

WMA

Santa Ynez River Valley Groundwater Basin
Western Management Area
Groundwater Sustainability Agency

February 28, 2024
GSA WY2024 Quarter 2 Meeting

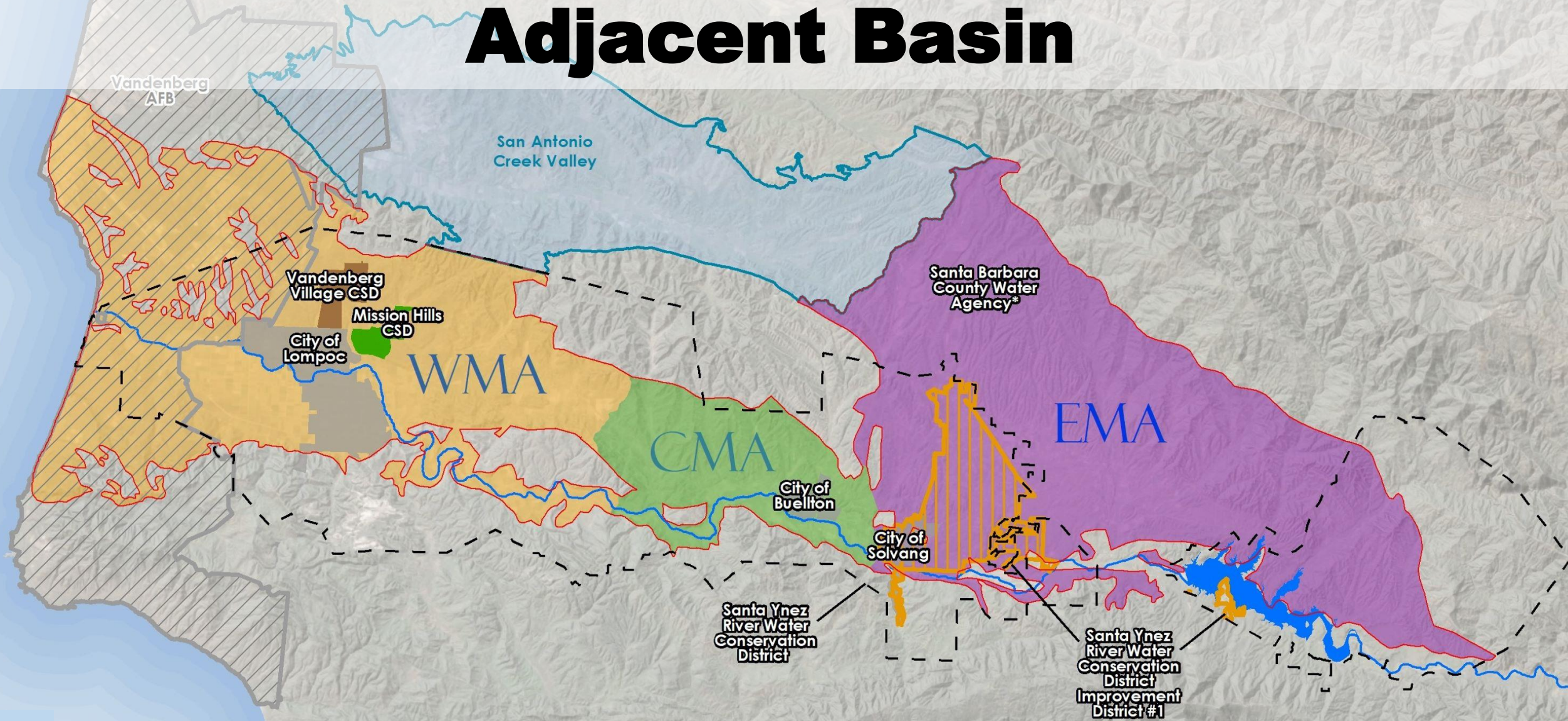
Third Annual Report Water Year 2023



Agenda

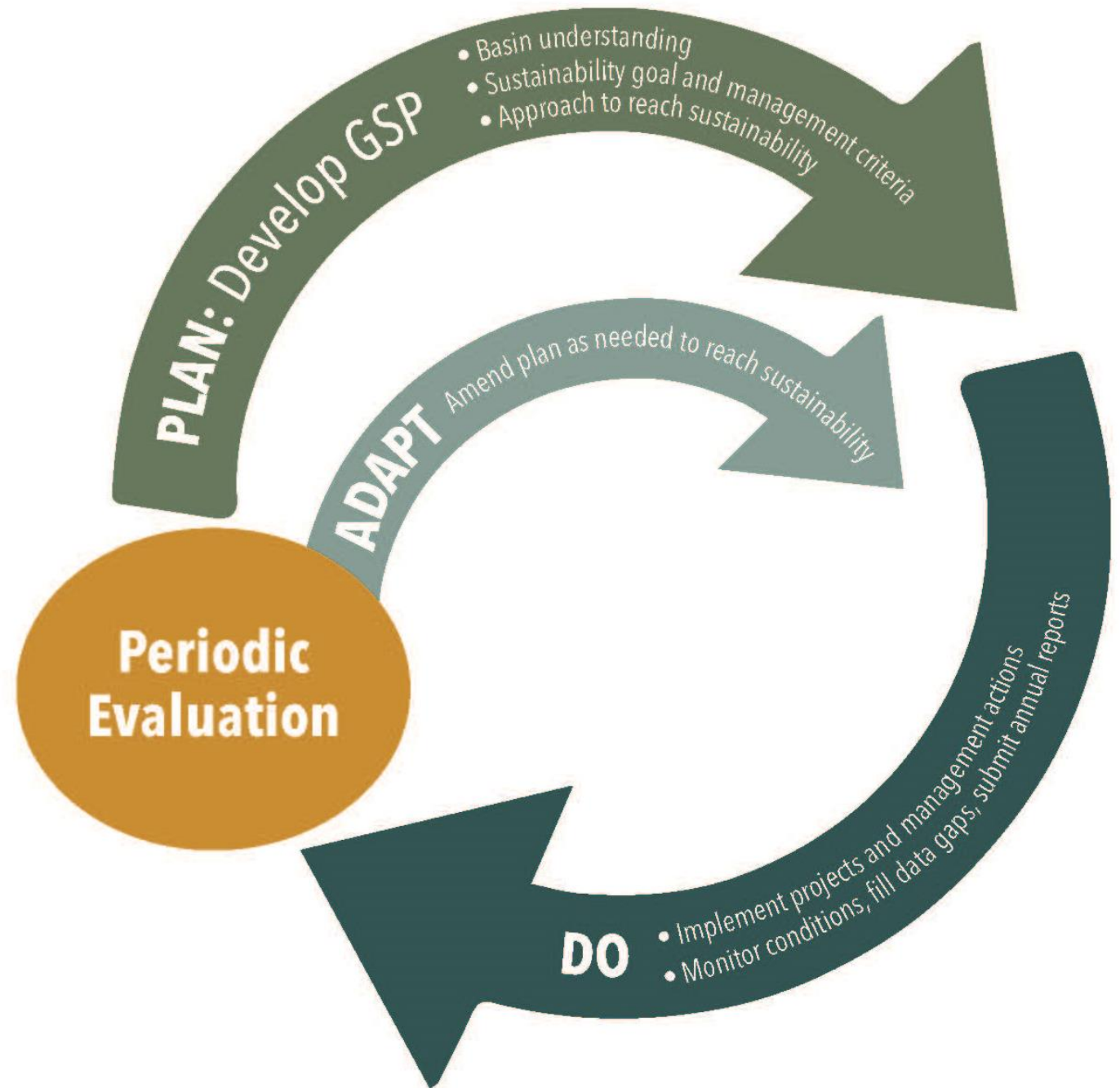
1. Overview of Groundwater Sustainability Plan
Schedule
2. Annual Report Summary for Water Year 2023

Basin, Management Areas, & Adjacent Basin



WMA GSP Accepted by DWR!

- **PLAN:** WMA GSA Developed a GSP and submitted on January 18, 2022
 - DWR Accepted the WMA GSP on January 18, 2024
- **DO:** Now we implement projects and management actions, monitor conditions, fill data gaps, and submit annual reports
- **ADAPT:** Future periodic evaluation
 - Address Seven Recommendations by DWR Staff



Annual Reporting

California Water Code [CWC] Section 10728:

On the **April 1 following the adoption of a groundwater sustainability plan** and annually thereafter, a groundwater sustainability agency shall submit a report to the department containing the following information about the basin managed in the groundwater sustainability plan:

- (a) Groundwater elevation data.
- (b) Annual aggregated data identifying groundwater extraction for the preceding water year.
- (c) Surface water supply used for or available for use for groundwater recharge or in-lieu use.
- (d) Total water use.
- (e) Change in groundwater storage.

*(Added by Stats. 2014, Ch. 346, Sec. 3. (SB 1168)
Effective January 1, 2015.)*

**Covers Previous Water Year: WY 2023
(October 2022-September 2023)**

Annual Report Sections:

