

WMA

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

October 27 2021
GSA 2021 Special Meeting
Draft Groundwater Sustainability Plan



DUDEK

Geosyntec
consultants

engineers | scientists | innovators

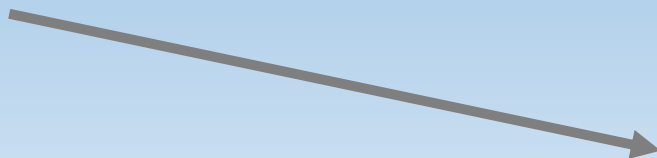
Housekeeping

- Recording the meeting for the purpose of capturing public feedback
- Recording can be made available upon request
- Opportunities for public feedback and questions throughout the workshop
- Public comments should be submitted to the website:



www.santaynezwater.org

- Slide numbers in lower right

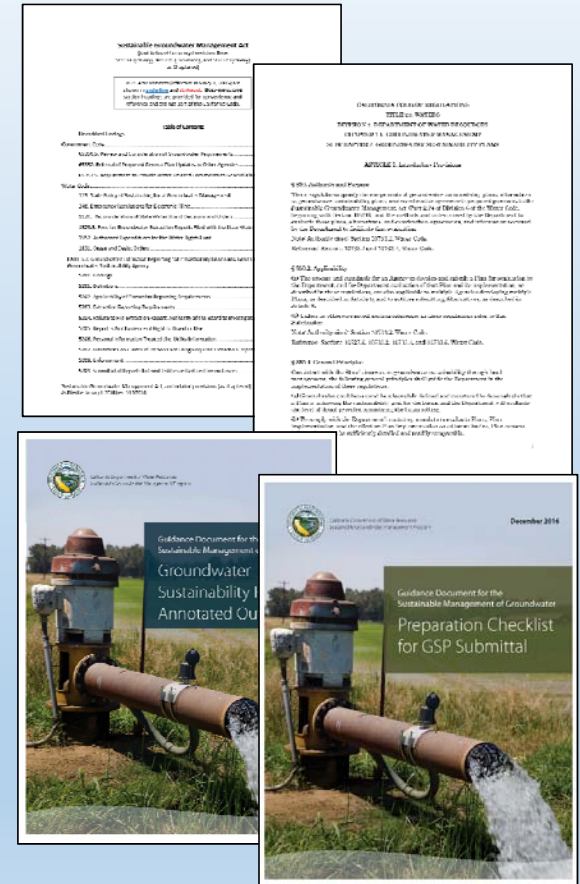


Agenda

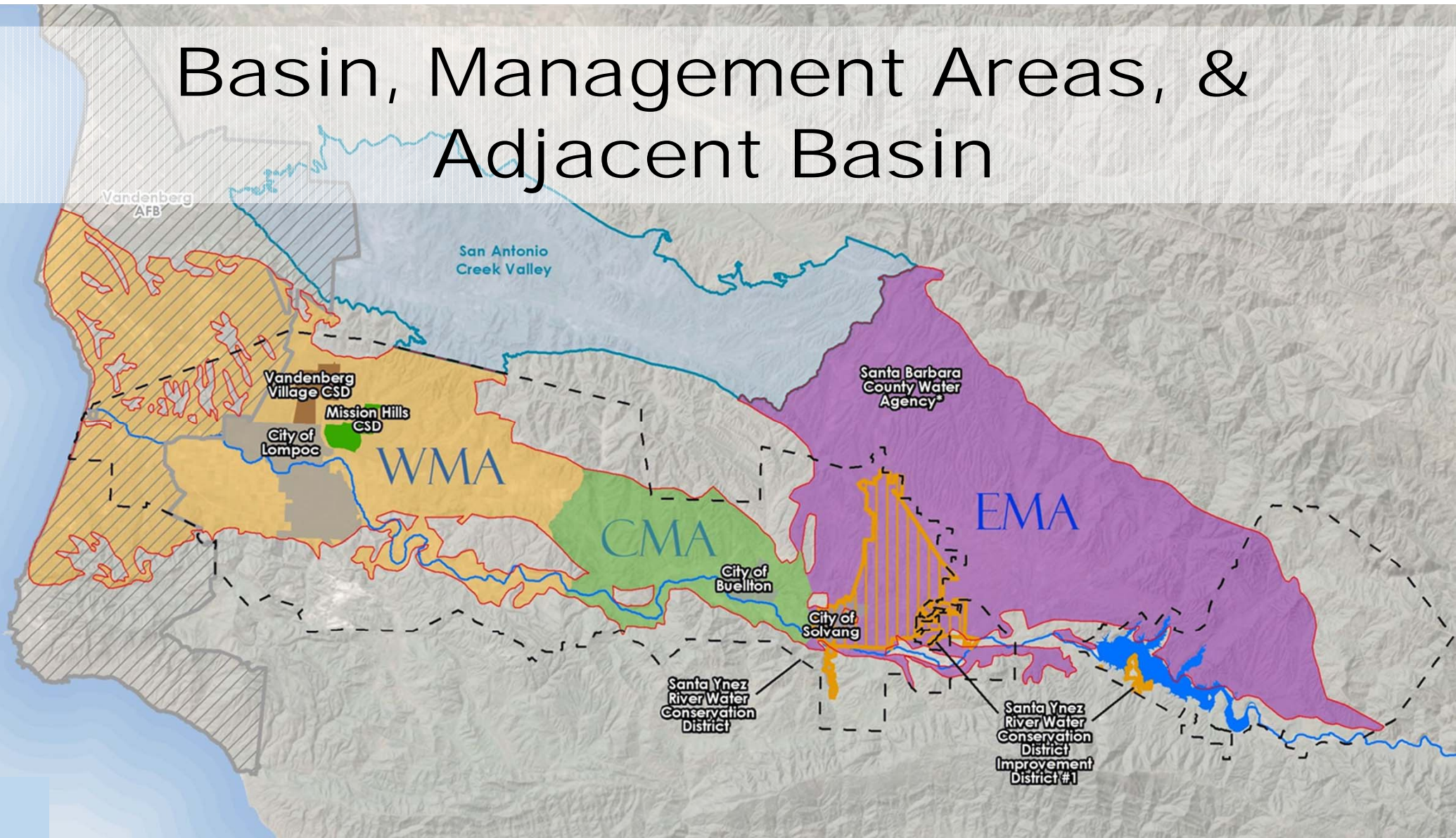
1. Review GSP Development Process
2. GSP Summary
3. Public Comments
4. Way Ahead/ Schedule
5. Discussion

SGMA Background

- 2015 SGMA law went into effect
- SYRVGW Basin is “medium priority”
- Basin must be sustainable in 20 years
- SGMA gives local control of water management
- Each GSA will prepare a Groundwater Sustainability Plan (GSP) and submit to DWR by January 2022
- State Water Board is enforcement if locals do not comply
- New law was in response to periodic droughts in California

