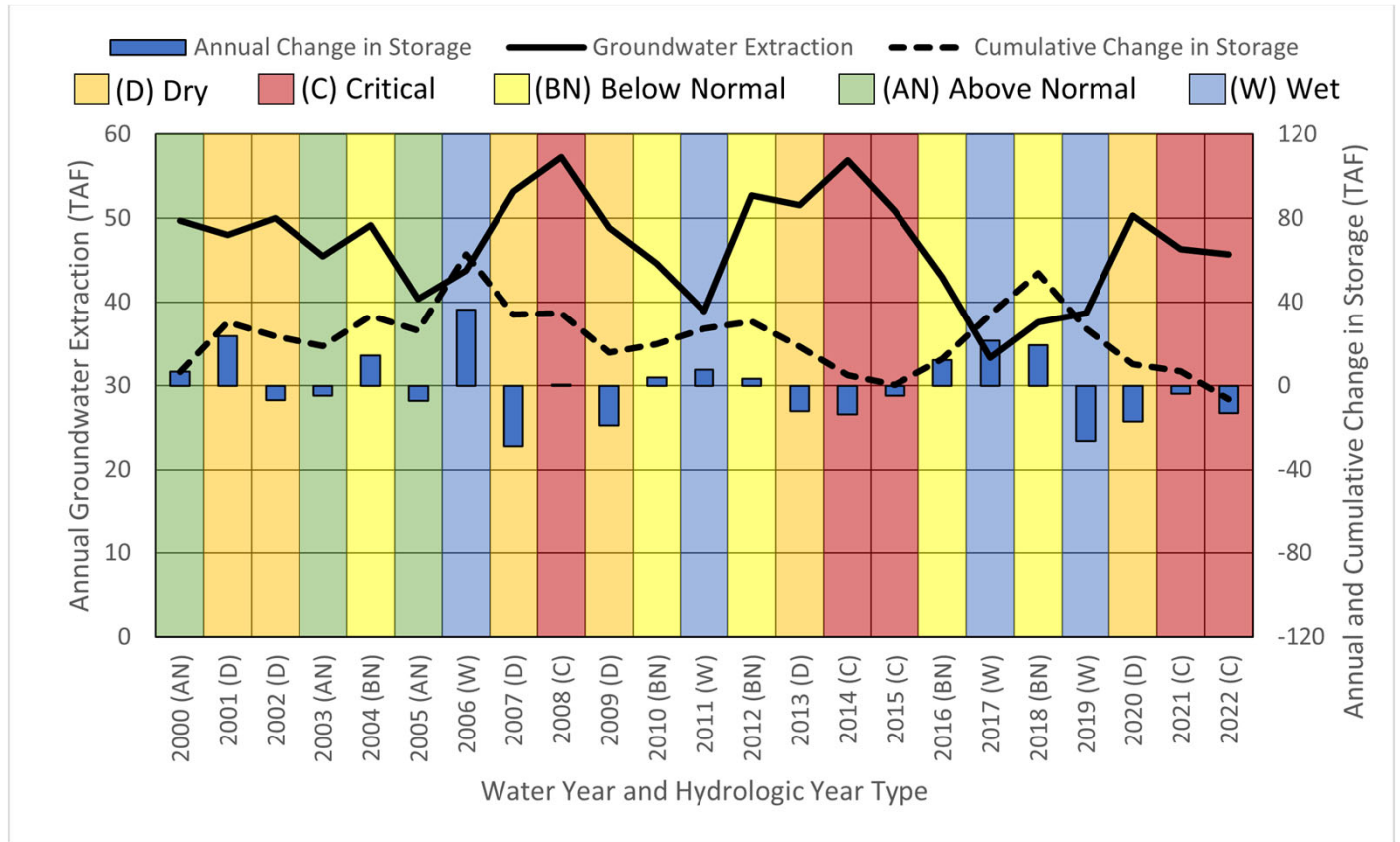
Sacramento Valley Water Year Index (WYI) shown on lower right. Meaning of colors defined below.