Executive Summary

1 General Information

2 Basin Conditions

3 Groundwater Hydrographs and Contours

4 Water Use and Surface Water

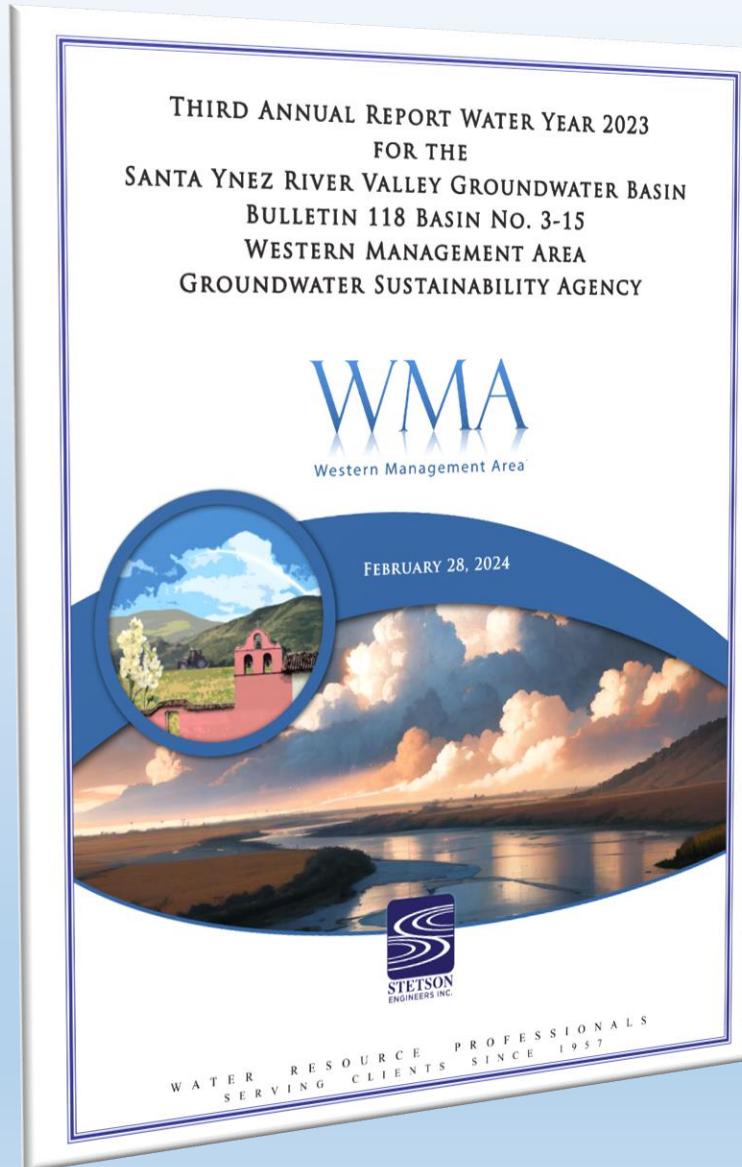