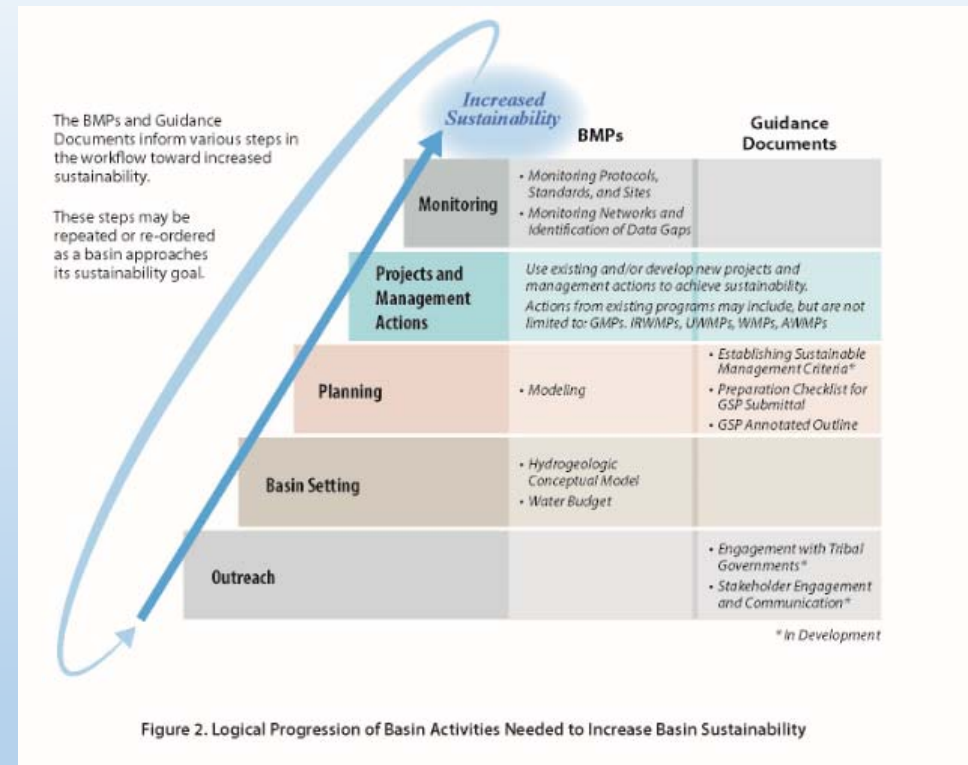


Basin, Management Areas, & Adjacent Basin



Review of the GSP Development

- a. Early Planning/Data Collection
 - a. Data Management Plan
 - b. Stakeholder Outreach Plan
- b. Hydrogeologic Conceptual Model
 - a. Geologic Model
 - b. Watershed Elements
 - c. Groundwater Current Conditions
 - d. Water Budget
- c. Monitoring Plan/Sustainable Management Criteria
- d. Projects and Management Actions/ Implementation



Development Milestones: GSA Meetings and Documents for Public Review



GSA Committee Presentations

WMA GSA STATUS UPDATE & PRESENTATIONS

- [August 25, 2021 Governance and Funding Proposals for Basin](#)
- [August 25, 2021 Overview of WMA Draft Groundwater Sustainability Plan](#)
- [July 28, 2021 Projects & Management Actions and Implementation of the GSP for the WMA](#)
- [May 26, 2021 Sustainable Management Criteria and Projects & Management Actions for the WMA](#)
- [May 12, 2021 Sustainable Management Criteria for the WMA](#)
- [April 28, 2021 Status Update and WMA Stakeholder Workshop regarding Numerical Groundwater Model and Model Documentation](#)
- [April 14, 2021 Status Update and WMA Stakeholder Workshop regarding Water Budget and Sustainable Preliminary Determination and Discussion](#)
- [February 2021 Status Update and WMA Stakeholder Workshop regarding Water Budget](#)
- [January 2021 Status Update and WMA Stakeholder Workshop regarding Groundwater Conditions, Water Budget, Groundwater Model and Sustainable Management Criteria Thresholds](#)
- [November 2020 Status Update and WMA Groundwater Conditions Workshop Presentation](#)
- [October 2020 Status Update and WMA HCM Workshop Presentation](#)
- [August 2020 Status Update](#)
- [May 2020 Status Update](#)
- [February 2020 Status Update](#)

<https://www.santaynezwater.org/western-gsa>

Documents for Public Review Prior to Draft GSP

DRAFT DOCUMENTS - PUBLIC COMMENT PERIOD CLOSED

- [WMA Monitoring Network and Sustainable Management Criteria \(SMC\) DRAFT \(July 1, 2021\)](#)

- [WMA-CMA Numerical Model DRAFT Technical Memo \(May 19, 2021\)](#)
- [WMA-CMA Numerical Model - Figures DRAFT \(May 19, 2021\)](#)
- [WMA-CMA Numerical Model - Attachments DRAFT \(May 19, 2021\)](#)

- [WMA Water Budget Technical Memo DRAFT \(April 2021\)](#)
- [WMA Water Budget - Figures DRAFT \(April 2021\)](#)

- [WMA Groundwater Conditions Technical Memo \(GCTM\) DRAFT \(Feb. 2021\)](#)
- [WMA GCTM - Figures DRAFT \(Feb. 2021\)](#)
- [WMA GCTM - Appendix A: Hydrographs \(Feb. 2021\)](#)
- [WMA GCTM - Appendix B: Land Subsidence \(Feb. 2021\)](#)

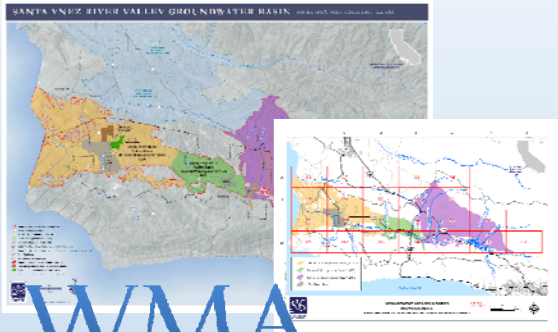
- [WMA Hydrogeologic Conceptual Model \(HCM\) DRAFT \(Oct. 2020\)](#)
- [WMA HCM - Appendix A: DRAFT Tech Memo \(Oct. 2020\)](#)
- [WMA HCM - Figures DRAFT \(Oct. 2020\)](#)

