San Pasqual Valley Groundwater Basin Sustainable Groundwater Management Act Advisory Committee Meeting

Groundwater Sustainability Plan (GSP) Content Review



The City of

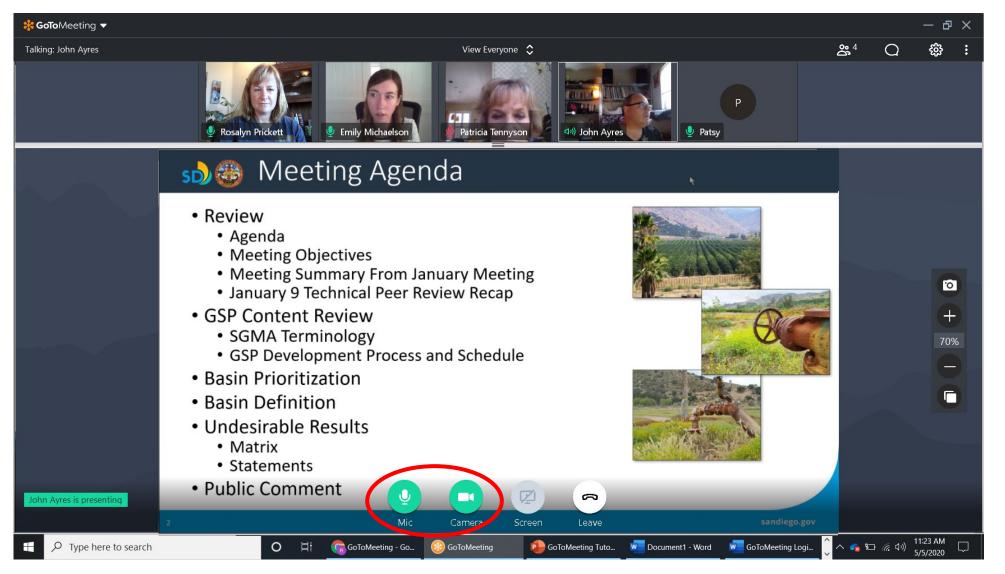
SAN



July 8, 2021

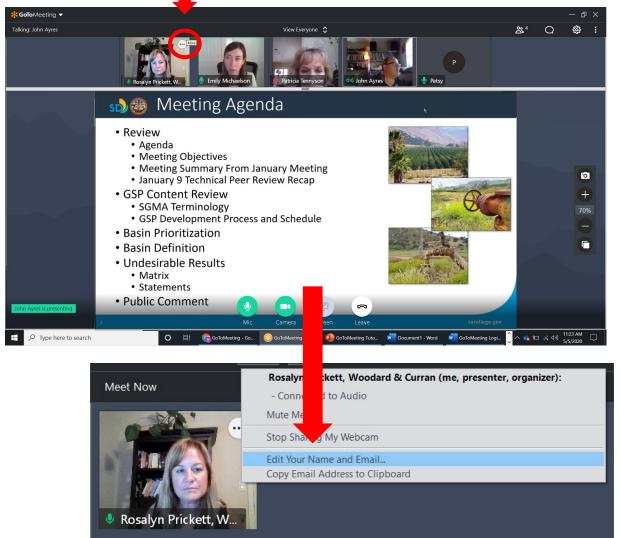
s GoToMeeting – Quick How To

• Your screen should look like this:



- Turn on/off your Mic (mute) and Camera (video) using the controls along the bottom
- During the meeting, you may need to wiggle your mouse to make the controls appear

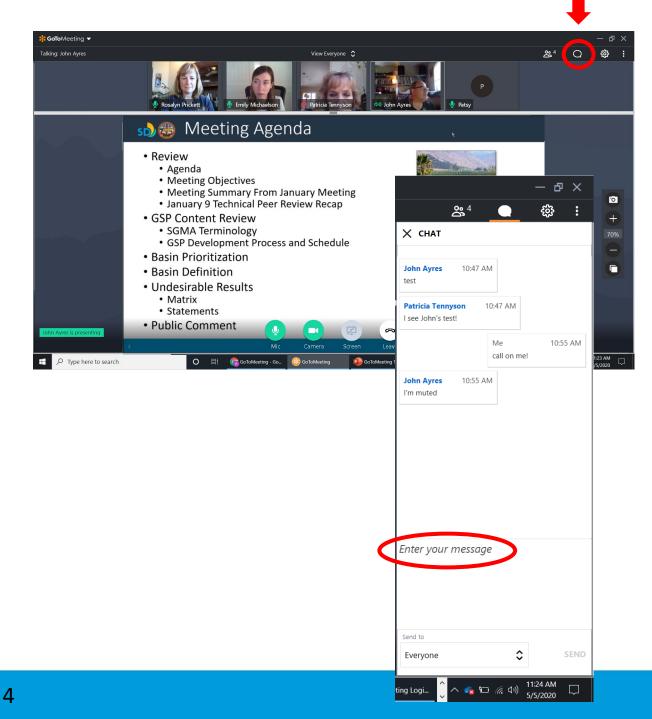
🔊 🎯 GoToMeeting – Please Enter Your Name



- Please identify yourself with your full name and organization
- Hover over your photo and click on the 3 dots, then *Edit Your Name and Email*
 - AC members please include "AC – Name, Entity"
 - All other participants please include "Name, Entity"

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GoToMeeting – How to Comment



- Our facilitator will mute everyone at the beginning of the meeting
- Let us know you have a comment or question by clicking the Chat icon in the top right
 - Click on *Enter your message*, type your name and organization and hit SEND
- Wait until our facilitator calls on you:
 - Our facilitator will unmute you to relay your question or comment
 - Please also check your phone/computer to make sure you're not muted there too

San Pasqual Valley GSP Advisory Committee Meeting

REVIEW



SD Meeting Agenda

- 1. Roll Call & Introductions
 - Consultant Project Manager
- 2. Review
 - Meeting Agenda
 - Meeting Objectives, Summary, and Comments Received
- 3. GSP Content Review
 - GSP Development Process
 - Introduction and Public Engagement
 - Physical Conditions
 - Water Budgets and Groundwater Flow Model
 - Monitoring Program and Data Management System
 - Sustainable Management Criteria
 - Projects and Management Actions and Plan Implementation
- 4. Summary of AC Input on GSP
- 5. Public Comments
- 6. Next Steps & Closing Remarks



SD B Meeting Objectives, Summary, and Comments Received

Meeting Objectives

- Review the overall format and content of the Draft GSP
- Receive any preliminary feedback and comments on the Draft GSP
- Previous Meeting Summary
 - See Handout 1
- Summary of Comments Received
 - Concerns about pumping reductions during drought and potential for enhanced recharge from upstream watershed

SD Content Format

- Those wishing to comment should place their name and organization in the Chat; participants will be called on in the order received
- Public comment will take place at the conclusion of all AC discussion; members of the Core Team and the AC will not engage in dialogue with those making public comment
- If AC members have responses to public comment, they should be e-mailed to Karina Danek (kdanek@sandiego.gov)

San Pasqual Valley GSP Advisory Committee Meeting

Advisory Committee Comments



San Pasqual Valley GSP Advisory Committee Meeting

GSP CONTENT REVIEW





Introduction and Public Engagement

Physical Conditions (Plan Area, HCM, Groundwater Conditions)

Water Budgets and Groundwater Flow Model

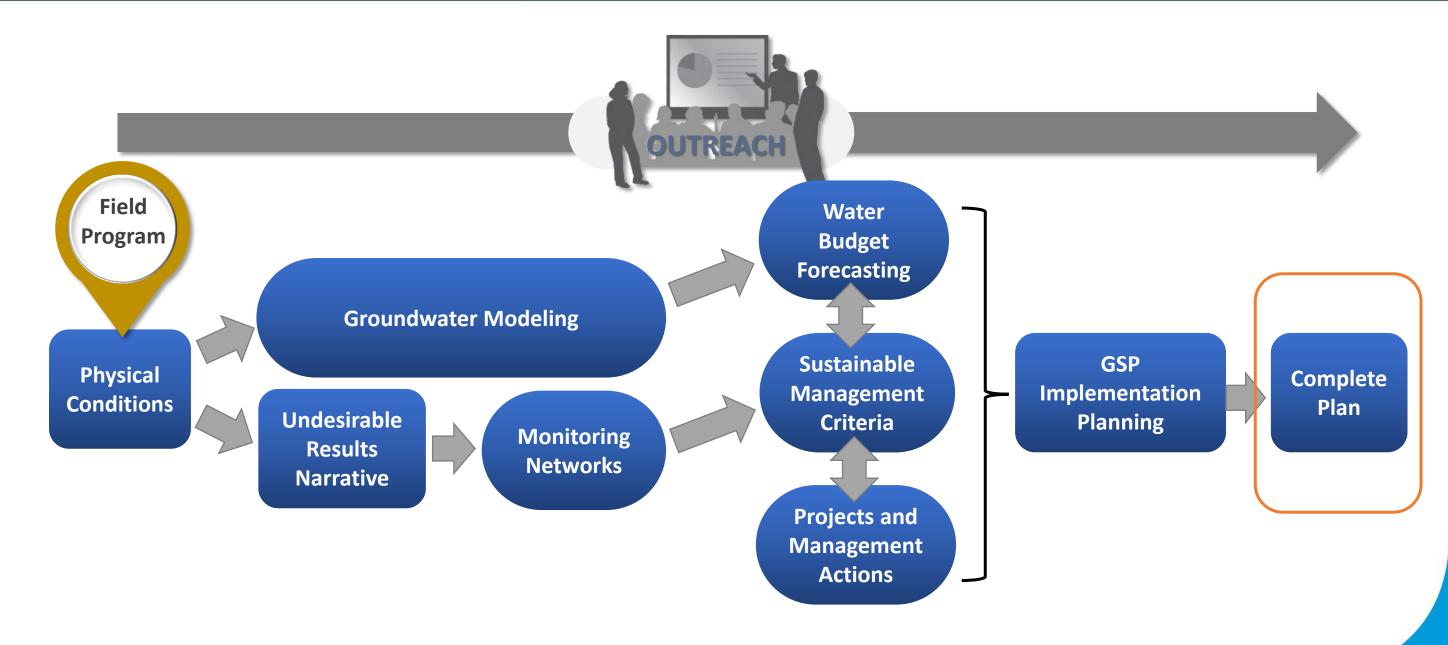
Monitoring Networks and Data Management System

Sustainable Management Criteria

Projects and Management Actions and Plan Implementation

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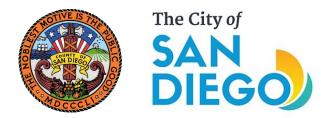




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San Pasqual Valley GSP Advisory Committee Meeting

INTRODUCTION AND PUBLIC ENGAGEMENT



sb) 🛞 Introduction

• The purpose of the GSP is to understand and describe the conditions needed to sustainably manage the Basin to comply with SGMA.



Chronic lowering of groundwater levels



Reduction of groundwater storage



Land subsidence



Degraded water quality

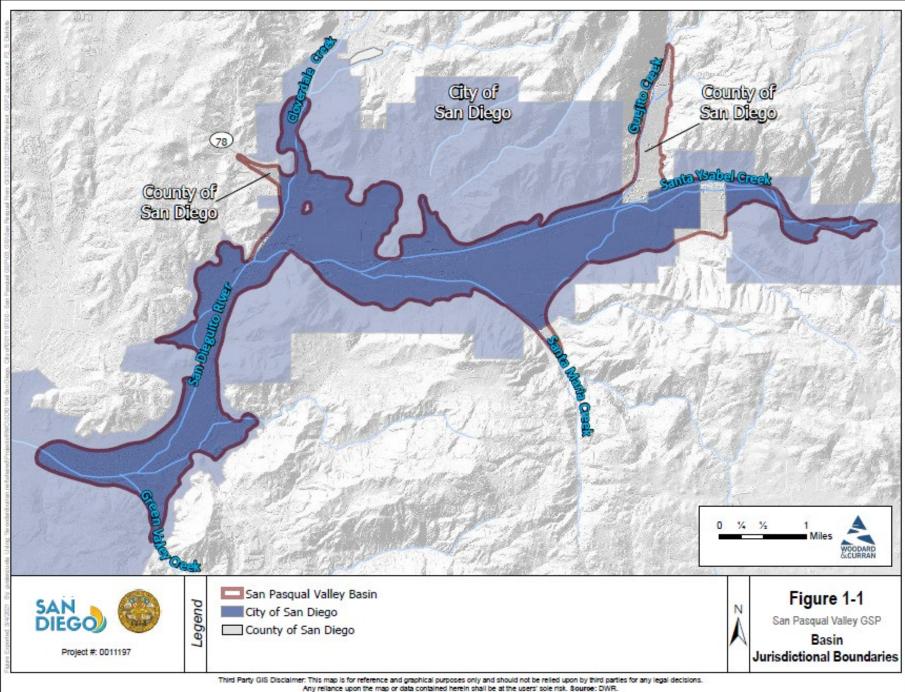


Seawater intrusion



Depletions of interconnected surface water with impacts on beneficial uses including GDEs





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sb) 🍪 Introduction

- Public Engagement
 - San Pasqual Valley GSA
 - \circ County of San Diego
 - \odot City of San Diego
 - Advisory Committee
 - Technical Peer Review
 - Stakeholder List
 - Website







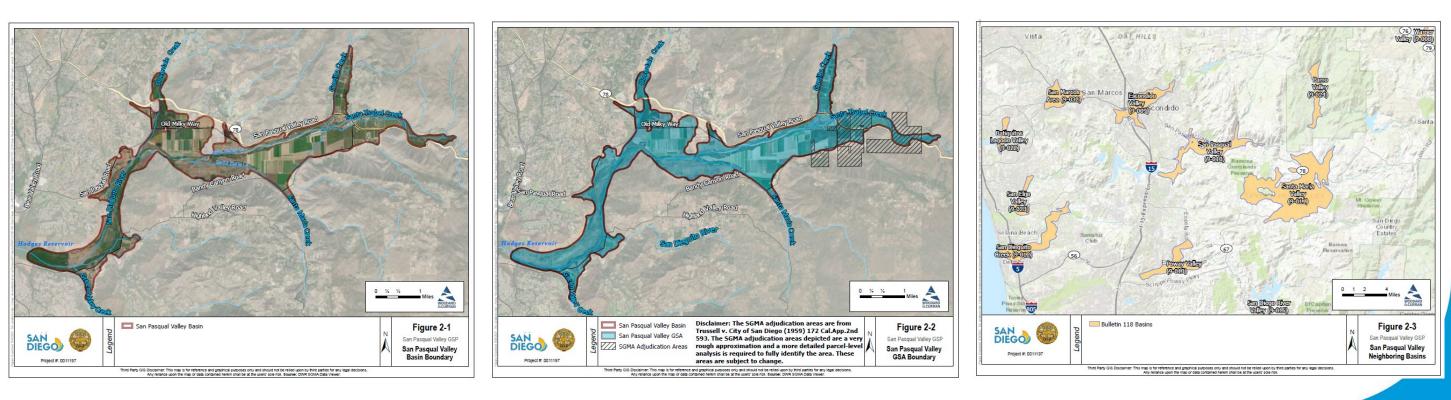
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PHYSICAL CONDITIONS (PLAN AREA, HCM, GROUNDWATER CONDITIONS)



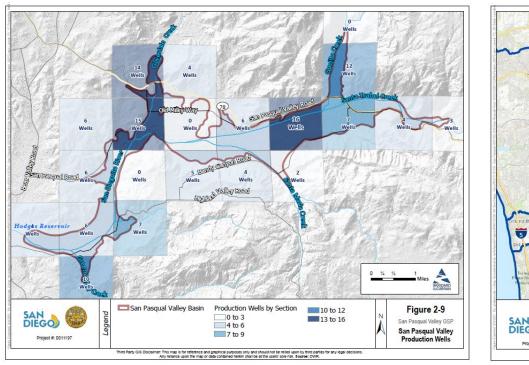
sb) 😳 Plan Area

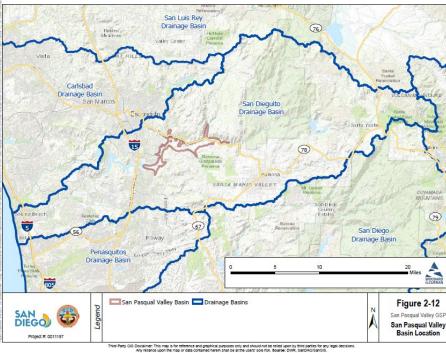
- Describes conditions on the ground surface
 - Basin boundary
 - GSA boundary
 - Neighboring basins

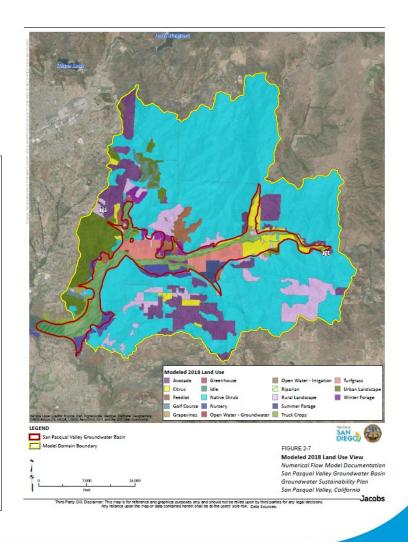


sb) 😳 Plan Area

- Describes conditions on the ground surface
 - Well infrastructure
 - Watersheds
 - Land uses

