Paso Robles Subbasin GSP First Annual Report (2017-2019) March 18, 2020

Presented to:

Paso Basin Cooperative Committee and the Groundwater Sustainability Agencies





Presentation Outline

- DWR Regulations and Process
- Groundwater Elevations
- Groundwater Extractions
- Surface Water Use
- Total Water Use
- Change in Groundwater in Storage
- Progress toward Meeting Basin Sustainability

DWR
Process
and
Regulations
(§ 356.2)

"Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan."

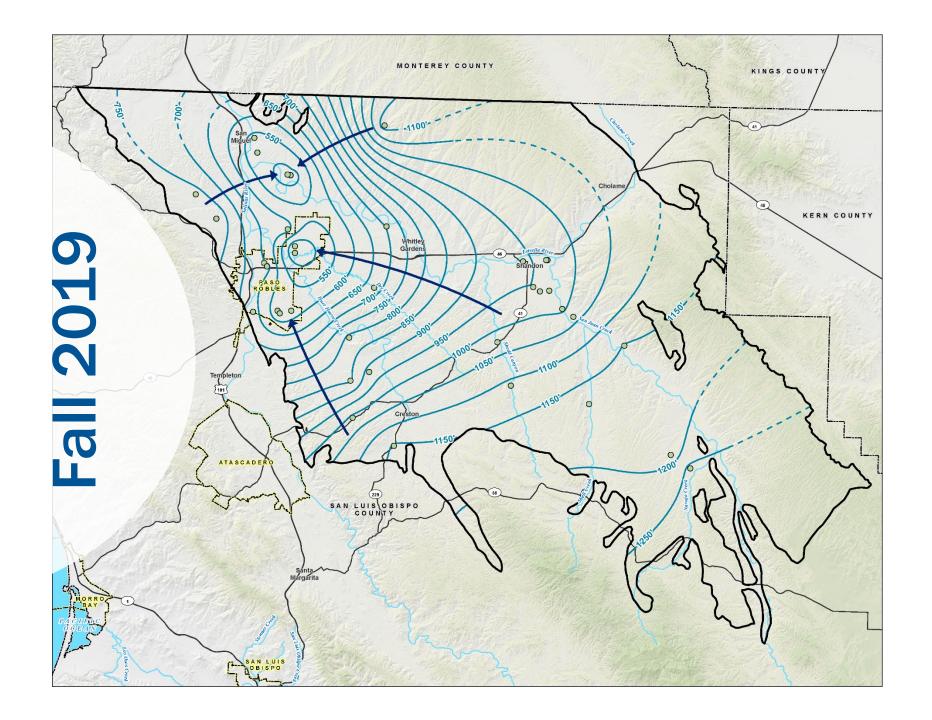
Groundwater Elevations (§ 356.2[b][1])