DRAFT DOCUMENTS

- [WMA Data Management Plan - DRAFT FINAL \(Feb. 2020\)](#)
- [WMA Public Outreach and Engagement Plan - DRAFT FINAL \(Feb. 2020\)](#)

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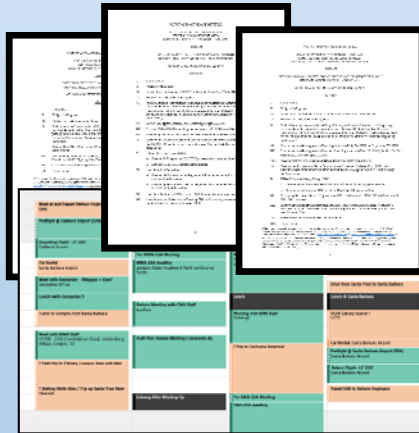
2019 - Building the GSA and Staff Support Tools



WMA

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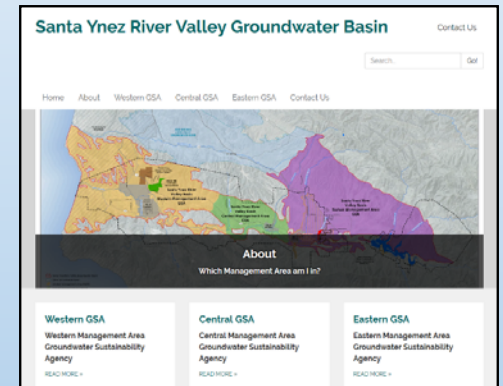
GSA Support &
CAG Formation



Meeting Participation &
Public Comment








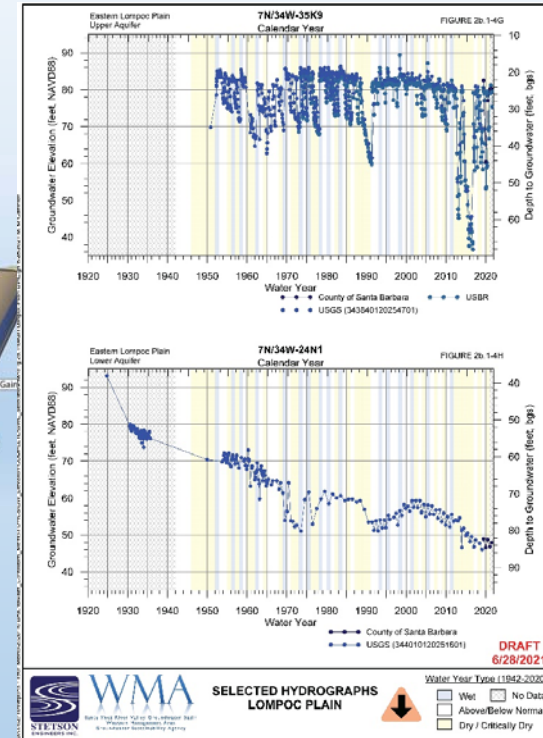
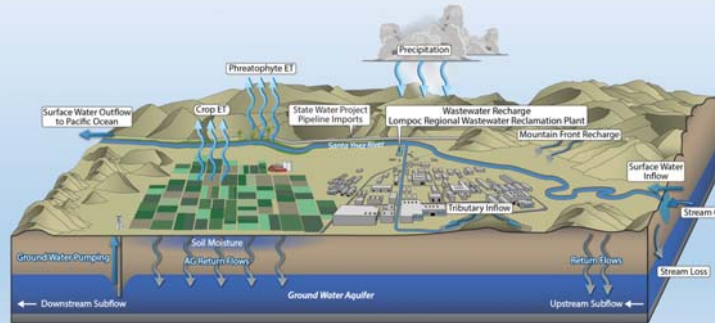
Outreach Plan
and Tool
Development