5 Groundwater Storage

6 Progress Towards GSP Implementation and Sustainability

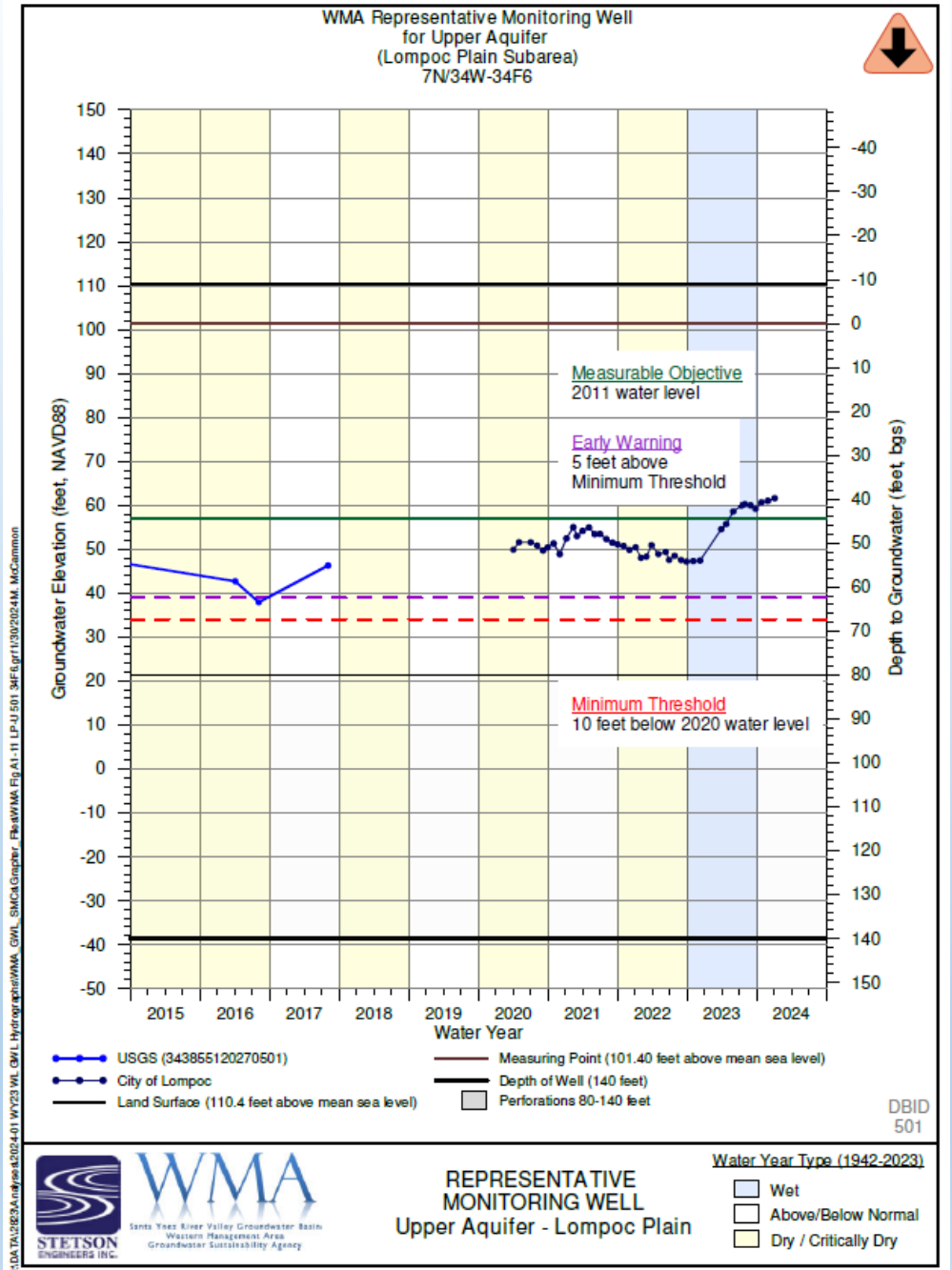
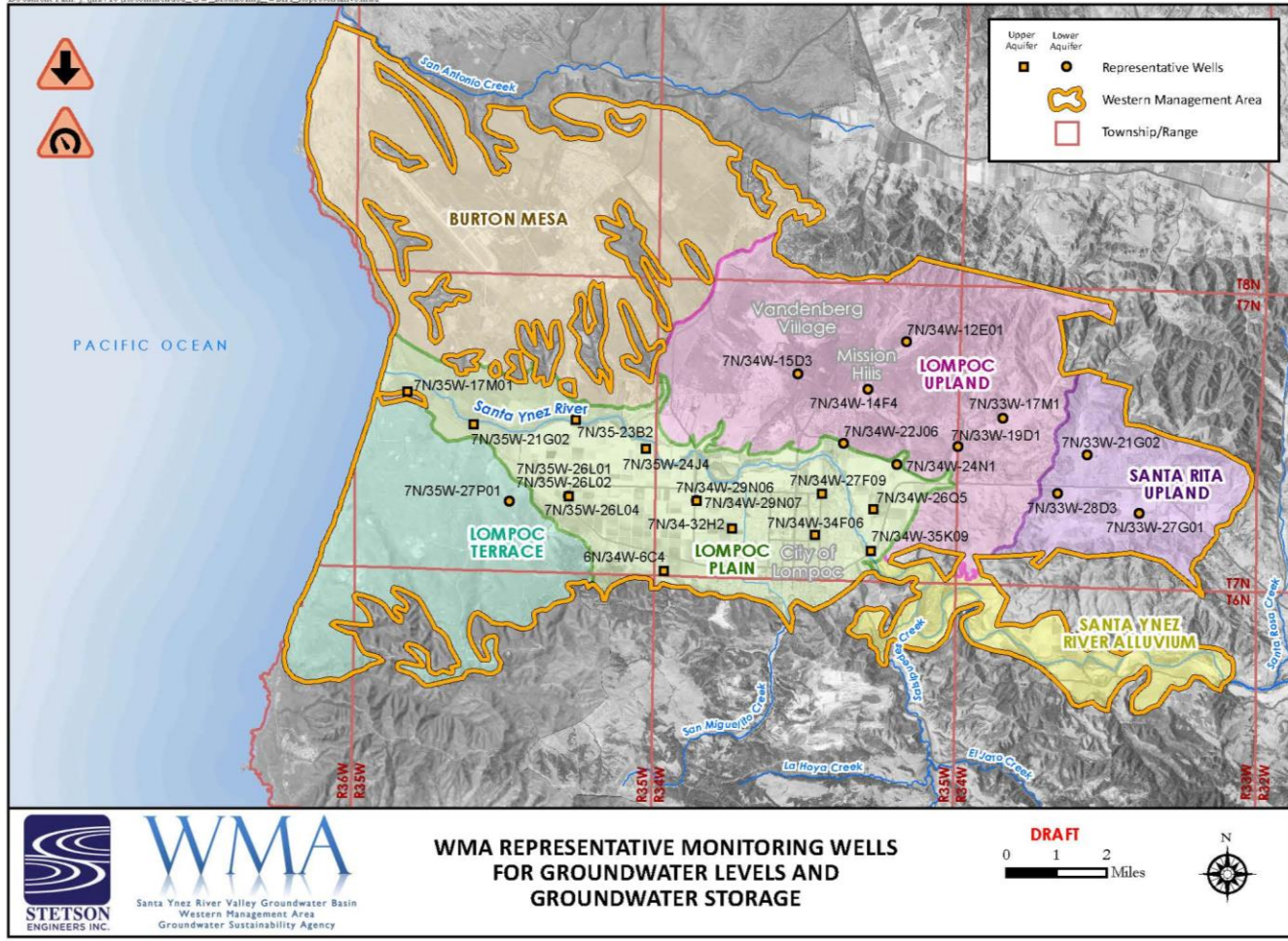
7 References