Fall 2017 through Fall 2019

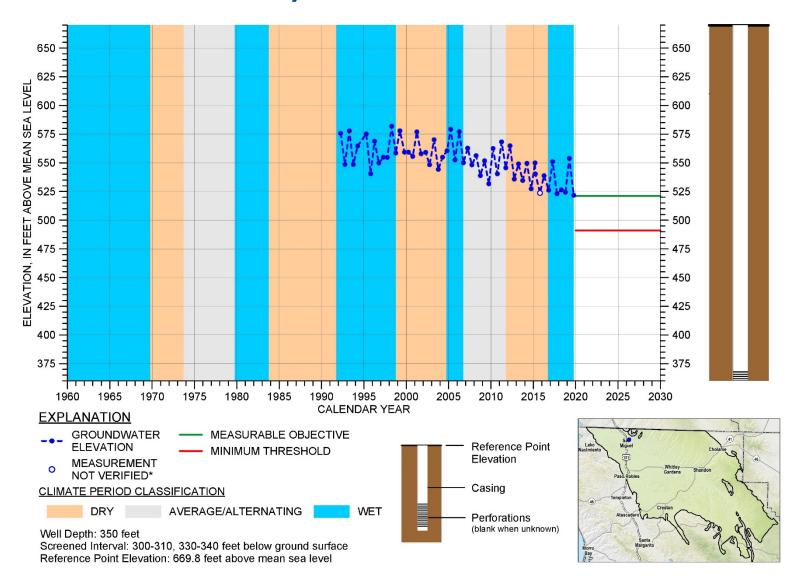
 Paso Robles Formation Aquifer

 Seasonal High and Low (Spring and Fall) Contour Maps

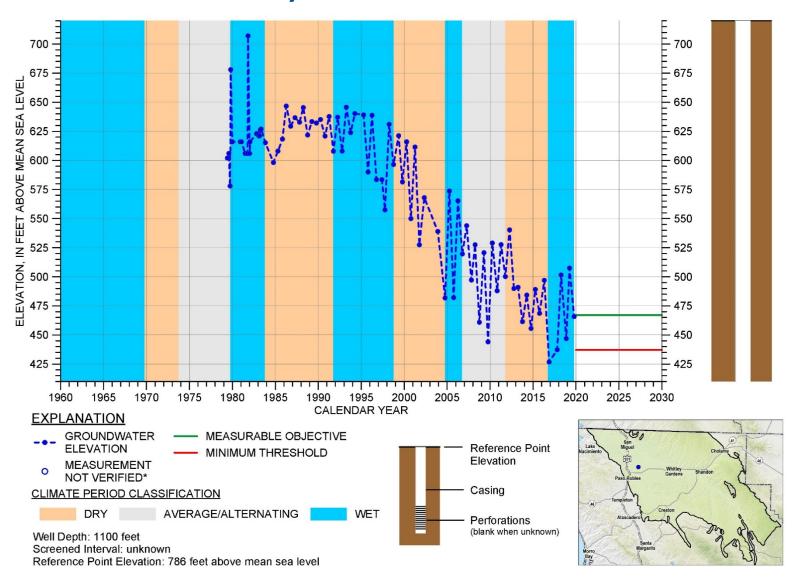
Hydrographs



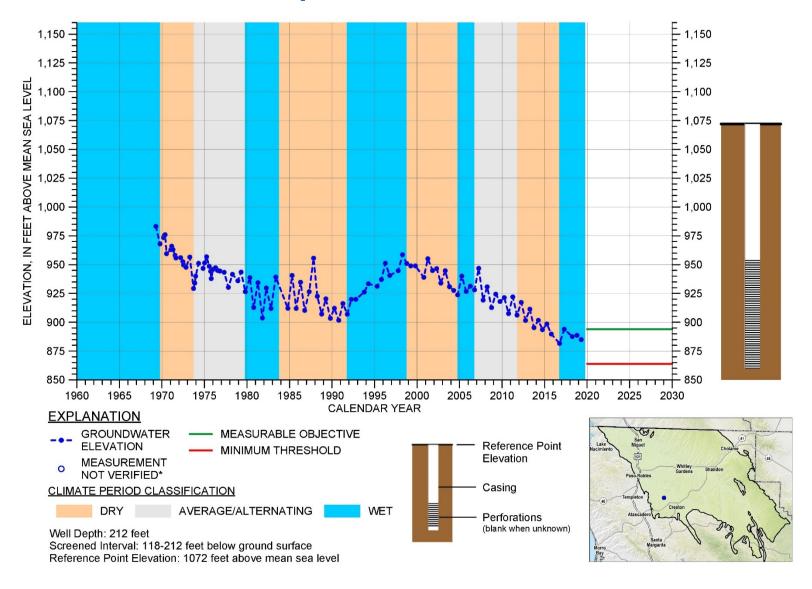
25S/12E-16K05



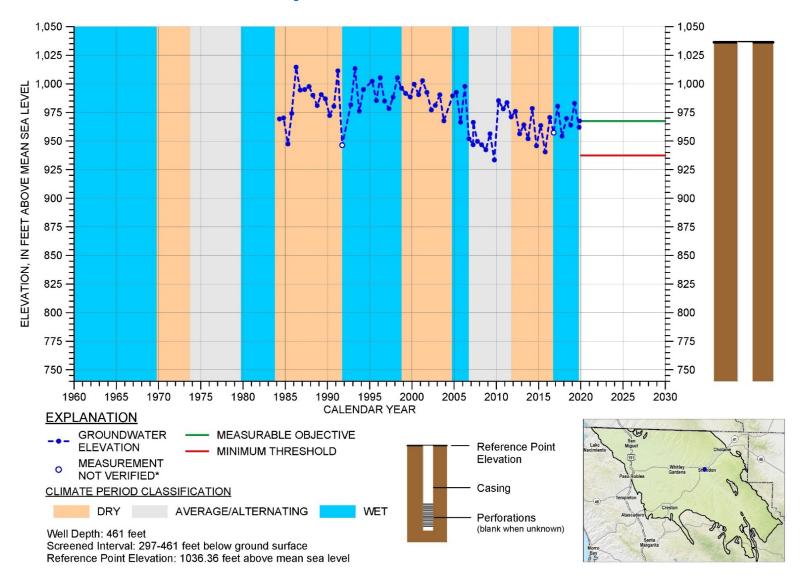
26S/12E-14K01



27S/13E-28F01



26S/15E-20B04



Metered Municipal Well Production

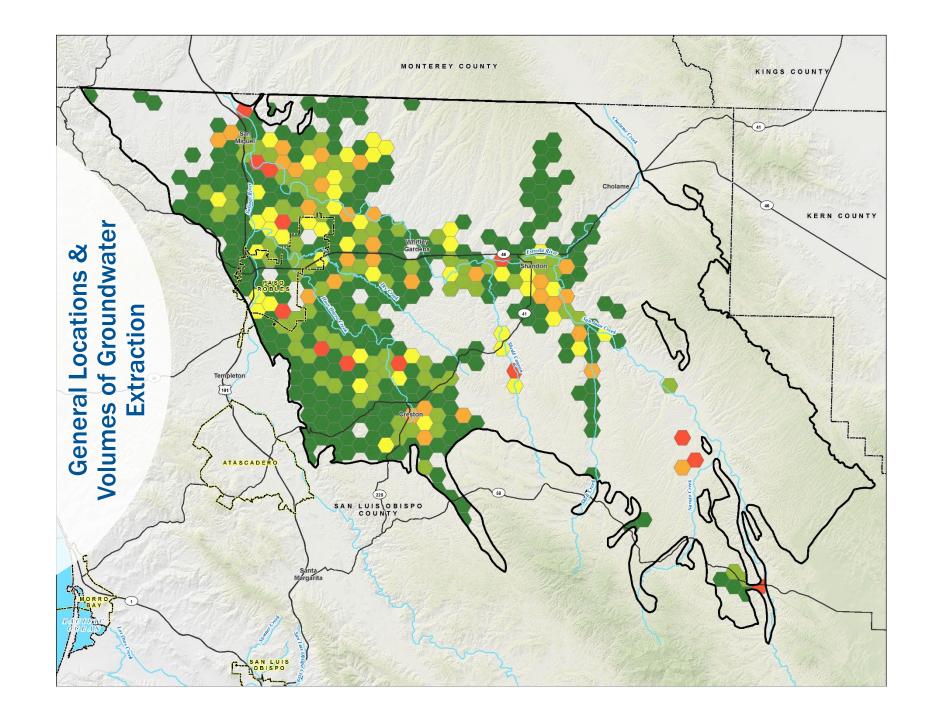
Groundwater Extractions (§ 356.2[b][2])

 Estimated Agricultural Extraction

Estimated Rural
 Domestic and Small
 Public Water System
 Extraction

Total Groundwater Extractions

	Groundwater Extractions by Water Use Sector			
Water Year	Municipal (AF)	PWS and Rural Domestic (AF)	Agriculture (AF)	Total (AF)
2017	4,235	5,060	72,500	81,800
2018	5,029	5,060	71,000	81,100
2019	4,804	5,060	72,200	82,100



Surface Water Use (§ 356.2[b][3])

 Surface Water Available for Use

Total Surface Water Use

Surface Water Use

Surface Water Available for Use

Water Year	Nacimiento Water Project (AF)	State Water Project (AF)	Total Available Surface Water (AF)
2017	6,488	100	6,588
2018	6,488	100	6,588
2019	6,488	100	6,588

Total Surface Water Use

Water Year	Nacimiento Water Project (AF)	State Water Project (AF)	Total Surface Water Use (AF)
2017	1,784	42	1,826
2018	2,284	55	2,339
2019	1,498	43	1,541

Total Water Use (§ 356.2[b][4])