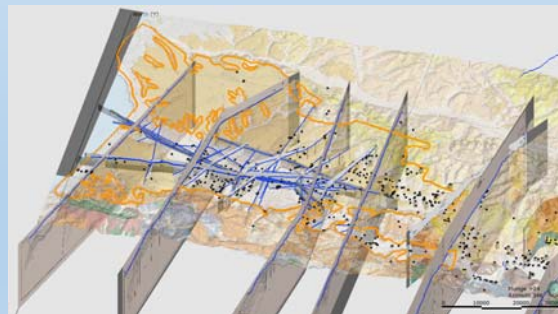
Groundwater
Communication
Portal (GCP)

2020 - Building the Database and Analyses for Science-based Management

Type	Data Uploaded
 Pumping Data	Buellton (2007-17), Lompoc (2003-13), Vandenberg Village Community Services District (2005-19), Public Water System Statistics Surveys (2006-18) Santa Ynez River Water Conservation District (2011 - 18)
 Water Level Measurements	United States Geological Survey/County of Santa Barbara (1940-2019), United States Bureau of Reclamation (1972-2019), Buellton (2003-2017), Lompoc (1964-2013), Vandenberg Village Community Services District (2005-19)
 Water Quality	California State Waterboard GeoTracker GAMA
 Map Layers	Committee Agency Extents, General Reference: Digital Elevation Model/Topography, parcels, roads, watersheds, PLS, etc. Linked Layers: Air Imagery/Geologic Maps
 Reports / Publications	187 Total, Examples: Santa Ynez River Water Conservation District Annual Reports, United States Geological Survey (USGS) Reports, California Department of Water Resources (DWR) Reports, Plans – Ex: Urban Water Management Plan/ Integrated Regional Water Management/ General Plans



Database Development



Aquifer Structure and Properties

Water Budget for Watershed









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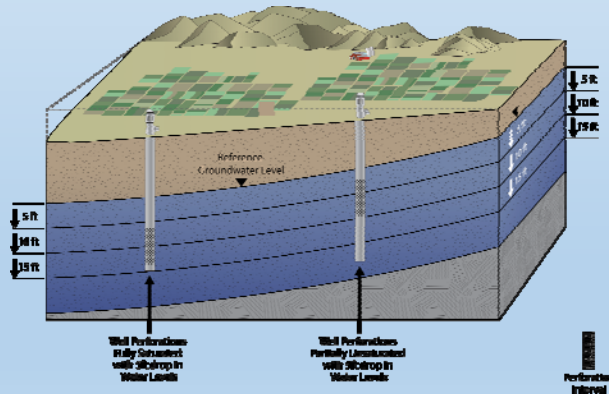
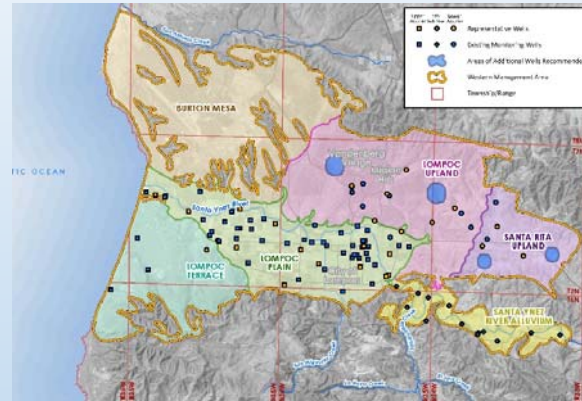
Groundwater Conditions

DRAFT
6/28/2021

2021 - Developing Policy on the Local Level Sustainable Management Criteria, Monitoring Programs, and Project and Management Actions

-  Lowering Groundwater Levels
-  Reduced Groundwater Storage
-  Land Subsidence
-  Impaired Water Quality
-  Seawater Intrusion
-  Surface water depletion