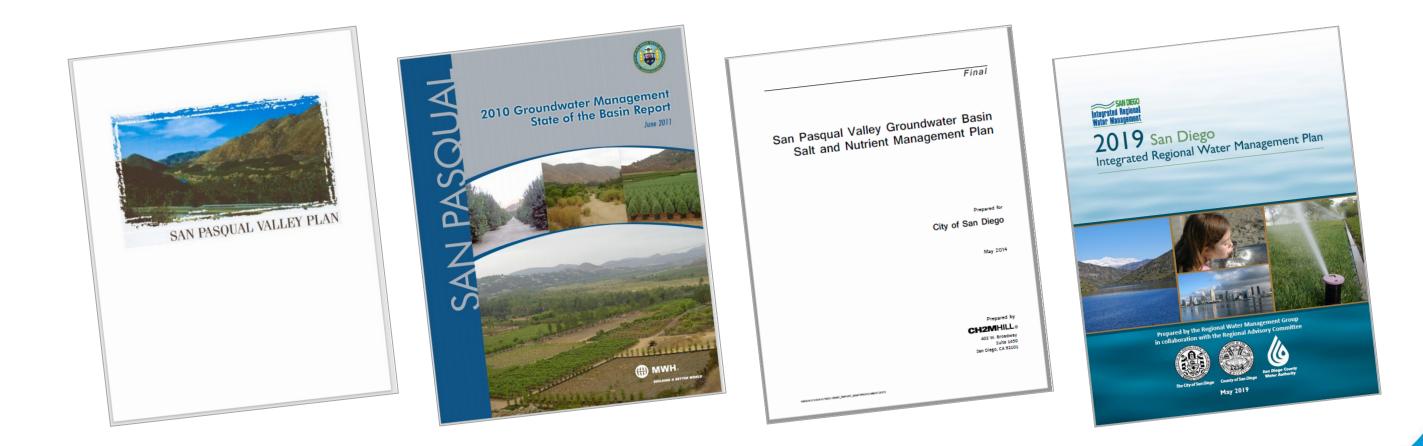






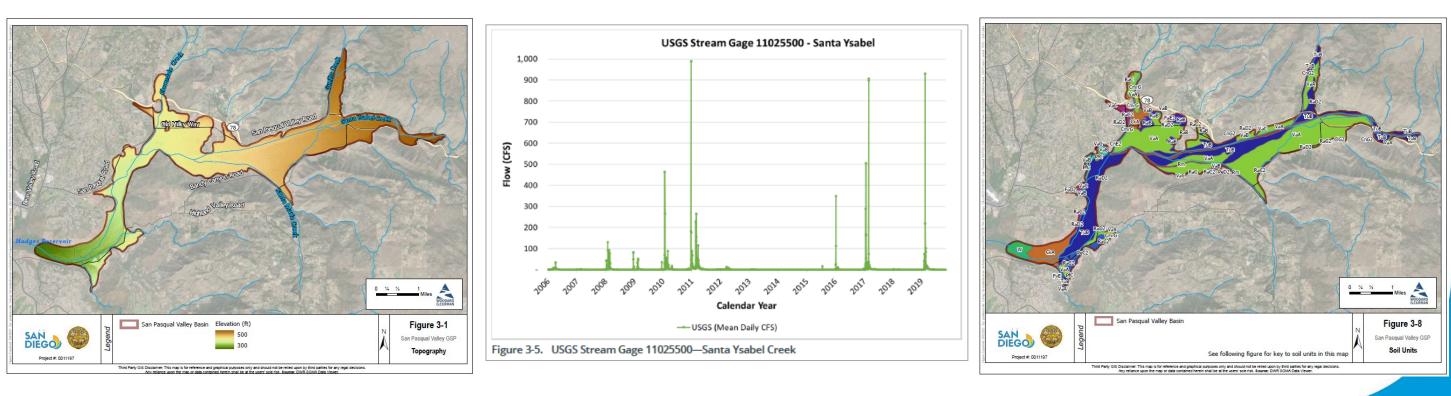
sb) 😳 Plan Area

- Summarizes existing surface and groundwater monitoring programs
- Describes existing water management plans and programs



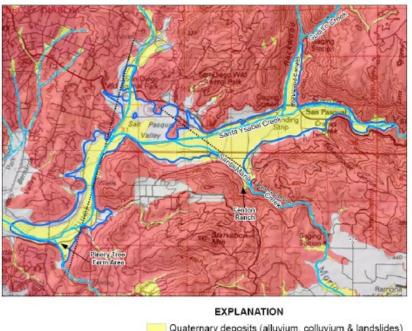
🔊 🍪 Hydrogeologic Conceptual Model

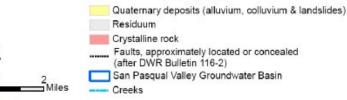
- Describes geology and aquifer characteristics and describes materials that groundwater moves through
 - Topography
 - Surface water bodies
 - Soils

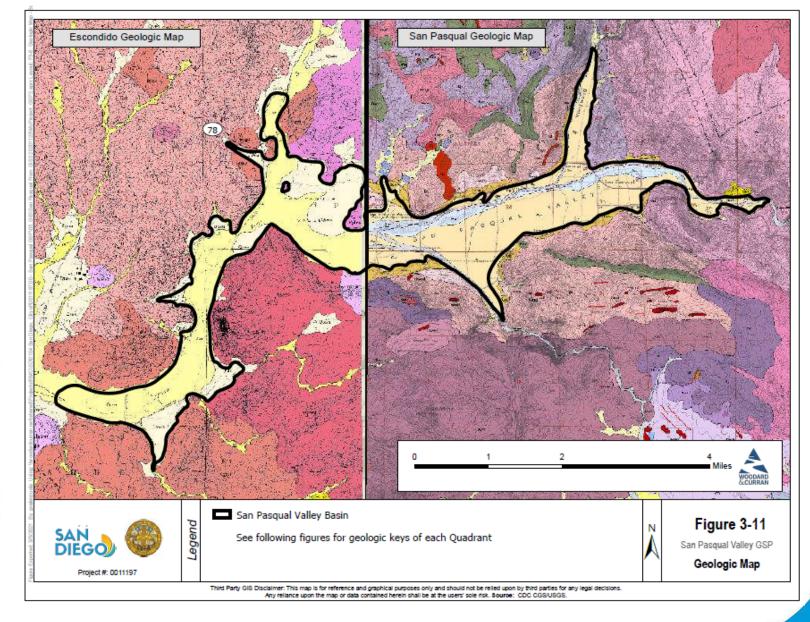


sb) 🍪 Hydrogeologic Conceptual Model

- Geologic Maps
 - Faults San Pasqual Narrows and Bandy Canyon
 - Geology Split in half; two different authors







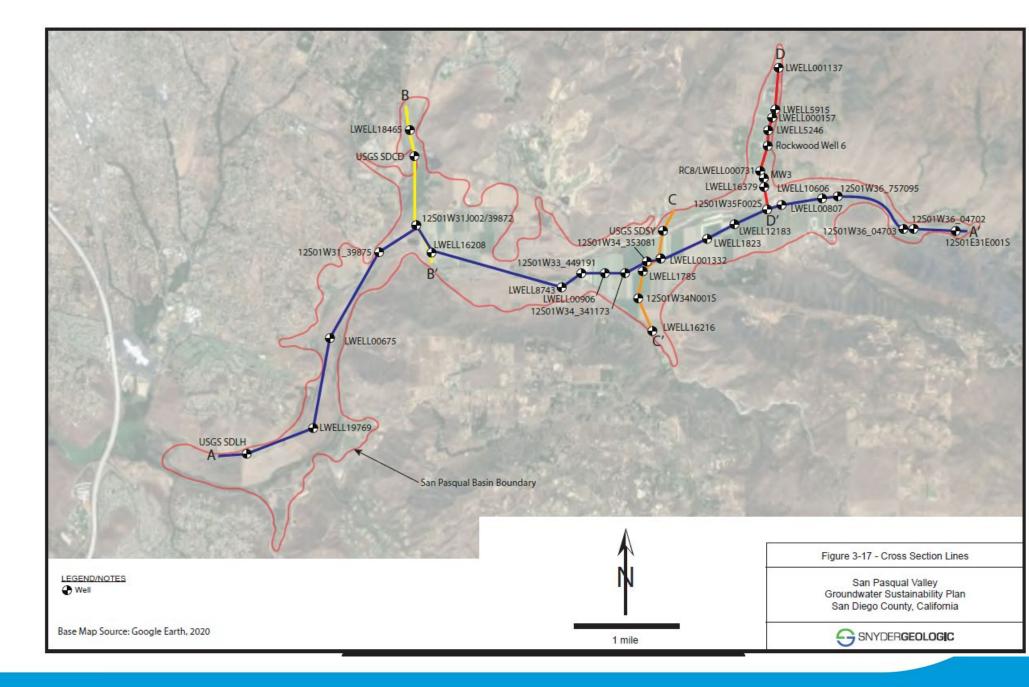
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Source: DWR, 2015

Figure 3-10. Simplified Geologic Map and Faults

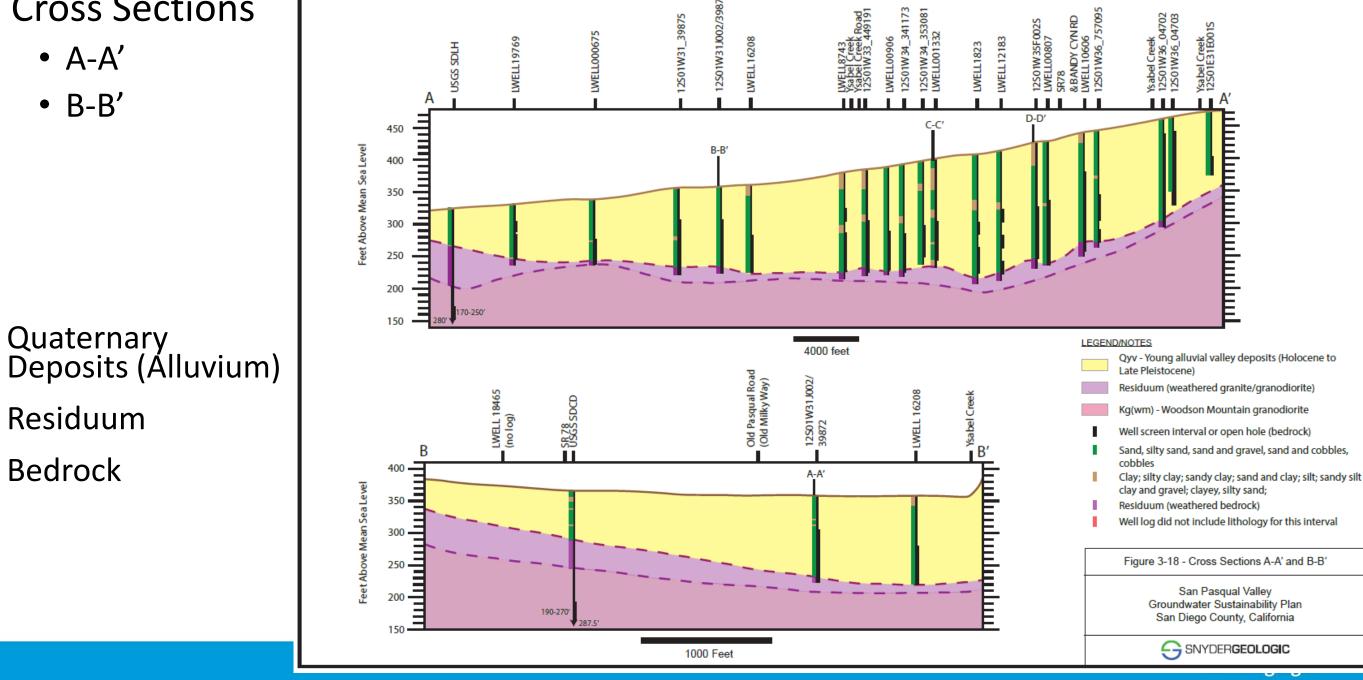
🔊 🍪 Hydrogeologic Conceptual Model

- Cross Sections
 - Illustrates geology
 - Developed with Well Completion Reports

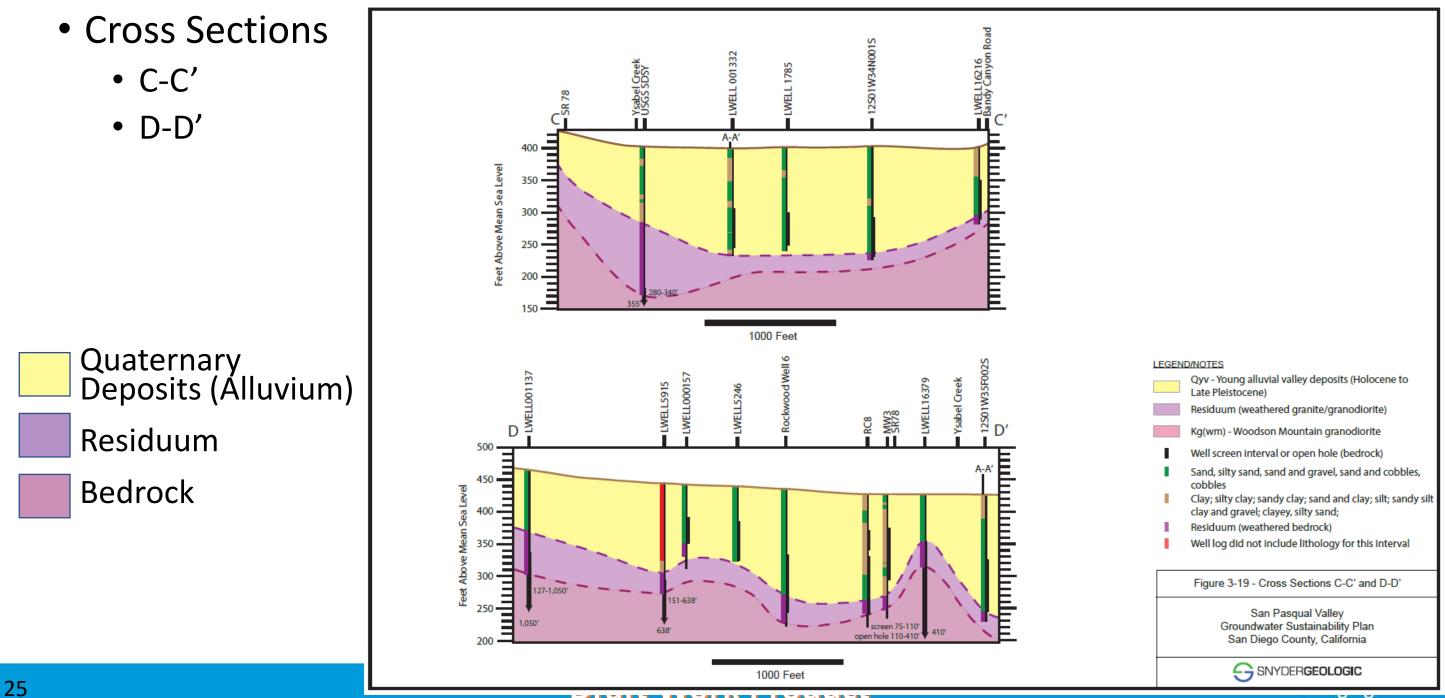


S Hydrogeologic Conceptual Model



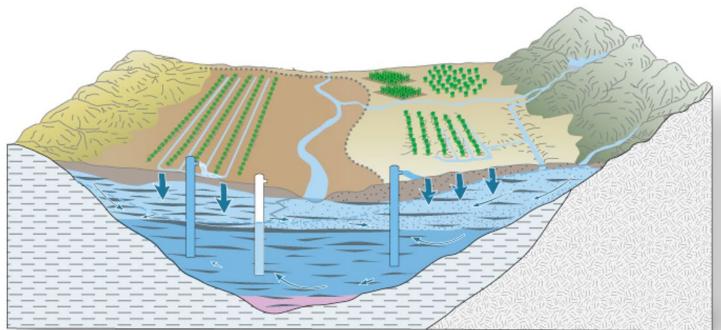


🔊 🍪 Hydrogeologic Conceptual Model



sb) 🛞 Hydrogeologic Conceptual Model

- Lateral boundaries:
 - Impermeable Bedrock— Impermeable bedrock with lower water yielding capacity
 - Applies to majority of the Basin where Quaternary Deposits meet Crystalline Bedrock
 - Constrictions in Permeable Materials—Lower-permeability material, even with openings that are filled with more permeable stream channel materials
 - Applies at the inlet of Santa Ysabel Creek and near Hodges Reservoir

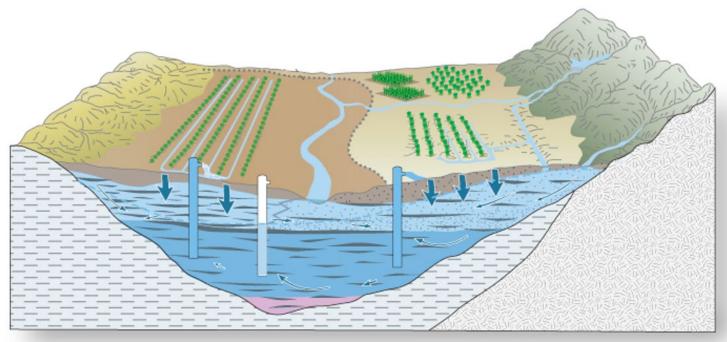


Example from USGS of the San Joaquin Basin

sb) 🛞 Hydrogeologic Conceptual Model

Definition of Basin Statement:

 The SPV Basin is defined by Bulletin 118 and includes the Quaternary Deposits and Residuum. The interaction of groundwater between fractured bedrock beneath the Quaternary Deposits and the Residuum is not well understood and represents an area of potential improvements that may be investigated by the GSA to further the understanding of the Basin.



sb) 🍪 Groundwater Conditions

- Historically, the Basin shows the following characteristics:
 - Groundwater levels are consistently high (shallow) in the western portion of the Basin
 - Groundwater levels fluctuate in the eastern portion of the Basin in response to drought periods, and can recover to pre-drought levels quickly
 - TDS concentrations in the Basin have generally increased from 1950 to 2000, but have stopped increasing in most areas and have fluctuated after 2000
 - Nitrate concentrations in the Basin have generally increased from 1960 to 2000, and have generally declined or stabilized in most wells since 2000



sb) 🛞 Groundwater Conditions

 Reviews historical groundwater level and quality data from DWR and USGS

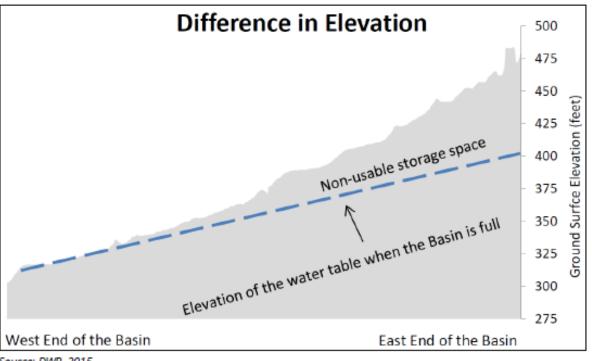




Figure 4-10. DWR 2015—Relationship Between Ground Surface Elevation and Storage

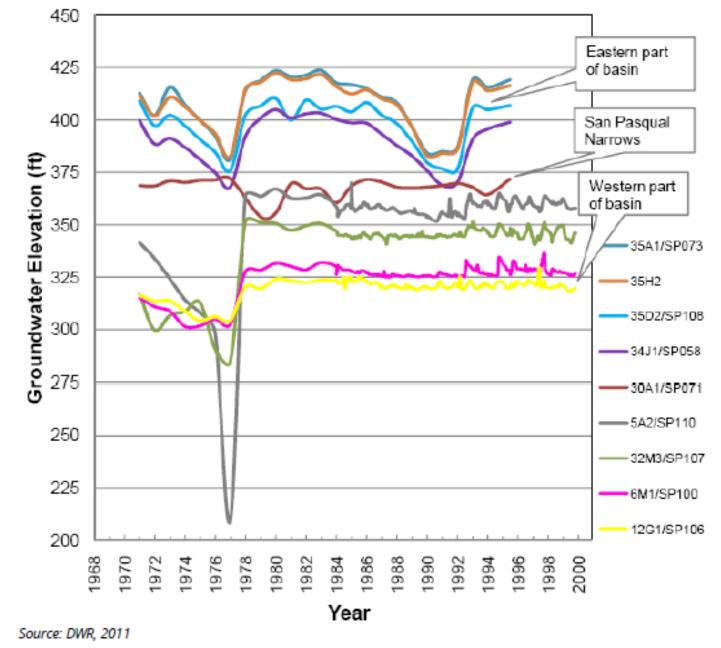
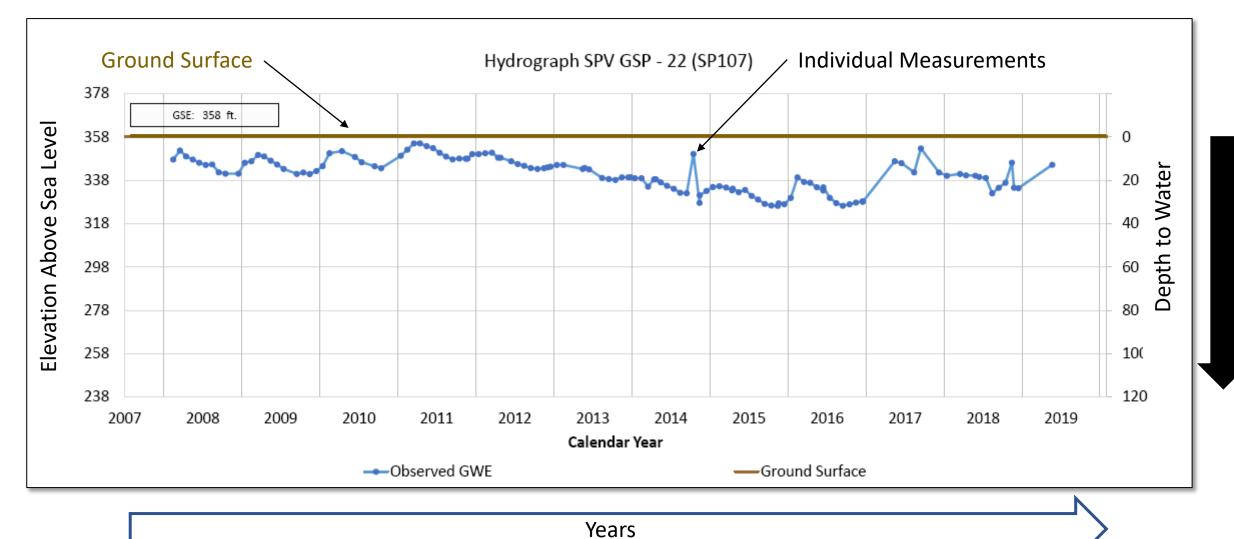


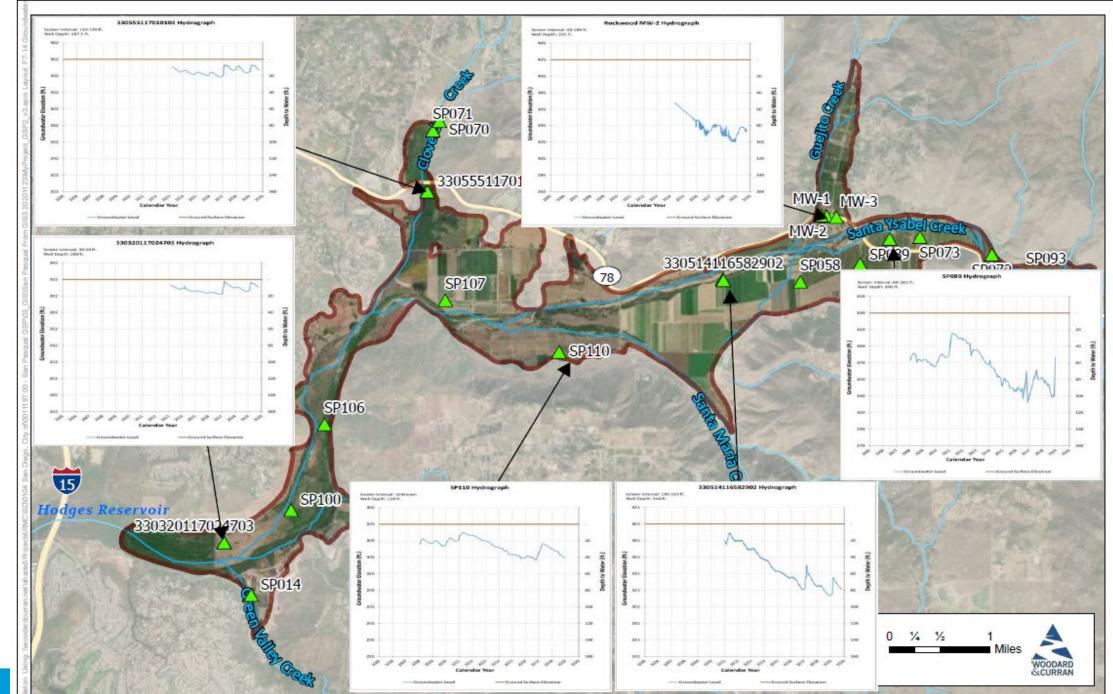
Figure 4-8. DWR 2011—Hydrograph Showing Long-Term Groundwater Level Trends

SD Groundwater Conditions

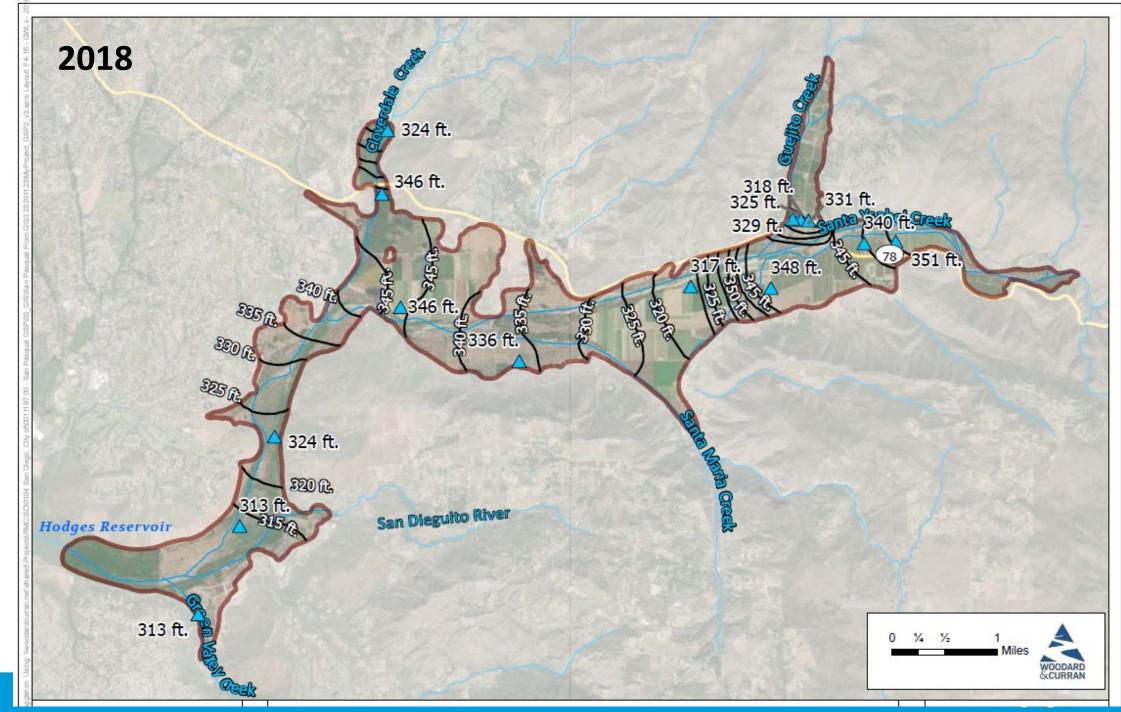
• Provides hydrographs for monitored wells throughout Basin



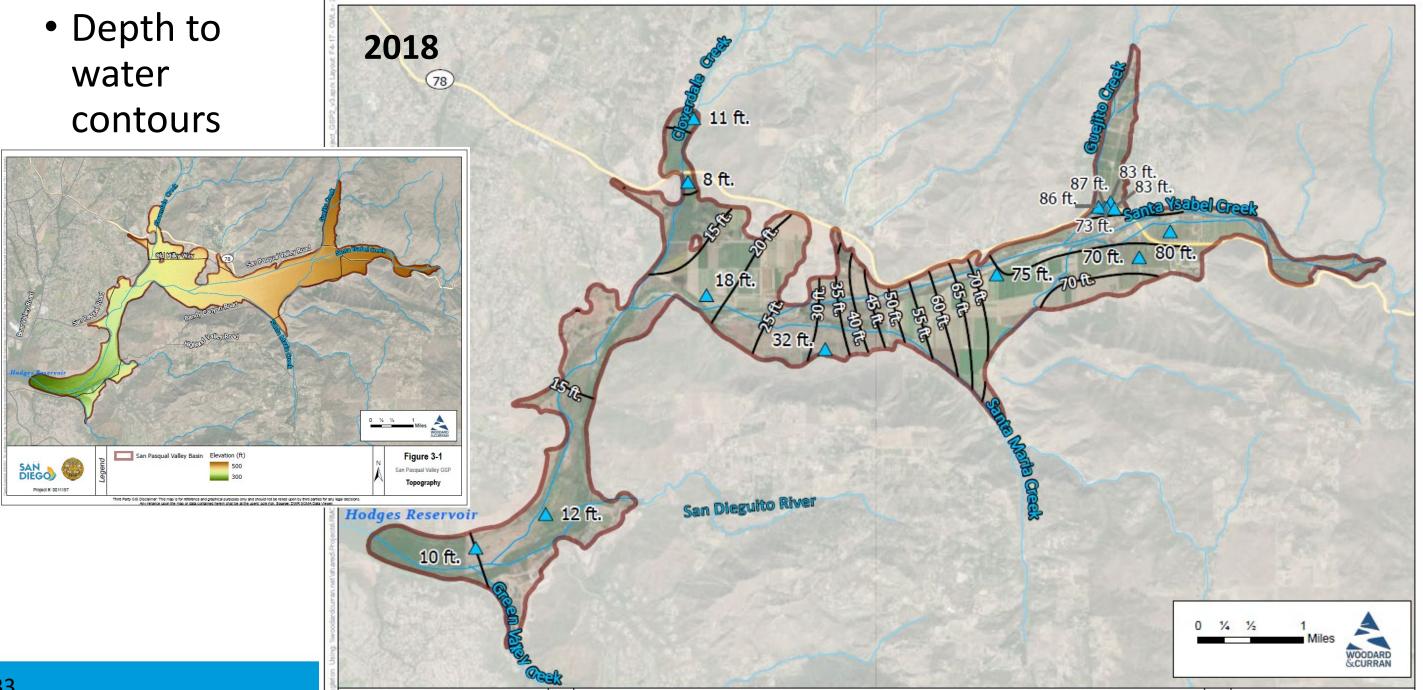
- Groundwater level hydrographs
- Groundwater level monitoring network



