Santa Ynez River Valley Groundwater Basin **Central Management Area** Groundwater Sustainability Agency

February 2020 **Status Update**



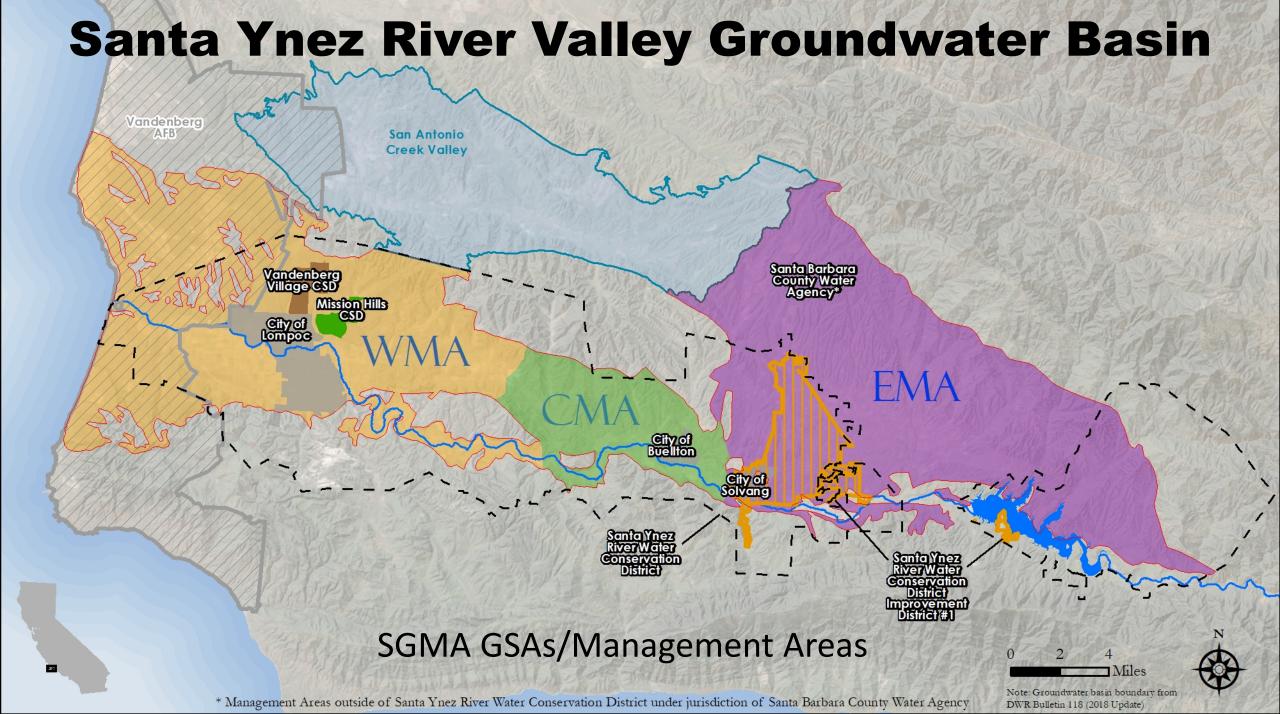


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Agenda

- 1. SGMA Overview & Milestones
- 2. Consultant Team Progress
 - Draft Final products
 - Initiated and on-going work
- 3. Next Steps
- 4. Questions



Santa Ynez River Water Conservation District Boundary

Ynez

(246)

0.5

⊐ Miles

0

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

City of Buellton 10°

101



Groundwater Sustainability Plan Development Milestones

Groundwater Sustainability Agency Committee Public Meeting

Technical Memorandum

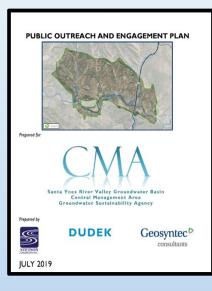


anta Ynez River Valley Groundwater Basi Central Management Area Groundwater Sustainability Agency

2020 ★	\star	\star	*	2021 ★	*	*	*	2022	Groundwater Sustainability Plan	
		Monitoring	Network			Public comn Draft Ground Sustainabilit	dwater		Implementation, Annual Reporting and 5-Year Updates	
	 Numerical Groundwater Mode Current and Historica Water Budget Hydrogeological Conceptual Model 				Sustain Projects a 	Groundwater inability Plan and ment Actions		Submit Final Adopted Groundwater Sustainability Plan to California Department of Water Resources		
	 Data Compilation Data Management Plan (completed) 				 Sustainability Goals, Undesirable Results, Minimum Thresholds and Measurable Objectives 					

