



**STOCKTON
EAST WATER
DISTRICT**

PROVIDING SERVICE SINCE 1948

www.sewd.net

DIRECTORS

Richard Atkins
President
Division 1

Andrew Watkins
Division 2

Alvin Cortopassi
Division 3

Melvin Panizza
Division 4

Paul Sanguinetti
Division 5

Paul Nakaue
Division 6

Thomas McGurk
Vice President
Division 7

STAFF

Justin M. Hopkins
General Manager

Juan M. Vega
Assistant General Manager

LEGAL COUNSEL

Jeanne M. Zolezzi
General Counsel

Phone 209-948-0333
Fax 209-948-0423

E-mail sewd@sewd.net

6767 East Main Street
Stockton, CA 95215

Post Office Box 5157
Stockton, CA 95205

Eastern Water Alliance
Post Office Box 5157, Stockton, CA 95205

An Alliance of Water Districts, Central San Joaquin Water Conservation District, North San Joaquin Water Conservation District, and Stockton East Water District, located over the critically overdrafted Eastern San Joaquin County Groundwater Basin

NOTICE OF MEETINGS

Notice is hereby given that a meeting of the Board of Directors of the Eastern Water Alliance will be held at 2:00pm on Thursday, June 6, 2024 at Stockton East Water District, 6767 East Main Street, Stockton, California

MEETING OF THE EASTERN WATER ALLIANCE

- | | |
|---|----------|
| A. Call to Order | Page No. |
| B. Roll Call | |
| C. Public Comment | |
| D. Action items: | |
| 1. Minutes 03/07/24 | 01 |
| E. Meeting of The Dream Monitoring Committee | |
| 1. Call to Order | |
| 2. Roll Call | |
| 3. Public Comment | |
| 4. Demonstration Recharge Extraction and Aquifer Management (DREAM) | |
| a. DREAM Pilot Project Extraction Update | 03 |
| 5. Other Business | |
| 6. Plan for Next Meeting | |
| 7. Adjournment | |
| F. Consider Accepting DREAM Pilot Project Results | |
| G. Agenda Planning for Next Meeting | |
| H. Adjournment | |

Certification of Posting

I hereby certify that on June 3, 2024 I posted a copy of the foregoing agenda in the outside display case at the District Office, 6767 East Main Street, Stockton, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the Eastern Water Alliance (Government Code Section 54954.2). Executed at Stockton, California on June 3, 2024.



Priya Ram, Finance Director
Stockton East Water District

Assistance for the Disabled: If you are disabled in any way and need accommodation to participate in the meeting, please call Heather Wood, Administrative Assistant (209) 948-0333 for assistance so the necessary arrangements can be made.

Eastern Water Alliance (EWA)

Post Office Box 5157
Stockton, CA 95205

An Alliance of Water Districts, Central San Joaquin Water Conservation District (CSJWCD), North San Joaquin Water Conservation District (NSJWCD), and Stockton East Water District (SEWD), located over the critically over drafted Eastern San Joaquin County Groundwater Basin

Thursday, March 7, 2024 Minutes

MEETING OF THE EASTERN WATER ALLIANCE

- A) Call to Order: Director McGurk called the meeting to order at 10:07 a.m.
- B) Roll Call: A quorum of the Eastern Water Alliance Board members were present (Chairman McGurk, and Directors Roberts, Simpson, and Colombini). Also present were SEWD's Assistant Manager Vega, District Engineer Evensen, Finance Director Ram, Administrative Assistant Wood and NSJWCD General Manager Steve Schwabauer. Directors Sanguinetti and Thompson were absent.
- C) Public Comment: None
- D) Presentation and Action items:
1. Board Organization
 - a. Election of Officers
Director McGurk stated he has no opposition in remaining on the committee as the chairman.

A motion was moved by Director Colombini and seconded by Director Simpson to approve Thomas McGurk as Chairman of the Board for the Eastern Water Alliance. The motion passed unanimously.
 - b. Committee Assignments
The Eastern Water Alliance (EWA) Committee reviewed the committee member's roster. Director Colombini clarified the committee members consist of David Simpson, Jason Colombini, Grant Thompson, Reid Roberts, Paul Sanguinetti and alternate Andrew Watkins.

A motion was moved by Director Colombini and seconded by Director Simpson to approve the Eastern Water Alliance Committee Assignments, as presented. The motion passed unanimously.
 2. Approval of Minutes:
 - a. Minutes 11/22/23
A motion was moved by Director Simpson and seconded by Director Colombini to approve the November 22, 2023 minutes, as presented. The motion passed unanimously.

