



## **SAN ANTONIO BASIN GROUNDWATER SUSTAINABILITY AGENCY**

### **NOTICE OF PUBLIC MEETING**

**NOTICE IS HEREBY GIVEN** that the San Antonio Basin Groundwater Sustainability Agency (“Agency” or “SABGSA”) Board of Directors (“Board”) will hold its regular **Board Meeting** at **6:00 P.M. on Tuesday, April 19, 2022**, at the **Los Alamos Community Services District, 82 St. Joseph Street, Los Alamos, CA 93440**. Virtual option available for public participation

Join Zoom Meeting:

<https://us06web.zoom.us/j/84155018924?pwd=TWdFL041UTVPMW5Mc1dP1E4T1Rjdz09>

Meeting ID: 841 5501 8924 Passcode: 473110

Dial: (669) 900 6833

### **SAN ANTONIO BASIN GROUNDWATER SUSTAINABILITY AGENCY (SABGSA)**

#### **BOARD OF DIRECTORS MEETING AGENDA**

**Tuesday, April 19, 2022**

**1. CALL TO ORDER and ROLL CALL**

**2. PLEDGE OF ALLEGIANCE**

**3. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA**

The Board will receive public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Agency. The Board will not enter into a detailed discussion, answer questions, or take any action on any items presented during public comments. In the Board’s discretion, any issue raised during Public Comment may be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to no more than three minutes.

**4. CONSENT ITEMS**

**a. Approve Minutes from March 15, 2022, Regular Meeting**

**b. Agency Finances, Budget, and Training**

- i. The Board will receive a report from the accountant regarding finances and expenses.
- ii. The Board will receive a report regarding training

**5. INFORMATIONAL ITEMS**

**a. Executive Director Update**

- Update on activities performed by the Executive Director

**b. San Antonio Basin Water District Update**

- Update on San Antonio Basin Water District activities

**c. Advisory Committee Updates**

- Update on Advisory Committee

**d. Board Member Updates**

- Board members will provide any updates relevant to the GSA

*\*In compliance with the American with Disabilities Act, all possible accommodations will be made for individuals so they may attend and participate in the meetings.*

## **6. DISCUSSION AND ACTION ITEMS**

### **a. Executive Order N-7-22**

The Board of Directors will discuss Executive Order N-7-22, focusing on the new requirements impacting groundwater sustainability agencies related to “written verifications” for water well permits, in Section 9 of the Executive Order. The Board may take action or provide specific direction to the Board Chair, staff and/or SABGSA’s legal counsel.

### **b. Q1 2022 Quarterly Water Level Monitoring Report for the San Antonio Creek Valley Groundwater Basin**

The SABGSA has received the Q1 2022 Quarterly Water Level Monitoring Report. The Board of Directors will review and discuss the recommendations listed in the report and may take action or provide specific direction to staff and/or GSI Water Solutions.

### **c. On-Call Services Proposal from GSI Water Solutions**

The Board of Directors may take action on an On-Call Services proposal from GSI Water Solutions.

### **d. SABGSA Budget Priorities for Fiscal Year 2022-23**

The Board of Directors will discuss priorities for the San Antonio Basin Groundwater Sustainability Agency’s budget for fiscal year 2022-23. The Board may direct staff on this item.

**NEXT MEETING: May 17, 2022, at 6pm at the Los Alamos Community Services District**

## **7. ADJOURN**

Please contact Stephanie Bertoux at [admin@sanantoniobasingsa.org](mailto:admin@sanantoniobasingsa.org) with any questions.



**SAN ANTONIO BASIN GROUNDWATER SUSTAINABILITY AGENCY**  
**SAN ANTONIO BASIN GROUNDWATER SUSTAINABILITY AGENCY (SABGSA)**  
**BOARD OF DIRECTORS MEETING**

**DRAFT MINUTES**

**Tuesday, March 15, 2022**

1. **CALL TO ORDER and ROLL CALL** – The meeting was called to order by President Sharer at 6:00pm at the Los Alamos Community Services District, 82 St. Joseph Street, Los Alamos, CA. Members of the public had the option to participate virtually or in-person.

**Board of Directors Present:** Tom Durant, Juan Gomez, Kevin Merrill, Kenny Pata, Randy Sharer, Chris Wrather

**Alternates present, but not acting on behalf of a Director:** Patrice Mosby

**Directors Absent:** Dan Chabot, Pat Huguenard

2. **PLEDGE OF ALLEGIANCE**

3. **PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA**

No public comments received.

4. **CONSENT ITEMS**

- a. **Approve Minutes from February 15, 2022, SABGSA Board Meeting**

**Motion by Director Wrather, second by Director Pata to approve the minutes of February 15, 2022, Board meeting as presented.**

**Ayes:** Directors: Tom Durant, Kevin Merrill, Kenny Pata, Randy Sharer, Chris Wrather

**Nos:** None; **Absent:** Dan Chabot, Pat Huguenard; **Abstain:** Juan Gomez

- b. **Agency Finances, Budgeting and Training**

**Motion by Director Merrill second by Director Durant to approve the financial and training reports as presented.**

**Ayes:** Directors: Tom Durant, Kevin Merrill, Kenny Pata, Randy Sharer, Chris Wrather

**Nos:** None; **Absent:** Dan Chabot, Pat Huguenard; **Abstain:** Juan Gomez

5. **INFORMATIONAL ITEMS**

- a. **Executive Director Updates**

- The Well Registration and Metering Ad Hoc Committee held a kick-off meeting in March. The Ad Hoc Committee is researching existing programs developed by other GSAs and is working to create and define the process for the development of SABGSA's program beginning with well registration.
- Barka Slough Stream Gage: Ken Domako reported that VSFB is working to solidify a location with the USGS for the placement of an upstream gage near the Barka Slough. The specifications for the gage equipment, costs, and timeline for installation are forthcoming. Matt Scrudato, County of Santa Barbara, and GSI Water Solutions assisted with identifying potential locations.
- The SABGSA currently has two vacant Alternate Director positions. The SABWD has the

authority to appoint Alternates to the SABGSA Board of Directors. The SABGSA will request that the SABWD consider clarifying existing and future appointments of the Alternate GSA Board Members to a Representational Category rather than a specific Board Member within each Representation Category. In the case of Vineyard and Row Crop Representational Categories - where there are two Alternate Board Members in each category - this clarification would allow flexibility for either of the two Alternates Board Members to represent the Board Member within their respective categories.

**b. San Antonio Basin Water District Update**

Donna Glass, SABWD Executive Director, reported that as of February 28, 2022, the District has collected 88% of the assessment levied for the 2021-22 fiscal year.

**c. Advisory Committee Updates**

At the request of the SABGSA, the Advisory Committee met on March 1, 2022, to review the draft 2021 GSP Annual Report. The Advisory Committee provided comments and identified potential revisions for the Board's consideration that will be discussed under item 6.a. on the agenda. The next Advisory Committee meeting is scheduled for April 5, 2022.

**d. Board Member Updates**

No report.

**6. ACTION ITEMS**

**a. 2021 Groundwater Sustainability Plan Annual Report**

Jeff Barry and Mike McAlpin, GSI Water Solutions, presented the draft 2021 Groundwater Sustainability Plan Annual Report and addressed the comments received from the SABGSA Advisory Committee at the March 1, 2022, meeting. The Board agreed with the comments and recommendations provided by the Advisory Committee and directed GSI Water Solutions to incorporate the following changes into the 2021 Annual Report.

- Figure 19 (formerly 19 – 21) – General Location and Volume of Groundwater Extractions
  - Concern for using color ramped hexagons (average groundwater pumping based on land use data) to represent locations and volume of pumping within the basin
  - Recommendation of revision to color palette
  - Recommendation to add estimated groundwater extraction, in AFY, for each land use/crop type listed
  - Include a “ledger” identifying the change in acreage by crop type after 2018.
- Figures 20 – 23 (formerly 22 – 25) – Annual Change in Groundwater Elevation Maps
  - Recommendation of revision to color palette
- Table 7 - Annual Changes in Groundwater in Storage
  - Recommendation to confirm consistent use of “changes in groundwater in storage” vs “change in storage”

**Motion by Director Durant second by Director Wrather to direct GSI Water Solutions to revise the 2021 GSP Annual Report as noted and submit the amended Annual Report to the Department of Water Resources ahead of the April 1, 2022, deadline.**

**Ayes:** Directors: Tom Durant, Juan Gomez, Kevin Merrill, Kenny Pata, Randy Sharer, Chris Wrather

**Nos:** None; **Absent:** Dan Chabot, Pat Huguenard; **Abstain:** None

**b. Change Order No. 1: Water Level Reporting for the San Antonio Creek Valley Groundwater Basin for Calendar Year 2022**

The scope of work and budget for ongoing quarterly monitoring was approved by the SABGSA Board of Directors on February 15, 2022, but this authorization did not include reporting. The Board reviewed and discussed Change Order No. 1 from GSI Water Solutions for quarterly groundwater level reporting for calendar year 2022.

**Motion by Director Wrather second by Director Merrill to approve Change Order No. 1 from GSI Water Solutions for quarterly groundwater level reporting for calendar year 2022 in the amount**

**of \$5,590.00**

**Ayes:** Directors: Tom Durant, Juan Gomez, Kevin Merrill, Kenny Pata, Randy Sharer, Chris Wrather

**Nos:** None; **Absent:** Dan Chabot, Pat Huguenard; **Abstain:** None

**c. SABGSA Budget Update for FY 2021-22**

Executive Director Stephanie Bertoux presented a status update on the approved budget for fiscal year 2021-22 that included a review of contracts in place, projected expenditures through June 30, 2022, and the timing of remaining grant funds anticipated from the Department of Water Resources. The Board of Directors would like to discuss priorities for the FY 2022-23 budget at the April 19, 2022, GSA Board meeting. No action was taken on this item.