Stakeholder Communication and Engagement Plan (completed)

Consultant Team Progress





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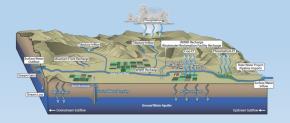


Draft Final OEP

Draft Final DMP

Release Website

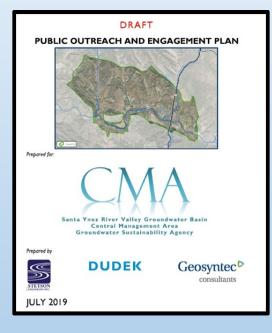
Prepare DMS Technical Memo



Initiate Hydrogeological Conceptual Model & Water Budget

Outreach & Engagement Plan

SGMA Compliant Outreach Plan



Plan Development (July) Discussed at CMA GSA Committee Meetings (July 29 & October 28)

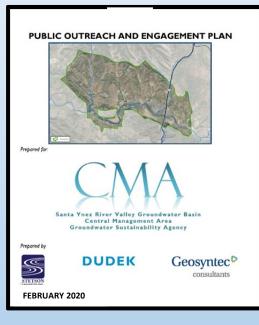
Santa Ynez River Valley Groundwater Basin Central Management Area

Groundwater Sustainability Agency

Public Comment Period

CMA Citizen Advisory Group (CAG) Meetings (September 12 & October 10)

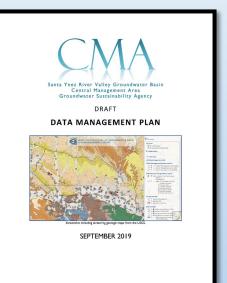
Document available for Public Comment (through November 2019)



Draft Final Plan Submitted to CMA GSA (February)

Data Management Plan

SGMA Compliant Data Management Approach



Plan Development (May-September) Santa Ynez River Valley Groundwater Basin Central Management Area Groundwater Sustainability Agency

> Discussed at CMA GSA Committee Meeting (September 12)

Public Comment Period

WMA Citizen Advisory Group (CAG) Meeting (October 10)

Document available for Public Comment (through November 2019)



Draft Final Plan Submitted to CMA GSA (February)

SantaYnezWater.org Website

SGMA Compliant Outreach & Engagement Tool







Internal Beta Release to Consultants (October) Released to GSA Committees, CAG & Public in Q4 2019

Email Invitation to Registered Interested Parties (November, January)

Data Management

	Туре	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)
Contraction B	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, PLSS, 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

Initiated and On-Going Work

Hydrogeological Conceptual Model

Describes the conceptual understanding of the general physical characteristics of the groundwater basin.

The Hydrogeological Conceptual Model consists of:

- Written narrative description
- Graphical representation of the basin that clearly portrays the geographic and climatic setting, regional geology and structures, groundwater basin geometry, general groundwater water quality, and consumptive water uses in the basin.

Reference: BMP-3: Hydrogeologic Conceptual Model

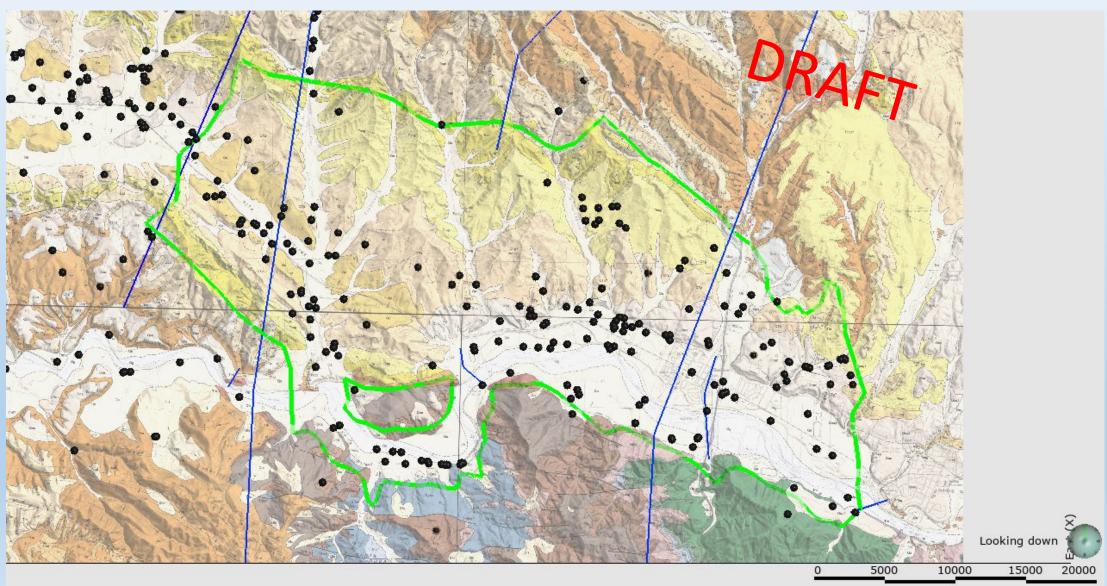
Hydrogeological Conceptual Model 3D Geologic Visualization