3. Request for DREAM Project Groundwater Extraction Extension to April 2024 Memo: Mr. Schwabauer reported the DREAM Project groundwater extraction is permitted from October 1st to March 31st. In collaboration with NSJWCD, EBMUD initiated extraction on January 10th, 2024 and planned to continuously extract approximately 296 acre-feet of groundwater (half of the 592 acre-feet banked in Fall 2023) through the end of March 2024. The extraction period was initiated in combination with San Joaquin County who is responsible for groundwater monitoring to identify whether significant impacts to groundwater levels would result from the DREAM Project. However, unanticipated mechanical and control system failures on Extraction Well K-13 resulted in ongoing starts and stops every few days from the initiation of extraction on January 10th, 2024 through February 5th, 2024. Therefore, an extension to April 30th was requested to allow extraction of the entire 296 acre-feet of banked groundwater to observe whether impacts to groundwater exist with extraction of the full banked volume for a longer duration. The irrigation season is expected to start later therefore the extension would not interfere with that timeline.

Director Simpson reported the DREAM Monitoring committee reviewed the data presented by EBMUD at the February 28th committee meeting. The consensus of the committee is there have been no negative impacts on groundwater levels from the DREAM extraction therefore the monitoring committee recommended the EWA move forward with the extension. EBMUD Associate Engineer Stella Tan stated they are not anticipating any other extension requests.

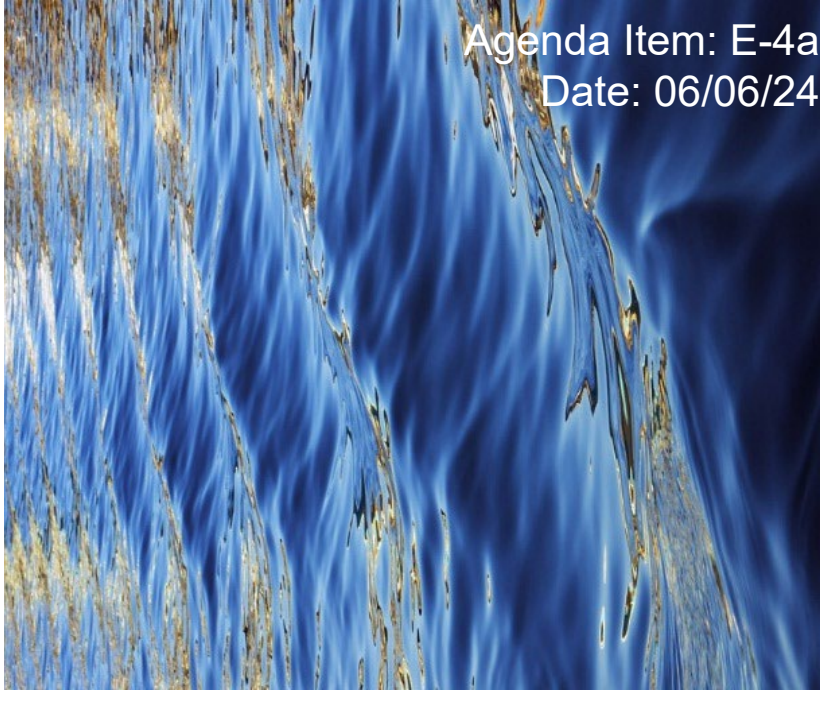
- a. Resolution 24-01 – A Resolution of The Board of Directors of the Eastern Water Alliance To Recommend the Board of Supervisors Amend Resolution R-17-35 To Extend The Term Of The Extraction Timeline For The Groundwater Banking Demonstration Project (DREAM) Agreement To April 30, 2024

A motion was moved by Director Simpson and seconded by Director Roberts to approve Resolution 24-01, A Resolution of The Board of Directors of the Eastern Water Alliance To Recommend the Board of Supervisors Amend Resolution R-17-35 To Extend The Term Of The Extraction Timeline For The Groundwater Banking Demonstration Project (DREAM) Agreement To April 30, 2024, as presented. The motion passed unanimously.

- E) Unfinished Business: None
- F) New Business: None
- G) Agenda Planning for Next Meeting: None
- H) Adjournment: Chairman McGurk adjourned the meeting at 10:22 a.m.

Respectfully submitted,

Juan M. Vega
Secretary



DREAM Pilot Project Extraction Update

Eastern Water Alliance / DREAM Monitoring Committee
June 6, 2024

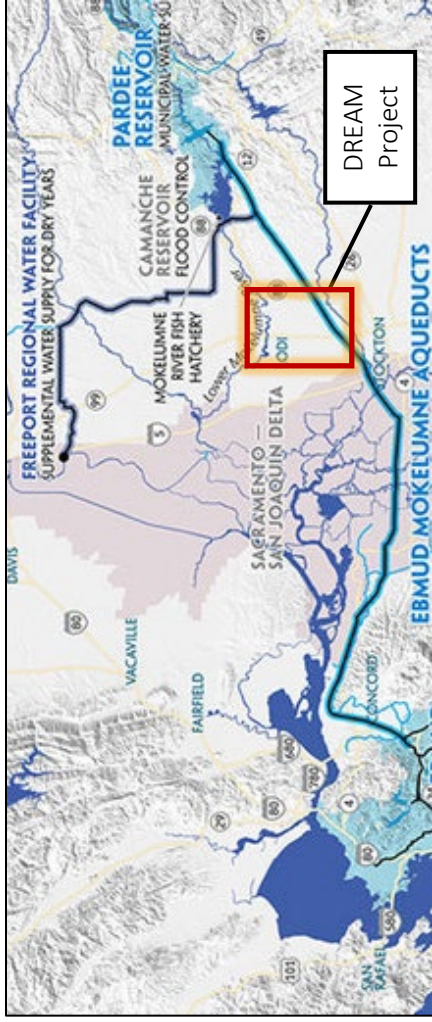


Agenda

- Background
- Extraction & approvals timeline
- 2023/2024 recharge and extraction water accounting
- Groundwater monitoring results
- Lessons learned
- Next steps