8 Appendices

WY2023 Summary

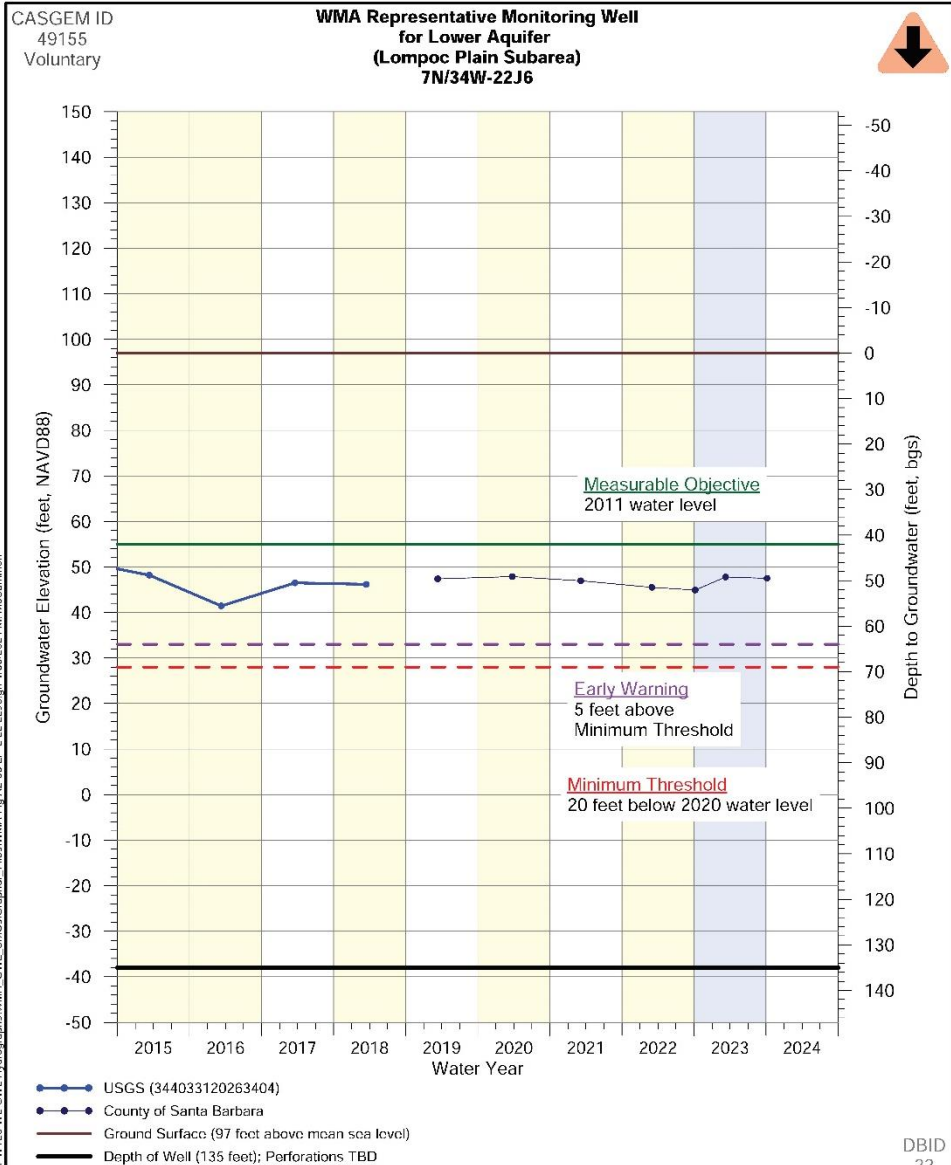


- First wet year in the WMA following eleven years of drought. The largest reservoir on the Santa Ynez River, Lake Cachuma, spilled for the first time since WY 2011.
 - Lompoc City Hall Station recorded 32.01” in WY23 (217% of average).
- Groundwater pumping from both the Upper and Lower Aquifer decreased compared to previous year, totaling 21,600 AF (~10% less than WY22).
 - The Upper Aquifer extraction level for last 10 years (21,000 AFY) is slightly below the sustainable yield, estimated at 22,000 AFY.
 - The Lower Aquifer extraction level for last 10 years (5,000 AFY) is slightly above the sustainable yield, estimated at 4,500 AFY.
- Total groundwater storage in the WMA is estimated to have increased by 14,100 AF in WY23.
- No current undesirable results from groundwater pumping.