**7. NEXT MEETING: April 19, 2022, at Los Alamos Community Services District**

**8. ADJOURNMENT - 7:21pm**

Please contact Stephanie Bertoux at [admin@sanantoniobasinga.org](mailto:admin@sanantoniobasinga.org) with any questions.

EXECUTIVE DEPARTMENT  
STATE OF CALIFORNIA

EXECUTIVE ORDER N-7-22

**WHEREAS** on April 12, 2021, May 10, 2021, July 8, 2021, and October 19, 2021, I proclaimed states of emergency that continue today and exist across all the counties of California, due to extreme and expanding drought conditions; and

**WHEREAS** climate change continues to intensify the impacts of droughts on our communities, environment, and economy, and California is in a third consecutive year of dry conditions, resulting in continuing drought in all parts of the State; and

**WHEREAS** the 21st century to date has been characterized by record warmth and predominantly dry conditions, and the 2021 meteorological summer in California and the rest of the western United States was the hottest on record; and

**WHEREAS** since my October 19, 2021 Proclamation, early rains in October and December 2021 gave way to the driest January and February in recorded history for the watersheds that provide much of California's water supply; and

**WHEREAS** the ongoing drought will have significant, immediate impacts on communities with vulnerable water supplies, farms that rely on irrigation to grow food and fiber, and fish and wildlife that rely on stream flows and cool water; and

**WHEREAS** the two largest reservoirs of the Central Valley Project, which supplies water to farms and communities in the Central Valley and the Santa Clara Valley and provides critical cold-water habitat for salmon and other anadromous fish, have water storage levels that are approximately 1.1 million acre-feet below last year's low levels on this date; and

**WHEREAS** the record-breaking dry period in January and February and the absence of significant rains in March have required the Department of Water Resources to reduce anticipated deliveries from the State Water Project to 5 percent of requested supplies; and

**WHEREAS** delivery of water by bottle or truck is necessary to protect human safety and public health in those places where water supplies are disrupted; and

**WHEREAS** groundwater use accounts for 41 percent of the State's total water supply on an average annual basis but as much as 58 percent in a critically dry year, and approximately 85 percent of public water systems rely on groundwater as their primary supply; and

**WHEREAS** coordination between local entities that approve permits for new groundwater wells and local groundwater sustainability agencies is important to achieving sustainable levels of groundwater in critically overdrafted basins; and

**WHEREAS** the duration of the drought, especially following a multiyear drought that abated only five years ago, underscores the need for California to redouble near-, medium-, and long-term efforts to adapt its water management and delivery systems to a changing climate, shifting precipitation patterns, and water scarcity; and

**WHEREAS** the most consequential, immediate action Californians can take to extend available supplies is to voluntarily reduce their water use by 15 percent from their 2020 levels by implementing the commonsense measures identified in operative paragraph 1 of Executive Order N-10-21 (July 8, 2021); and

**WHEREAS** to protect public health and safety, it is critical the State take certain immediate actions without undue delay to prepare for and mitigate the effects of the drought conditions, and under Government Code section 8571, I find that strict compliance with various statutes and regulations specified in this Proclamation would prevent, hinder, or delay the mitigation of the effects of the drought conditions.

**NOW, THEREFORE, I, GAVIN NEWSOM**, Governor of the State of California, in accordance with the authority vested in me by the State Constitution and statutes, including the California Emergency Services Act, and in particular, Government Code sections 8567, 8571, and 8627, do hereby issue the following Order to become effective immediately:

**IT IS HEREBY ORDERED THAT:**

1. The orders and provisions contained in my April 21, 2021, May 10, 2021, July 8, 2021, and October 19, 2021 Proclamations remain in full force and effect, except as modified by those Proclamations and herein. State agencies shall continue to implement all directions from those Proclamations and accelerate implementation where feasible.
2. To help the State achieve its conservation goals and ensure sufficient water for essential indoor and outdoor use, I call on all Californians to strive to limit summertime water use and to use water more efficiently indoors and out. The statewide Save Our Water conservation campaign at [SaveOurWater.com](http://SaveOurWater.com) provides simple ways for Californians to reduce water use in their everyday lives. Furthermore, I encourage Californians to understand and track the amount of water they use and measure their progress toward their conservation goals.
3. By May 25, 2022, the State Water Resources Control Board (Water Board) shall consider adopting emergency regulations that include all of the following:
  - a. A requirement that each urban water supplier, as defined in section 10617 of the Water Code, shall submit to the Department of Water Resources a preliminary annual water supply and demand assessment consistent with section 10632.1 of the Water Code no later than June 1, 2022, and submit a final annual water

supply and demand assessment to the Department of Water Resources no later than the deadline set by section 10632.1 of the Water Code;

- b. A requirement that each urban water supplier that has submitted a water shortage contingency plan to the Department of Water Resources implement, at a minimum, the shortage response actions adopted under section 10632 of the Water Code for a shortage level of up to twenty percent (Level 2), by a date to be set by the Water Board; and
- c. A requirement that each urban water supplier that has not submitted a water shortage contingency plan to the Department of Water Resources implement, at a minimum, shortage response actions established by the Water Board, which shall take into consideration model actions that the Department of Water Resources shall develop for urban water supplier water shortage contingency planning for Level 2, by a date to be set by the Water Board.

To further conserve water and improve drought resiliency if the drought lasts beyond this year, I encourage urban water suppliers to conserve more than required by the emergency regulations described in this paragraph and to voluntarily activate more stringent local requirements based on a shortage level of up to thirty percent (Level 3).

- 4. To promote water conservation, the Department of Water Resources shall consult with leaders in the commercial, industrial, and institutional sectors to develop strategies for improving water conservation, including direct technical assistance, financial assistance, and other approaches. By May 25, 2022, the Water Board shall consider adopting emergency regulations defining "non-functional turf" (that is, a definition of turf that is ornamental and not otherwise used for human recreation purposes such as school fields, sports fields, and parks) and banning irrigation of non-functional turf in the commercial, industrial, and institutional sectors except as it may be required to ensure the health of trees and other perennial non-turf plantings.
- 5. In order to maximize the efficient use of water and to preserve water supplies critical to human health and safety and the environment, Public Resources Code, Division 13 (commencing with section 21000) and regulations adopted pursuant to that Division are hereby suspended, with respect to the directives in paragraphs 3 and 4 of this Order and any other projects and activities for the purpose of water conservation to the extent necessary to address the impacts of the drought, and any permits necessary to carry out such projects or activities. Entities that desire to conduct activities under this suspension, other than the directives in paragraphs 3 and 4 of this Order, shall first request that the Secretary of the Natural Resources Agency make a determination that the proposed activities are eligible to be conducted under this suspension. The Secretary shall use sound discretion in applying this Executive Order to ensure that the suspension serves the purpose of accelerating conservation projects that are necessary to address impacts of the drought, while at the same time



protecting public health and the environment. The entities implementing these directives or conducting activities under this suspension shall maintain on their websites a list of all activities or approvals for which these provisions are suspended.

6. To support voluntary approaches to improve fish habitat that would require change petitions under Water Code section 1707 and either Water Code sections 1425 through 1432 or Water Code sections 1725 through 1732, and where the primary purpose is to improve conditions for fish, the Water Board shall expeditiously consider petitions that add a fish and wildlife beneficial use or point of diversion and place of storage to improve conditions for anadromous fish. California Code of Regulations, title 23, section 1064, subdivisions (a)(1)(A)(i)-(ii) are suspended with respect to any petition that is subject to this paragraph.
7. To facilitate the hauling of water for domestic use by local communities and domestic water users threatened with the loss of water supply or degraded water quality resulting from drought, any ordinance, regulation, prohibition, policy, or requirement of any kind adopted by a public agency that prohibits the hauling of water out of the water's basin of origin or a public agency's jurisdiction is hereby suspended. The suspension authorized pursuant to this paragraph shall be limited to the hauling of water by truck or bottle to be used for human consumption, cooking, or sanitation in communities or residences threatened with the loss of affordable safe drinking water. Nothing in this paragraph limits any public health or safety requirement to ensure the safety of hauled water.
8. The Water Board shall expand inspections to determine whether illegal diversions or wasteful or unreasonable use of water are occurring and bring enforcement actions against illegal diverters and those engaging in the wasteful and unreasonable use of water. When access is not granted by a property owner, the Water Board may obtain an inspection warrant pursuant to the procedures set forth in Title 13 (commencing with section 1822.50) of Part 3 of the Code of Civil Procedure for the purposes of conducting an inspection pursuant to this directive.
9. To protect health, safety, and the environment during this drought emergency, a county, city, or other public agency shall not:
  - a. Approve a permit for a new groundwater well or for alteration of an existing well in a basin subject to the Sustainable Groundwater Management Act and classified as medium- or high-priority without first obtaining written verification from a Groundwater Sustainability Agency managing the basin or area of the basin where the well is proposed to be located that groundwater extraction by the proposed well would not be inconsistent with any sustainable groundwater management program established in any applicable Groundwater Sustainability Plan adopted by that Groundwater Sustainability

Agency and would not decrease the likelihood of achieving a sustainability goal for the basin covered by such a plan; or

- b. Issue a permit for a new groundwater well or for alteration of an existing well without first determining that extraction of groundwater from the proposed well is (1) not likely to interfere with the production and functioning of existing nearby wells, and (2) not likely to cause subsidence that would adversely impact or damage nearby infrastructure.