Background

DREAM: Demonstration Recharge, Extraction and Aquifer Management



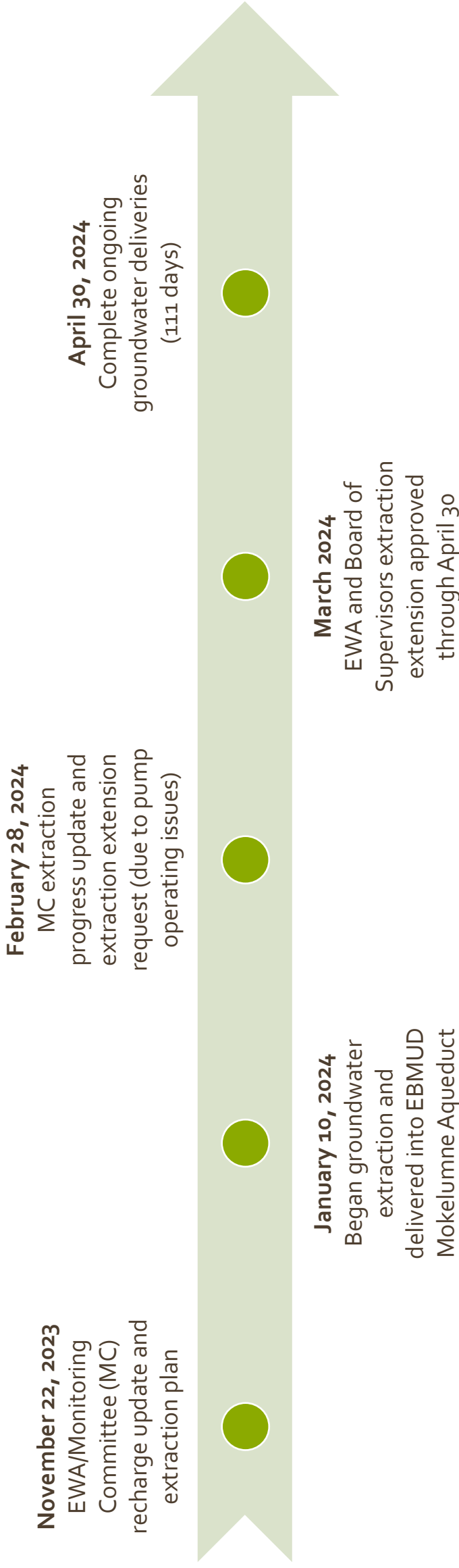
NSJWCD uses EBMUD Mokelumne River water to irrigate crops instead of pumping groundwater

Banked groundwater:

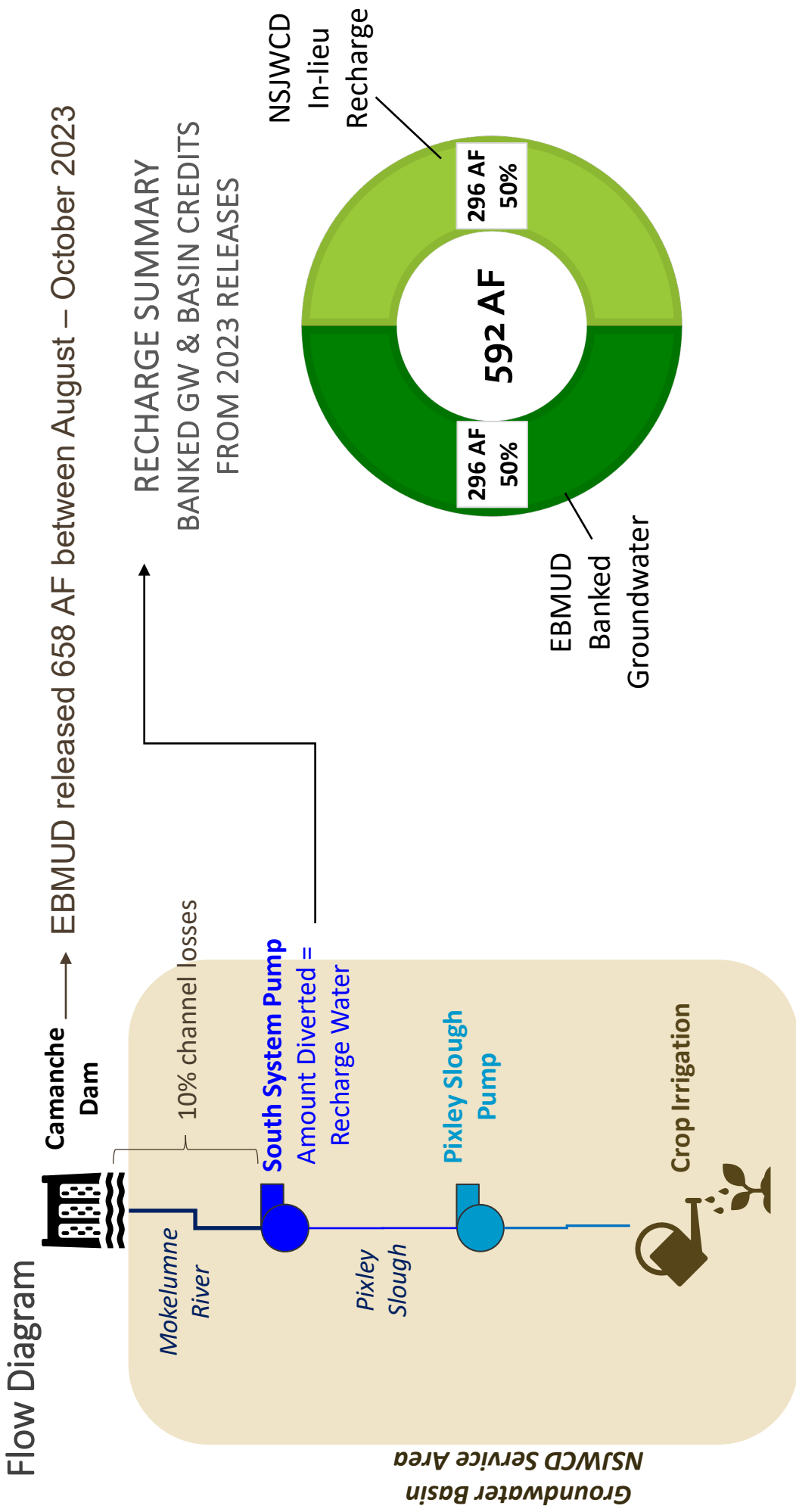
- 1/2 credited to NSJWCD
- 1/2 credited to EBMUD who can request that it be returned



