



TECHNICAL MEMORANDUM

San Antonio Creek Valley Groundwater Basin Quarterly Groundwater Level Monitoring – First Quarter 2026

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

From: Michael McAlpin, PG and David O'Rourke, PG, CHg, PE, GSI Water Solutions, Inc.

Attachments: Tables:
Table 1. First Quarter 2026 Groundwater Level Measurements – Depth to Water
Table 2. Fourth Quarter 2026 Groundwater Level Measurements – Groundwater Elevation

Figures:
Figure 1. Wells Included in the San Antonio Creek Valley Groundwater Basin Groundwater Monitoring Network

Date: March 24, 2026

Introduction

On behalf of the San Antonio Basin Groundwater Sustainability Agency (SABGSA), GSI Water Solutions, Inc. (GSI) completed the first quarter 2026 (1Q2026) San Antonio Creek Valley Groundwater Basin (Basin) groundwater level monitoring event (monitoring event) on March 17th and 18th, 2026. Prior to each quarterly monitoring event, GSI contacts well owners/property managers to coordinate access to the wells and request that wells be shut off for at least 8 hours before the monitoring event to facilitate measurement of static groundwater levels. Well owners/property managers were notified on March 3rd, 2026.

GSI successfully measured depth to groundwater in 37 of the 40 wells that have access agreements in place during the 1Q2026 monitoring event. Tables 1 and 2 provide the status of the current well access agreements, and Figure 1 displays the well locations. The following text and tables summarize the results of the 1Q2026 monitoring event.

1Q2026 Groundwater Level Monitoring Event Summary

The attached Tables 1 and 2 summarize the results of the 1Q2026 monitoring event for the wells in the Basin Groundwater Level Monitoring Network (Monitoring Network). The tables include the status of the current well access agreements, depth to groundwater measurements (Table 1), and calculated groundwater elevations (Table 2) for all wells that were able to be accessed during the monitoring event. Wells identified as a Representative Monitoring Site (RMS) in the Basin's Groundwater Sustainability Plan (GSP) are identified in Table 2 and denoted with their respective sustainable management criteria (i.e., minimum threshold and measurable objective). The following is a summary of observations from the 1Q2026 monitoring event:

- The three wells with active well access agreements that did not have a groundwater level measurement collected during the 1Q2026 monitoring event were 2N1, Stephen's Well, and Char 1.

- Premiere Coastal Vineyards (PCV) met with GSI at 2N1 during the 2Q2025 monitoring event to confirm the access port through which to deploy the water level sounding device. However, a cable had been deployed through the access port. Consequently, there was not enough clearance for the water level sounding probe to be deployed through the access port with the cable in place. During 3Q2025, on-site PCV staff attempted to remove the cable, but were unsuccessful due to the risk of damage to the well. PCV staff were unable to remedy the access port clearance limitation prior to the 4Q2025 monitoring event, and informed GSI that the cable will remain in the well. A water level measurement at well 2N1 was last recorded during the 1Q2024 monitoring event. If the access port clearance limitation is unable to be resolved, 2N1 may be removed from the Basin Monitoring Network.

Mesa Vineyard, 2N1, and Well 4 are all located on the PCV property, are completed to similar depths, are screened at similar depth intervals, and historically have similar water levels. None of these wells have been identified as a RMS. Maintenance of Mesa Vineyard and 2N1 has been recommended in preceding quarterly reporting to remove rusty material and oil from the wells' water column. The water level reading device becomes coated in either rust or oil when lowered into the well, occasionally blocking the sensor and preventing an accurate water level measurement. Well 4 is the newest well on the property, constructed in 2023. Removal of 2N1 from the Basin Monitoring Network would not result in a data gap. Water levels measured in Well 4 are representative of the area. Based on the same rationale, the SABGSA may consider removing Mesa Vineyard from the Basin Monitoring Network if the rusty material and oil is unable to be removed from the well.

- A manual groundwater level measurement was not taken at Stephen's due to the well not being turned off for at least 8 hours prior to GSI accessing the well. The well owner informed GSI the well needed to remain on to provide water for livestock during the heat wave. Monitoring is expected to resume in 2Q2026.
- A manual groundwater level measurement was not taken at well Char 1 because the well owner was unable to be available to provide GSI access to the well. Monitoring is expected to resume in 2Q2026.
- The pressure transducer (transducer) that records continuous water level measurements at well 16C4 was not functioning during the 4Q2025 monitoring event. GSI replaced the transducer within the existing project budget during the 1Q2026 monitoring event after troubleshooting the issue with the manufacturer.
- The transducer at well 13C1 was removed by the well owner prior to the 1Q2026 monitoring event. The well owner informed GSI that the well is currently undergoing repair. GSI removed the transducer from the well site and will attempt to re-deploy the transducer during the 2Q2026 monitoring event if repairs are completed.
- Vegetation trimming of access routes to all wells located in the Barka Slough area was performed on January 29th, 2026, prior to the 1Q2026 monitoring event. Trimming is recommended to be completed again following the end of bird nesting season in September.
- Wells without current well access agreements, including RMS wells, are being evaluated for replacement using existing Monitoring Network wells and potential candidate wells identified using the data collected from the SABGSA Well Registration Program.

Recommended Action Items

- Perform a RPE Survey for the wells in the Monitoring Network in accordance with the Sustainable Groundwater Management Act (SGMA) well elevation accuracy requirements.

FIGURE 1
Wells Included in the
San Antonio Creek Valley
Groundwater Basin
Groundwater Level Monitoring
Network

San Antonio Creek Valley
 Groundwater Basin Quarterly
 Groundwater Level Monitoring

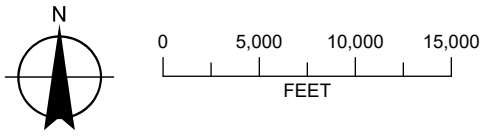
First Quarter 2026

LEGEND

- Representative Well
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary
- Wells (by screened aquifer)**
- Screened Aquifer**
- Paso Robles Formation
- Careaga Sand

NOTES

1. SACR 1 and 14L1 are screened in the Careaga Sand.
2. White Hawk 4 was destroyed in December 2023. Replacement well White Hawk 4a was constructed and completed in June 2024.



Date: March 23, 2026
 Data Sources: USGS, ESRI, DWR,
 Maxar Imagery (4/10/2024)