This paragraph shall not apply to permits for wells that will provide less than two acre-feet per year of groundwater for individual domestic users, or that will exclusively provide groundwater to public water supply systems as defined in section 116275 of the Health and Safety Code.

10. To address household or small community drinking water shortages dependent upon groundwater wells that have failed due to drought conditions, the Department of Water Resources shall work with other state agencies to investigate expedited regulatory pathways to modify, repair, or reconstruct failed household or small community or public supply wells, while recognizing the need to ensure the sustainability of such wells as provided for in paragraph 9.
11. State agencies shall collaborate with tribes and federal, regional, and local agencies on actions related to promoting groundwater recharge and increasing storage.
12. To help advance groundwater recharge projects, and to demonstrate the feasibility of projects that can use available high water flows to recharge local groundwater while minimizing flood risks, the Water Board and Regional Water Quality Control Boards shall prioritize water right permits, water quality certifications, waste discharge requirements, and conditional waivers of waste discharge requirements to accelerate approvals for projects that enhance the ability of a local or state agency to capture high precipitation events for local storage or recharge, consistent with water right priorities and protections for fish and wildlife. For the purposes of carrying out this paragraph, Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division, and Chapter 3 (commencing with section 85225) of Part 3 of Division 35 of the Water Code and regulations adopted pursuant thereto are hereby suspended to the extent necessary to address the impacts of the drought. This suspension applies to (a) any actions taken by state agencies, (b) any actions taken by local agencies where the state agency with primary responsibility for the implementation of the directives concurs that local action is required, and (c) permits necessary to carry out actions under (a) or (b). The entities implementing these directives shall maintain on their websites a list of all activities or approvals for which these provisions are suspended.
13. With respect to recharge projects under either Flood-Managed Aquifer Recharge or the Department of Water Resources Sustainable

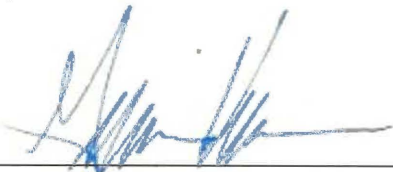
Groundwater Management Grant Program occurring on open and working lands to replenish and store water in groundwater basins that will help mitigate groundwater conditions impacted by drought, for any (a) actions taken by state agencies, (b) actions taken by a local agency where the Department of Water Resources concurs that local action is required, and (c) permits necessary to carry out actions under (a) or (b), Public Resources Code, Division 13 (commencing with section 21000) and regulations adopted pursuant to that Division are hereby suspended to the extent necessary to address the impacts of the drought. The entities implementing these directives shall maintain on their websites a list of all activities or approvals for which these provisions are suspended.

14. To increase resilience of state water supplies during prolonged drought conditions, the Department of Water Resources shall prepare for the potential creation and implementation of a multi-year transfer program pilot project for the purpose of acquiring water from willing partners and storing and conveying water to areas of need.
15. By April 15, 2022, state agencies shall submit to the Department of Finance for my consideration proposals to mitigate the worsening effects of severe drought, including emergency assistance to communities and households and others facing water shortages as a result of the drought, facilitation of groundwater recharge and wastewater recycling, improvements in water use efficiency, protection of fish and wildlife, mitigation of drought-related economic or water-supply disruption, and other potential investments to support short- and long-term drought response.

**IT IS FURTHER ORDERED** that as soon as hereafter possible, this Order be filed in the Office of the Secretary of State and that widespread publicity and notice be given of this Order.

This Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

**IN WITNESS WHEREOF** I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 28th day of March 2022.



GAVIN NEWSOM  
Governor of California

**ATTEST:**

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SHIRLEY N. WEBER, PH.D.  
Secretary of State



# Drought Well Permitting Requirements

## *Drought Executive Order N-7-22*

On March 28, 2022 Governor Newsom issued [Drought Executive Order N-7-22](#) that included new well permitting requirements for local agencies to prepare for and lessen the effects of drought conditions (Action 9).

### *Well Permitting Authority and Groundwater Management Oversight*

In California, regulatory authority over well construction, alteration, and destruction activities resides with local agencies (cities, counties, or water agencies), who have the authority to adopt a local well ordinance. Well permits are administered and enforced by local agencies (or local enforcing agencies, [LEAs](#)), often the Department of Environmental Health within a given county.

With the enactment of the Sustainable Groundwater Management Act ([SGMA](#)) in 2014, local public agencies – called [groundwater sustainability agencies](#) or GSAs – formed to provide specific oversight and management of groundwater resources, and to achieve sustainable groundwater management within 20 years through the development and implementation of groundwater sustainability plans (GSPs) and associated projects and management actions. The local GSAs are required to include in their GSPs a discussion of how they will coordinate these efforts with local land use authorities, including local well permitting agencies.

### *Drought Well Permitting Requirements*

Local well ordinances authorize the conditions for agencies to issue a well permit or permit modification. Given the record drought conditions the state has faced over the last three years, Drought Executive Order N-7-22 requires additional actions be taken by local well permitting agencies prior to issuing a well permit.

#### **Excerpt of Action 9 from Drought Executive Order N-7-22:**

*9. To protect health, safety, and the environment during this drought emergency, a county, city, or other public agency shall not:*

*a. Approve a permit for a new groundwater well or for alteration of an existing well in a basin subject to the Sustainable Groundwater Management Act and classified as medium- or high-priority without first obtaining written verification from a Groundwater Sustainability Agency managing the basin or area of the basin where the well is proposed to be located that groundwater extraction by the proposed well would not be inconsistent with any sustainable groundwater management program established in any applicable Groundwater Sustainability Plan adopted by that Groundwater Sustainability Agency and would not decrease the likelihood of achieving a sustainability goal for the basin covered by such a plan; or*

*b. Issue a permit for a new groundwater well or for alteration of an existing well without first determining that extraction of groundwater from the proposed well is (1) not likely to interfere with the production and functioning of existing nearby wells, and (2) not likely to cause subsidence that would adversely impact or damage nearby infrastructure.*

*This paragraph shall not apply to permits for wells that will provide less than two acre-feet per year of groundwater for individual domestic users, or that will exclusively provide groundwater to public water supply systems as defined in section 116275 of the Health and Safety Code.*

Local well permitting agencies retain existing well permitting authorities, including reviewing and administering well permits. Under the Executive Order Action 9, local well permitting agencies must take the following steps during the well permitting process for wells intending to extract groundwater:

1. Consultation with the GSA – If the proposed well would be in a high or medium priority groundwater basin, the well permitting agency must consult with the GSA and receive written verification from the GSA that the proposed well location is generally consistent (not inconsistent) with the applicable GSP and will not decrease the likelihood of achieving the sustainability goals that the GSAs have developed under SGMA.
2. Permit Evaluation – For every well permit application, the local well permitting agency must determine before issuing a well permit that extraction of groundwater from the proposed well is not likely to interfere with the production and functioning of existing nearby wells and is not likely to cause subsidence that would adversely impact or damage nearby infrastructure.

These requirements do not apply to wells that pump less than 2 acre-feet per year (de minimus users) and wells that exclusively provide groundwater to public water supply systems as defined in [section 116275](#) of the Health and Safety Code.

### *State Resources Available to Local Agencies*

The California Department of Water Resources (DWR) provides technical and other support services to local agencies to support decision-making. The following resources are available to help local agencies navigate the well permitting requirements in this Drought Executive Order:

- To find the **groundwater basins subject to SGMA** and classified as medium or high priority: [Basin Prioritization Dashboard](#)
- To find the **Groundwater Sustainability Agency** managing the applicable basin or area of the basin: [GSA Map Viewer](#)
- To find the **Groundwater Sustainability Plan** adopted by the local Groundwater Sustainability Agency: [GSP Map Viewer](#)
- To view **existing nearby wells** (domestic, irrigation, public supply and reported dry wells): [California's Groundwater Live – Well Infrastructure](#)
- To view **groundwater levels and trends**: [California's Groundwater Live – Groundwater Levels](#)
- To view **subsidence data** and nearby infrastructure: [California's Groundwater Live – Subsidence Data](#)

For more information or questions, please contact DWR's Sustainable Groundwater Management Office at: [SGMPS@water.ca.gov](mailto:SGMPS@water.ca.gov).

*For more information about the State's Drought Response and Assistance, please visit [drought.ca.gov](http://drought.ca.gov).*



## TECHNICAL MEMORANDUM

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### San Antonio Creek Valley Groundwater Basin Quarterly Groundwater Level Monitoring – First Quarter 2022

**To:** Ms. Stephanie Bertoux, Executive Director, San Antonio Basin Groundwater Sustainability Agency

**From:** Lee Knudtson, GSI Water Solutions, Inc.  
Michael McAlpin, GSI Water Solutions, Inc.  
Jeff Barry, GSI Water Solutions, Inc.