Perforation 1: 100.0 - 112.0 ft BGS



Groundwater Conditions – Groundwater Storage

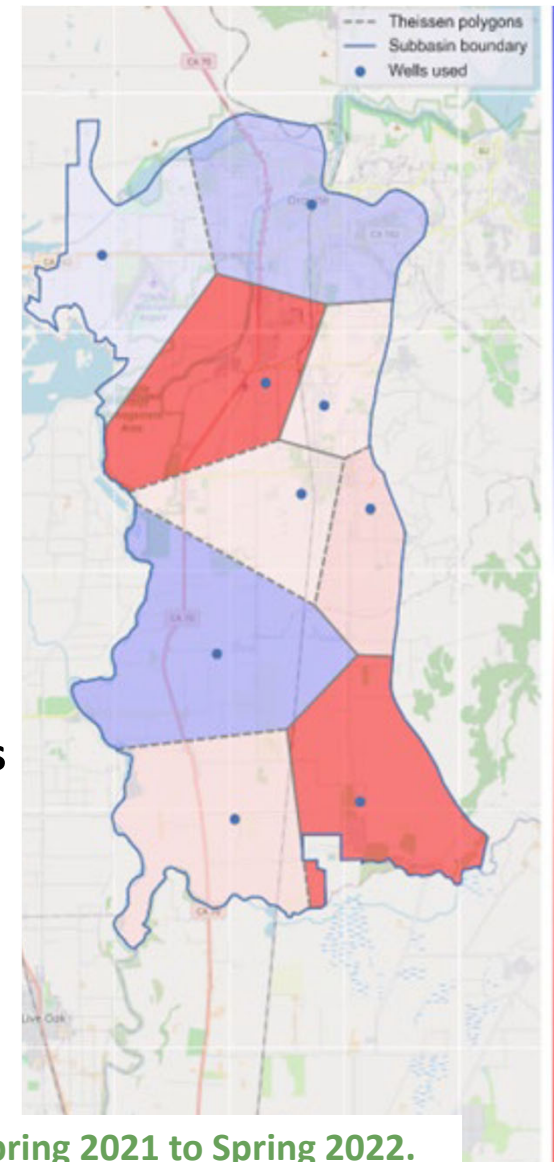


Groundwater Conditions & Change in Storage Summary

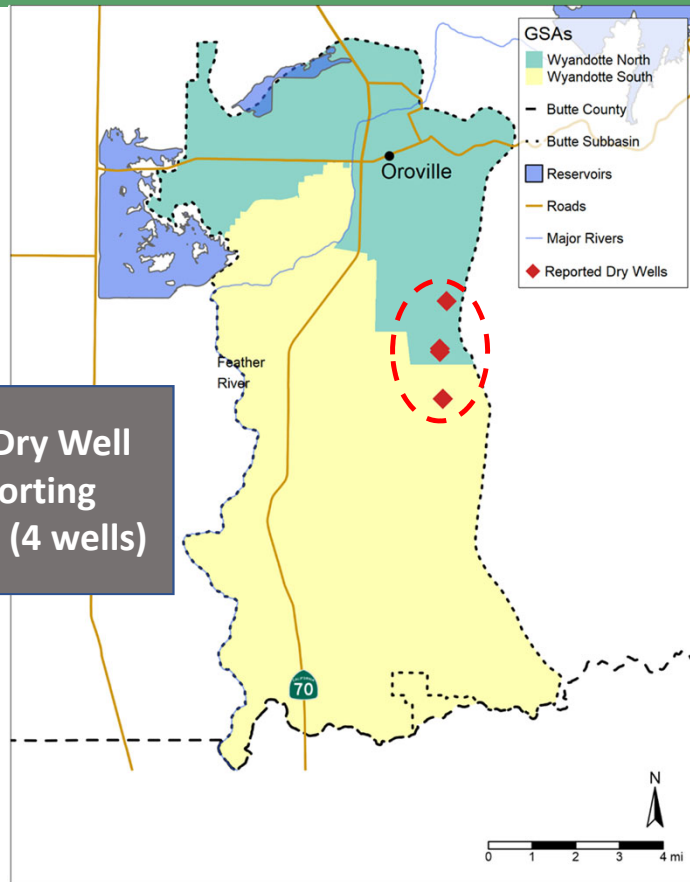
- **Groundwater pumping was similar to last year ~46 TAF and about same as long-term average, lower than average of past 4 critically dry years (~53 TAF)**
- **Groundwater is ~3/4 of total water used**
- **Annual Groundwater Storage Change: ~ -13 TAF**
- **Cumulative Groundwater Storage Change: ~ -7 TAF ~ 15% of avg. pumping per yr. well within margin of error of estimates**
- **Dry well reports in both management areas**
- **2021 vs. 2022 GWL ~ 3' avg. annual drop between Spring measurements; Fall measurements saw ~2' drop**



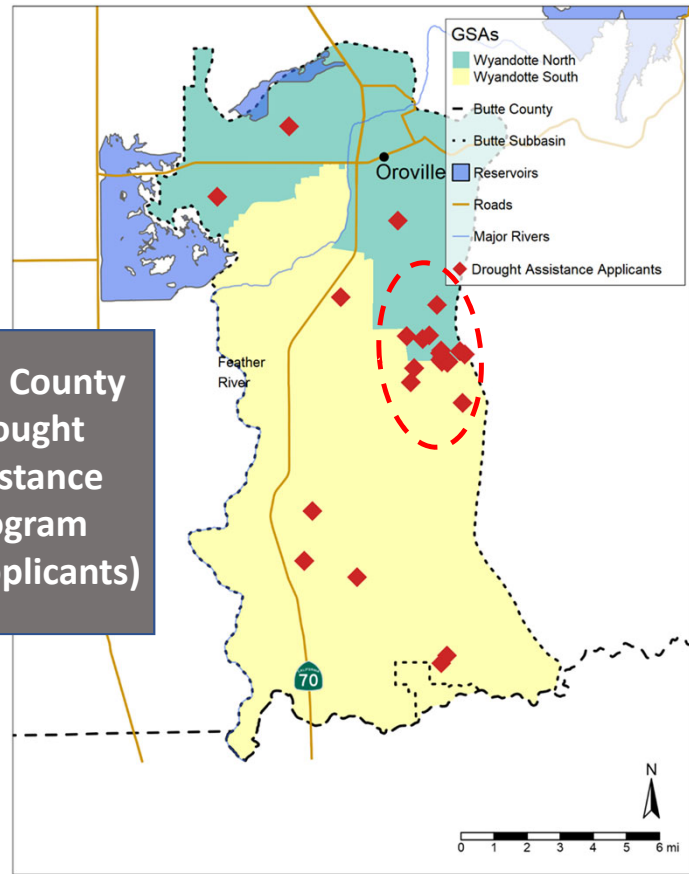
Map shows groundwater storage change from Spring 2021 to Spring 2022.