Sustainable Management Indicators



Defining Sustainable Management Criteria

Monitoring Program

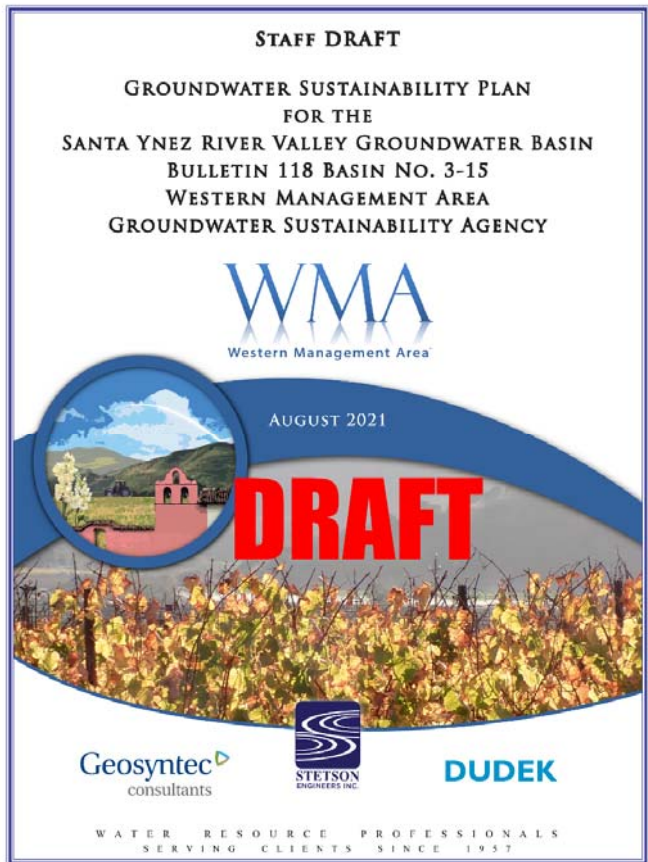
	Demand	Supply
Group 1	Water Conservation	Recycled Water Non-potable Use
	Tiered Fees	Increased Storm Recharge/Supply
		Ban on Water Softeners
Group 2	Supplemental conditions on New Wells	Water Rights Releases Request
Group 3	Annual Pumping Allocation Plan/ Voluntary Fallowing Program	
Group 4	Non-native Vegetation Removal	Drought Mitigation (Deepen wells, Pumping Optimization)
	Agricultural Land/ Pumping Allowance Voluntary Retirement	Supplemental Imported Water Program
		Well-head pre-treatment

Projects and Management Actions



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Staff Draft WMA GSP Statistics



Part	Pages
Document	428
Figures	106
Appendix*	512
Total	1,026

*Pending items

186 citations
(some duplicates in multiple sections)

Executive Summary

- Two Principal Aquifers:
 - Lower Aquifer - Paso Robles and Careaga Sand Formations in syncline
 - Upper Aquifer – younger alluvium in the Lompoc Plain
- Minimum thresholds were developed for each SGMA sustainability criteria. Current groundwater conditions are sustainable with no undesirable results
- Monitoring Network was established
- Historical, current, and future water budgets were developed
 - Growth
 - Climate change
 - Sustainable yield estimated at 26,500 afy
- Projects and management actions
 - Maintain and improve groundwater conditions
 - Reduce demand up to 10-20% with water conservation, well meters, and groundwater extraction fees

Public Comments

- Public Comment Period on Entire Draft GSP
 - September 11 - October 26, 2021
 - CAG had good discussion on October 7
 - All comments will be reviewed and responded in a matrix table and appropriate edits will be made in the Draft GSP
 - Track Changes and Clean Versions of Next Draft will be made available.
- Additional Comments Can Be Provided Once GSP submitted to DWR in January 2022
- Ongoing Adaptive Management
 - Ongoing public participation is needed.
 - Your community thanks you!
 - Annual Review
 - 5-Year Review

The Way Ahead

Santa Ynez River SGMA Project Schedule	
Public Draft GSP	September 11, 2021
Public Comment Period	September 11 - October 26
GSA Meetings to discuss draft GSP	October 27, 2021; November 17, 2021
Final Draft GSP	November 17, 2021
GSA Committee Adopt GSP	December 15, 2021
Submit GSP to DWR on or before	January 14, 2022

Future Implementation

- Reporting and Updates
 - Annual Reports
 - 5-Year Updates
- Initial Implementation Actions
 - Update Well Registration
 - Require Meters for Groundwater Pumping
 - Coordination Agreement
- Ongoing Data Gap Resolutions
 - Well Measuring Point Survey
 - Well Sounding and Video Logging
 - New Monitoring Wells
 - New Surface Water Gauge
 - Geophysics Data Analysis

Discussion/ Questions?

Comments can be submitted to the website:



www.santaynezwater.org