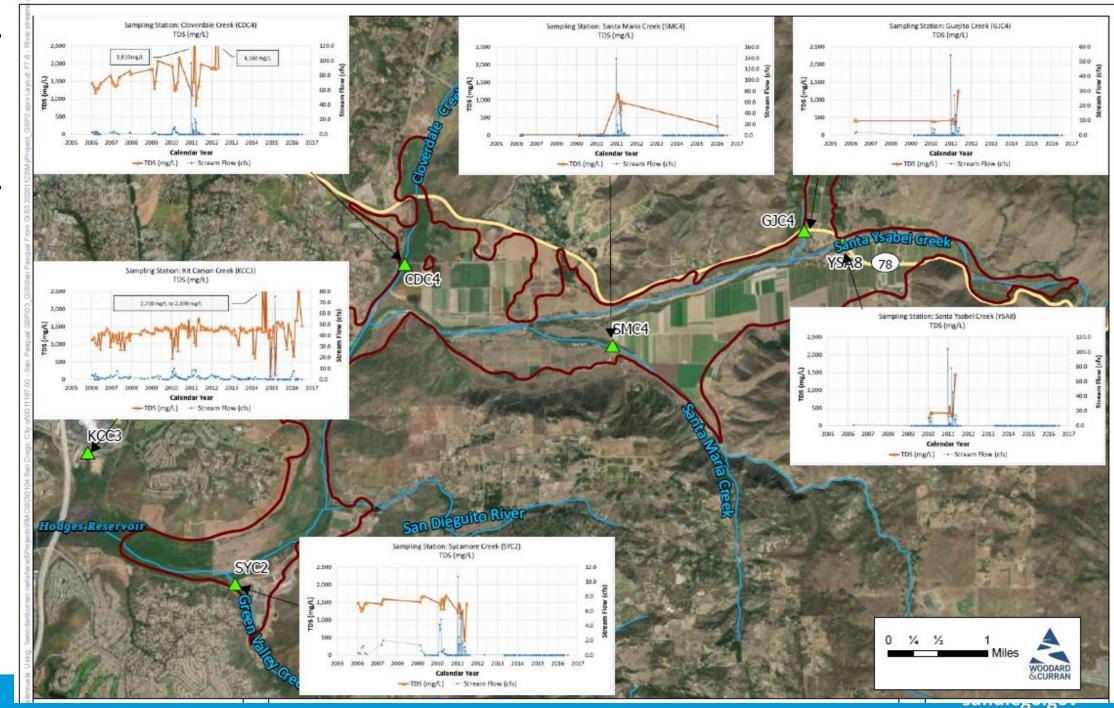
 Groundwater elevation contours



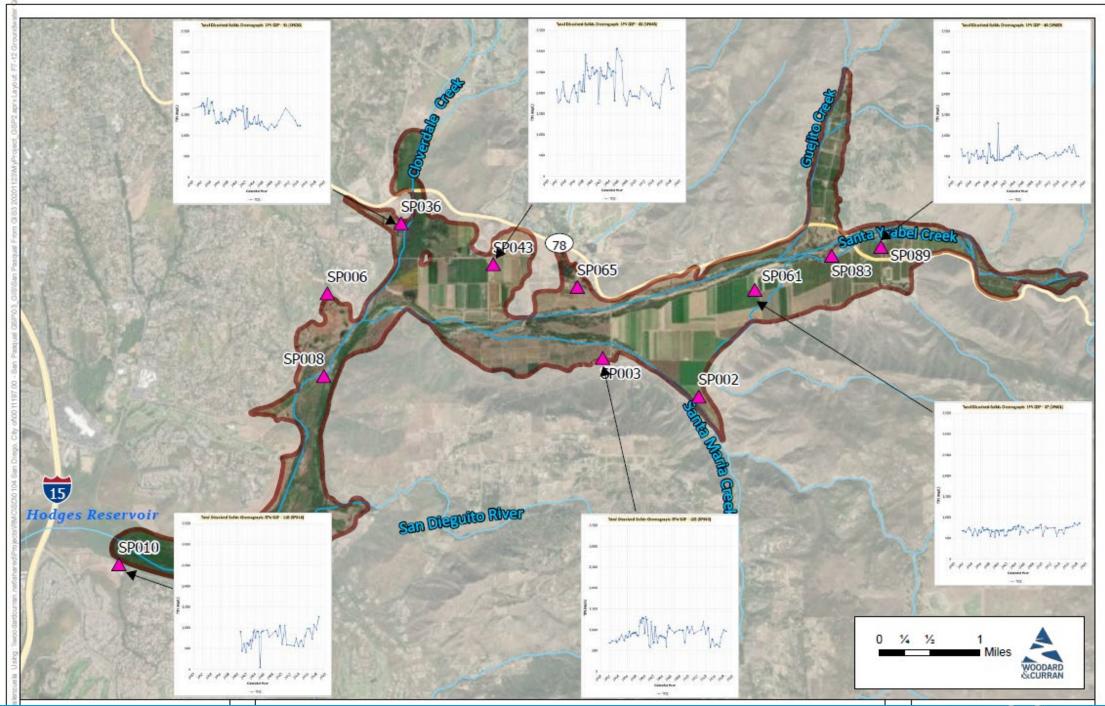
SD Groundwater Conditions



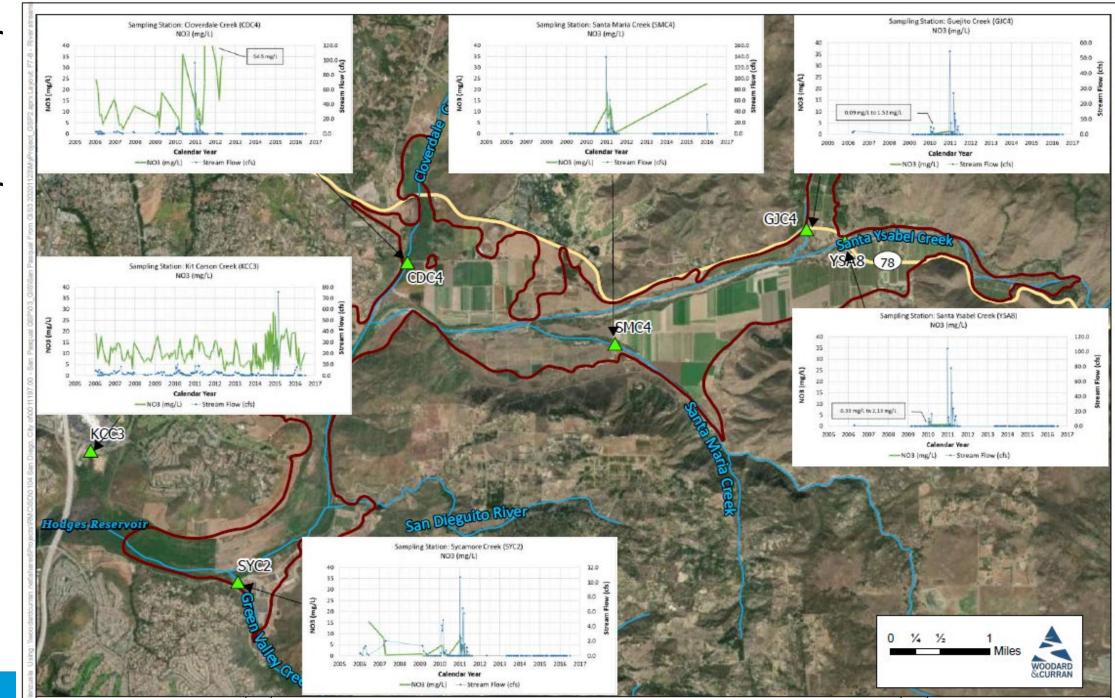
- Surface water TDS chemographs
- Surface water monitoring locations



- Groundwater TDS chemographs
- Groundwater quality monitoring network

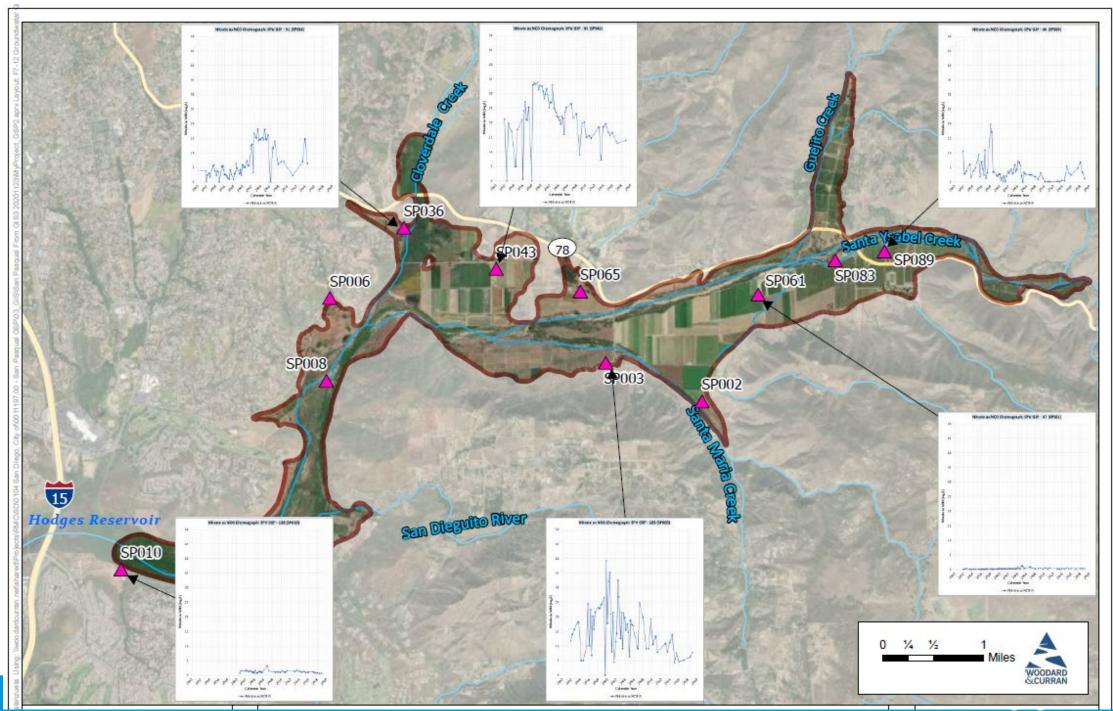


- Surface water Nitrate chemographs
- Surface water monitoring locations

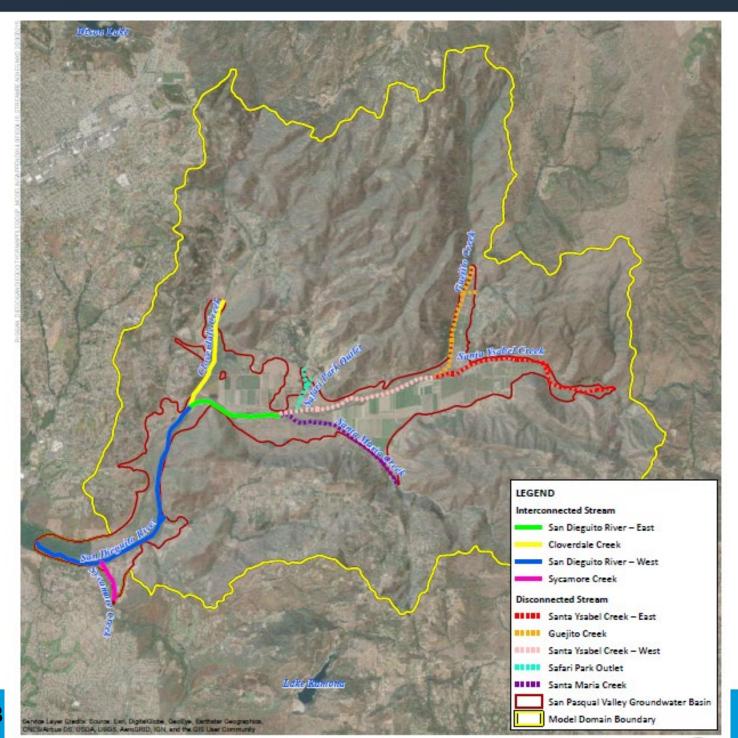


Solutions Groundwater Conditions

- Groundwater Nitrate chemographs
- Groundwater quality monitoring network



Solutions Groundwater Conditions



- Interconnected surface waters
 - Analyzed through SPV GSP Model
 - Disconnected = Depth to water has been greater than 30 feet since 2015
 - Interconnected = Depth to water in regional aquifer is less than 30 feet

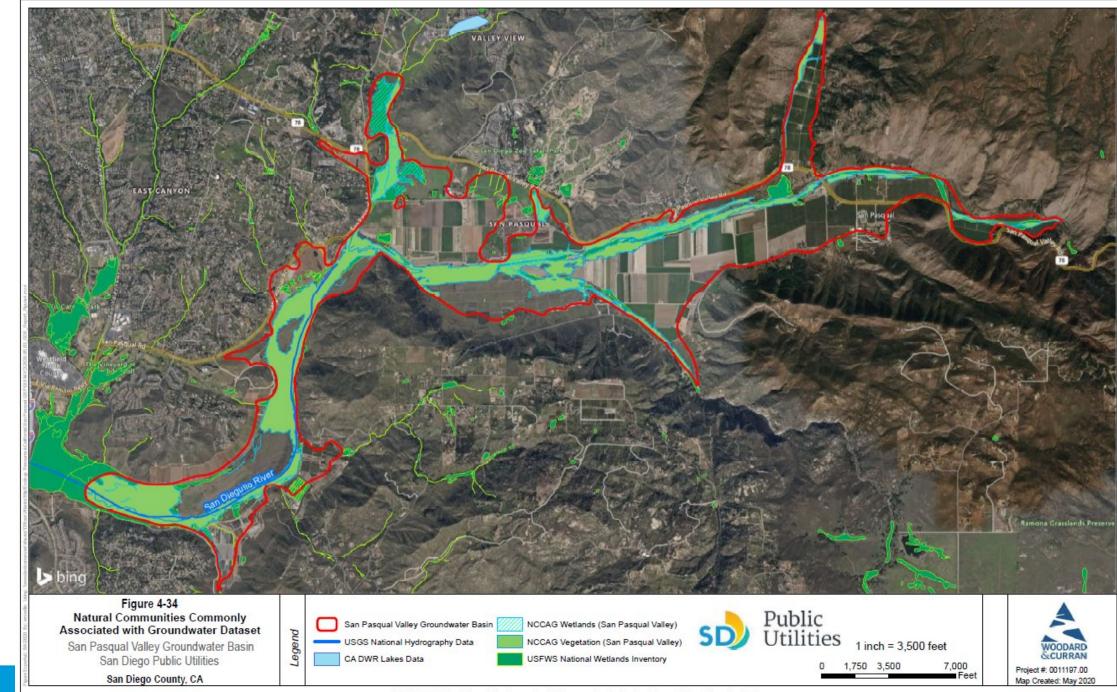
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S Groundwater Conditions

- Groundwater Dependent Ecosystems (GDEs)
 - Defined as "ecological communities or species that depend on groundwater emerging from aquifers or on groundwater occurring near the ground surface."
 - Wetland biologist reviewed the Natural Communities Commonly Associated with Groundwater (NCCAG) dataset compared to other datasets, aerial imagery, and USGS mapping
 - Wetland biologist visited SPV Basin to perform site visits to verify remote sensing analysis

Solutions Groundwater Conditions

 Natural Communities Commonly Associated with Groundwater (NCCAG) dataset



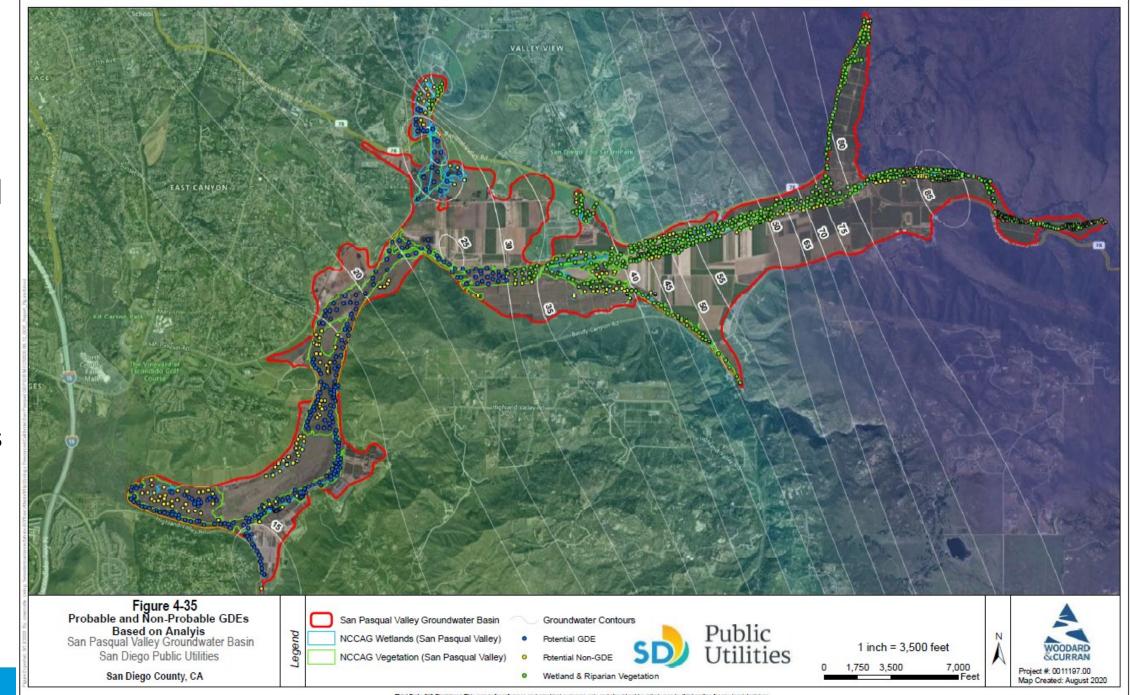
Solutions 🚳 Groundwater Conditions

 Results showed Potential GDEs along interconnected surface waters

Potential GDEs Potential Non-GDEs

Poten

Wetland & Riparian Vegetation



Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. elance upon the map or data contained herein shall be at the users' sole risk. Data Sources: Bing Maps Hybrid; CA DWR Natural Communities Commonly Associated with Groun

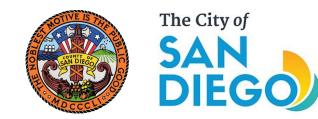
SD Groundwater Conditions

Photos of potential GDEs from site visits



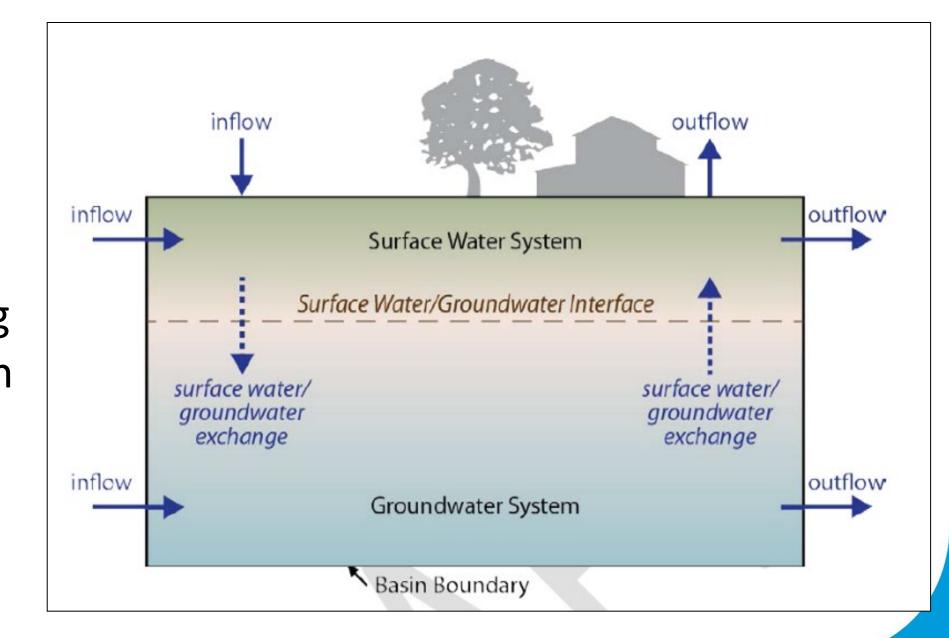
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WATER BUDGETS AND GROUNDWATER FLOW MODEL