**Attachments:** Tables:  
First Quarter 2022 Groundwater Level Measurements – Depth to Water  
First Quarter 2022 Groundwater Level Measurements – Groundwater Elevation

Figures:  
Figure 1. Wells Located in The Western Portion of the San Antonio Creek Valley Groundwater Basin  
Figure 2. Wells Located in The Central Portion of the San Antonio Creek Valley Groundwater Basin  
Figure 3. Wells Located in The Eastern Portion of the San Antonio Creek Valley Groundwater Basin

**Date:** March 24, 2022

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### Introduction

On behalf of the San Antonio Basin Groundwater Sustainability Agency (SABGSA), GSI Water Solutions, Inc. (GSI) completed the first quarter 2022 (1Q2022) San Antonio Creek Valley Groundwater Basin (Basin) groundwater level monitoring event on March 10<sup>th</sup> and 11<sup>th</sup>, 2022. Prior to each quarterly monitoring event, GSI contacts well owners to coordinate access to the wells and request that well owners shut off the well for at least 8 hours before the monitoring event so that a static measurement can be obtained. Notifications were delivered to well owners on February 25, 2022 by GSI via email. The attached table provides the status of each well and the maps show the well locations. The following paragraphs and attached tables summarize the results for this quarter.

### Water Level Monitoring Data

The attached tables summarize the results of the 1Q2022 Basin water level monitoring event for the wells in the Basin's groundwater level monitoring network. The tables include the status of current well access agreements, depth to water measurements, and calculated groundwater elevations for all wells that were able to be accessed during the monitoring event. Wells identified as Representative Monitoring Sites (RMS) in the Basin's GSP are identified in Table 2 and denoted with the respective RMS's sustainable management criteria (i.e. minimum threshold and measurable objective). The following list summarizes some of the noteworthy events or observations that took place during the 1Q2022 monitoring event:

- A measurement was collected from all wells with active well access agreements for the second consecutive quarter.
- The sounder was temporarily caught in well 2M1. This occurs regularly. Although GSI was able to free the sounder, it is advised that the SABGSA install a sounding tube to avoid costly remediation efforts if the sounder becomes stuck in the well during a future monitoring event. GSI cannot be responsible for circumstances requiring a pump to be pulled and reset if a sounder gets stuck (including contractor, equipment, planning, and field time costs), unless GSI is at fault (e.g., dropping a sounder down a known problematic well). Prior to the second quarter of 2022 monitoring event, GSI would like to discuss future monitoring of 2M1 with the SABGSA. Currently, well 2M1 is a representative monitoring site in the Basin's groundwater level monitoring network.
- There was a substantial amount of rusty material in well 2N1 and the Mesa Vineyard well.
- A different access port was used to measure the groundwater level in the Mesa Vineyard well because a descaling electrode was installed in the historically used access port. Mesa Vineyard staff assisted in opening the alternate access port. The depth to water measurement collected using the alternate access port was corrected by calculating the difference in elevation from the well's reference point elevation.

## Recommendations

- Install a sounding tube in well 2M1 (see second bullet in Water Level Monitoring Data section).
- GSI plans to move the existing data recording pressure transducer from well SACC 5 to well SACC 1 (SACC 1 is an RMS in the Basin's groundwater level monitoring network).
- GSI plans to move the existing data recording pressure transducer from well SACR 5 to well SACR 1 (SACR 1 is an RMS in the Basin's groundwater level monitoring network).
- Continue public outreach to Basin stakeholders to discuss participation in the groundwater level monitoring network.

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## Tables



State Well Number	Site Name	Well Type	Water Level Measurement Frequency/Type	Area	Total Depth (feet bgs)	Aquifer of Completion	DTW on 2/25/2020	DTW on 6/16/2020	DTW on	DTW on	DTW on	DTW on	DTW on	DTW on	DTW on	DTW on	Notes on 3/10/2022 and 3/11/2022
									9/16/2020 and 9/17/2020	12/1/2020 and 12/2/2020	2/25/2021 and 2/26/2021	6/22/2021 and 6/23/2021	9/14/2021 and 9/15/2021	12/8/2021 and 12/9/2021	3/10/2022 and 3/11/2022		
009N034W34N002S	SAHC	Monitoring	Continuous/Transducer	West San Antonio Basin	90	Careaga Sand	73.14	73.13	73.19	73.25	73.25	73.40	73.55	73.68	73.79		
008N034W21A002S	SASA	Monitoring	Continuous/Transducer	West San Antonio Basin	65	Careaga Sand	42.96	43.35	44.08	44.63	44.33	44.75	45.37	45.69	45.85		
008N034W14L002S	SAGR	Monitoring	Continuous/Transducer	West San Antonio Basin	90	Paso Robles Formation	61.12	61.41	62.69	61.75	60.91	62.06	63.68	63.25	62.89	Irrigation occurring nearby	
008N034W23H001S	SAHG	Monitoring	Continuous/Transducer	West San Antonio Basin	75	Paso Robles Formation	42.46	41.80	41.20	41.21	42.35	43.41	42.85	42.72	43.12		
008N033W22G001S	SALS	Monitoring	Continuous/Transducer	Central San Antonio Basin	70	Paso Robles Formation	36.28	36.22	37.10	37.83	38.15	39.04	38.73	39.73	39.50		
008N032W29L004S	SALA	Monitoring	Quarterly/Discrete	Central San Antonio Basin	90	Paso Robles Formation	45.35	43.83	45.33	46.42	46.78	47.54	48.13	48.79	48.95		
008N033W19K002S	SACR 1	Monitoring	Quarterly/Discrete	West San Antonio Basin	690	Careaga Sand	42.04	46.11	48.20	43.42	42.29	47.81	49.61	46.27	46.25		
008N033W19K002S	SACR 2	Monitoring	Quarterly/Discrete	West San Antonio Basin	540	Paso Robles Formation	73.39	70.23	71.76	76.17	77.28	81.41	76.58	75.51	78.76		
008N033W19K004S	SACR 3	Monitoring	Quarterly/Discrete	West San Antonio Basin	350	Paso Robles Formation	107.16	115.11	111.44	102.42	95.73	119.19	113.90	99.00	102.25		
008N033W19K005S	SACR 4	Monitoring	Quarterly/Discrete	West San Antonio Basin	220	Paso Robles Formation	93.06	94.04	95.28	94.67	94.61	96.07	95.93	94.72	94.07		