<u>Regional Geology – Basin Geometry:</u>

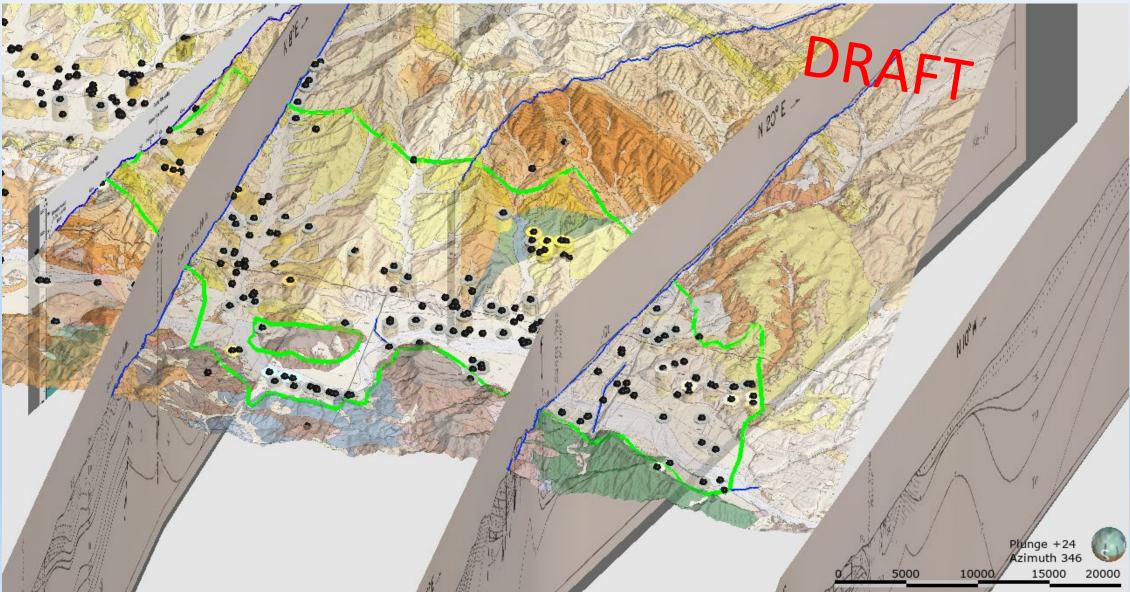
- 3D visualization, or, geologic model, that integrates previous models and regional studies, updated and extended with new data and techniques.
- 3D extents will be exported for basin groundwater modeling.
- Graphical representation of mathematical equations, computer algorithms, and geologic interpretation.