Vulnerable Areas



DWR Dry Well Reporting System (4 wells)



Butte County Drought Assistance Program (20 Applicants)



Groundwater Conditions – Surface Water Depletion

In 2022, vast majority of groundwater elevations were above the established MO and the next IM of 2027.

Table 2-1. Measurable Objectives, Minimum Thresholds and Seasonal Groundwater Elevations of Representative Monitoring Site Wells

State Well Number / Representative Monitoring Site (RMS) ID ¹	Management Area	Groundwater Elevation (feet above mean sea level)								
		MO ²	MT ²	Interim Milestone 2027	Seasonal High (Spring)			Seasonal Low (Fall)		
					2022	Difference (feet) from:		2022	Difference (feet) from:	
						2021	MO ²		2021	MO ²
19N03E <u>16Q001M</u>	Wyandotte North	133	85	134	139.3	1.0	6.3	138.2	-0.2	5.2
19N04E <u>32P001M</u>	Wyandotte North	107	78	108	128.2	-2.3	21.2	122.5	-2.7	15.5
<u>CWS-03</u>	Wyandotte North	133	102	135	137.0	3.0	4.0	134.0	1.0	1.0
17N03E <u>13B002M</u>	Wyandotte South	47	35	48	60.6	-1.5	13.6	51.6	-1.0	4.6
17N04E <u>09N002M</u>	Wyandotte South	49	35	51	65.4	-9.4	16.4	46.9	-0.3	-2.1
18N03E <u>25N001M</u>	Wyandotte South	52	37	53	62.2	3.1	10.2	52.8	-3.5	0.8
18N04E <u>08M001M</u>	Wyandotte South	86	59	87	109.6	-1.5	23.6	105.5	-0.7	19.5
18N04E <u>16C001M</u>	Wyandotte South	95	71	96	107.0	-4.5	12.0	95.9	-7.6	0.9
19N04E <u>31F001M</u>	Wyandotte South	99	76	101	121.5	-11.0	22.5	118.9	1.5	19.9

Water Supply and Water Use (Water Budget)

Table 3-3. Wyandotte Creek Subbasin Total Water Use by Water Use Sector

Sector	WY 2022 (AF)		
	Groundwater	Surface Water	Total
Agricultural	43,500	10,900	54,400
Municipal	700	4,000	4,700
Rural Residential	1,500	0	1,500
Native Vegetation (Plant groundwater uptake)	36,300	1,300	37,600
Total	82,000	16,200	98,200
Total (excluding Environmental Groundwater¹)	45,700	16,200	61,900



74% Groundwater Dependent in 2022



Water Budget Results by Water Budget Region

Water Budget Region	Area (AC)	Estimated Groundwater Extraction ¹ (AF)	Estimated Groundwater Extraction ¹ (AF/AC)
Wyandotte North Management Area	18,499	0	0.0
Wyandotte South Management Area	41,565	43,400	1.0
Totals	60,064	43,400	Average - 0.7

¹Groundwater extraction in the agricultural and urban water use sectors are shown; other water use sectors are not included in these results.



GSP Implementation

- **Updates discussed in the annual report (Section 5.2)**
- **Highlights in 2022:**
 - **Submitted SGMA Implementation Round 2 grant application in December 2022**
 - **GSP Implementation Outreach and Compliance Activities**
 - **Regional Conjunctive Use Project**
 - **Monitoring Network Enhancements**
 - **Thermalito Water Treatment Plant Capacity Upgrade**
 - **Groundwater Recharge Feasibility Analysis, Design, and Construction**



GSP Implementation – Projects

Project	Progress in WY 2021 Annual Report
Residential Water Conservation	7.8% reduction in urban pumping compared to 2021 (TWSD)
Agricultural Irrigation Efficiency	Recommendations report released June 2022
Oroville Wildlife Area Robinson's Riffle	SBFCA was awarded grant funding and work was initiated in November 2022 and is expected to be completed in summer 2024
Thermalito Water and Sewer District Water Treatment Plant Capacity Upgrade	Ongoing work to design and implement the project
Palermo Clean Water Consolidation	Ready to Commence Phase 1



Annual Report Summary

SUMMARY



- Hydrologic conditions in WY 2022 had below average precipitation, streamflow, and above average ET.
- Extreme drought conditions began in 2020 and went through 2022.
 - This is reflected in lower groundwater levels in 2022.
- Dry wells in Palermo are being addressed through County efforts.
- WY 2022 Groundwater extraction is comparable to last year and long-term average, lower than last 4 critically dry years.
- Cumulative groundwater storage is minimal ~ -7 TAF from 2000



Annual Report Summary

- **Water levels are stable and track well with wet/dry cycles (respond accordingly)**
- **Subbasin is on track to meet the 5-year Interim Milestones (2027)**
- **Groundwater levels were above MO's in spring and only 1 was below in fall**
- **Maintaining access to surface water is important to maintain stable conditions**
- **Dry wells were reported, this is being addressed in Palermo through Co. efforts**
- **GSA is proactive in GSP implementation (grants, outreach, funding)**



Acknowledgements

- **Participating Butte County Well Owners**
- **Butte County Department of Water and Resource Conservation**
- **Groundwater Sustainability Agency Managers**
- **Technical Advisory Committee to the Butte County Water Commission**

Thank you!