008N033W19K002S	SACR 5	Monitoring	Continuous/Transducer	West San Antonio Basin	110	Paso Robles Formation	97.59	97.78	99.70	99.83	99.30	99.75	100.49	100.30	99.68		
008N032W19M001S	SACC 1	Monitoring	Quarterly/Discrete	Central San Antonio Basin	980	Paso Robles Formation	214.46	216.41	216.55	221.92	212.43	227.45	237.35	229.72	235.35		
008N032W19M002S	SACC 2	Monitoring	Quarterly/Discrete	Central San Antonio Basin	720	Paso Robles Formation	205.32	208.95	213.00	211.83	206.63	217.18	219.00	215.05	217.05		
008N032W19M003S	SACC 3	Monitoring	Quarterly/Discrete	Central San Antonio Basin	530	Paso Robles Formation	204.18	213.22	214.83	217.00	206.74	220.53	224.73	220.42	219.40		
008N032W19M004S	SACC 4	Monitoring	Quarterly/Discrete	Central San Antonio Basin	325	Paso Robles Formation	161.92	164.47	168.09	167.67	167.45	171.01	173.62	172.79	173.70		
008N032W19M001S	SACC 5	Monitoring	Continuous/Transducer	Central San Antonio Basin	120	Paso Robles Formation	107.22	107.08	107.17	107.08	107.18	107.25	107.20	107.13	107.10		
008N034W02M001S	2M1	Irrigation	Quarterly/Discrete	West San Antonio Basin	750	Paso Robles Formation	--	150.10	152.38	151.00	150.10	152.50	154.13	152.60	154.55		
--	White Hawk 1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	560	Careaga Sand	--	119.83	120.85	120.33	118.50	123.12	124.03	124.03	112.73		
008N32W17N001S	White Hawk 4	Irrigation	Quarterly/Discrete	Central San Antonio Basin	820	Careaga Sand	93.20	94.91	95.27	95.58	92.70	98.80	99.24	98.85	97.90		
--	Mesa Vineyard	Irrigation	Quarterly/Discrete	Central San Antonio Basin	--	Careaga Sand	257.70	216.42	216.75	215.42	214.30	216.50	217.10	218.08	218.80	Rusty material in well	
008N033W02N001S	2N1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	980	Careaga Sand	--	--	--	221.75	209.20	226.50	--	224.65	227.10	Rusty material in well	
008N033W02R001S	2R1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	370	Careaga Sand	--	119.50	118.60	118.92	120.89	192.82	185.22	119.42	118.75	Nearby pump on	
008N033W10	4-Deer Field	Irrigation	Quarterly/Discrete	Central San Antonio Basin	490	Careaga Sand	24.44	23.73	24.88	24.00	24.20	25.15	27.82	27.67	27.09	Pump on	
008N033W03L001S	4-Deer Highway	Irrigation	Quarterly/Discrete	Central San Antonio Basin	349	Careaga Sand	93.47	92.05	93.60	92.17	93.85	97.71	94.80	95.05	96.10		
--	Schaff Well	Monitoring	Quarterly/Discrete	Central San Antonio Basin	669	Careaga Sand	213.62	213.95	214.59	214.25	215.12	215.82	216.28	216.65	216.76	Irrigation occurring nearby	
008N034W14L001S	14L1	Monitoring	Quarterly/Discrete	West San Antonio Basin	593	Careaga Sand	63.68	66.80	90.80	66.42	66.18	70.93	70.82	68.99	68.12		
009N034W34P001S	34P1	Monitoring	Quarterly/Discrete	West San Antonio Basin	223	Careaga Sand	--	74.92	70.70	70.75	69.50	68.86	68.60	68.55	72.66		
008N034W17Q001S	17Q1	Monitoring	Quarterly/Discrete	West San Antonio Basin	48	Careaga Sand	--	--	--	12.75	13.40	13.85	--	14.78	14.80		
008N034W21A001S	21A1	Monitoring	Quarterly/Discrete	West San Antonio Basin	271	Careaga Sand	--	--	34.85	35.58	35.25	35.64	36.22	36.79	36.93		
008N034W17K002S	17K2	Monitoring	Quarterly/Discrete	West San Antonio Basin	60	Careaga Sand	--	--	--	--	--	--	--	6.98	6.98		
008N034W17E001S	17E1	Monitoring	Quarterly/Discrete	West San Antonio Basin	89	Careaga Sand	--	--	21.28	21.42	20.98	21.40	21.76	22.03	22.20		
008N034W16C002S	16C2	Monitoring	Continuous/Transducer	West San Antonio Basin	169	Careaga Sand	--	--	74.60	79.58	75.47	75.36	76.15	86.75	87.76	Nearby pump on	
008N034W16C004S	16C4	Monitoring	Continuous/Transducer	West San Antonio Basin	560	Careaga Sand	--	--	66.45	69.08	66.81	67.24	67.80	73.94	74.66	Nearby pump on	
008N034W17H001S	17H1	Monitoring	Quarterly/Discrete	West San Antonio Basin	61	Careaga Sand	--	--	15.54	16.29	15.64	15.68	16.54	17.20	16.97		
008N034W16F001S	16F1	Monitoring	Quarterly/Discrete	West San Antonio Basin	58	Careaga Sand	--	--	29.35	35.25	31.02	30.33	30.92	38.50	40.34		
008N034W16G003S	16G3	Monitoring	Quarterly/Discrete	West San Antonio Basin	56	Careaga Sand	--	--	47.78	48.08	48.66	48.84	49.00	49.31	49.86		
008N033W13C001S	13C1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	1,070	Careaga Sand	--	--	187.60	191.50	--	195.00	--	188.10	188.90		
008N033W07	Stephen's Well	Irrigation	Quarterly/Discrete	West San Antonio Basin	590	Careaga Sand	356.00	335.22	559.33	585.90	--	--	335.26	341.00	343.30		
008N033W13Q001S	13Q1	Irrigation	--	Central San Antonio Basin	295	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N032W30D001S	30D1	Monitoring	--	Central San Antonio Basin	895	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N032W25D001S	25D1	Irrigation	--	East San Antonio Basin	700	Careaga Sand	--	--	--	--	--	--	--	--	--		
008N033W22K003S	22K3	Irrigation	--	Central San Antonio Basin	250	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N031W22J001S	22J1	Unknown	--	East San Antonio Basin	--	Careaga Sand	--	--	--	--	--	--	--	--	--		
008N031W22N001S	22N1	Unknown	--	East San Antonio Basin	175	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N031W22M001S	22M1	Unknown	--	East San Antonio Basin	--	Careaga Sand	--	--	--	--	--	--	--	--	--		
008N034W24E001S	24 E1	Monitoring	--	West San Antonio Basin	580	Careaga Sand	--	--	--	--	--	--	--	--	--		
008N033W20Q002S	20Q2	Irrigation	--	West San Antonio Basin	--	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
009N034W27L001S	27L1	Unknown	--	West San Antonio Basin	405	Careaga Sand	--	--	--	--	--	--	--	--	--	Well Destroyed March 2021	
--	VERNAS 1	Unknown	--	Central San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--		
--	VERNAS 2	Unknown	--	Central San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--		
--	HWY 101 CATTLE	Unknown	--	East San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--		
008N032W27P003S	GUZMAN 2	Unknown	--	East San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--		
008N032W30E005S	30E5	Unknown	--	Central San Antonio Basin	1,001	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N033W25B005S	25B5	Unknown	--	Central San Antonio Basin	100	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N032W28P004S	28P4	Unknown	--	East San Antonio Basin	524	Paso Robles Formation	--	--	--	--	--	--	--	--	--		
008N034W36R	Careaga Lease	Unknown	--	West San Antonio Basin	284	Careaga Sand	--	--	--	--	--	--	--	--	--		