Check out historical groundwater data out on <https://sywater.info/>

FIGURE A2-03



DBID 22

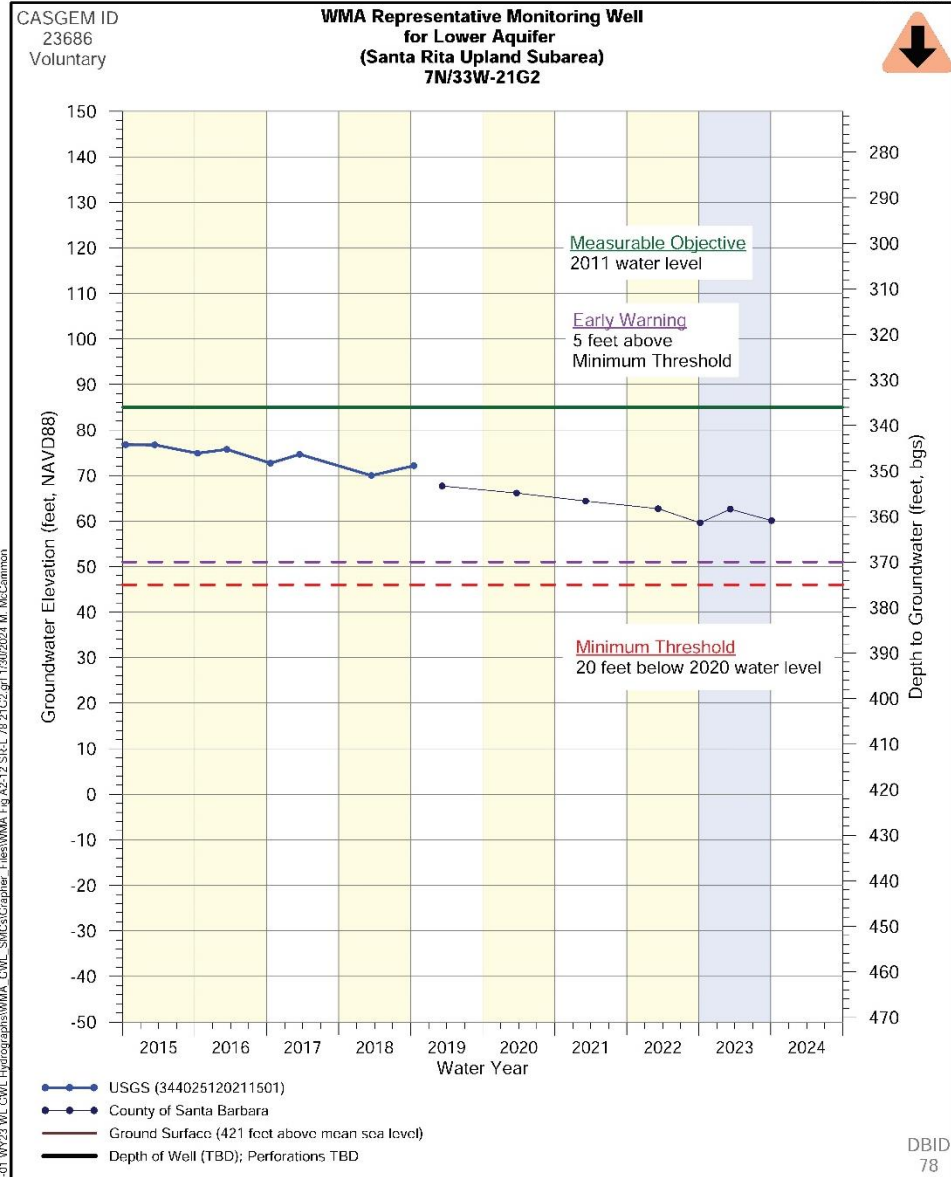


REPRESENTATIVE MONITORING WELL Lower Aquifer - Lompoc Plain

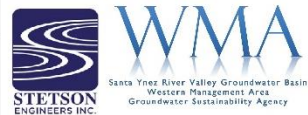
Water Year Type (1942-2023)