Reference: BMP-3: Hydrogeologic Conceptual Model

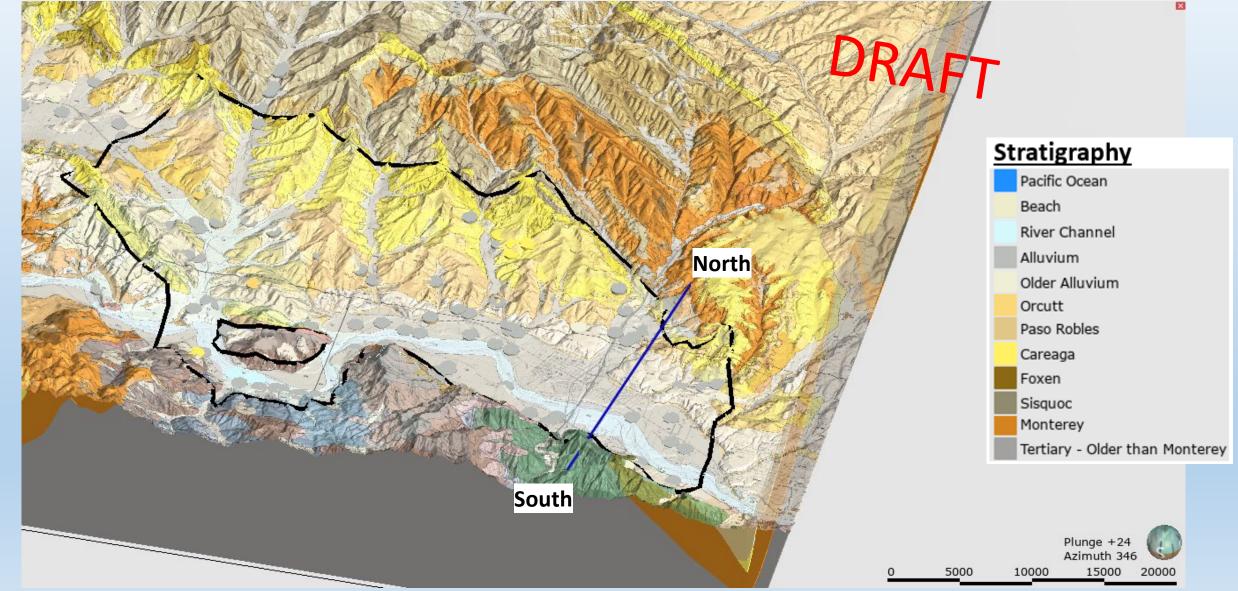
Hydrogeological Conceptual Model 3D Visualization Inputs – Aerial View