Notes:


Green highlighted cells indicate well access agreement has been acquired  
Yellow highlighted cells indicate well access agreement is pending  
Red highlighted cells indicate well access denied  
bgs = below ground surface  
DTW = Depth to Water (feet below reference point elevation)  
-- = unknown or not applicable

State Well Number	Site Name	Well Type	Water Level Measurement Frequency/Type	Area	Total Depth (feet NAVD88)	Aquifer of Completion	MT Elevation (feet NAVD88)	MO Elevation (feet NAVD88)	GWE on 2/25/2021	GWE on 6/16/2021	GWE on 9/16/2020 and 9/17/2020	GWE on 12/1/2020 and 12/2/2020	GWE on 2/25/2021 and 2/26/2021	GWE on 6/22/2021 and 6/23/2021	GWE on 9/14/2021 and 9/15/2021	GWE on 12/8/2021 and 12/9/2021	GWE on 3/10/2022 and 3/11/2022	Notes on 3/10/2022 and 3/11/2022
009N034W34N002S	SAHC	Monitoring	Continuous/Transducer	West San Antonio Basin	363	Careaga Sand	358	--	382.20	382.21	382.15	382.09	382.09	381.94	381.79	381.66	381.55	
008N034W21A002S	SASA	Monitoring	Continuous/Transducer	West San Antonio Basin	245	Careaga Sand	--	--	268.85	268.46	267.73	267.19	267.48	267.06	266.44	266.12	265.96	
008N034W14L002S	SAGR	Monitoring	Continuous/Transducer	West San Antonio Basin	240	Paso Robles Formation	--	--	268.43	268.14	266.86	267.80	268.64	267.49	265.87	266.30	266.66	Irrigation occurring nearby
008N034W23H001S	SAHG	Monitoring	Continuous/Transducer	West San Antonio Basin	246	Paso Robles Formation	--	--	281.15	281.81	282.41	282.40	281.26	280.20	280.76	280.89	280.49	
008N033W22G001S	SALS	Monitoring	Continuous/Transducer	Central San Antonio Basin	390	Paso Robles Formation	397	--	422.98	423.04	422.16	421.43	421.11	420.22	420.53	419.53	419.76	
008N032W29L004S	SALA	Monitoring	Quarterly/Discrete	Central San Antonio Basin	506	Paso Robles Formation	--	--	551.02	552.54	551.04	549.95	549.59	548.83	548.24	547.58	547.42	
008N033W19K002S	SACR 1	Monitoring	Quarterly/Discrete	West San Antonio Basin	-327	Careaga Sand	291	--	319.78	315.71	313.62	318.40	319.53	314.01	312.21	315.55	315.57	
008N033W19K002S	SACR 2	Monitoring	Quarterly/Discrete	West San Antonio Basin	-177	Paso Robles Formation	--	--	288.43	291.59	290.06	285.65	284.54	280.41	285.24	286.31	283.06	
008N033W19M004S	SACR 3	Monitoring	Quarterly/Discrete	West San Antonio Basin	13	Paso Robles Formation	233	--	254.65	246.70	250.37	259.39	266.08	242.62	247.91	262.81	259.56	
008N033W19K005S	SACR 4	Monitoring	Quarterly/Discrete	West San Antonio Basin	143	Paso Robles Formation	--	--	268.76	267.78	266.54	267.15	267.21	265.75	265.89	267.10	267.75	
008N033W19K002S	SACR 5	Monitoring	Continuous/Transducer	West San Antonio Basin	252	Paso Robles Formation	--	--	267.65	267.46	265.54	265.41	265.94	265.49	264.75	264.94	265.56	
008N032W19M001S	SACC 1	Monitoring	Quarterly/Discrete	Central San Antonio Basin	-394	Paso Robles Formation	348	--	370.58	368.63	368.49	363.12	372.61	357.59	<b>347.69<sup>1</sup></b>	355.32	349.69	
008N032W19M002S	SACC 2	Monitoring	Quarterly/Discrete	Central San Antonio Basin	-134	Paso Robles Formation	--	--	379.69	376.06	372.01	373.18	378.38	367.83	366.01	369.96	367.96	
008N032W19M003S	SACC 3	Monitoring	Quarterly/Discrete	Central San Antonio Basin	56	Paso Robles Formation	--	--	380.87	371.83	370.22	368.05	378.31	364.52	360.32	364.63	365.65	
008N032W19M004S	SACC 4	Monitoring	Quarterly/Discrete	Central San Antonio Basin	261	Paso Robles Formation	--	--	423.07	420.52	416.90	417.32	417.54	413.98	411.37	412.20	411.29	
008N032W19M001S	SACC 5	Monitoring	Continuous/Transducer	Central San Antonio Basin	466	Paso Robles Formation	--	--	478.86	479.00	478.91	479.00	478.90	478.83	478.88	478.95	478.98	
008N034W02M001S	2M1	Irrigation	Quarterly/Discrete	West San Antonio Basin	-331	Paso Robles Formation	244	286	--	269.91	267.63	269.01	269.91	267.51	265.88	267.41	265.46	
--	White Hawk 1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	241	Careaga Sand	--	--	--	682.53	681.51	682.03	683.86	679.24	678.33	678.33	689.63	
008N32W17N001S	White Hawk 4	Irrigation	Quarterly/Discrete	Central San Antonio Basin	-39	Careaga Sand	--	--	688.47	686.76	686.40	686.09	688.97	682.87	682.43	682.82	683.77	
--	Mesa Vineyard	Irrigation	Quarterly/Discrete	Central San Antonio Basin	--	Careaga Sand	--	--	549.09	590.37	590.04	591.37	592.49	590.29	589.69	588.71	587.99	Rusty material in well
008N033W02N001S	2N1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	-153	Careaga Sand	--	--	--	--	--	605.50	618.05	600.75	--	602.60	600.15	Rusty material in well
008N033W02R001S	2R1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	406	Careaga Sand	--	--	--	657.90	658.80	658.48	656.51	584.58	592.18	657.98	658.65	Nearby pump on
008N033W10	4-Deer Field	Irrigation	Quarterly/Discrete	Central San Antonio Basin	149	Careaga Sand	--	--	614.92	615.63	614.48	615.36	615.16	614.21	611.54	611.69	612.27	Pump on
008N033W03L001S	4-Deer Highway	Irrigation	Quarterly/Discrete	Central San Antonio Basin	340	Careaga Sand	--	--	596.21	597.63	596.08	597.51	595.83	591.97	594.88	594.63	593.58	
--	Schaff Well	Monitoring	Quarterly/Discrete	Central San Antonio Basin	-71	Careaga Sand	--	--	385.88	385.55	384.91	385.25	384.38	383.68	383.22	382.85	382.74	Irrigation occurring nearby
008N034W14L001S	14L1	Monitoring	Quarterly/Discrete	West San Antonio Basin	-264	Careaga Sand	--	--	266.74	263.62	239.62	264.00	264.24	259.49	259.60	261.43	262.30	
009N034W34P001S	34P1	Monitoring	Quarterly/Discrete	West San Antonio Basin	230	Careaga Sand	361	386	--	380.04	384.26	384.21	385.46	386.10	386.36	386.41	382.30	
008N034W17Q001S	17Q1	Monitoring	Quarterly/Discrete	West San Antonio Basin	222	Careaga Sand	--	--	--	--	--	262.25	261.60	261.15	--	260.22	260.20	
008N034W21A001S	21A1	Monitoring	Quarterly/Discrete	West San Antonio Basin	30	Careaga Sand	--	--	--	--	268.92	268.19	268.52	268.13	267.55	266.98	266.84	
008N034W17K002S	17K2	Monitoring	Quarterly/Discrete	West San Antonio Basin	200	Careaga Sand	--	--	--	--	--	--	--	--	--	257.32	257.32	
008N034W17E001S	17E1	Monitoring	Quarterly/Discrete	West San Antonio Basin	154	Careaga Sand	--	--	--	--	225.82	225.68	226.12	225.70	225.34	225.07	224.90	
008N034W16C002S	16C2	Monitoring	Continuous/Transducer	West San Antonio Basin	160	Careaga Sand	--	--	--	--	255.56	250.58	254.69	254.80	254.01	243.41	242.40	Nearby pump on
008N034W16C004S	16C4	Monitoring	Continuous/Transducer	West San Antonio Basin	-231	Careaga Sand	--	--	--	--	263.54	260.91	263.18	262.75	262.19	256.05	255.33	Nearby pump on
008N034W17H001S	17H1	Monitoring	Quarterly/Discrete	West San Antonio Basin	199	Careaga Sand	--	--	--	--	249.06	248.31	248.96	248.92	248.06	247.40	247.63	
008N034W16F001S	16F1	Monitoring	Quarterly/Discrete	West San Antonio Basin	219	Careaga Sand	--	--	--	--	251.12	245.22	249.45	250.14	249.55	241.97	240.13	
008N034W16G003S	16G3	Monitoring	Quarterly/Discrete	West San Antonio Basin	239	Careaga Sand	226	244	--	--	249.70	249.40	248.82	248.64	248.48	248.17	247.62	
008N033W13C001S	13C1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	-293	Careaga Sand	565	597	--	--	590.15	586.25	--	582.75	--	589.65	588.85	
008N033W07	Stephen's Well	Irrigation	Quarterly/Discrete	West San Antonio Basin	83	Careaga Sand	--	--	318.01	338.79	313.34	339.91	--	--	338.75	333.01	330.71	
008N033W13Q001S	13Q1	Irrigation	--	Central San Antonio Basin	367	Paso Robles Formation	--	--	--	--	--	--	--	--	--	--	--	
008N032W30D001S	30D1	Monitoring	--	Central San Antonio Basin	-355	Paso Robles Formation	345	388	--	--	--	--	--	--	--	--	--	
008N032W25D001S	25D1	Irrigation	--	East San Antonio Basin	65	Careaga Sand	634	661	--	--	--	--	--	--	--	--	--	
008N033W22K003S	22K3	Irrigation	--	Central San Antonio Basin	203	Paso Robles Formation	344	370	--	--	--	--	--	--	--	--	--	
008N031W22J001S	22J1	Unknown	--	East San Antonio Basin	--	Careaga Sand	--	--	--	--	--	--	--	--	--	--	--	
008N031W22N001S	22N1	Unknown	--	East San Antonio Basin	1,026	Paso Robles Formation	--	--	--	--	--	--	--	--	--	--	--	
008N031W22M001S	22M1	Unknown	--	East San Antonio Basin	--	Careaga Sand	--	--	--	--	--	--	--	--	--	--	--	
008N034W24E001S	24 E1	Monitoring	--	West San Antonio Basin	-230	Careaga Sand	220	257	--	--	--	--	--	--	--	--	--	
008N033W20Q002S	20Q2	Irrigation	--	West San Antonio Basin	--	Paso Robles Formation	298	335	--	--	--	--	--	--	--	--	--	
009N034W27L001S	27L1	Unknown	--	West San Antonio Basin	110	Careaga Sand	--	--	--	--	--	--	--	--	--	--	--	Well Destroyed March 2021
--	VERNAS 1	Unknown	--	Central San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--	--	--	
--	VERNAS 2	Unknown	--	Central San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--	--	--	
--	HWY 101 CATTLE	Unknown	--	East San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--	--	--	
008N032W27P003S	GUZMAN 2	Unknown	--	East San Antonio Basin	--	--	--	--	--	--	--	--	--	--	--	--	--	
008N032W30E005S	30E5	Unknown	--	Central San Antonio Basin	-458	Paso Robles Formation	--	--	--	--	--	--	--	--	--	--	--	
008N033W25B005S	25B5	Unknown	--	Central San Antonio Basin	426	Paso Robles Formation	--	--	--	--	--	--	--	--	--	--	--	
008N032W28P004S	28P4	Unknown	--	East San Antonio Basin	99	Paso Robles Formation	--	--	--	--	--	--	--	--	--	--	--	
008N034W36R	Careaga Lease	Unknown	--	West San Antonio Basin	344	Careaga Sand	--	--	--	--	--	--	--	--	--	--	--	

Notes:

Bold

Green highlighted cells indicate well access agreement has been acquired

Yellow highlighted cells indicate well access agreement is pending

Red highlighted cells indicate well access denied

Minimum Threshold (MT) exceeded

MO = Measurable Objective

NAVD88 = North American Vertical Datum of 1988

GWE = Groundwater Elevation (feet NAVD88)

