



# Agenda

## San Miguel Groundwater Sustainability Agency

### BOARD OF DIRECTORS

Ashley Sangster, President  
Vacancy, Director

Raynette Gregory, Director

Anthony Kalvans, Vice President  
Hector Palafox, Director

### THURSDAY, NOVEMBER 19, 2020 6:00 P.M. Opened Session BOARD OF DIRECTORS MEETING AGENDA

SMCSD Boardroom  
1150 Mission St.  
San Miguel, CA 93451

**Cell Phones:** As a courtesy to others, please silence your cell phone or pager during the meeting and engage in conversations outside the Boardroom.

**Americans with Disabilities Act:** If you need special assistance to participate in this meeting, please contact the CSD Clerk at (805) 467-3388. Notification 48 hours in advance will enable the CSD to make reasonable arrangements to ensure accessibility to this meeting. Assisted listening devices are available for the hearing impaired.

**Public Comment:** Please complete a "Request to Speak" form located at the podium in the boardroom in order to address the Board of Directors on any agenda item. Comments are limited to three minutes, unless you have registered your organization with CSD Clerk prior to the meeting. If you wish to speak on an item not on the agenda, you may do so under "Oral Communications." Any member of the public may address the Board of Directors on items on the Consent Calendar. Please complete a "Request to Speak" form as noted above and mark which item number you wish to address.

**Meeting Schedule:** Regular Board of Director meetings are generally held in the SMCSD Boardroom on the fourth Thursday of each month at 7:00 P.M. Agendas are also posted at: [www.sanmiguelcsd.org](http://www.sanmiguelcsd.org)

**Agendas:** Agenda packets are available for public inspection 72 hours prior to the scheduled meeting at the Counter/ San Miguel CSD office located at 1150 Mission St., San Miguel, during normal business hours. Any agenda-related writings or documents provided to a majority of the Board of Directors after distribution of the agenda packet are available for public inspection at the same time at the counter/ San Miguel CSD office at 1150 Mission St., San Miguel, during normal business hours.

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I. **Call to Order: 6:00 PM**

II. **Pledge of Allegiance:**

III. **Roll Call:** *Vacancy*\_\_\_ *Sangster* \_\_\_ *Palafox*\_\_\_ *Kalvans*\_\_\_ *Gregory* \_\_\_

IV. **Approval of GSA Meeting Agenda:**

M\_\_\_\_\_ S\_\_\_\_\_ V\_\_\_\_\_

V. **ADJOURN TO CLOSED SESSION:**

A. **CLOSED SESSION AGENDA:** None

VI. **Call to Order for Regular Board Meeting/Report out of Closed Session:** N/A

VII. **Public Comment and Communications for items not on the Agenda:**

Persons wishing to speak on a matter, not on the agenda may be heard at this time; however, no action will be taken until placed on a future agenda. Speakers are limited to three minutes. Please complete a "Request to Speak" form and place in basket provided.

VIII. **Special Presentations/Public Hearings/Other:** None

IX. **Staff & Committee Reports – Receive & File:** None

X. **CONSENT CALENDAR:**

1. **Review and Approve Board Meeting Minutes:**

a. 02-27-2020 Draft Meeting Minutes

The items listed above are scheduled for consideration as a group and one vote. Any Director or a member of the public may request an item be withdrawn from the Consent Agenda to discuss or to change the recommended course of action. Unless an item is pulled for separate consideration by the Board, the following items are recommended for approval without further discussion.

XI. **BOARD ACTION ITEMS:**

1. **Review, Discuss and approve RESOLUTION 2020-01 proposal by GSI Water Solutions to prepare the Water Year 2020 GSP Annual Report for the Paso Robles Sub-basin in a cost share amount not to exceed \$2,700 and authorize submission of the Annual Report by the SLO County Public Works Director.**

**Public Comments:** (Hear public comments prior to Board Action)

M\_\_\_\_\_ S\_\_\_\_\_ V\_\_\_\_\_

- 2. **Authorize the Interim General Manager, or Designee, by RESOLUTION 2020-02 to apply to The California Department of Water Resources to obtain a grant under the 2019 Sustainable Groundwater Management (SGM) Grant Program Implementation – Round 1 for the upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof).**

**Public Comments:** (Hear public comments prior to Board Action)

**M**\_\_\_\_\_ **S**\_\_\_\_\_ **V**\_\_\_\_\_

**XII. BOARD COMMENT:**

This section is intended as an opportunity for Board members to make brief announcements, request information from staff, request future agenda item(s) and/or report on their own activities related to District business. No action is to be taken until an item is placed on a future agenda.

**XIII. ADJOURNMENT TO NEXT GSA MEETING: TBD**

**ATTEST:**

STATE OF CALIFORNIA            )  
 COUNTY OF SAN LUIS OBISPO    ) ss.  
 COMMUNITY OF SAN MIGUEL     )

I, Tamara Parent, Board Clerk/Accounts Manager of San Miguel Community Services District, hereby certify that I caused the posting of this agenda at the SMCSO office on November 12, 2020