Discussions / Questions?



**Butte County Public Health Department
Environmental Health Division**

Well Permit Summary

Quarter 2 (January 1, 2023 – March 31, 2023) of Water Year 2023

Table of Contents

Definitions.....	3
Cumulative Well Permit Data.....	4
Small Diameter Well Permit Data - Issued.....	5
Small Diameter Well Permit Data - Finaled	6
Large Diameter Well Permit Data - Issued.....	7
Large Diameter Well Permit Data – Finaled	8
Well Repair and Deepening Data.....	9
Well Destruction Data – Small Diameter Wells	10
Well Destruction Data – Large Diameter Wells	11
Dry Well Data	12
Executive Order N-7-22 Data	13

Definitions

Permits Issued – Number of new water well permits issued as new construction. This excludes repairs, destructions, abandonments.

Permits Finaled – Number of water well permits that have been finaled (i.e. final construction completed and well is operational). This excludes repairs, destructions, abandonments.

Small Diameter Wells - A well with an eight-inch or smaller diameter well casing.

Large Diameter Wells - A well with larger than eight-inch diameter well casing.

Repair – Well repair; this includes but is not limited to casing replacement, re-lining or perforation.

Deepening – Well deepening; increasing the depth of an existing well.

Well Destruction – Well is destroyed (sealed off) by an approved method.

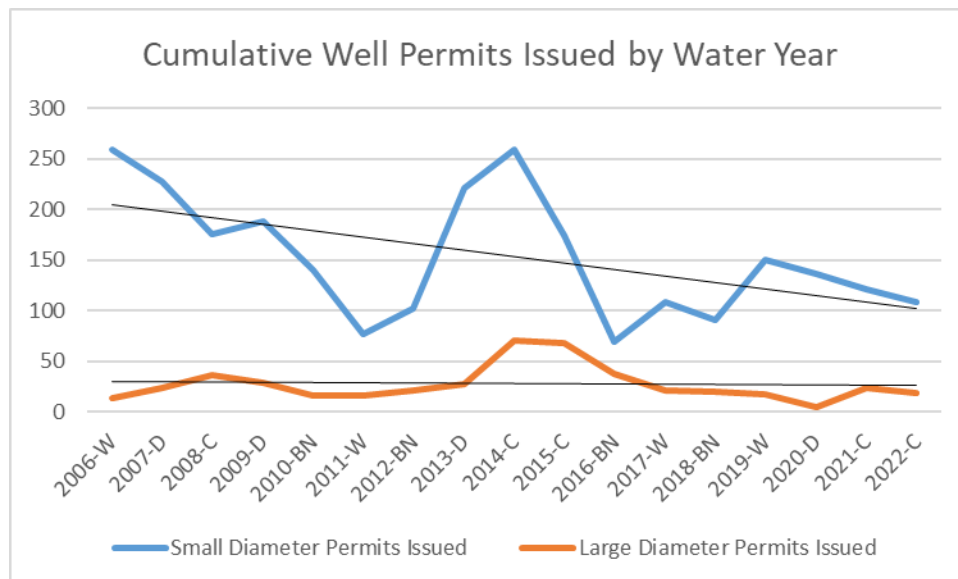
Dry Well – Well that is no longer producing water or has reduced production to a point where it can no longer sustain a residence (< 1 gpm).

Water Year - A water year is a 12-month period that extends from October 1st to September 30th. Water year can be classified into Wet (W), Above Normal (AN), Below Normal (BN), Dry (D) or Critical (C).

Executive Order N-7-22 – Effective March 28, 2022 and impacting permits that have not been issued to date. Implements increased drought response and established requirements for water well permit reviews to include Groundwater Sustainability Agencies (GSAs) and ground water impact considerations prior to permit issuance.