-- = unknown or not applicable

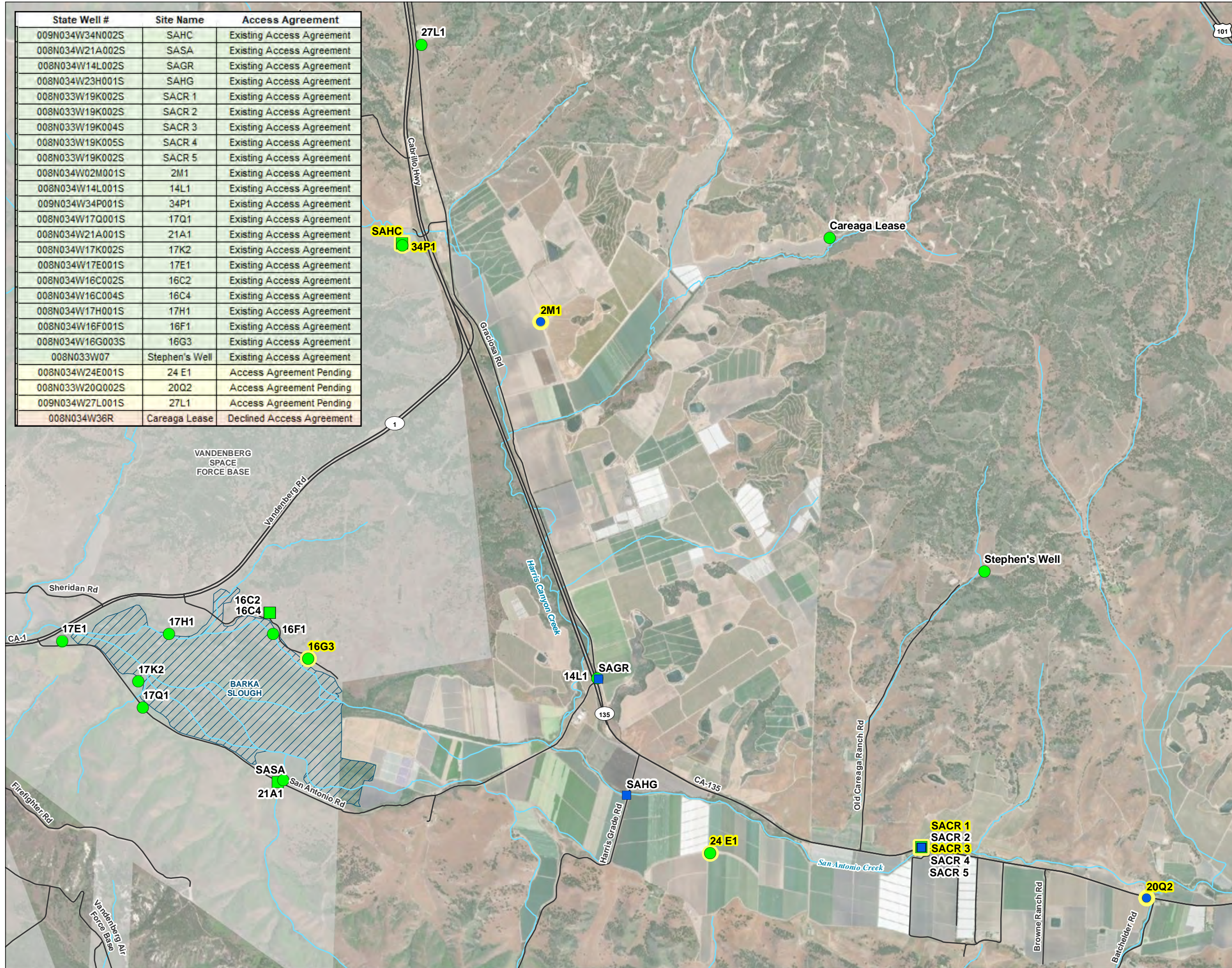
<sup>1</sup> Based on the October 2021 measured groundwater elevation from SACC 1 (362.07 feet NAVD88), the September 2021 measurement may have been locally influenced (e.g., nearby pumping).

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**FIGURE 1**  
**Wells Located in**  
**the Western Portion of**  
**the San Antonio Creek Valley**  
**Groundwater Basin**  
 San Antonio Creek Valley  
 Groundwater Basin  
 First Quarter 2022 Report

State Well #	Site Name	Access Agreement
009N034W34N002S	SAHC	Existing Access Agreement
008N034W21A002S	SASA	Existing Access Agreement
008N034W14L002S	SAGR	Existing Access Agreement
008N034W23H001S	SAHG	Existing Access Agreement
008N033W19K002S	SACR 1	Existing Access Agreement
008N033W19K002S	SACR 2	Existing Access Agreement
008N033W19K004S	SACR 3	Existing Access Agreement
008N033W19K005S	SACR 4	Existing Access Agreement
008N033W19K002S	SACR 5	Existing Access Agreement
008N034W02M001S	2M1	Existing Access Agreement
008N034W14L001S	14L1	Existing Access Agreement
009N034W34P001S	34P1	Existing Access Agreement
008N034W17Q001S	17Q1	Existing Access Agreement
008N034W21A001S	21A1	Existing Access Agreement
008N034W17K002S	17K2	Existing Access Agreement
008N034W17E001S	17E1	Existing Access Agreement
008N034W16C002S	16C2	Existing Access Agreement
008N034W16C004S	16C4	Existing Access Agreement
008N034W17H001S	17H1	Existing Access Agreement
008N034W16F001S	16F1	Existing Access Agreement
008N034W16G003S	16G3	Existing Access Agreement
008N033W07	Stephen's Well	Existing Access Agreement
008N034W24E001S	24 E1	Access Agreement Pending
008N033W20Q002S	20Q2	Access Agreement Pending
009N034W27L001S	27L1	Access Agreement Pending
008N034W36R	Careaga Lease	Declined Access Agreement



**LEGEND**

**Sample Method**

- Transducer Well
- Manually Measured Well

**Aquifer of Completion**

- Careaga Sand Well
- Paso Robles Formation Well

**Representative Monitoring Site**

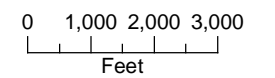
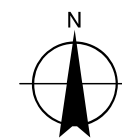
- Representative Monitoring Site

**All Other Features**

- ▨ Barka Slough
- Vandenberg Space Force Base
- Major Road
- ~ Watercourse

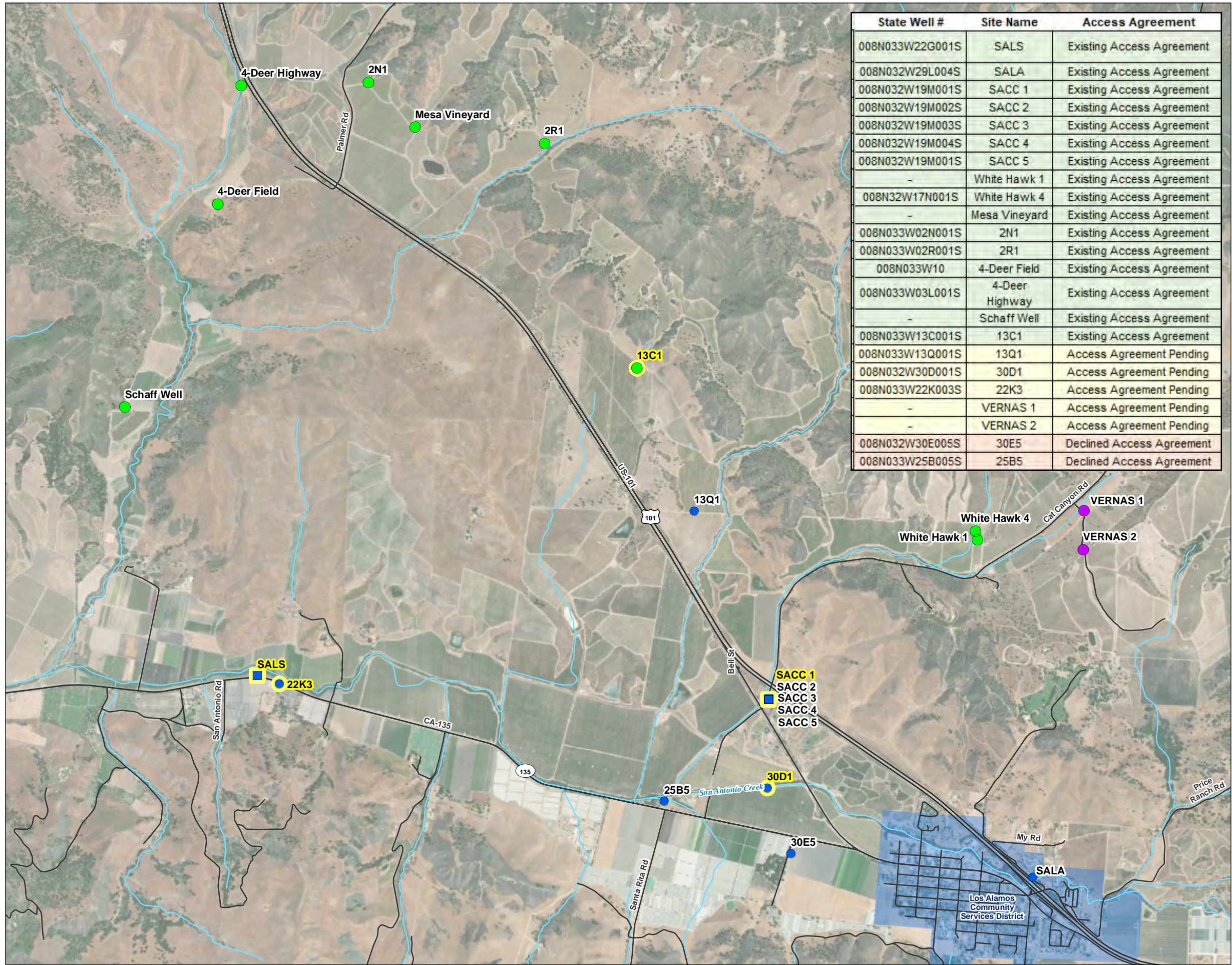
**NOTES:**

1. SACR 1 is screened in the Careaga Sand.
2. SACR 1, SACR 2, SACR 3, and SACR 4 depth to water measurements are collected manually on a quarterly basis.