Total Annual Water Use
 by Source

Total Annual Water Use
 by Water Use Sector

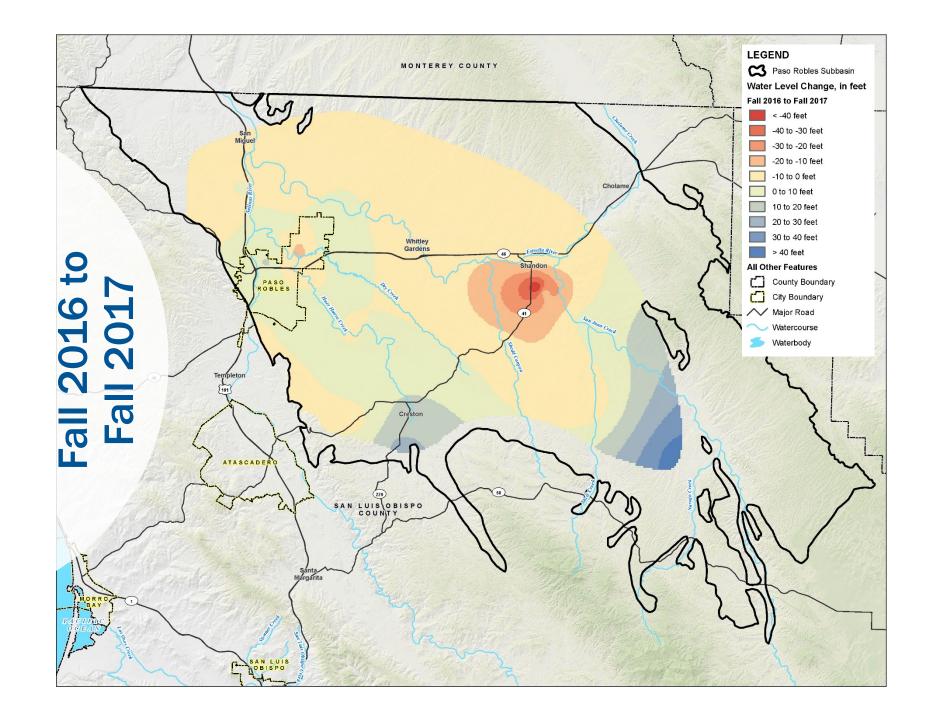
Total Water Use

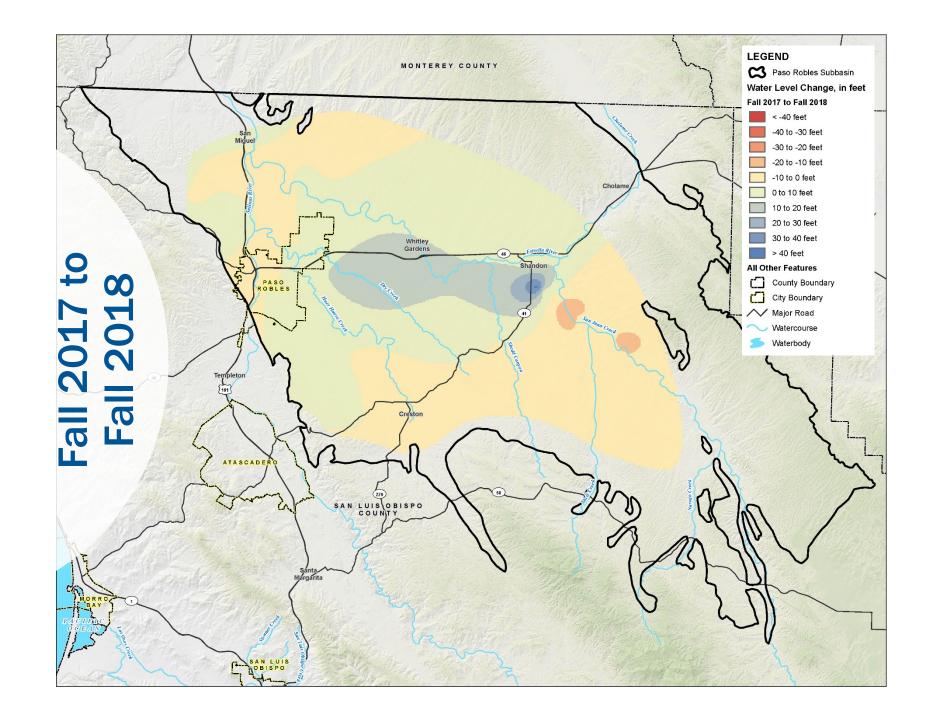
Water Year	Municipa	al (AF)	PWS and Rural Domestic (AF)	Agriculture (AF)	Total (AF)
Source:	Groundwater	Surface Water	Groundwater	Groundwater	
2017	4,235	1,826	5,060	72,500	83,600
2018	5,029	2,339	5,060	71,000	83,400
2019	4,804	1,541	5,060	72,200	83,600