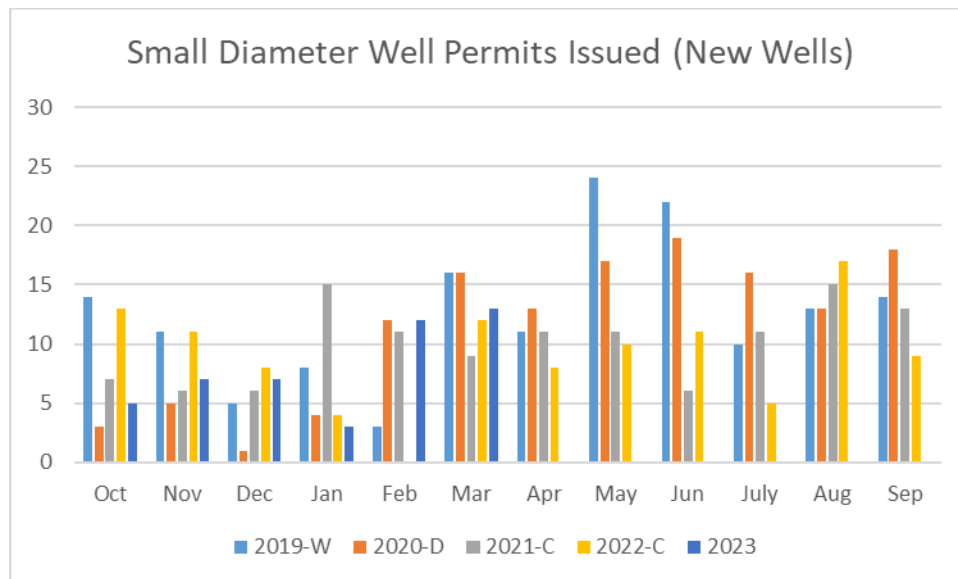
Cumulative Well Permit Data

Cumulative (WY) Well Permits Issued		
Water Year	Small Diameter Permits Issued	Large Diameter Permits Issued
2006-W	260	14
2007-D	228	24
2008-C	176	36
2009-D	188	29
2010-BN	140	16
2011-W	77	16
2012-BN	102	21
2013-D	221	28
2014-C	259	71
2015-C	175	68
2016-BN	69	38
2017-W	109	21
2018-BN	91	20
2019-W	151	18
2020-D	137	5
2021-C	121	24
2022-C	108	19
2023	47	12



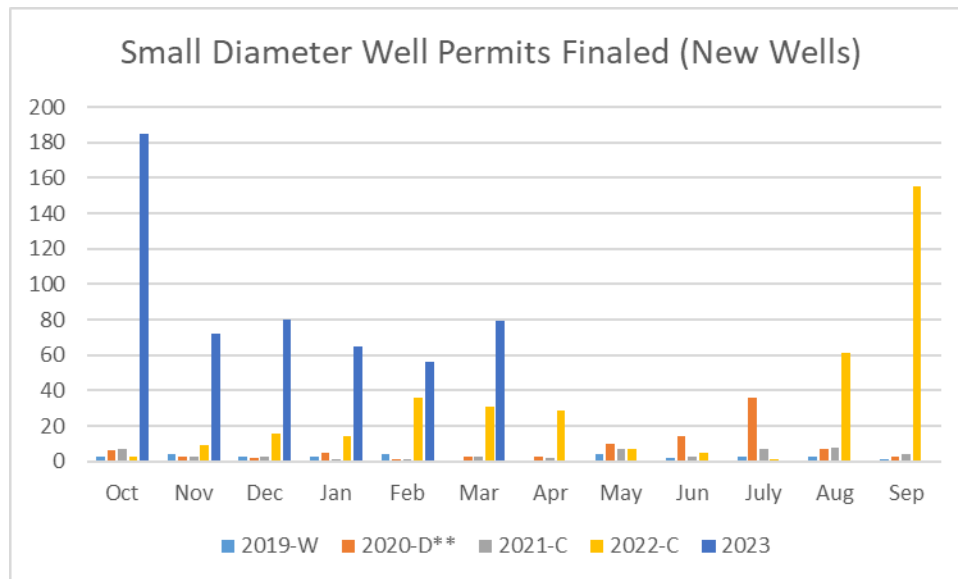
Small Diameter Well Permit Data - Issued

Water Year	Small Diameter Well Permits Issued (New Wells)												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	
2006-W	34	13	18	17	21	21	16	19	36	19	26	20	260
2007-D	24	14	8	16	14	20	28	19	25	20	22	18	228
2008-C	16	15	10	8	7	15	19	17	15	20	22	12	176
2009-D	17	10	8	13	10	11	21	17	23	23	20	15	188
2010-BN	9	9	8	2	4	14	22	10	22	18	14	8	140
2011-W	7	2	1	2	4	6	4	14	16	5	11	5	77
2012-BN	8	2	4	10	8	6	11	18	9	16	6	4	102
2013-D	9	10	2	11	22	27	35	36	19	17	24	9	221
2014-C	9	10	10	24	14	20	33	32	34	31	23	19	259
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Total
2015-C	18	7	6	15	11	22	27	15	13	18	17	6	175
2016-BN	4	5	7	6	8	17	9	12	16	14	12	3	113
2017-W	7	7	5	2	8	19	19	17	17	5	2	1	109
2018-BN	6	3	2	3	6	4	10	13	12	10	13	9	91
2019-W	14	11	5	8	3	16	11	24	22	10	13	14	151
2020-D	3	5	1	4	12	16	13	17	19	16	13	18	137
2021-C	7	6	6	15	11	9	11	11	6	11	15	13	121
2022-C	13	11	8	4	0	12	8	10	11	5	17	9	108
2023	5	7	7	3	12	13							47