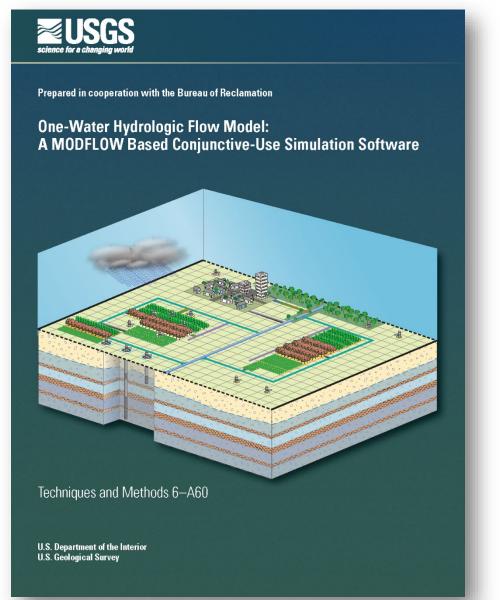
SD Water Budgets

 Water Budget: an accounting of the total groundwater and surface water entering and leaving a groundwater basin

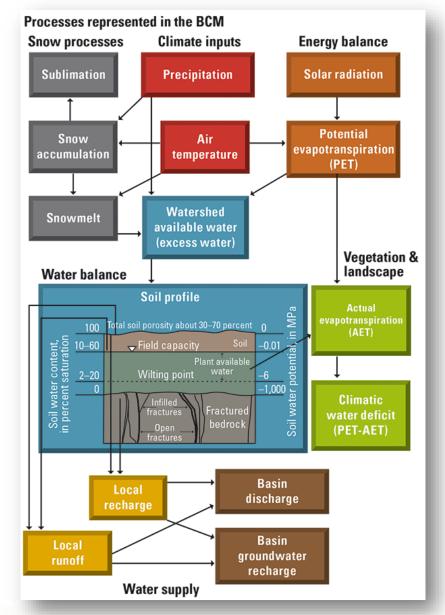


😼 🎯 Water Budgets

USGS One-Water Hydrologic Flow Model

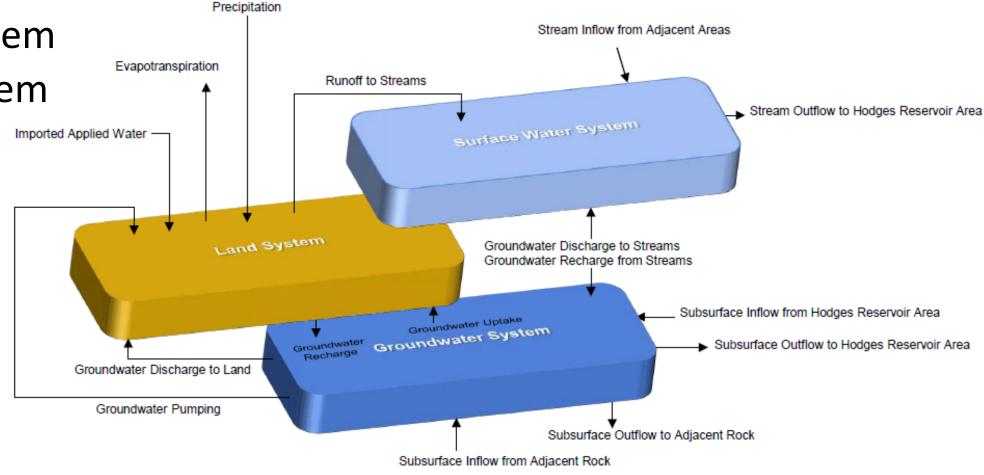


USGS Basin Characterization Model (BCM)

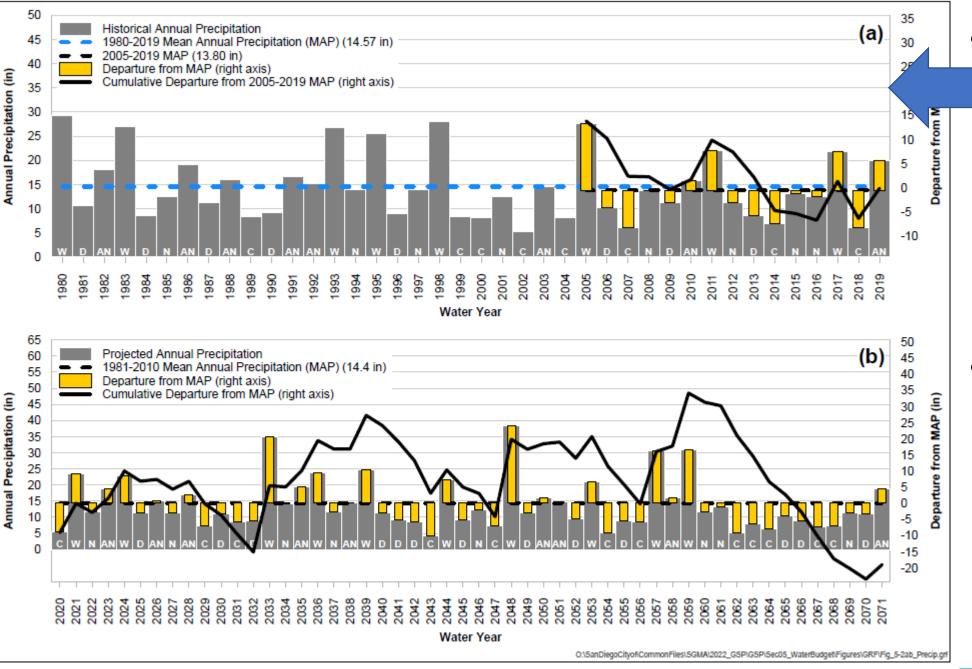


😼 🎯 Water Budgets

- Describes historical, current and projected water budgets for the Basin using the SPV GSP Model
 - Land system
 - Surface water system
 - Groundwater system



SD) Water Budgets



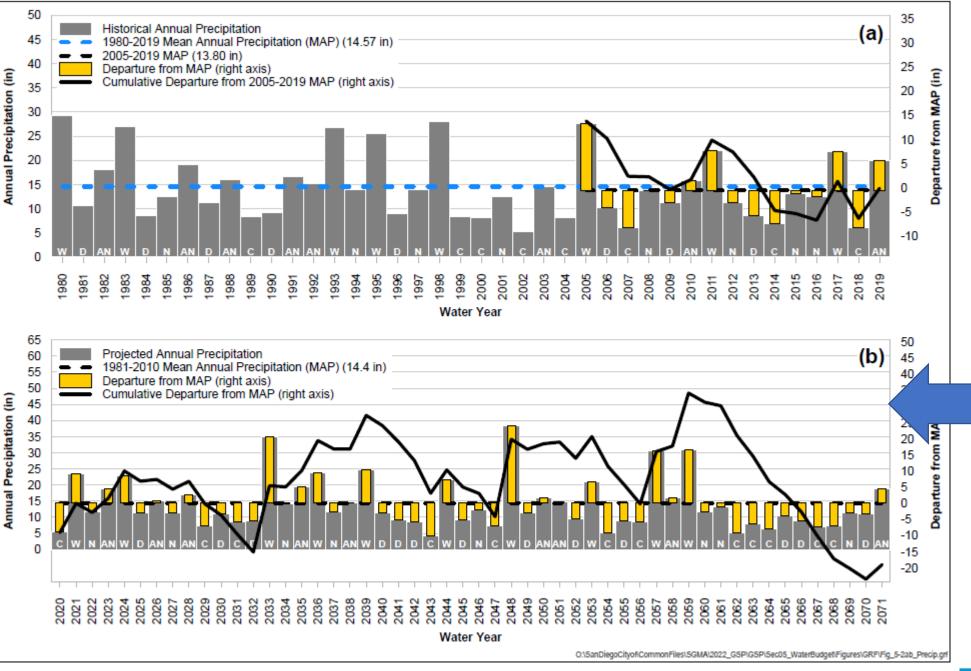
 Annual precipitation
 totals for the Basin for a 40-year period
 (WYs 1980 – 2019)

> Spatial averages of PRISM precipitation grid values in the SPV GSP Model domain

 A 15-year period (WYs 2005 – 2019) was selected for historical model calibration and for the water budget period

Figure 5-2. (a) Historical Annual Precipitation and (b) Projected Annual Precipitation

SD) Water Budgets



- Projection period based on *California Fourth Climate Assessment* RCP 8.5 Scenario
 - Closely tracks historical total cumulative carbon dioxide emissions and is the best match for midcentury projections of greenhouse-gas emissions

Figure 5-2. (a) Historical Annual Precipitation and (b) Projected Annual Precipitation

Jacobs

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🔊 🎯 Water Budgets

Model Construction - Areal Characteristics of Model Domain



SPV GW Basin

Area = 5.5 mi²

Sycamore Creek

Santa Maria Creek

Santa Maria Creek Contributing Catchment (purple)

Ramona

Santa Ysabel Creek Contributing Catchment (green)

_SPV GSP Model Domain Boundary

> SPV GSP Model Domain -Area = 41.9 mi² -100'×100' model cells

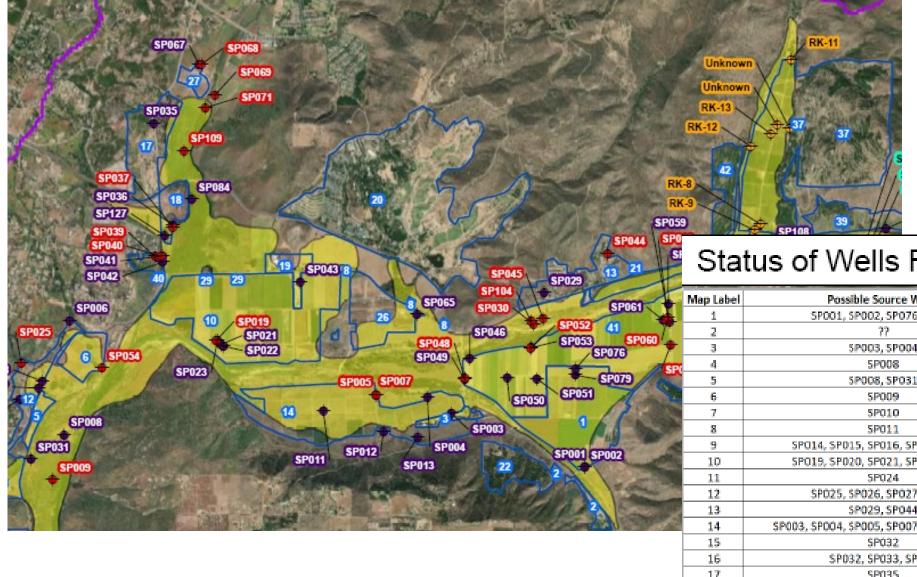
Symbol Legend

Model Inflow Point

▲ USGS Stream Gage

🔊 🎯 Water Budgets

Model Construction – Assignment of Wells to Parcels



Legend Pumping Wells

- City of San Diego Inactive
- + City of San Diego Active
- 💠 Rancho Guejito
- San Pasqual Academy
- Parcel with Well Designation
- SPV Groundwater Subbasin
- Blue highlighted numbers represent the 'Map Label' presented in the table at the bottom right.

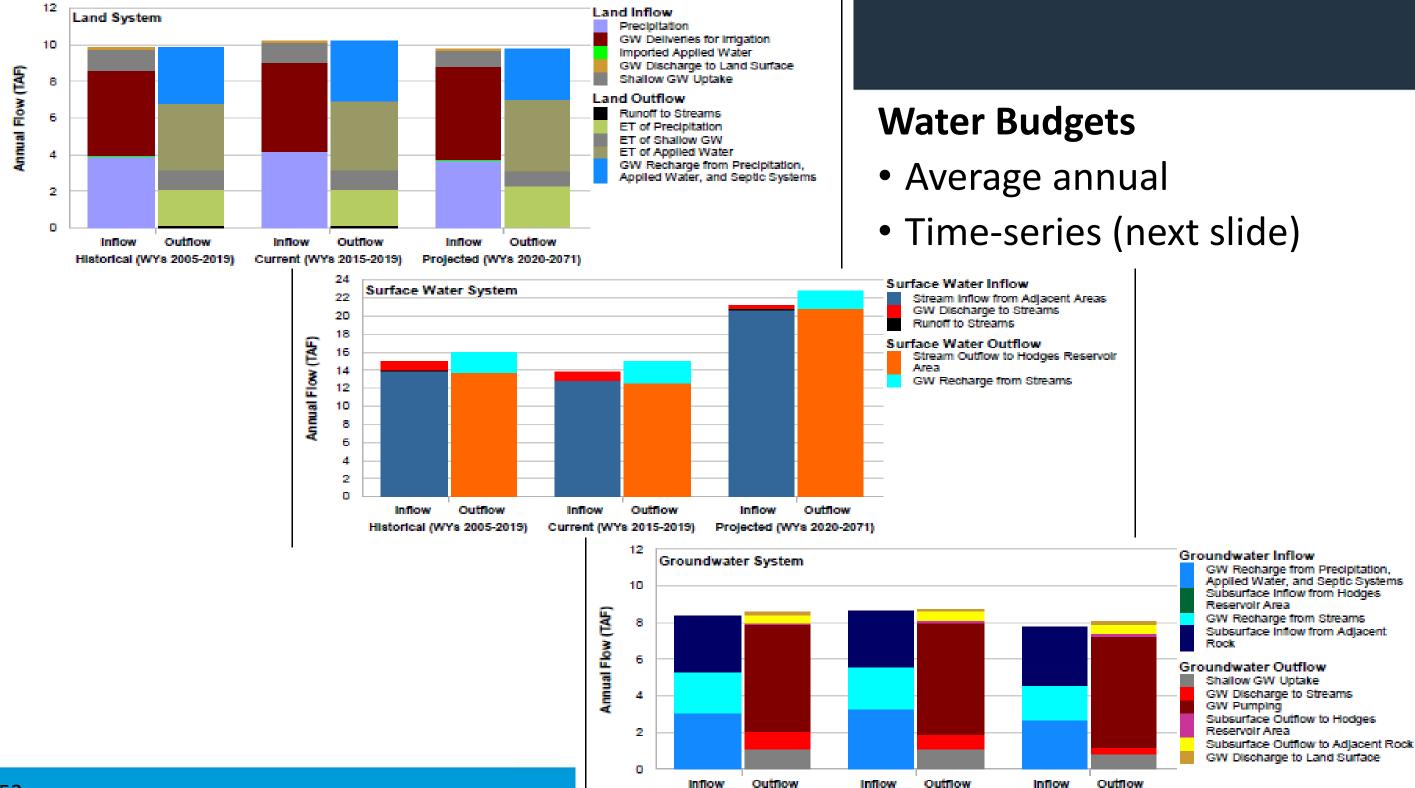
Status of Wells Represents Current Conditions (2020)

lap Label	Possible Source Wells	Map Label	Possible Source Wells
1	SP001, SP002, SP076, SP079	22	SP053
2	77	23	SP055, SP056, SP066, SP089, SP090
3	SP003, SP004	24	SP055, SP057, SP074, SP075, SP083, SP085, SP088
4	5P008	25	SP059, SP061, SP063
5	SP008, SP031	26	5P065
6	SP009	27	SP067
7	SP010	28	5P072
8	SP011	29	SP084
9	SP014, SP015, SP016, SP017, SP018	30	5P087
10	SP019, SP020, SP021, SP022, SP023	31	SP089, SP090
11	5P024	32	5P092
12	SP025, SP026, SP027, SP028	33	SP093, SP094, SP095, SP096, SP126
13	SP029, SP044	34	SP098
14	SP003, SP004, SP005, SP007, SP012, SP013	35	SP101
15	SP032	36	SP108
16	SP032, SP033, SP034	37	??
17	SP035	38	SP119
18	SP036, SP037	39	SP121
19	SP043	40	SP039, SP040, SP041, SP042
20	SP046 & Escondido Recycled Water	41	SP048, SP049, SP050, SP051, SP053, SP059, SP061, SP062, SP063
21	SP048, SP049, SP050, SP051, SP053	42	??

sb) 🚳 Role of Modeling on this Project

The SPV GSP Model is only one line of analysis being used to help the GSA develop its GSP. This model will not ultimately "decide" whether the Basin is being managed sustainably. Collection, reporting, and analysis of field data during GSP implementation will be used in conjunction with SMCs to demonstrate to DWR whether the Basin is being managed sustainably.