Date: March 23, 2022  
 Data Sources:





State Well #	Site Name	Access Agreement
008N033W22G001S	SALS	Existing Access Agreement
008N032W29L004S	SALA	Existing Access Agreement
008N032W19M001S	SACC 1	Existing Access Agreement
008N032W19M002S	SACC 2	Existing Access Agreement
008N032W19M003S	SACC 3	Existing Access Agreement
008N032W19M004S	SACC 4	Existing Access Agreement
008N032W19M001S	SACC 5	Existing Access Agreement
-	White Hawk 1	Existing Access Agreement
008N32W17N001S	White Hawk 4	Existing Access Agreement
-	Mesa Vineyard	Existing Access Agreement
008N033W02N001S	2N1	Existing Access Agreement
008N033W02R001S	2R1	Existing Access Agreement
008N033W10	4-Deer Field	Existing Access Agreement
008N033W03L001S	4-Deer Highway	Existing Access Agreement
-	Schaff Well	Existing Access Agreement
008N033W13C001S	13C1	Existing Access Agreement
008N033W13Q001S	13Q1	Access Agreement Pending
008N032W30D001S	30D1	Access Agreement Pending
008N033W22K003S	22K3	Access Agreement Pending
-	VERNAS 1	Access Agreement Pending
-	VERNAS 2	Access Agreement Pending
008N032W30E005S	30E5	Declined Access Agreement
008N033W25B005S	25B5	Declined Access Agreement

**FIGURE 2**  
**Wells Located in**  
**the Central Portion of**  
**the San Antonio Creek Valley**  
**Groundwater Basin**  
 San Antonio Creek Valley  
 Groundwater Basin  
 First Quarter 2022 Report

**LEGEND**

**Sample Method**

- Transducer Well
- Manually Measured Well

**Aquifer of Completion**

- Careaga Sand Well
- Paso Robles Formation Well
- Unassigned Aquifer Well

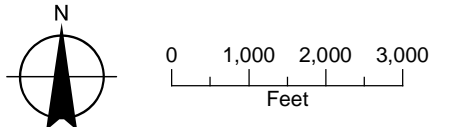
**Representative Monitoring Site**

- Representative Monitoring Site

**All Other Features**

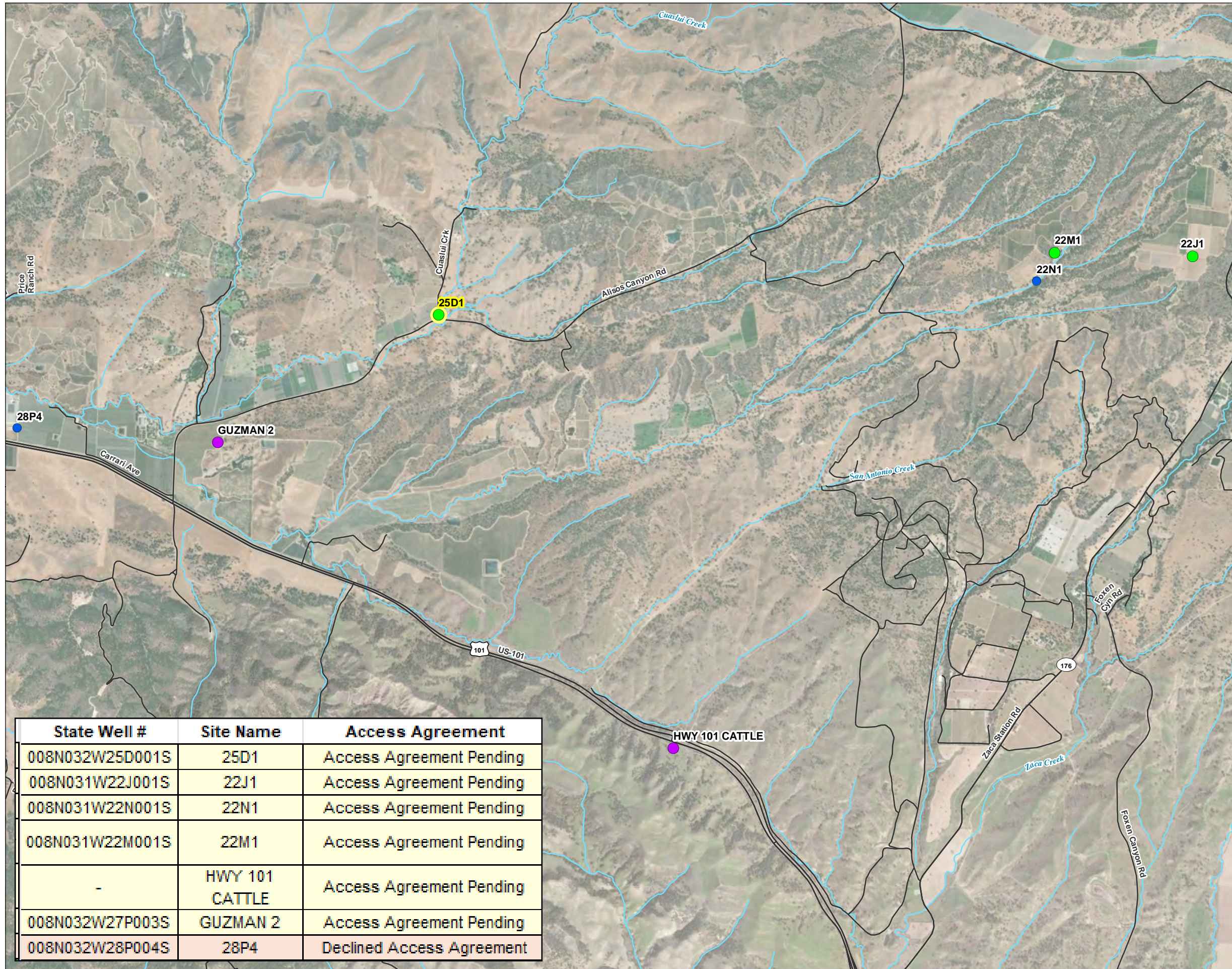
- Los Alamos Community Services District
- Major Road
- ~ Watercourse

**NOTES:**  
 1. SACC 1, SACC 2, SACC 3, and SACC 4 depth to water measurements are collected manually on a quarterly basis.



Date: March 23, 2022  
 Data Sources:

**FIGURE 3**  
**Wells Located in**  
**the Eastern Portion of**  
**the San Antonio Creek Valley**  
**Groundwater Basin**  
 San Antonio Creek Valley  
 Groundwater Basin  
 First Quarter 2022 Report



**LEGEND**

**Sample Method**

- Transducer Well
- Manually Measured Well

**Aquifer of Completion**

- Careaga Sand Well
- Paso Robles Formation Well
- Unassigned Aquifer Well

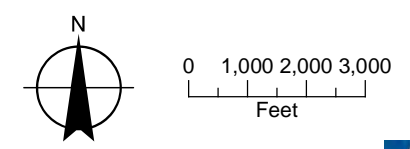
**Representative Monitoring Site**

- Representative Monitoring Site

**All Other Features**

- Major Road
- ~ Watercourse

State Well #	Site Name	Access Agreement
008N032W25D001S	25D1	Access Agreement Pending
008N031W22J001S	22J1	Access Agreement Pending
008N031W22N001S	22N1	Access Agreement Pending
008N031W22M001S	22M1	Access Agreement Pending
-	HWY 101 CATTLE	Access Agreement Pending
008N032W27P003S	GUZMAN 2	Access Agreement Pending
008N032W28P004S	28P4	Declined Access Agreement



Date: March 23, 2022  
 Data Sources:

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April 5, 2022

Stephanie Bertoux  
Executive Director  
San Antonio Basin Groundwater Sustainability Agency (SABGSA)  
920 East Stowell Rd.  
Santa Maria, CA 93454  
[admin@sanantoniobasingsa.org](mailto:admin@sanantoniobasingsa.org)

Dear Ms. Bertoux:

GSI Water Solutions, Inc. (GSI), is pleased to present this scope of work and budget for performing on-call services for the San Antonio Basin Groundwater Sustainability Agency's (SABGSA) consideration. GSI will provide services associated with implementation of the San Antonio Creek Valley Groundwater Basin (Basin) Groundwater Sustainability Plan (GSP) and other activities that are requested by the SABGSA and the Executive Director. GSI anticipates on-call services may include:

- Assistance with development of the well registration and metering program.
- Planning for installation of stream gauging equipment.
- Performance of wellhead elevation surveys
- Assistance with SABGSA budgeting and project planning
- Attendance at stakeholder and Board of Directors meetings at the request of the Executive Director

These services would be performed at the specific direction of the Executive Director in accordance with GSI's contract with the SABGSA. GSI will perform the work on a time and materials basis in accordance with the attached rate sheet. Because it is not possible to estimate fees for the work that will be requested, GSI is proposing that the SABGSA authorize a budget allocation of **\$10,000** for the remainder of the fiscal year. This amount will not be exceeded without the written approval of the Executive Director. On a monthly basis, GSI will provide a summary of activities that were performed that month with the associated cost. GSI understands that the Executive Director may re-prioritize requested services depending on what is needed at the time.

We thank you for your consideration of this proposal. Please contact us if you have any questions. Thank you for allowing GSI to continue to serve the interests of the SABGSA.

You may indicate your acceptance of this proposal by signing on the space provided below.

Sincerely,  
GSI Water Solutions, Inc.

A handwritten signature in black ink that reads "Michael A. McAlpin".

Michael McAlpin, PG  
Consulting Hydrogeologist

A handwritten signature in blue ink that reads "Jeff Barry".

Jeff Barry  
Principal Hydrogeologist

\_\_\_\_\_  
Approved by

\_\_\_\_\_  
Date



## 2022 GSI Fee Schedule

Labor Category	Hourly Rate
<b>Technical Professionals</b>	
Principal	\$255 - \$290
Supervising	\$190 - \$255
Managing	\$170 - \$190
Consulting	\$145 - \$170
Project	\$130 - \$145
Staff	\$105 - \$130
<b>Other Services</b>	
GIS/Graphics/Database	\$110 - \$170
Editor/Documents	\$110 - \$140
Administration	\$70 - \$110

The hourly rate for trial preparation and expert witness testimony is 1.5 times the standard billing rate shown above.

### Expenses

- **Mileage:** IRS authorized rate/mile plus 10 percent markup
- **Direct expenses and outside services:** Cost plus 10 percent markup
- **Enterprise GIS:** \$50 per month for the duration of use