Wet
Above/Below Normal
Dry / Critically Dry

FIGURE A2-12



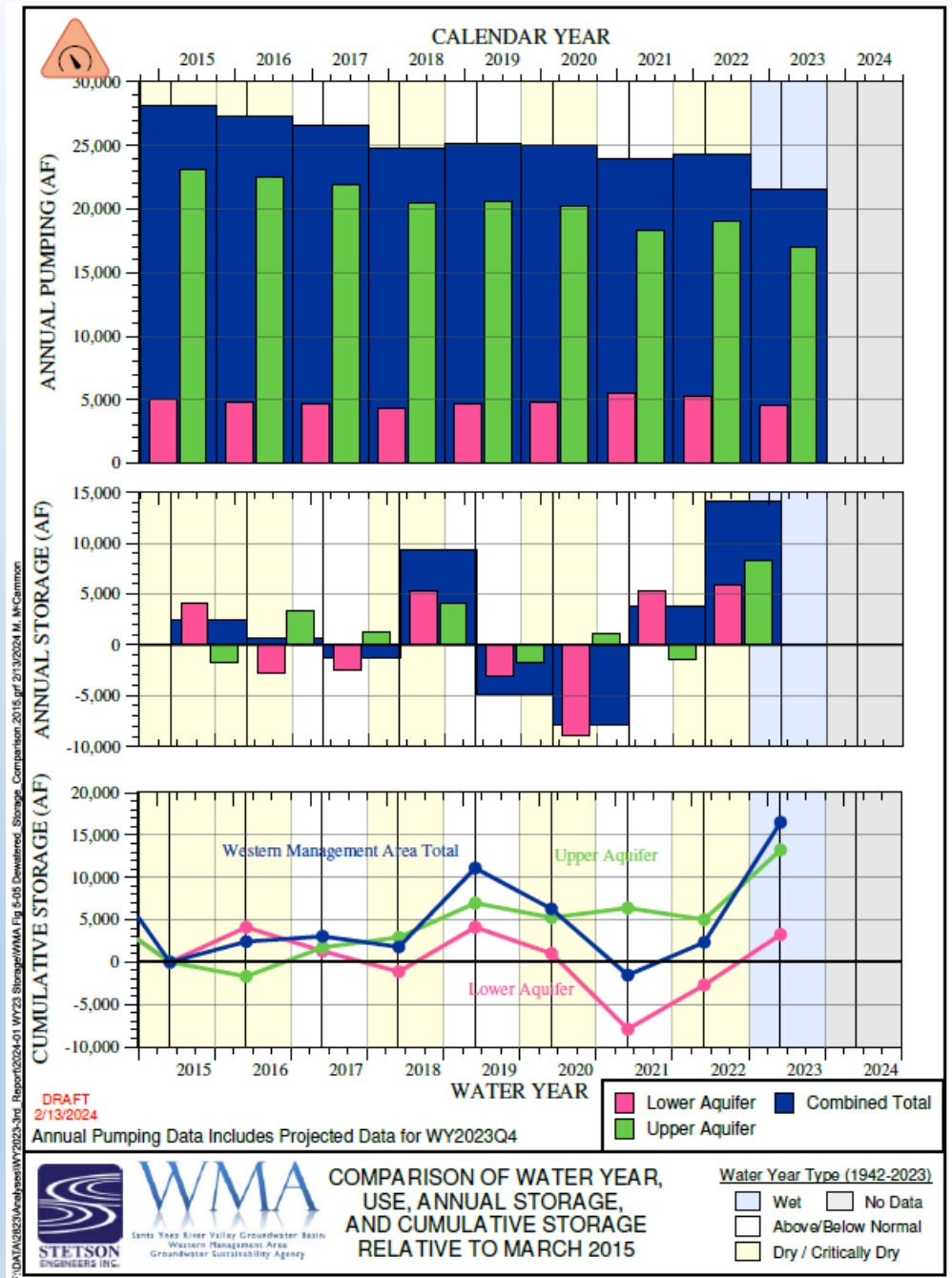
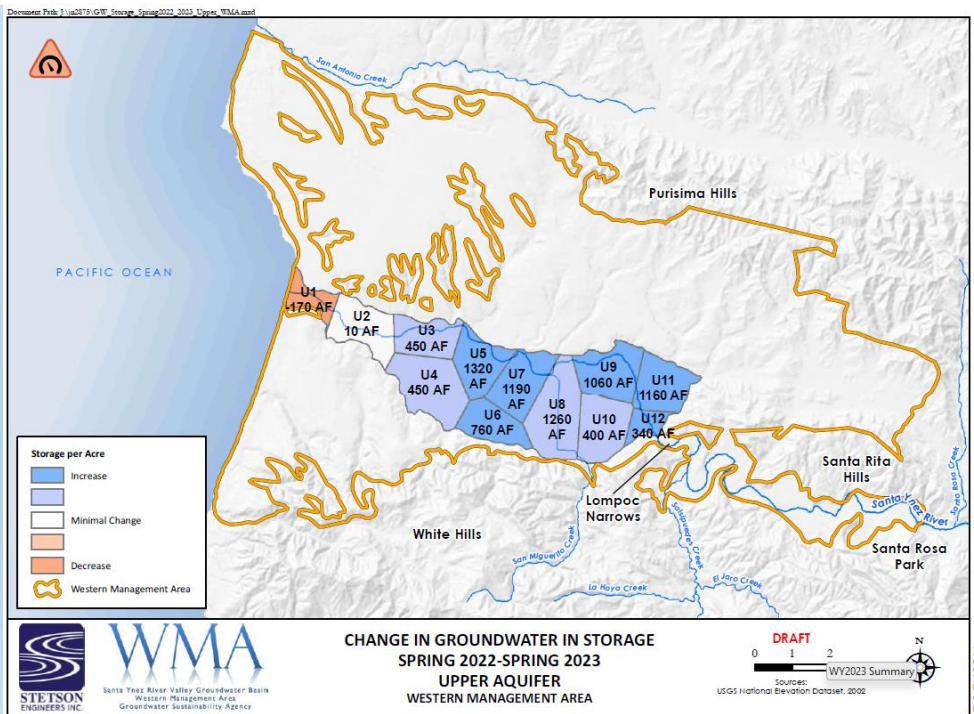
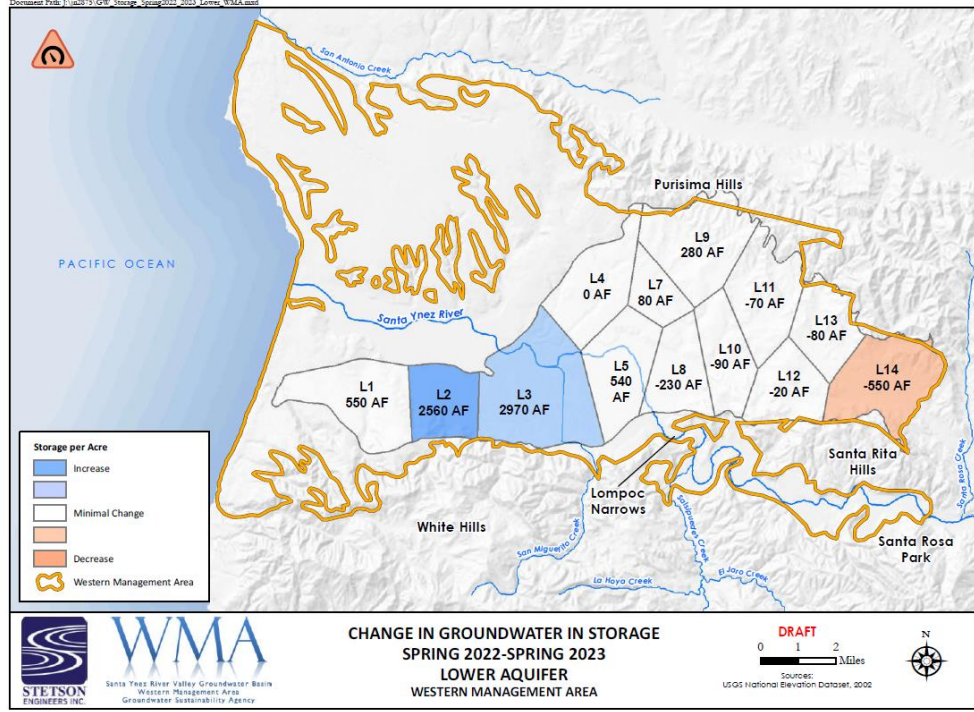
DBID 78