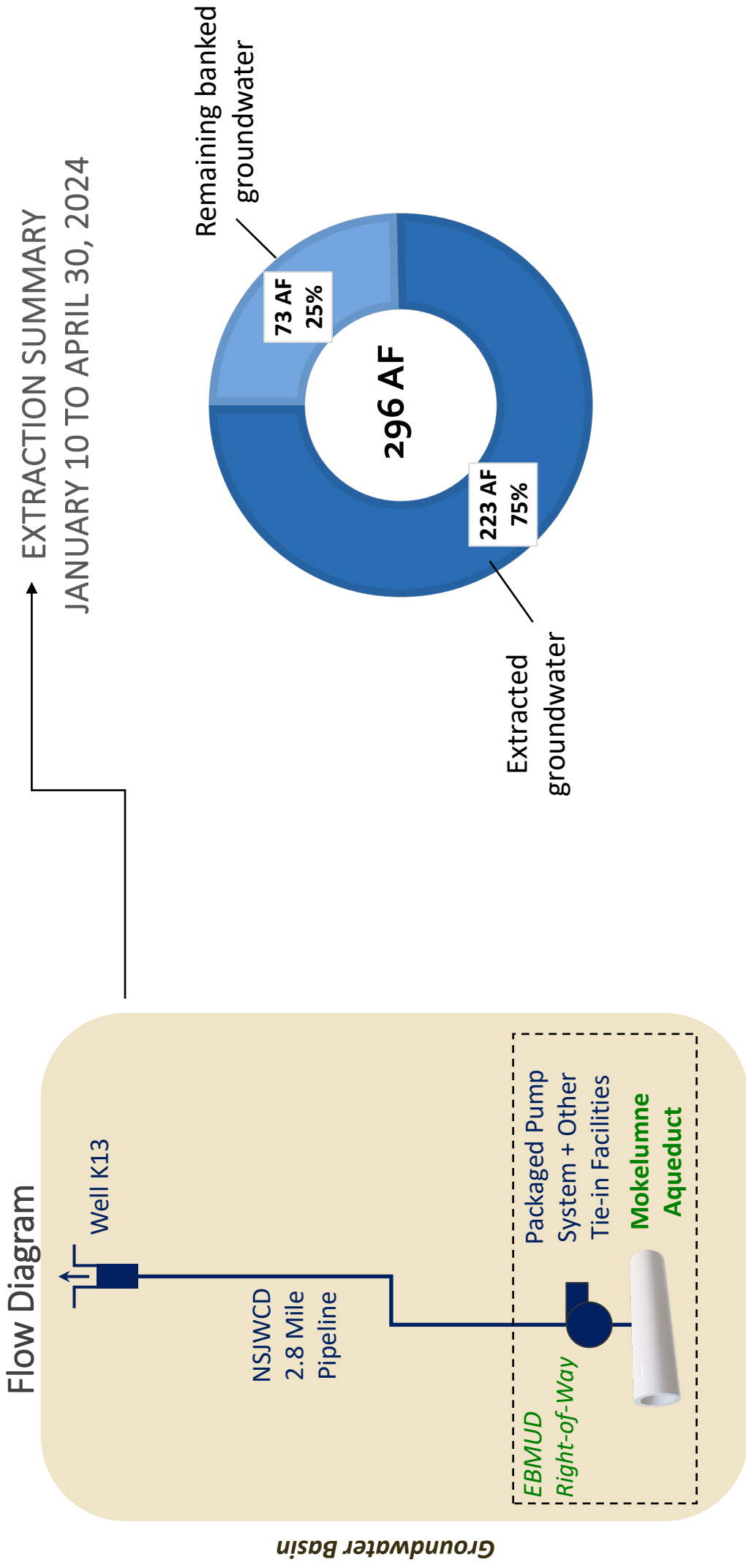
Extraction & approvals timeline



2023 Recharge water accounting



2024 Groundwater extraction accounting



DREAM Groundwater Level Thresholds

Thresholds Calculations

- DREAM minimum threshold = Initial water level – regional trend – allowable drawdown (10 ft)
- DREAM maximum extraction threshold = Initial water level – regional trend - allowable drawdown (15 feet, or five feet below the minimum threshold)

Criteria for Extraction Reduction/Shutdown

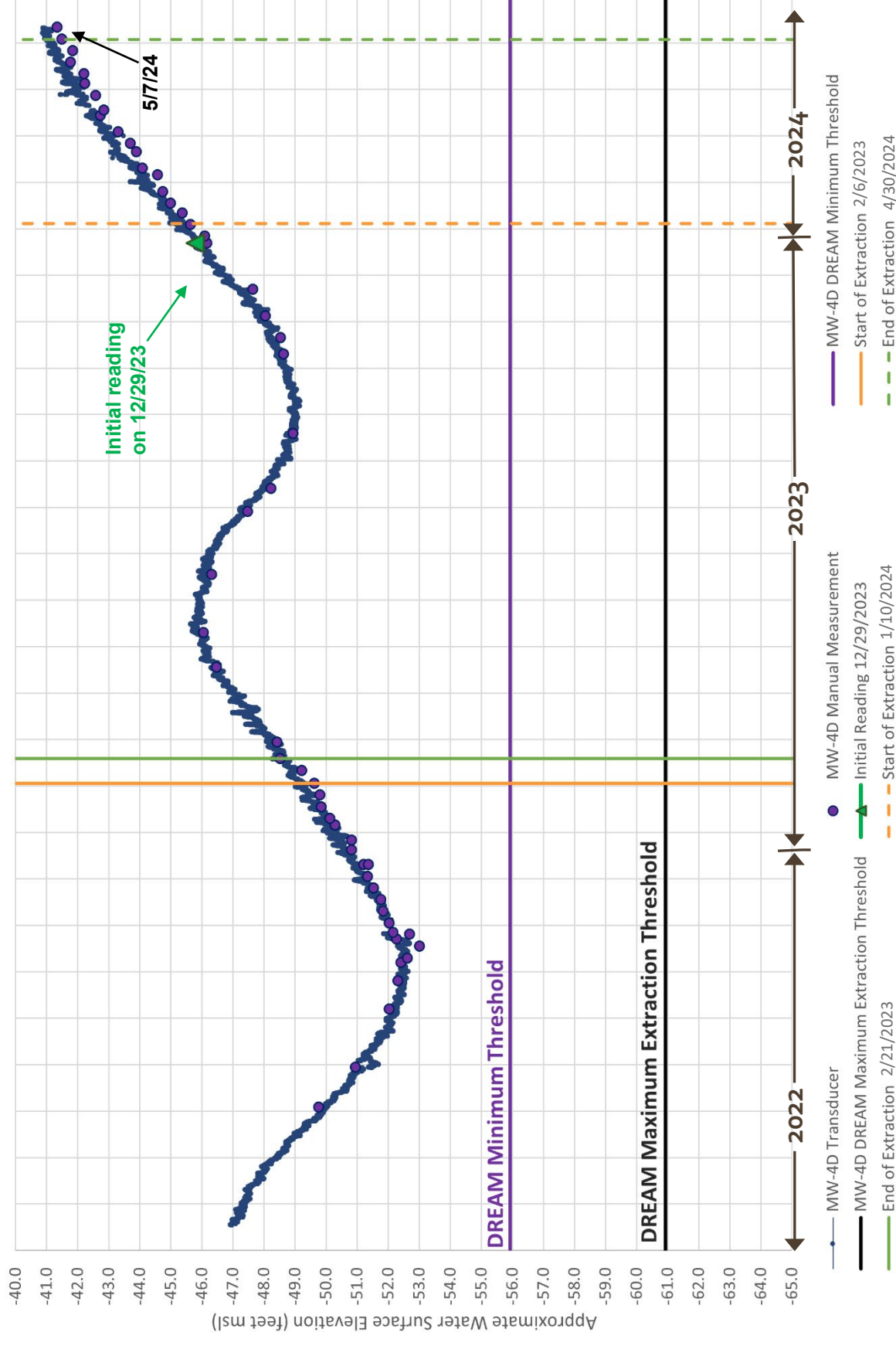
- If three of four DREAM monitoring wells reach the *minimum threshold*, extraction will be reduced or stopped while data is evaluated by the Monitoring Committee.
- If any one monitoring well reaches the *maximum extraction threshold*, extraction will be stopped while data is evaluated by the Monitoring Committee. Additionally, if well 03No7E21L003 exceeds its SGMA minimum threshold, extraction will cease.
- Automated alert notifications set up for wells with pressure transducers when the groundwater levels reach 75% of the minimum and maximum thresholds.