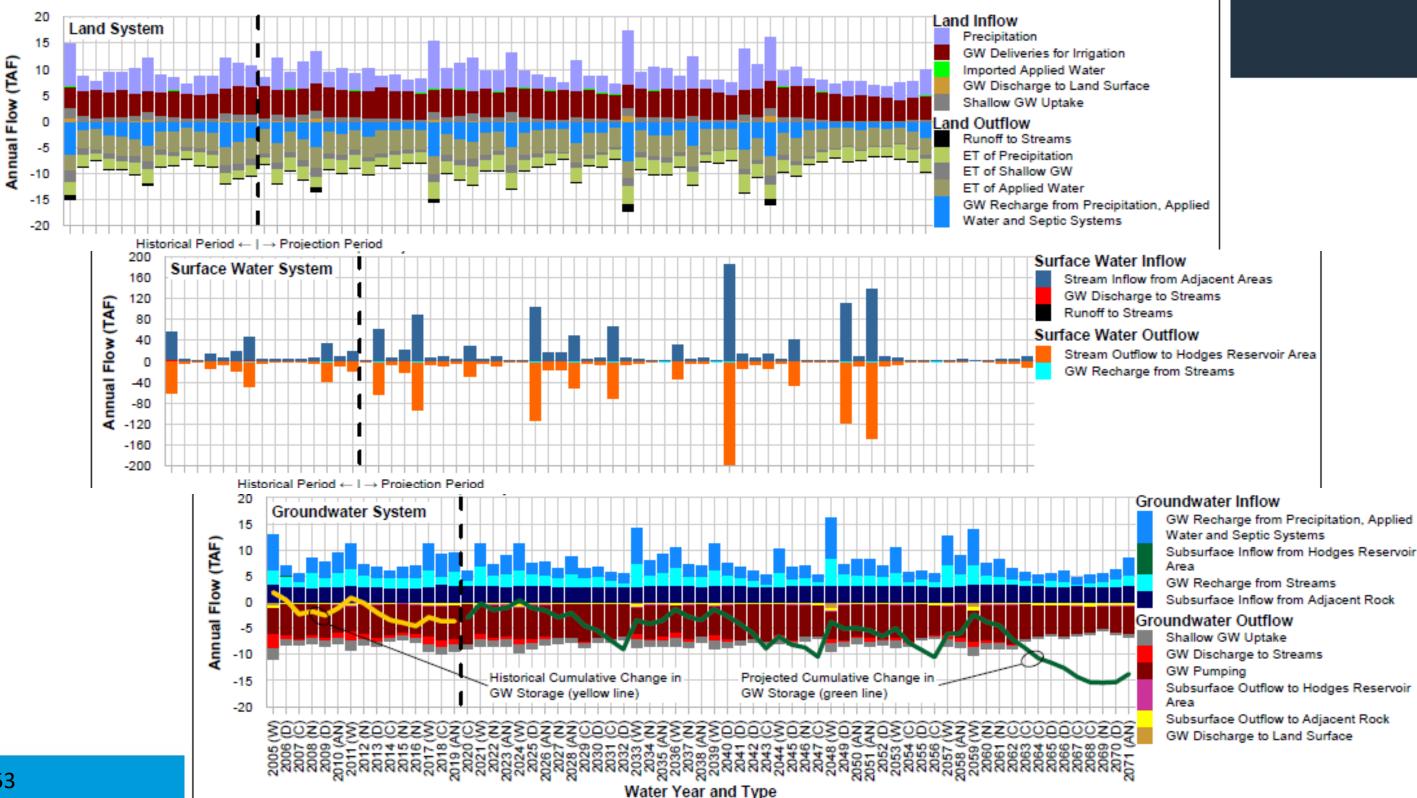
The main purpose of the model is to provide plausible water budgets to alert the GSA to potential future conditions, so it can develop a plan to responsibly manage the SPV GW Basin.



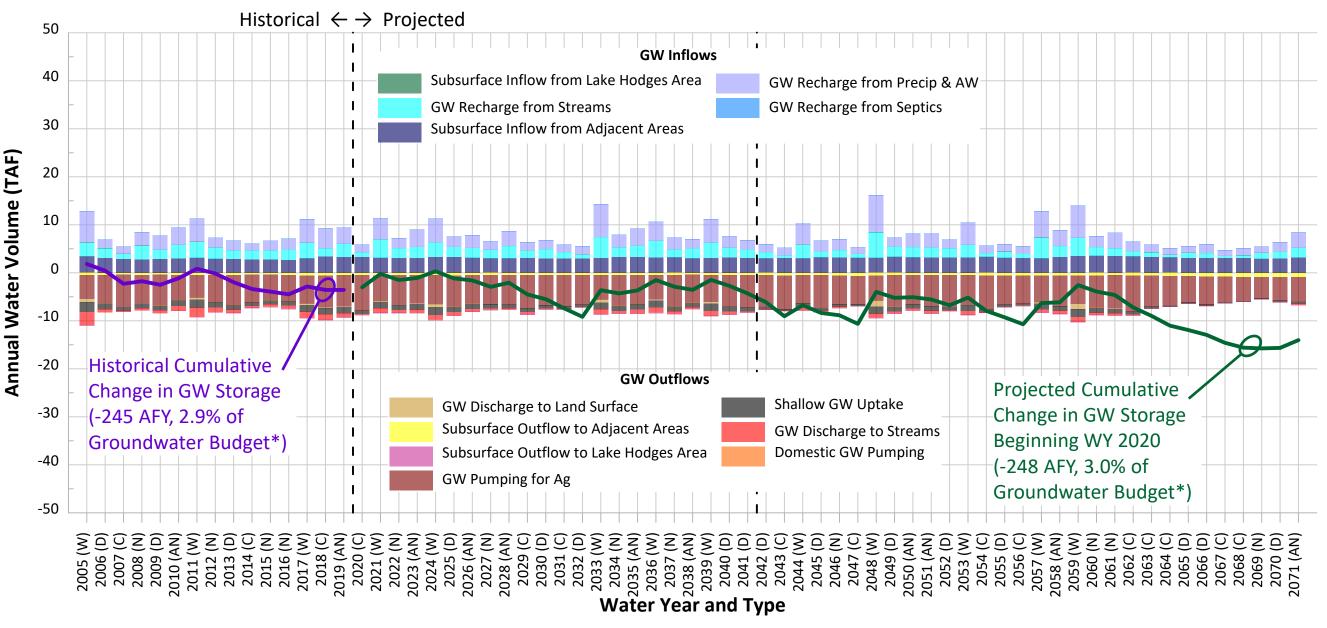
Historical (WYs 2005-2019)

Current (WYs 2015-2019)

Projected (WYs 2020-2071)



SD Water Budgets



*Historical Avg GW Budget = 8,472 AFY

SD Water Budgets

- Sustainable Yield
 - Defined as "...the maximum quantity of water calculated over a base period representative of long-term conditions in a basin, including any temporary surplus that can be withdrawn annually from a groundwater supply without causing an undesirable result."
 - The SPV Basin's sustainable yield is at least higher than historical agricultural pumping (i.e., above the average of the modeled historical pumping rate in the Basin)

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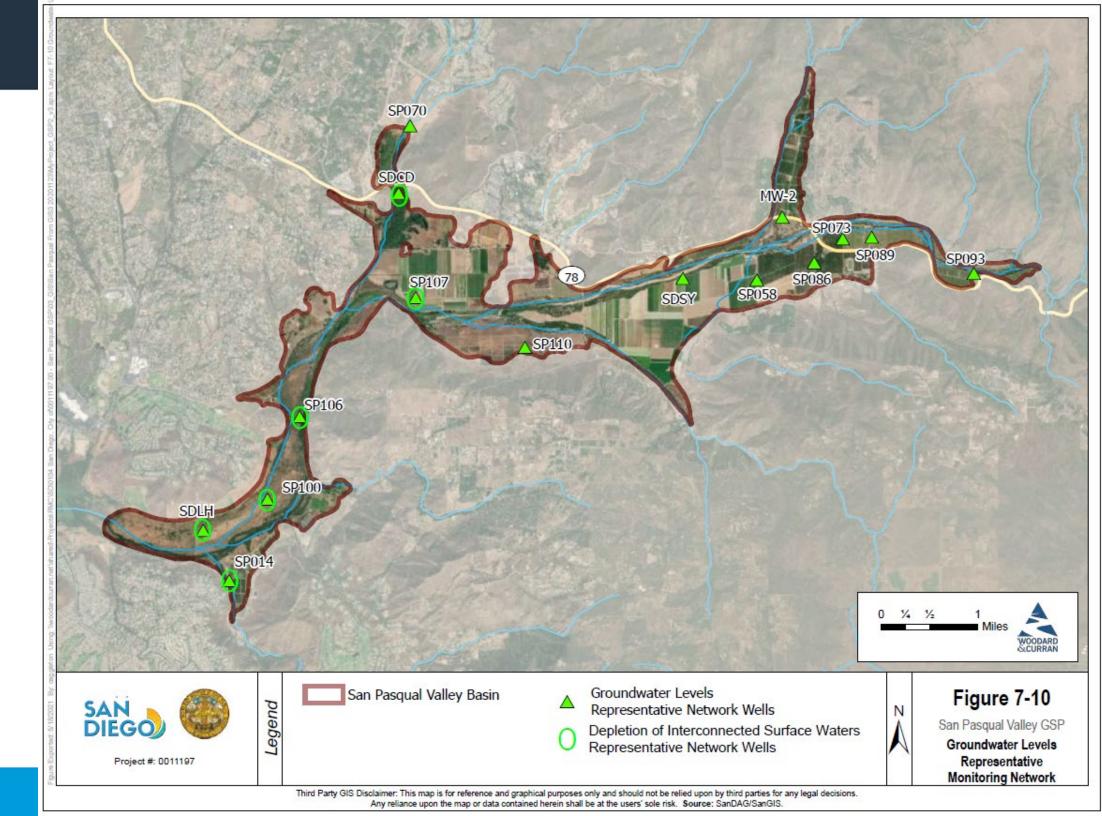
Monitoring Networks and Data Management System





Representative Monitoring Networks

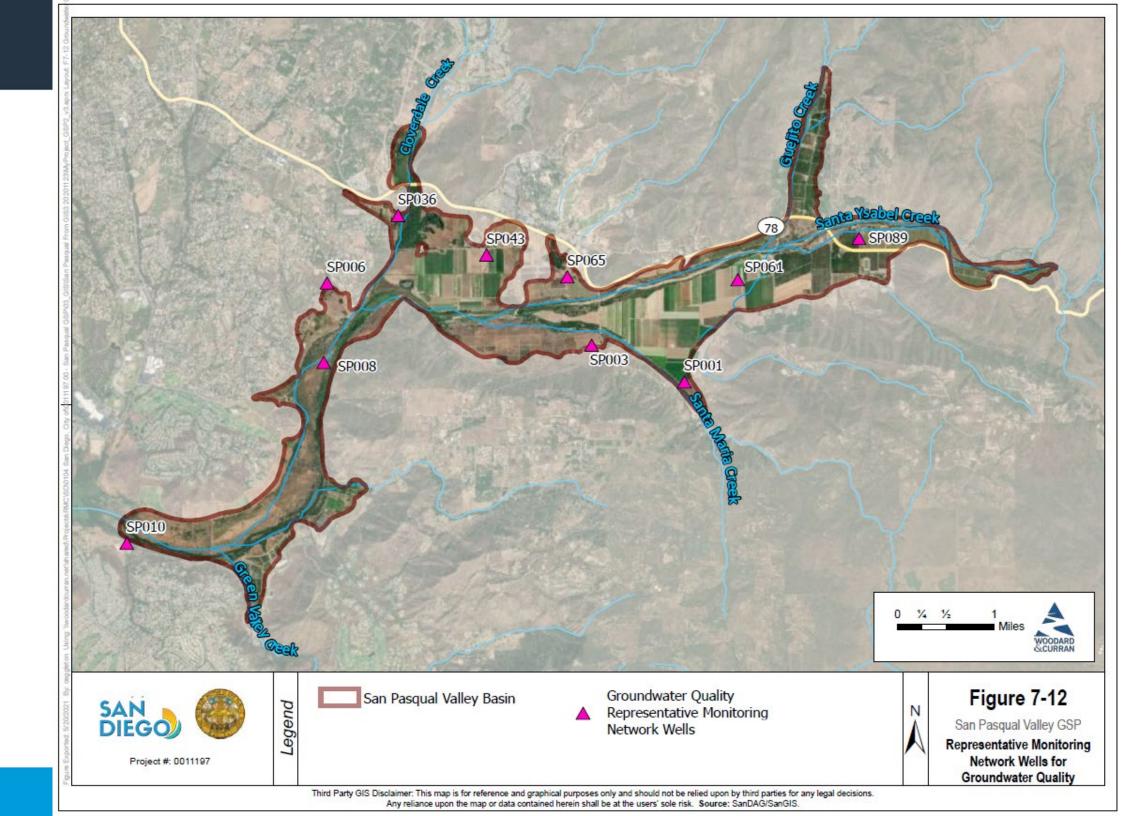
- Groundwater levels (15)
- Depletion of interconnected surface waters (6)





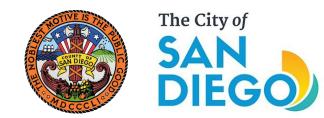
Representative Monitoring Networks

• Groundwater quality (10)

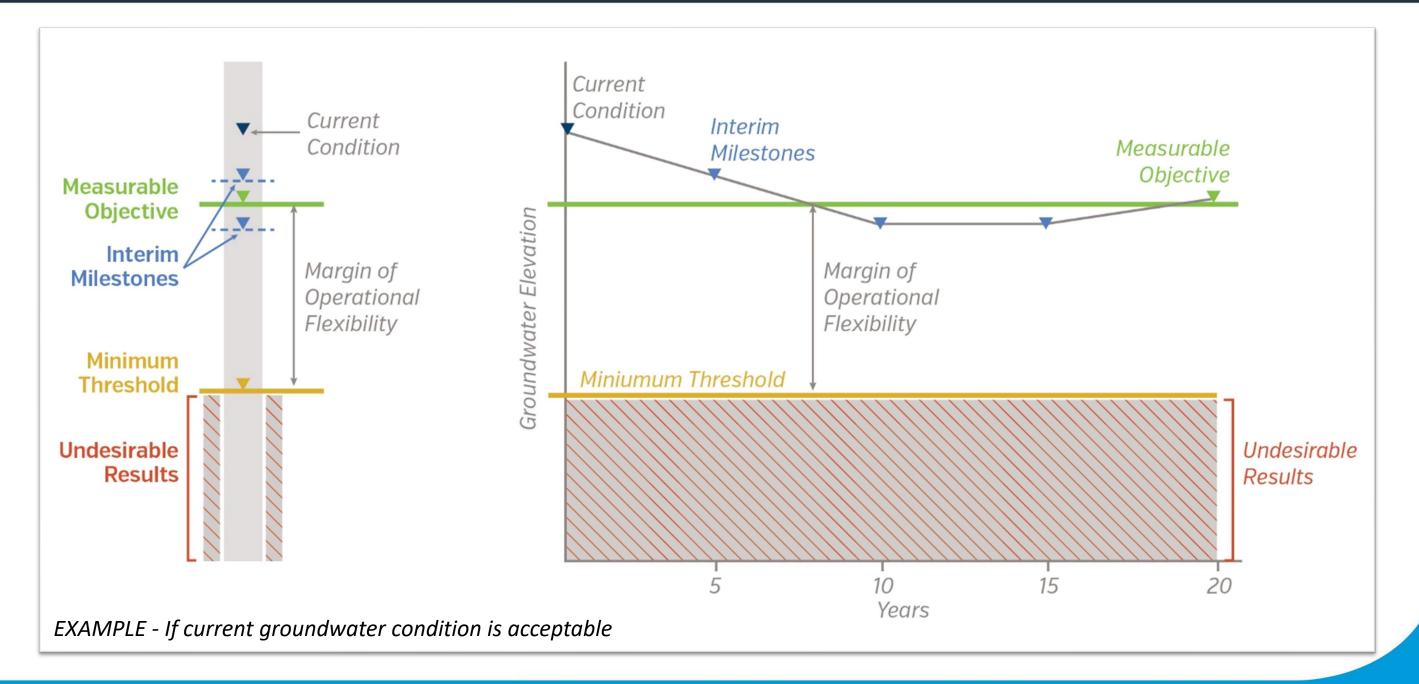


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SUSTAINABLE MANAGEMENT CRITERIA



- Sustainability Goal Statement that provides overarching goal of GSP
- Undesirable Results Helps us understand what conditions to avoid
- Monitoring Networks How we will monitor things to see if they are becoming or are undesirable
- Minimum Threshold Point or limit that indicates the basin may be experiencing an undesirable result
- *Measurable Objective* This is where the basin sets its goals to be
- *Margin of Operational Flexibility* This is the amount of storage the Basin would like to have above the minimum threshold for use during droughts



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- The Basin's sustainability goal is as follows:
 - To maintain a locally managed, economically viable, sustainable groundwater resource for existing and future beneficial use in the San Pasqual Valley Groundwater Basin by managing groundwater to avoid the occurrence of undesirable results.
- As the historical, current, projected, and projected with climate change model results indicate, the Basin has been operating sustainably and is likely to continue to be sustainable over this GSP's implementation period

 Undesirable results and sustainable management criteria are set for the following sustainability indicators



Chronic lowering of groundwater levels



Reduction of groundwater storage



Degraded water quality



Seawater intrusion



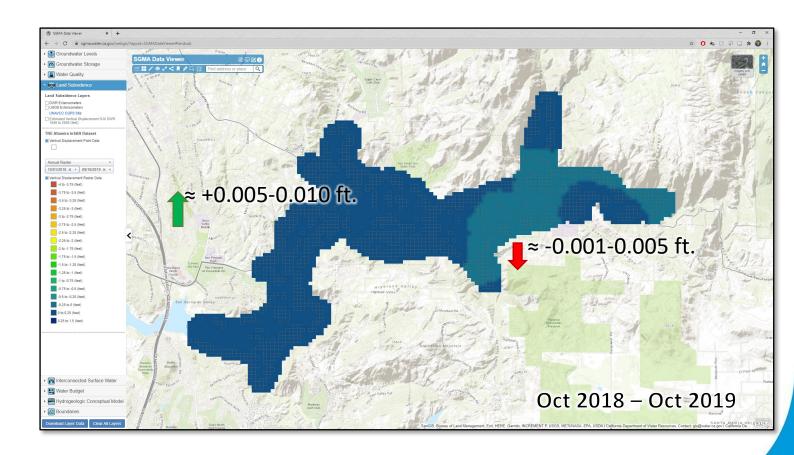
Depletions of interconnected surface water with impacts on beneficial uses including GDEs