Hydrogeological Conceptual Model 3D Visualization Inputs – Oblique View

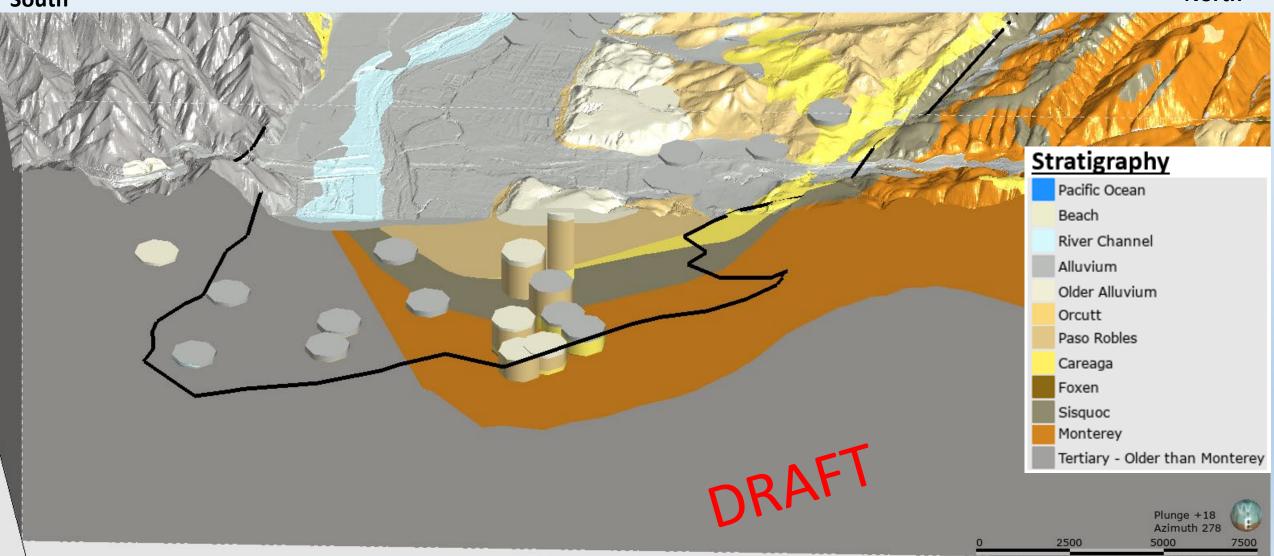


Hydrogeological Conceptual Model 3D Visualization Geologic Model – Oblique View



Hydrogeological Conceptual Model 3D Visualization – Cross-Section View

South



North

Water Budget

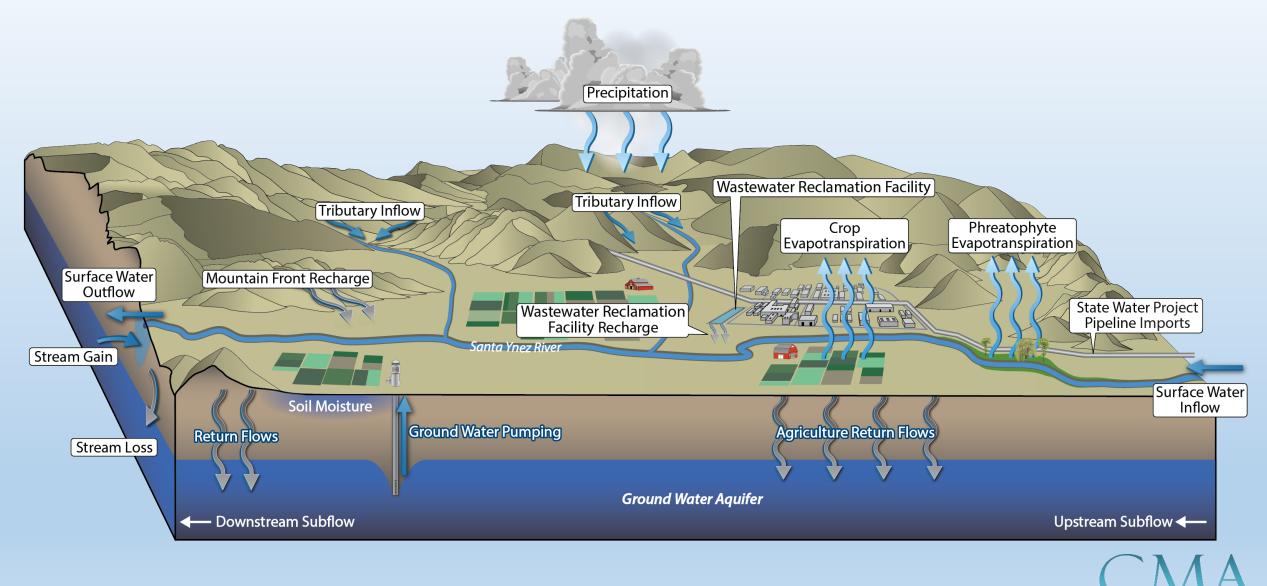
The accounting and characterization of spatial and temporal distribution of inflows and outflows to a watershed, groundwater basin, or management area.

Key Water Budget components:

- Total surface water entering and leaving the basin
- Inflows and outflows to the groundwater system
- The annual change in groundwater storage volume

Reference: BMP-4: Water Budget

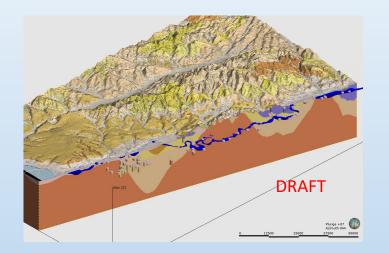
DRAFT CMA Water Budget



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

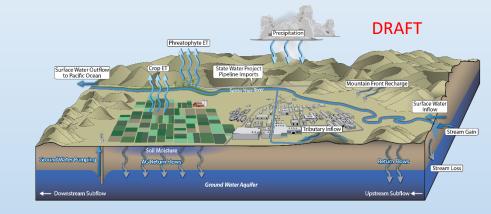
Next Steps

First Quarter 2020

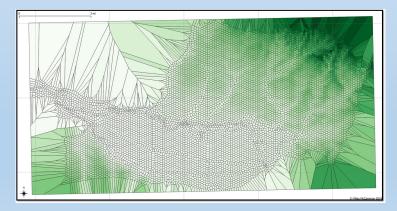




DMS Updates and Technical Memorandum



Hydrogeologic Conceptual Model 3D Geologic Visualization



Water Budget

Initiate Groundwater Model

Groundwater Sustainability Plan Development Milestones

Groundwater Sustainability Agency Committee Public Meeting

Technical Memorandum



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Questions?



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