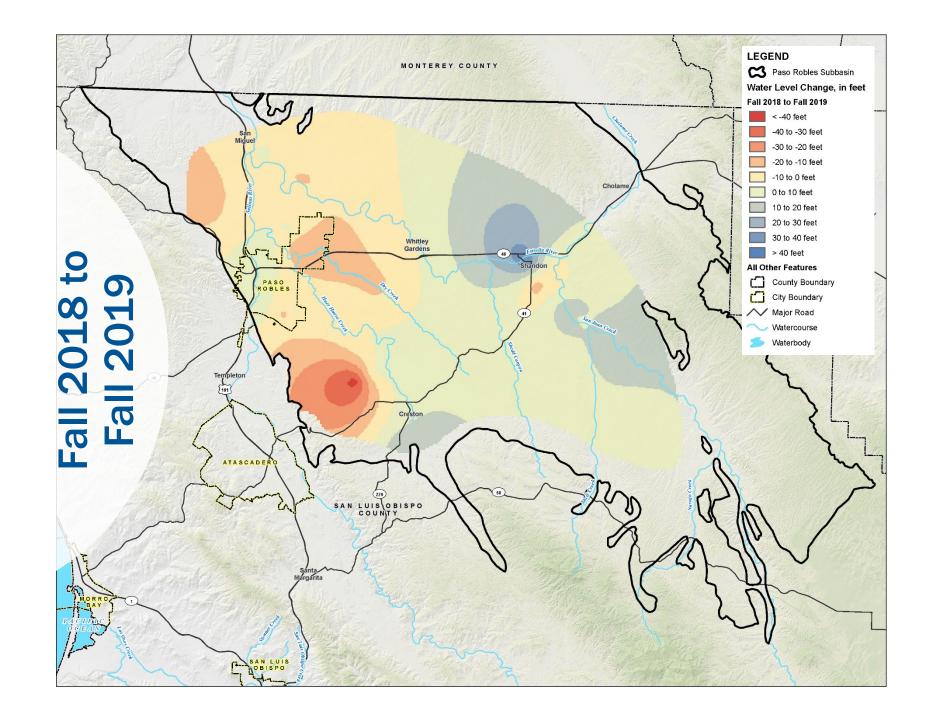
Change in Groundwater in Storage (§ 356.2[b][5])

 Annual Changes in Groundwater Elevation

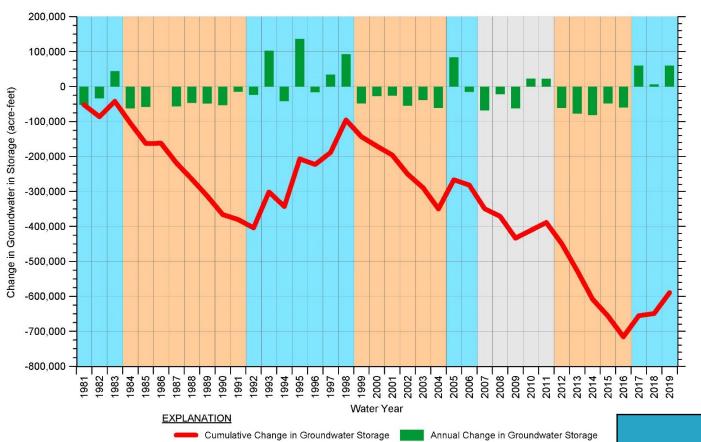
Annual and Cumulative
 Change in Groundwater
 in Storage Calculations







Annual and Cumulative Change in Groundwater in Storage



e in Groundwater Storage

Water Year	Annual Change (AF)
2017	60,100
2018	6,400
2019	59,700

Progress toward Meeting Basin Sustainability (§ 356.2[c])

- Emerging Subbasin Conditions:
 - Declining Groundwater Elevations
 - Decline of Groundwater in Storage

- Projects and Management Actions Goals:
 - Reduce Groundwater Pumping
 - Achieve Groundwater
 Sustainability by 2040

Projects and Management Actions

- Basin-Wide Management Actions and Projects
 - Amendment #1 to the MOA
 - Extension of Water Neutral New Development Program
 - Paso Basin Aerial Groundwater Mapping Pilot Study

Projects and Management Actions

- Area-Specific Projects
 - Expand Alluvial Aquifer Monitoring Network and Install New Stream Gages
 - City of Paso Robles Recycled Water Program
 - San Miguel CSD Recycled Water Project
 - Blended Water Project
 - Stormwater Capture and Recharge Projects
 - City of Paso Robles Municipal Stormwater Program
 - SSJWD/EPCWD Stormwater Capture and Recharge Feasibility Study

24

GSI Water Solutions, Inc.

Questions?