Land Subsidence

- Subsidence is not a sustainability indicator that is likely to cause an undesirable result in the SPV Basin and will not be monitored
 - No historical inelastic subsidence
 - No major infrastructure
 - Few clays present in alluvium – limits possibility of future subsidence

Seawater Intrusion

 Due to the geographic location of the Basin, approximately 19 miles inland from the Pacific Ocean, seawater intrusion does not apply as a sustainability indicator



Undesirable Results

- Significant and unreasonable reduction in the long-term viability of domestic, agricultural, municipal, or environmental uses over the planning and implementation horizon of this GSP
 - Groundwater levels:
 - Dewatering of a subset of the existing groundwater infrastructure
 - Increased costs to pump groundwater
 - Adverse effects on GDEs to the extent connected with the production aquifer
 - Changes in irrigation practices and crops grown due to decreased water availability
 - Adverse effects to property values and the regional economy

• Groundwater storage:

- Dewatering of existing groundwater infrastructure
- Adverse effects to GDEs and property values
- Adverse effects to domestic and irrigation uses and users, which rely on groundwater in the Basin

Undesirable Results

 Significant and unreasonable reduction in the long-term viability of domestic, agricultural, municipal, or environmental uses over the planning and implementation horizon of this GSP

• Groundwater quality:

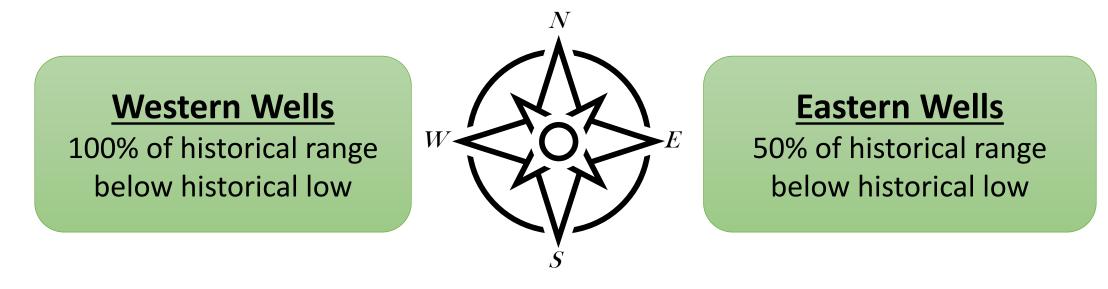
- A shortage in potable supply to groundwater users due to increased treatment costs or more limited access to alternate supplies for small end users
- High salinity impacting drinking water needs
- Crop health and yield for agriculture
- Impacts to GDEs, and surface water quality
- Adverse effects to property values

• Interconnected surface waters:

- Reduction in the number of days per year a stream flows in the Basin
- Lower stream flows and increased temperatures could potentially impact GDEs and riparian habitat

Groundwater Levels

- Minimum Threshold (MT) is intentionally designed to be:
 - Deeper than historical low, above bedrock, and above 20th percentile of nearby wells
 - Responsive to local monitoring well conditions
 - Below this threshold would be considered significant and unreasonable



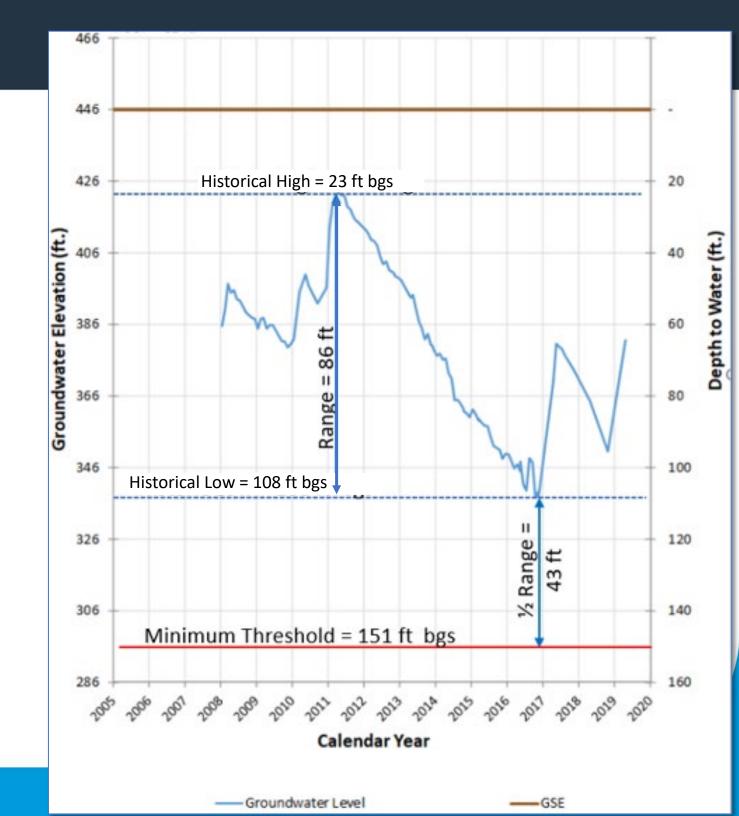
Note: historical range refers to the historical fluctuation of water levels within a given well

sb) 🛞 Setting SMCs

Groundwater Levels

• Minimum Threshold (MT) =

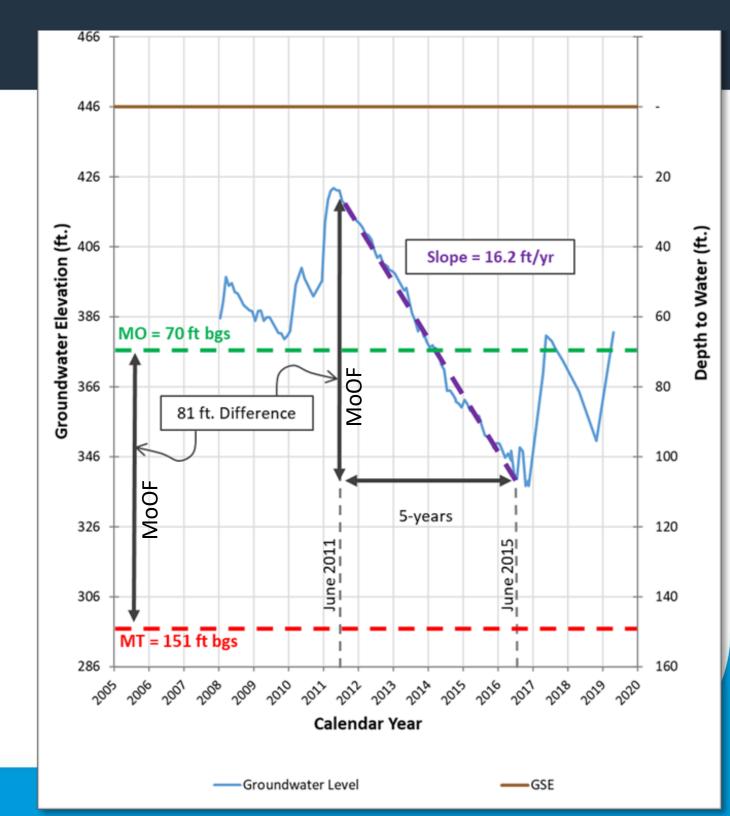
- Wells w/in 2,000 ft of potential GDEs – 100% of historical range below historical low
- Wells further than 2,000 ft from potential GDEs – 50% of historical range below historical low
- Sets MT at levels that are below historical low, yet above nearby well infrastructure and the bottom of the alluvium or residuum



sb) 🛞 Setting SMCs

Groundwater Levels

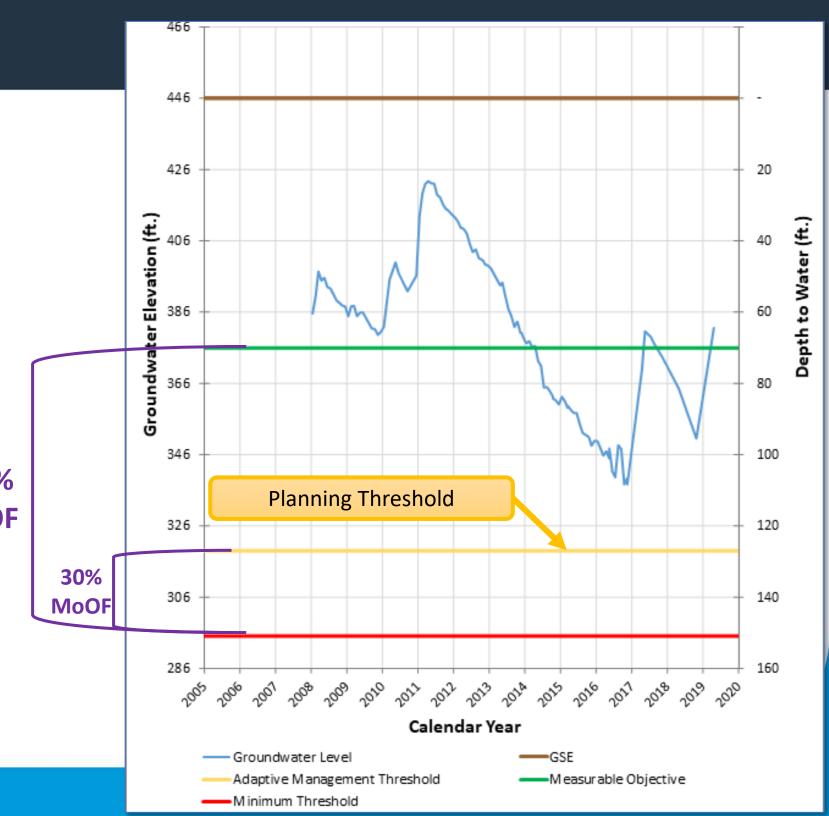
- Measurable Objective (MO) =
 - Wells w/in 2,000 ft of potential GDEs – 10 ft. below GSE
 - Wells further than 2,000 ft from potential GDEs – 5-years of drought buffer (100% of MoOF) above the MT
- Sets MO using the estimated MoOF at levels that provide an estimated 5 years of storage during drought conditions

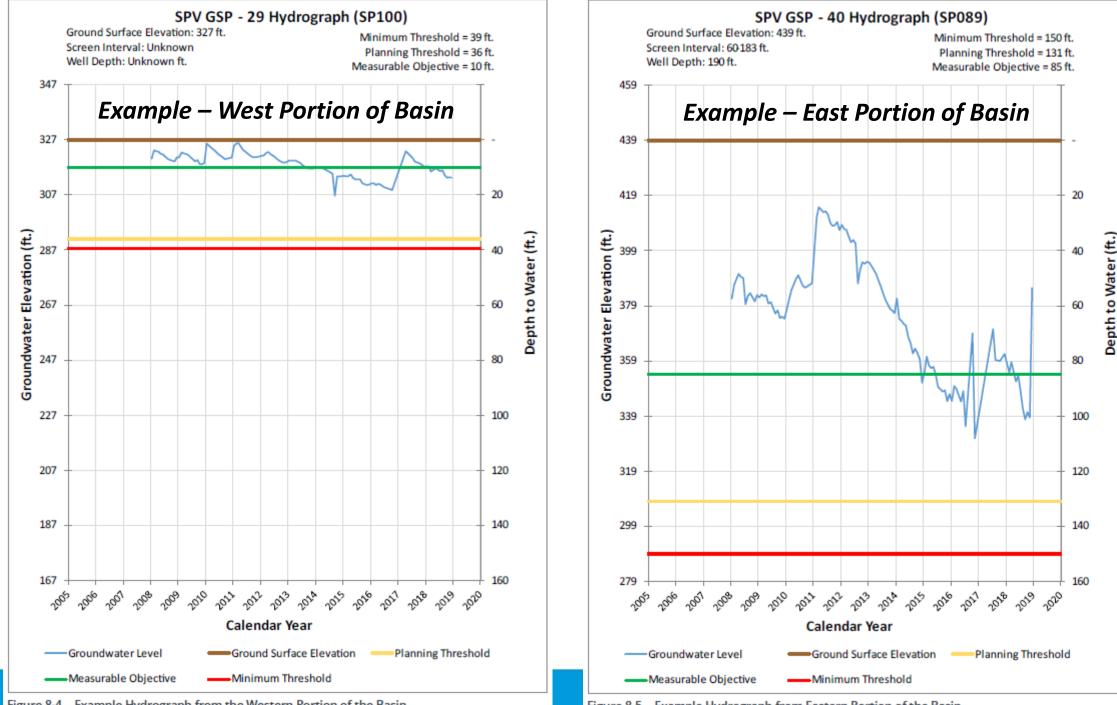


sb) 🍪 Setting SMCs

Groundwater Levels

- Planning Threshold (PT):
 - 30% of the MoOF above the MT
- Provides approximately 18 months of drought buffer (30% of MoOF) before the 100% MT is reached





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Figure 8-4. Example Hydrograph from the Western Portion of the Basin

Figure 8-5. Example Hydrograph from Eastern Portion of the Basin

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Groundwater Levels

- Minimum Threshold (MT):
 - If within 2,000 ft of GDE, set at 100% of historical range below the historical low
 - If farther than 2,000 ft from GDE, set at 50% of historical range below the historical low
- Margin of Operational Flexibility (MoOF):
 - Estimated to provide an estimated 5 years of storage during drought periods
- Measurable Objective (MO):
 - Set to provide an estimated 5 years of storage during drought periods above MT
- Planning Threshold (PT):
 - Set at 30% of the MoOF above the MT, to implement Tier 1 management actions
- Tier 1 Level (uses Planning Threshold):
 - Set to provide an estimated 18 months of time for planning prior to reaching the MT
- Tier 2 Level (uses Minimum Threshold):
 - Set to initiate management actions to avoid an undesirable result

Groundwater Storage

- Uses groundwater levels as a proxy
 - Permitted by SGMA
 - San Pasqual Valley does not have a regional confined aquifer
 - Simple and straight forward (no additional calculations, no annual modeling work)
 - Groundwater level sustainability criteria are protective of groundwater storage

Groundwater Quality

- Salt & Nutrient Management Plan (SNMP) indicates largest sources of loading are fertilizer use, surface water inflows, and evapoconcentration
- Set thresholds on constituents that are reflective of the tools the GSA has that may affect groundwater quality, which means:
 - 1. Constituent can be affected by water volume management
 - 2. Thresholds should be set within a range that the GSA can perform costappropriate management
 - 3. Rely on monitoring directly for reporting at each well site

Groundwater Quality

• Minimum Threshold (MT):

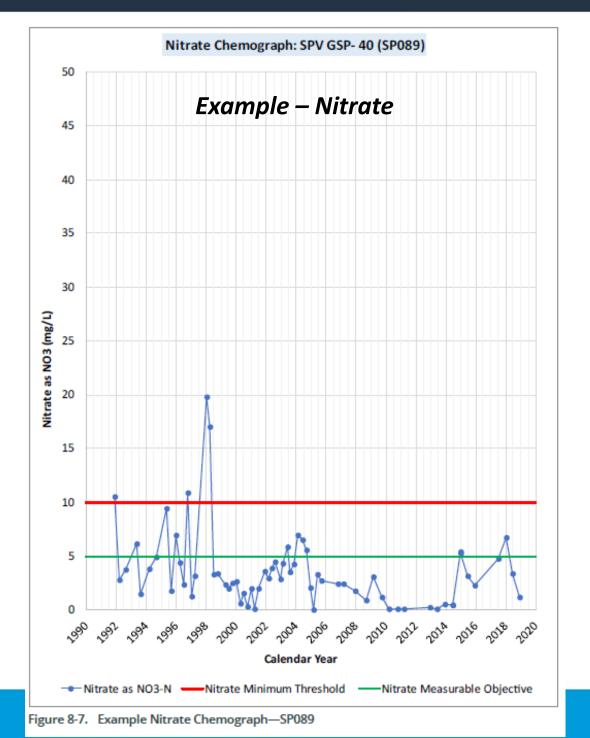
<u>Nitrate (as N)</u> 10 mg/L which is maximum containment level (MCL)