MW-4D Hydrograph

- No observed negative impacts on groundwater levels
- Levels increased since extraction started on January 10
- Levels currently ~ 15 feet above minimum threshold

	MW-4D
Initial Reading	-45.78
Regional Trend Adjustment (91 Days)	-0.155
DREAM Minimum Threshold	-55.93
DREAM Maximum Extraction Threshold	-60.93

Well MW-4D Hydrograph

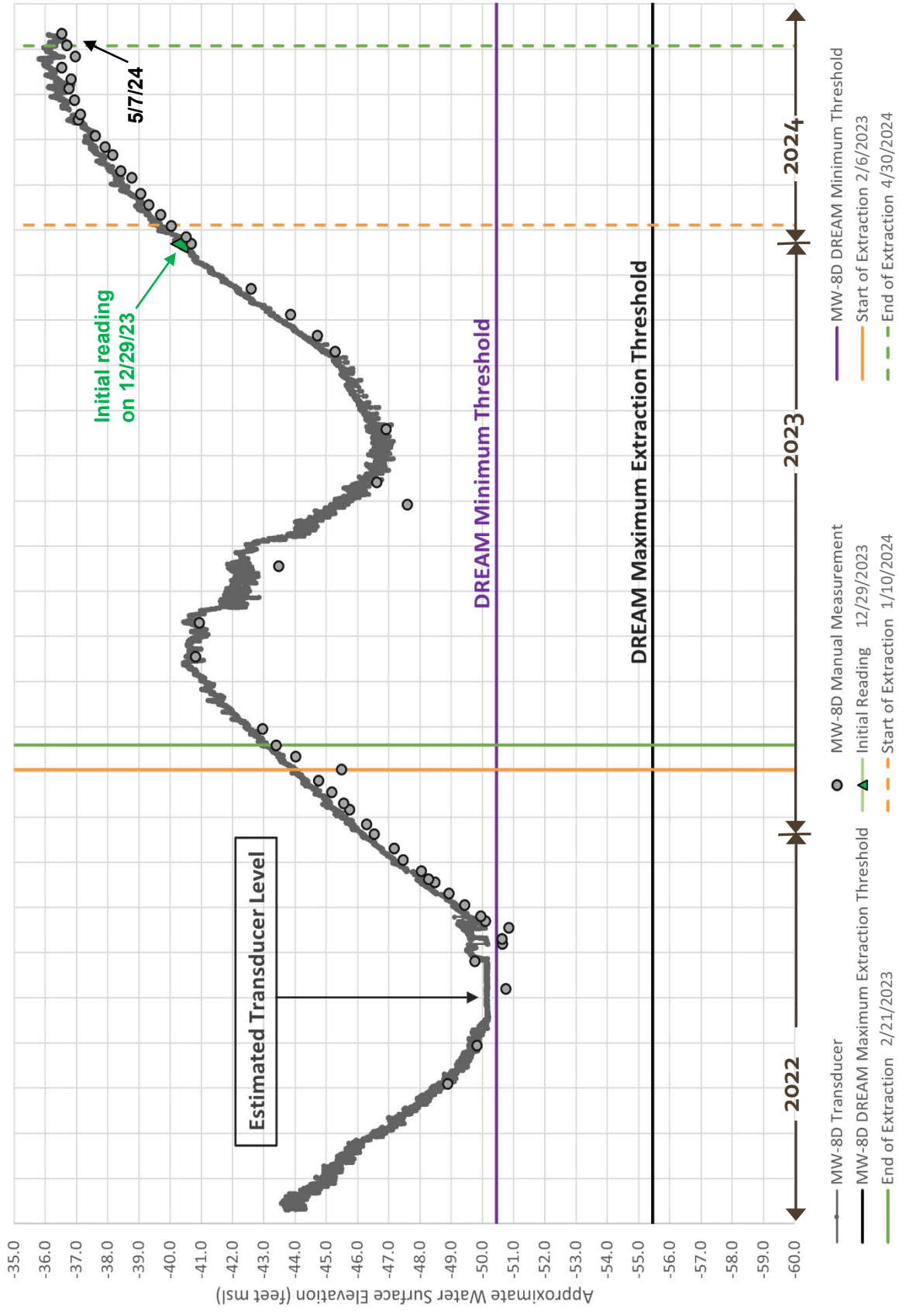


MW-8D Hydrograph

12

- No negative impacts on groundwater levels observed to date
- Levels increasing since extraction started on January 10
- Levels currently ~ 14 feet above minimum threshold