Small Diameter Well Permit Data - Finaled

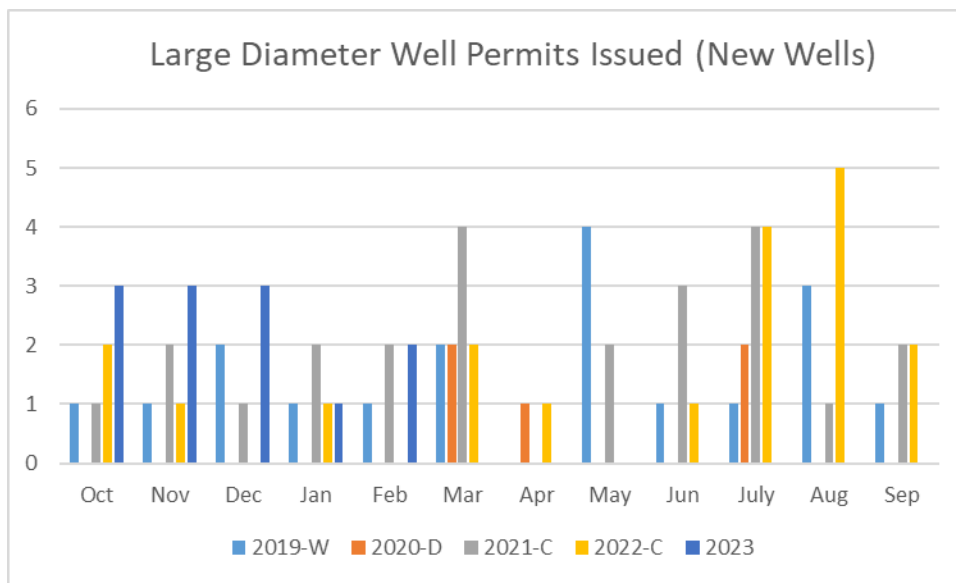
Water Year	Small Diameter Well Permits Finaled (New Wells)												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	
2016-BN	7	4	3	4	3	1	1	4	5	1	3	0	36
2017-W	3	2	2	3	3	3	1	1	1	0	5	0	24
2018-BN	1	4	3	1	1	4	2	4	6	1	5	3	35
2019-W	3	4	3	3	4	0	0	4	2	3	3	1	30
2020-D**	6	3	2	5	1	3	3	10	14	36	7	3	93
2021-C	7	3	3	1	1	3	2	7	3	7	8	4	49
2022-C	3	9	16	14	36	31	29	7	5	1	61	155	367
2023	185	72	80	65	56	79							537



**Water Year 2020 and forward - Implemented improvements to the well permit process and working on backlog status updates.

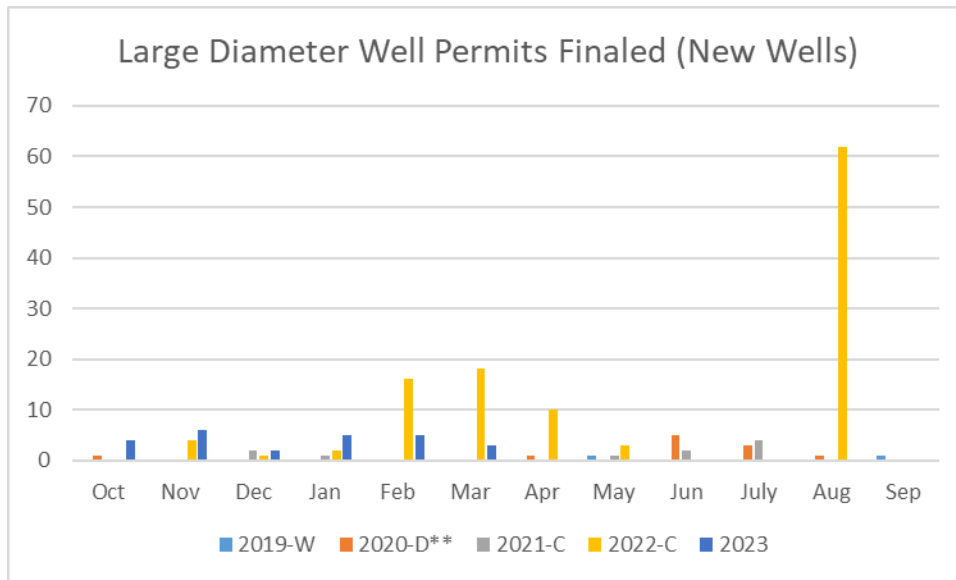
Large Diameter Well Permit Data - Issued

Water Year	Large Diameter Well Permits Issued (New Wells)												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	
2006-W	2	1	0	4	0	4	1	1	0	1	0	0	14
2007-D	2	1	0	4	5	0	5	0	5	1	0	1	24
2008-C	2	1	6	1	3	0	2	2	15	3	0	1	36
2009-D	2	1	2	6	6	2	0	0	4	2	0	4	29
2010-BN	3	3	1	2	0	1	2	2	1	1	0	0	16
2011-W	3	1	0	3	3	0	0	2	1	2	1	0	16
2012-BN	1	1	1	2	0	0	1	1	0	4	8	2	21
2013-D	1	0	1	1	2	2	2	6	1	0	8	4	28
2014-C	2	0	3	15	12	10	5	2	5	6	6	5	71
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Total
2015-C	5	7	4	1	4	7	6	1	5	14	11	3	68
2016-BN	5	5	5	5	4	2	2	3	1	1	2	3	38
2017-W	1	0	1	2	2	3	3	2	2	0	5	0	21
2018-BN	1	3	0	0	0	3	1	2	1	4	2	3	20
2019-W	1	1	2	1	1	2	0	4	1	1	3	1	18
2020-D	0	0	0	0	0	2	1	0	0	2	0	0	5
2021-C	1	2	1	2	2	4	0	2	3	4	1	2	24
2022-C	2	1	0	1	0	2	1	0	1	4	5	2	19
2023	3	3	3	1	2	0							12