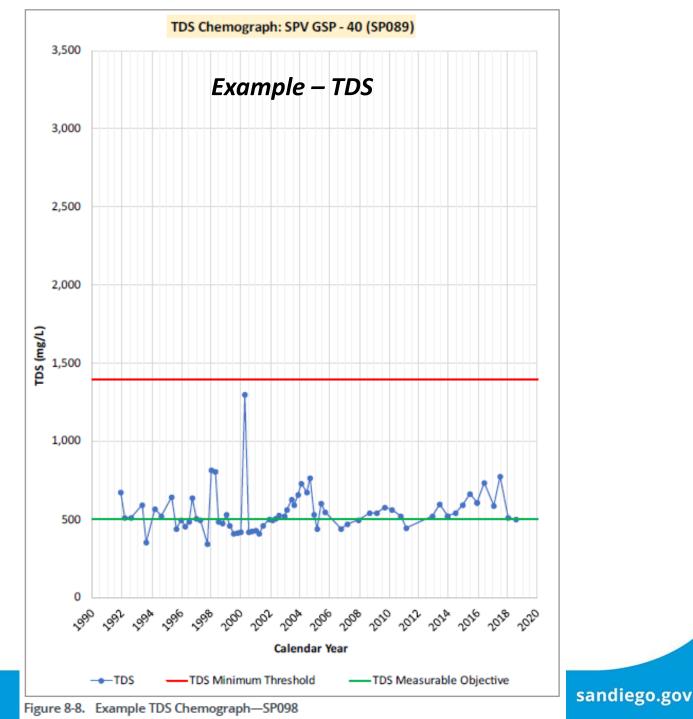




Historical high + 10%... or 1,000 mg/L which is upper secondary MCL

- Measurable Objective (MO):
 - Nitrate (as N) Set to 5 mg/L, which is half the MCL
 - TDS Set to 500 mg/L for most wells, which is lower secondary MCL; Set to 1,000 mg/L for wells with historical concentrations above 1,000 mg/L, which is SNMP target



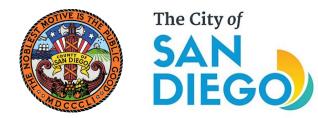


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Interconnected Surface Waters

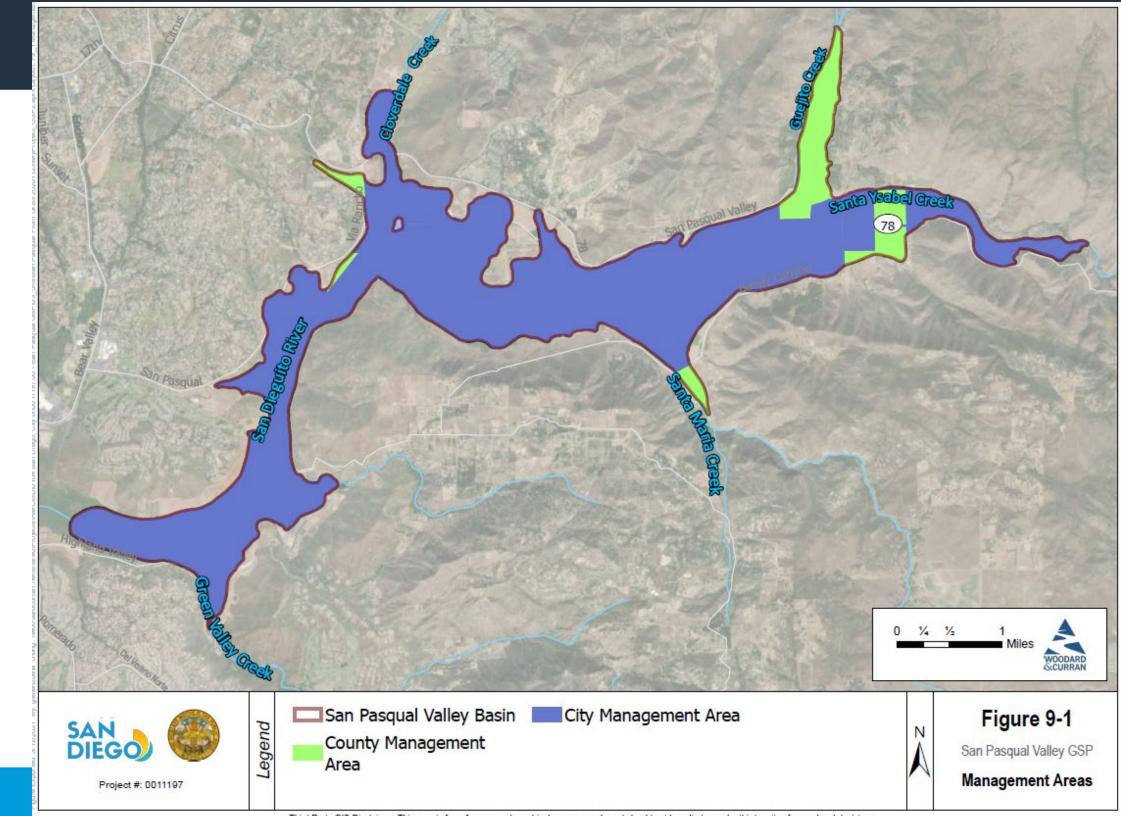
- Uses groundwater levels as a proxy
 - Permitted by SGMA
 - Uses the six wells in the western portion of the Basin that are within 2,000 feet of a potential GDE
 - Groundwater level sustainability criteria are protective of interconnected surface waters

PROJECTS AND MANAGEMENT ACTIONS AND PLAN IMPLEMENTATION





 Management Areas



Tier 0

May be implemented after GSP adoption

GSP Implementation

- GSP Program Management
- Pursue Funding Opportunities
- Public Outreach and Meetings
- Monitoring (Groundwater Levels and Quality)
- Reporting (Annual Report and Five-Year Update)
- Numerical Model Updates, as Needed

Projects & Management Actions

- 1.Coordinate on the Construction of Infiltration Basins at San Pasqual Union Elementary
- 2.Coordinate on the Implementation of Invasive Species Removal
- **3.**Farming Best Practices
- 4.Education and Outreach to Encourage Demand Softening
- 5.Support Water Quality Improvements Plan Actions
- 6.Coordinate and Collaborate with Other Entities and Agencies to Implement Regional Projects
- 7.Education and Outreach for TDS and Nitrate 8.Initial Surface Water Recharge Evaluation

Tier 1

Implemented if Tier 1 Exceeded

Projects & Management Actions

7.Study GDEs

8.Well Inventory

9.Basin-wide Metering Program

10.Pumping Reduction Plan

Tier 2

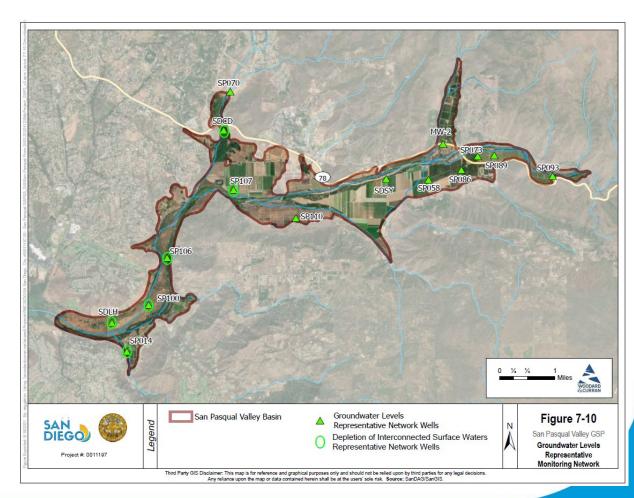
Implemented if Tier 2 Exceeded

Projects & Management Actions 11.Pumping Restrictions and Enforcement

80 Note: Study of Groundwater Dependent Ecosystems (GDEs) has separate thresholds as described in Section 9.

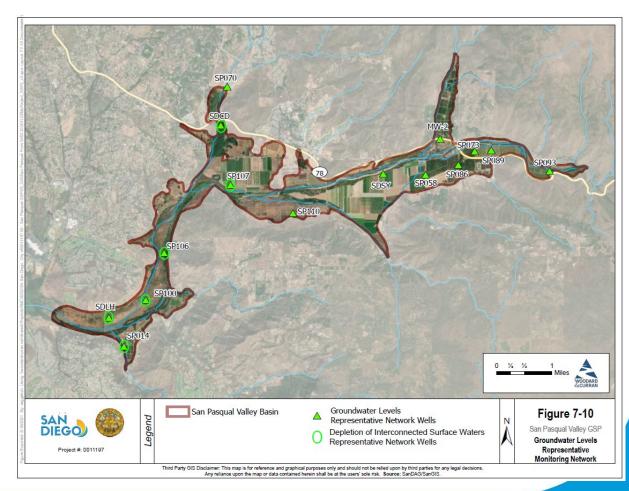
Tiers for PMA Implementation

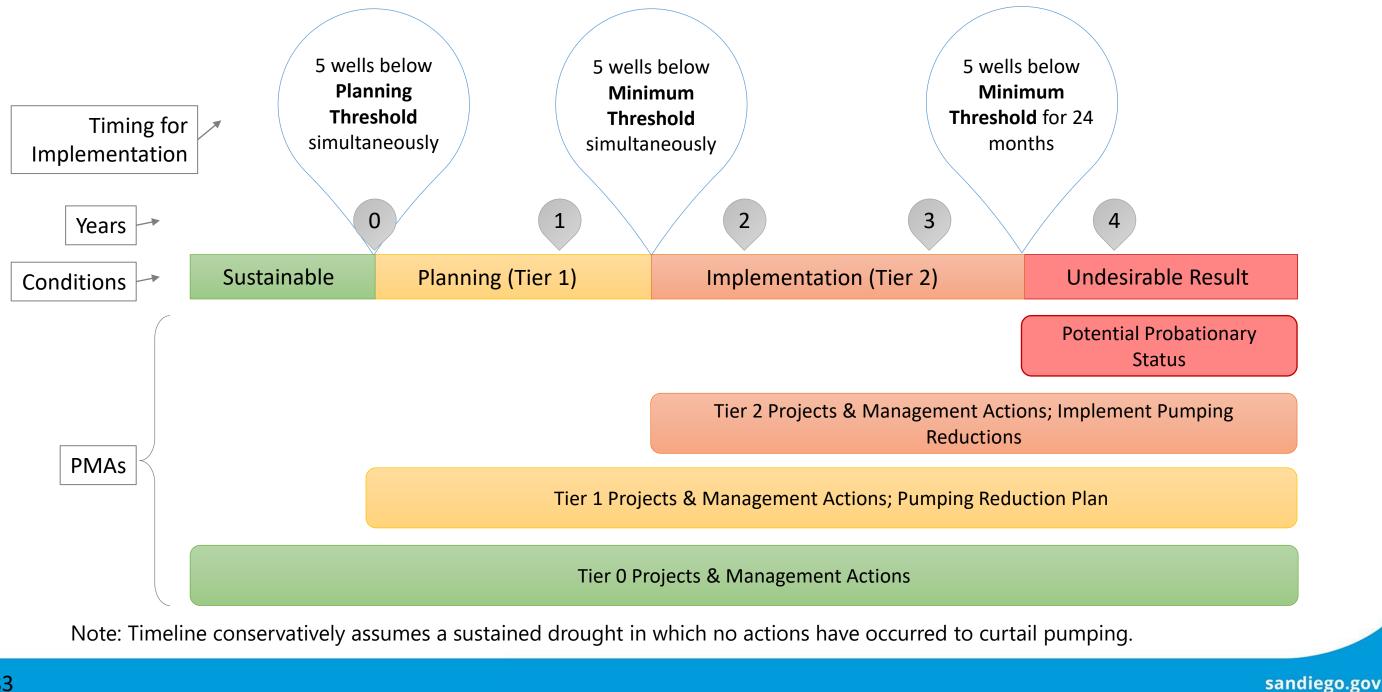
- Tier 0—These PMAs may be implemented by the GSA *at any time* after GSP adoption
- Tier 1—These PMAs may be implemented when *planning thresholds* are exceeded
 - Interconnected Surface Waters: GDEs Study may be initiated when 30% of representative monitoring wells in the western portion of the Basin (i.e., two of the six wells) within 2,000 feet of a potential GDE exceed the planning threshold
 - *Groundwater Levels*: Tier 1 actions may be initiated when 30% of the representative monitoring wells in the Basin (i.e., five of 15 wells) exceed the planning threshold



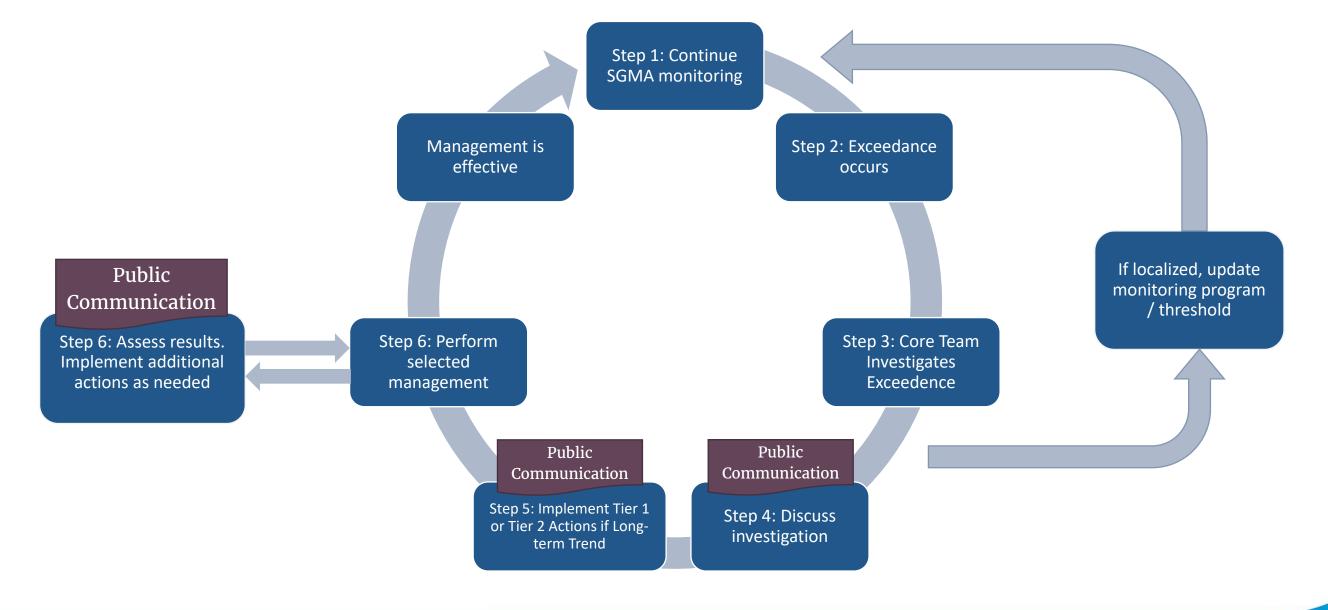
Tiers for PMA Implementation

- Tier 2—These PMAs may be implemented when *minimum thresholds* for groundwater levels are exceeded
 - *Groundwater Levels*: Tier 2 actions may be initiated when 30% of the representative monitoring wells in the Basin (i.e., five of 15 wells) exceed their minimum threshold





Implementation Process for Tier 1 and Tier 2 Management Actions



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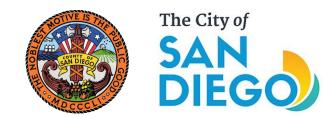
sb) 🛞 Plan Implementation

- Estimates costs for GSP implementation:
 - GSP Program Management
 - Pursue Funding Opportunities
 - Public Outreach and Meetings
 - Monitoring Programs
 - Annual Reports
 - Five-Year Evaluation Reports
 - Numerical Mode Updates, as needed
 - Projects & Management Actions (Tiers 0, 1, and 2)

Advisory Committee Comments



Summary of AC Input



Thank you to our Advisory Committee members for your time and commitment to the SPV GSP!



sb) 🛞 AC Member Input Was Incorporated

- Ways that AC member input has influenced and molded the GSP:
 - Increased Hydrologic Knowledge of the Basin Stakeholders provided well information, production data, water level data, and water quality data
 - Defined undesirable results conditions for the Basin (January 2020)
 - Helped GSA inventory all the wells and parcel land uses used in the hydrologic modeling (July 2020)
 - Planning Threshold was changed to provide more time for planning/design of Tier 1 management actions (Jan 2021)
 - Initiation of PMAs at planning and minimum thresholds was changed to occur when wells exceed threshold simultaneously (Jan 2021)

sb) 🚳 AC Member Input Was Incorporated

- PMAs that were incorporated into the GSP per AC member input:
 - GDEs will be addressed through a Groundwater Dependent Ecosystem Study if groundwater levels drop below planning thresholds
 - Coordinate on Implementation of Invasive Species Removal
 - Ensure integration with other regional programs such as the San Dieguito River WQIP, including supporting WQIP actions to update agricultural leases to include nutrient control measures and stormwater BMPs
 - Initial Surface Water Recharge evaluation of Sutherland Reservoir as a potential source of recharge to the Basin

sb) 🛞 GSP Implementation

- Continue public engagement during Plan implementation
 - Maintain SPV GSP website for Basin reports
 - Online: <u>https://www.sandiegocounty.gov/content/sdc/pds/SGMA/san-pasqual-valley.html</u>
 - Maintain stakeholder email list for announcements
 - Host public workshops to present Annual Reports or to report changing Basin conditions
 - Maintain online Data Management System with monitoring data

PUBLIC COMMENT



NEXT STEPS & CLOSING REMARKS



sb) 🚳 Next Steps & Closing Remarks

- Public Draft of SPV GSP
 - Online: https://www.sandiegocounty.gov/content/sdc/pds/SGMA/sanpasqual-valley.html
- Comments accepted June 14 August 13, 2021: Karina Danek at kdanek@sandiego.gov
- Adoption by GSA (County and City) to follow in October/November
- Submittal of Final GSP to DWR in December