Well MW-8D Hydrograph



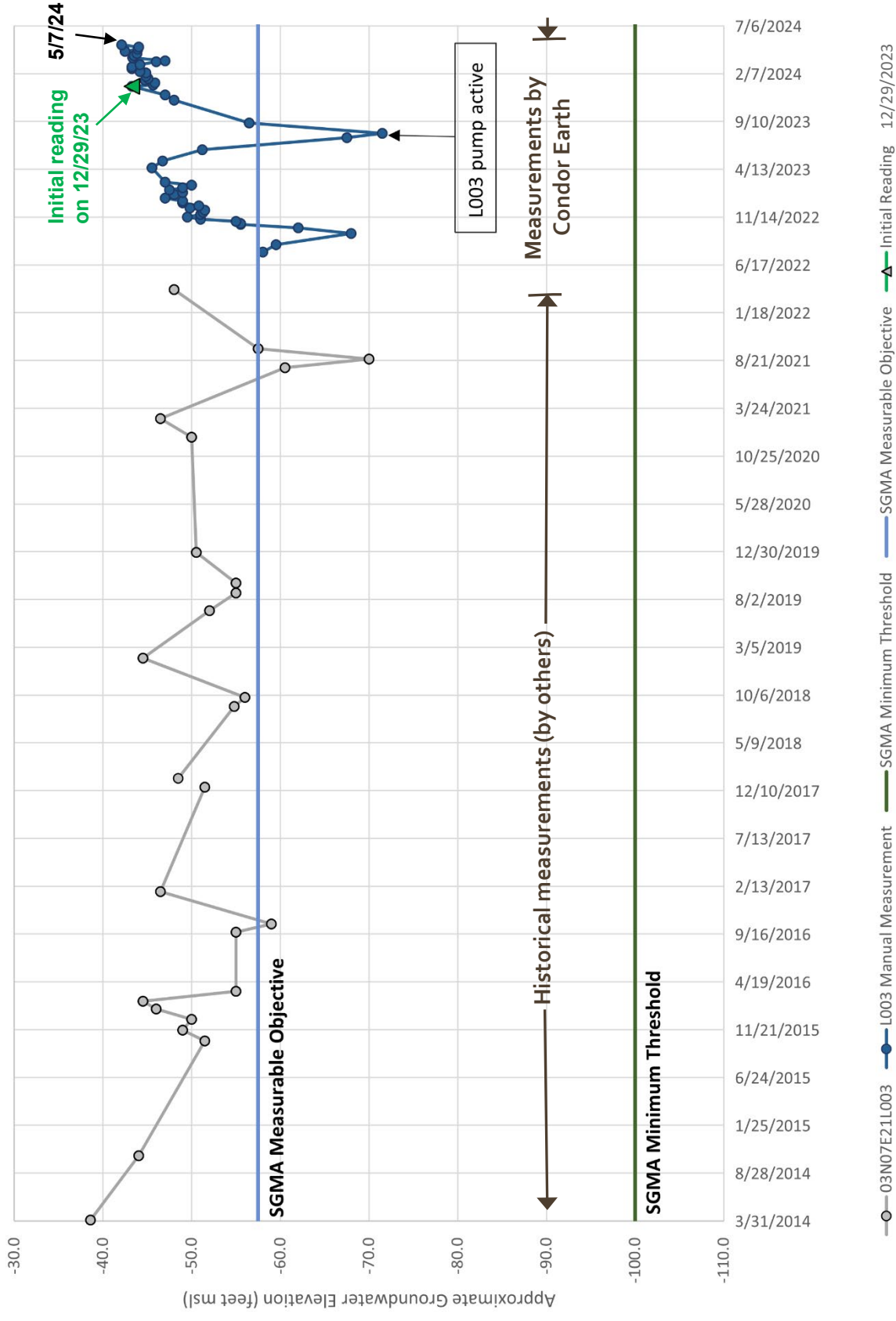
	MW-8D
Initial Reading	-40.30
Regional Trend Adjustment (91 Days)	-0.155
DREAM Minimum Threshold	-50.45
DREAM Maximum Extraction Threshold	-55.45

03N07E21L003 Hydrograph

- Limited interpretation of data trends, but levels measured since January 10 have been ~15 feet above the measurable objective
- Measurable objective and minimum thresholds are from the Eastern San Joaquin Groundwater Sustainability Plan (SGMA representative monitoring well)
- Manual water level measurements are less reliable due to access issues
- L003 may be pumped for agricultural purposes

	L003
Initial Reading	-43
SGMA Measurable Objective	-57.5
SGMA Minimum Threshold	-100