Large Diameter Well Permit Data – Finaled

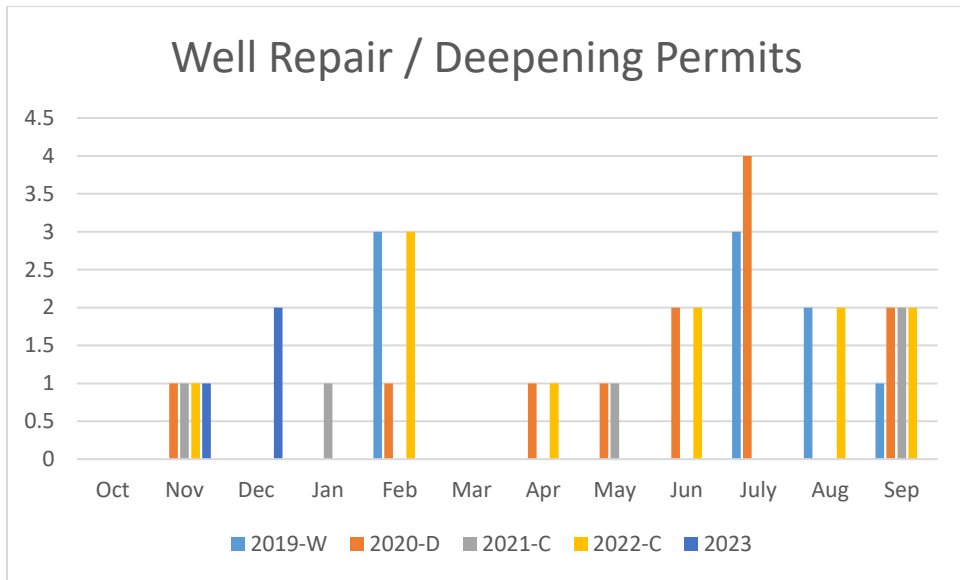
Water Year	Large Diameter Well Permits Finaled (New Wells)												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Total
2016-BN	2	0	0	0	0	0	0	0	0	1	0	0	3
2017-W	0	0	0	0	0	0	0	0	0	2	0	0	2
2018-BN	0	0	0	1	0	0	1	0	1	0	4	0	7
2019-W	0	0	0	0	0	0	0	0	1	0	0	0	2
2020-D**	1	0	0	0	0	0	0	1	0	5	3	1	11
2021-C	0	0	2	1	0	0	0	1	2	4	0	0	10
2022-C	0	4	1	2	16	18	10	3	0	0	62	0	116
2023	4	6	2	5	5	3							25



**Water Year 2020 and forward - Implemented improvements to the well permit process and working on backlog status updates.

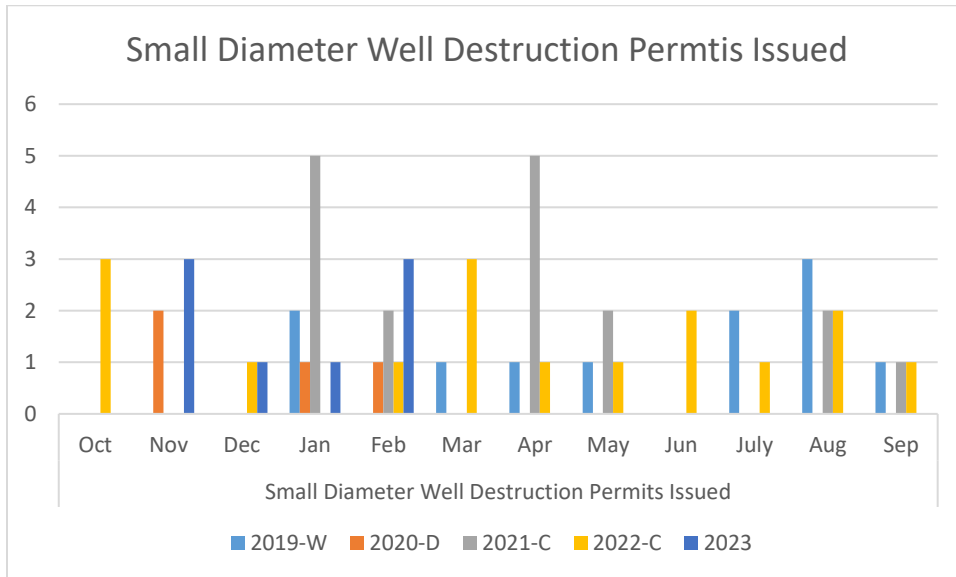
Well Repair and Deepening Data

Water Year	Well Repair/Deepening Permits Issued												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	
2006-W	0	0	0	0	0	0	0	0	3	1	0	0	4
2007-D	0	0	0	0	1	0	0	1	0	2	2	3	9
2008-C	3	2	1	1	1	0	1	0	0	3	3	0	15
2009-D	0	1	2	2	3	0	1	2	1	4	1	3	20
2010-BN	0	1	0	0	0	3	0	3	1	1	1	0	10
2011-W	2	0	0	0	0	0	0	0	2	1	4	0	9
2012-BN	1	0	0	0	0	0	1	1	2	0	1	1	7
2013-D	0	0	1	0	2	0	0	2	0	2	0	3	10
2014-C	2	0	1	8	0	2	1	0	2	0	1	0	17
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Total
2015-C	1	0	1	0	1	3	2	1	1	3	4	2	19
2016-BN	2	1	0	0	0	0	0	0	0	1	4	1	4
2017-W	0	1	0	0	0	0	0	0	0	0	1	0	2
2018-BN	0	1	0	0	0	0	0	0	0	0	2	0	3
2019-W	0	0	0	0	3	0	0	0	0	3	2	1	9
2020-D	0	1	0	0	1	0	1	1	2	4	0	2	12
2021-C	0	1	0	1	0	0	0	1	0	0	0	2	5
2022-C	0	1	0	0	3	0	1	0	2	0	2	2	11
2023	0	1	2	0	0	0	0	0	0	0	0	0	3