REPRESENTATIVE MONITORING WELL Lower Aquifer - Santa Rita Upland

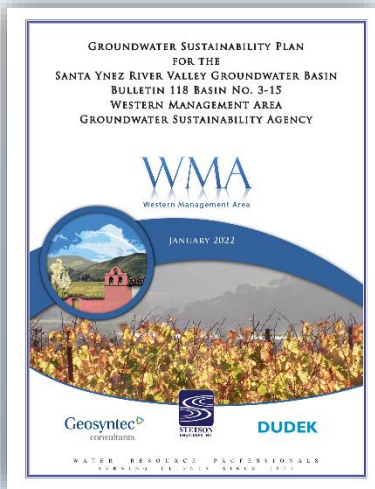
Water Year Type (1942-2023)

Wet
Above/Below Normal
Dry / Critically Dry

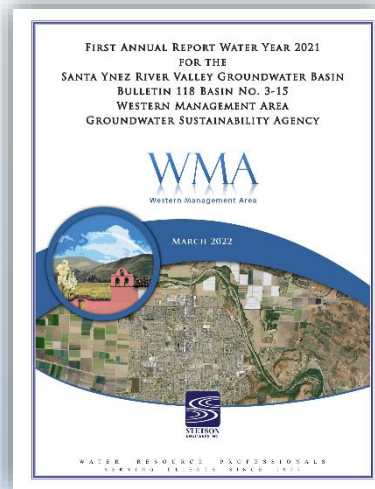


Summary of WMA GSP Implementation Projects

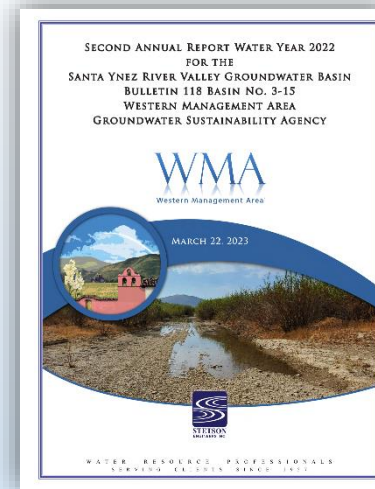
Project Category	Task	Occurrence	Water Year 2023 Status
Completing Ongoing Field Investigations	Surveying Representative Wells	One Time	
	SkyTEM Airborne Geophysics	One Time	Completed
Monitoring Network Gaps	Video Logging and Sounding Wells	One Time	
	Dedicated GWL Monitoring Wells (Outreach)	One Time	
	WQ Seawater Monitoring	Annual	
	SW Gage Installation (planning)	One Time	
Projects and Management Actions	Water Conservation	Annual	
	Groundwater Extraction Fee Study	5 Year	In Progress
	Feasibility Study for Recycled Water Project	One Time	
	Feasibility Study for Bioswale Stormwater Retention	One Time	In Progress
	Ban on Water Softeners	One Time	In Progress
Improved Data Collection for Management	Well Registration Update	One Time	In Progress
	Well Metering Requirement	One Time	
Data Management	Data Updates	Annual	In Progress
Reporting and Plan Updates	SMGA WY Annual Reports	Annual	In Progress
	SGMA Five-Year Plan Assessment	5 Year	



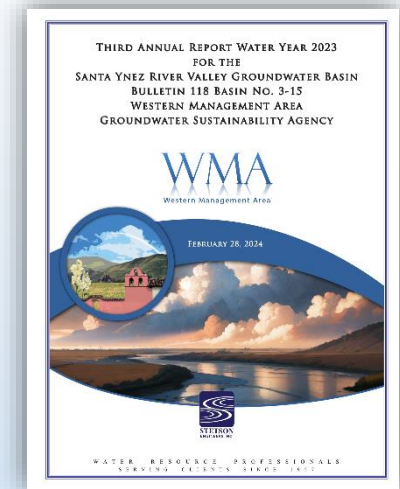
**Groundwater
Sustainability
Plan (2022)**



**1st Annual
Report, WY2021
(2022)**



**2nd Annual
Report, WY2022
(2023)**



**3rd Annual
Report, WY2023
(2024-new)**

Questions?