Well 03N07E21L003 Hydrograph

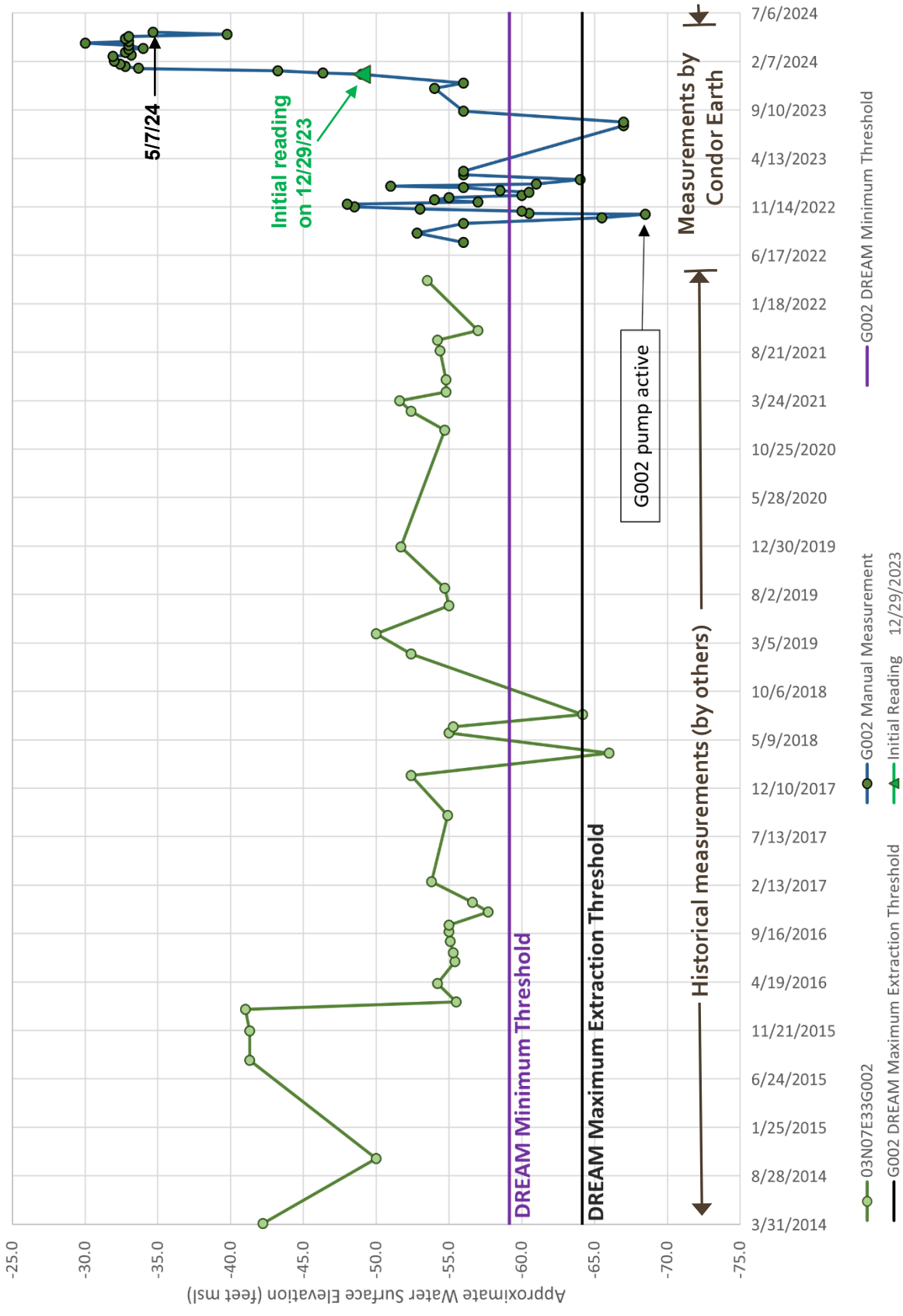


03N07E33G002 Hydrograph

Well 03N07E33G002 Hydrograph

14

- Limited interpretation of data trends, but levels measured since January 10 show no negative impacts and have increased significantly – levels currently ~24 feet above minimum threshold
- Manual water level measurements less reliable due to access issues
- G002 may be pumped for agricultural purposes



	G002
Initial Reading	-49
Regional Trend Adjustment (91 Days)	-0.155
DREAM Minimum Threshold	-59.2
DREAM Maximum Extraction Threshold	-64.2

Lessons Learned

- Adapting existing, vintage equipment for modern applications requires significant troubleshooting, repairs, and retrofitting
- Dedicated wells are needed to monitor groundwater levels; ag well access issues result in low resolution and unclear trends
- In wet years, growers are less inclined to take irrigation water for banking due to reduced irrigation demand – need more acres to take irrigation water or a combination of irrigated acres and direct recharge locations
- Additional flow measurement locations would improve water accounting
- Close collaboration among partners is critical for success

Next Steps

- Continued review of operational/technical lessons learned
- Develop concepts for a larger scale regional groundwater banking program in the San Joaquin County area
- Continue to develop existing regional partnerships that improve water supply conditions

Questions?

July 2022 DREAM Tour With Board Members and Key Stakeholders



THIS PAGE
INTENTIONALLY
LEFT BLANK