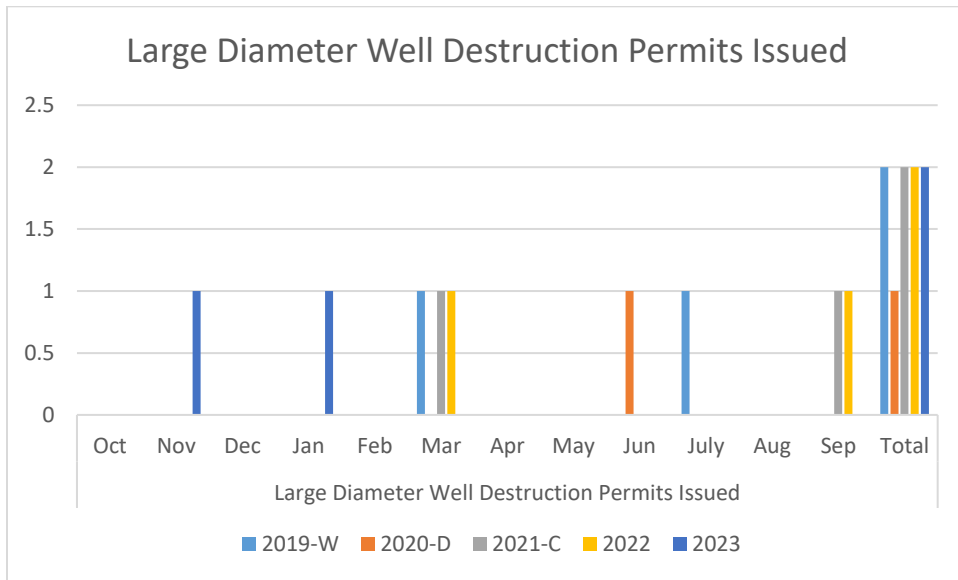
Well Destruction Data – Small Diameter Wells

Water Year	Small Diameter Well Destruction Permits Issued												Total	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep		
2017-W	0	2	0	0	0	0	1	0	0	0	4	1	0	8
2018-BN	0	0	3	0	0	0	0	0	0	0	1	1	0	5
2019-W	0	0	0	2	0	1	1	1	1	0	2	3	1	11
2020-D	0	2	0	1	1	0	0	0	0	0	0	0	0	4
2021-C	0	0	0	5	2	0	5	2	0	0	0	2	1	17
2022-C	3	0	1	0	1	3	1	1	2	1	2	1	1	16
2023	0	3	1	1	3	0								8



Well Destruction Data – Large Diameter Wells

Water Year	Large Diameter Well Destruction Permits Issued												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	
2017-W	1	1	0	0	0	1	0	0	0	0	1	0	4
2018-BN	0	0	0	0	0	0	0	0	0	0	1	0	1
2019-W	0	0	0	0	0	1	0	0	0	1	0	0	2
2020-D	0	0	0	0	0	0	0	0	1	0	0	0	1
2021-C	0	0	0	0	0	1	0	0	0	0	0	1	2
2022	0	0	0	0	0	1	0	0	0	0	0	1	2
2023	0	1	0	1	0	0							2



Dry Well Data

Water Year	Dry Small Diameter Wells												Total	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep		
2021-C												11	7	18
2022-C	1	0	1	0	1	0	0	0	2	3	4	2	14	
2023	2	2	0	0	2	0							6	

Dry well data started being collected August 2021.

Water Year	Dry Large Diameter Wells												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	
2021-C											1	0	1
2022-C	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0						0

Dry well data started being collected August 2021.

Cumulative Dry Wells by Water Year		
Water Year	Small Diameter Dry Wells	Large Diameter Dry Wells
2021-C	18	1
2022-C	14	0
2023	6	0

Cumulative Dry Wells By City	
Chico	20
Durham	11
Cohasset	2
Berry Creek	1
Oroville	2
Bangor	1
Forrest Ra	2
Palermo	1

Known Depth of Dry Wells		
Chico	Oroville	Forest Ranch
80 feet	95 feet	520 feet
172 feet	600 feet	
84 feet		
105 feet		
75 feet		
136 feet		

Executive Order N-7-22 Data

Cumulative Number of Wells Under Executive Oder N-7-22			
By Subbasin	Small Diameter	Large Diameter	Totals
BUTTE	0	20	20
VINA	4	8	12
WYANDOTTE	1	7	8
			40
By GSA	Small Diameter	Large Diameter	Totals
Biggs-West Gridley Water District	0	5	5
Butte County	0	5	5
Butte Water District	0	4	4
Richvale Irrigation District	0	2	2
Reclamation District No. 2106	0	2	2
Rock Creek Reclamation District	0	1	1
Vina	4	8	12
Western Canal	0	1	1
Wyandotte Creek	1	7	8
			40