**Date: November 12, 2020**

Ashley Sangster  
**Ashley Sangster President, Board of Directors**

Rob Roberson  
**Interim General Manager**

Tamara Parent  
**Tamara Parent, Board Clerk/ Accounts Manager**

SAN MIGUEL COMMUNITY SERVICES DISTRICT  
BOARD OF DIRECTORS  
GROUNDWATER SUSTAINABILITY AGENCY MEETING MINUTES

**February 27, 2020**

MEETING HELD AT DISTRICT OFFICES  
1150 MISSION STREET  
SAN MIGUEL, CA 93451

- I. Meeting Called to Order by Director Green – 6:00 P.M.
- II. Pledge of Allegiance lead by Director Green
- III. **Roll Call:** Directors Present: Sangster, Palafox, Green, Kalvans (arrived at 6:03)  
Director Absent: None; One Board Seat Vacant
- IV. **Adoption of Special Meeting Agenda:**  
Motion by Director Green to adopt Meeting Agenda as presented.  
Seconded by Director Sangster, Motion was approved by vote of 3 AYES and 0 NOES 1 ABSENT.
- V. **Adjourn to closed session:** None
- VI. **Call to order out of the closed session:** None
- VII. **Public Comment and Communications** (for items not on the agenda):  
No Public Comment
- VIII. **Special Presentation/Public Hearing/Other:** None
- IX. **Staff & Committee Reports-** Receive & File: None
- X. **Consent Calendar:** 1.a Review and approve 12-19-2019 GSA Meeting Minutes  
  
Motion by Director Green to approve the Consent Calendar, 1.a  
  
Seconded by Director Palafox. Motion was approved by Vote of 4 AYES and 0 NOES and 0 Absent.

The items listed below are scheduled for consideration as a group and one vote. Any Director or a member of the public may request an item be withdrawn from the Consent Agenda to discuss or to change the recommended course of action. Unless an item is pulled for separate consideration by the Board, the following items are recommended for approval without further discussion.

**1. Review, Discuss, Receive and File the Invoice #19 dated 01-24-2020 (SM20200124) Montgomery & Assoc. for payment for proportional share of the "Paso Robles Basin GSP" for \$761.21**

Item presented by Director of Utilities Kelly Dodds explaining that is just the District share for the invoice number 19 and asked for any questions.

**Board Comment:** None

**Public Comment:** None

Motion by Director Green to Receive and File the the Invoice #19 dated 01-24-2020 (SM20200124) Montgomery & Assoc. for payment for proportional share of the "Paso Robles Basin GSP" for \$761.21

Seconded by Director Palafox, Motion was approved by Vote of 5 AYES and 0 NOES and 0 ABSENT.

**2. Review, Paso Robles Groundwater Basin GSP, first annual report Final Draft**

Item was presented by Dr. Reely and staff report was for information only.

**Board Comment:** Director Sangster asked how Dr. Reely felt about the finished product, Dr. Reely voiced that he approved of the annual report and that all the information was from the last two years data. The data has gaps due to the pointed out lack of data points but feels that those gaps will be filled in in the next year.

Director Kalvans asked about the Paso golf courses and that they used three times as much water as San Miguel CSD. Dr. Reely did understand his concern and informed the Board of Directors that the City of Paso Robles will be producing title 22 water and will be distributing through purple pipelines. At this time the City of Paso is discharging the title 22 water into the riverbed until the distribution pipes are put into effect.

Director Kalvans asked by they have not been held accountable for the large usage. Dr. Reely explained that he could not speak legally of why not.

**XII. BOARD COMMENT:** None

This section is intended as an opportunity for Board members to make brief announcements, request information from staff, request future agenda item(s) and/or report on their activities related to District business. No action is to be taken until an item is placed on a future agenda.

**XIII. ADJOURNMENT @ 6:10 P.M.**



## San Miguel Community Services District

### Groundwater Sustainability Agency Staff Report

November 19, 2020

GSA AGENDA ITEM: XI - 1

**SUBJECT:** Request authorization to pay invoices to the City of Paso Robles related to the development of the Water Year 2020 GSP Annual Report for the Paso Robles Subbasin in an amount not to exceed \$2,700; and authorize the SLO County Director of Public Works, or designee, to submit Annual Reports for the Paso Robles Subbasin..

#### **RECOMMENDATION:**

It is recommended that the Board:

1. Authorize the District staff to pay invoices to the City of Paso Robles for consultant costs related to the development of the Water Year 2020 GSP Annual Report for the Paso Robles Subbasin, in an amount not to exceed \$2,700, provided that the other GSAs similarly agree to pay their percentage share of said costs.
2. Authorize the SLO County Director of Public Works, or designee, to submit the Water Year 2020 GSP Annual Report, and future annual reports, for the Paso Robles Subbasin on behalf, and per agreement, of the Paso Robles Subbasin GSAs provided that said reports have been approved by the affirmative vote of sixty-seven percent of the Paso Basin Cooperative Committee as described in Section 4.8 of the Memorandum of Agreement (MOA).

#### **BACKGROUND:**

The four Groundwater Sustainability Agencies (GSA) in the Paso Robles Subbasin developed, adopted, and submitted a Groundwater Sustainability Plan (GSP) to the State Department of Water Resources (DWR) by the January 31, 2020 statutory deadline to comply with the requirements of the Sustainable Groundwater Management Act (SGMA). In addition to adopting a GSP by January 31, 2020, the GSAs are required to submit an annual report by April 1 each year following GSP Adoption. Annual reports are intended to provide technical information on groundwater conditions and the effects of GSP implementation over the prior water year.

The four Paso Robles Subbasin GSAs continue coordinating through the Paso Basin Cooperative Committee (Committee) and MOA under which it was established. The City of Paso Robles is designated as the contracting agent pursuant to the MOA and is in the process of hiring a consultant to prepare the Water Year 2020 GSP annual report to be submitted to the State by April 1, 2021. The City of Paso Robles has received a proposal from GSI Water Solutions, Inc. to prepare the Water Year 2020 GSP

annual report (see attached). GSI Water Solutions, Inc. is the consultant that prepared the 2019 GSP annual report and is very familiar with the regulatory requirements associated with this effort.

The GSA Cooperative Committee approved a recommended budget for the GSAs that included an amount not to exceed \$80,000 for consultant costs in connection with the next annual report; therefore, it is recommended that the Board authorize the District staff to pay invoices to the City of Paso Robles, in an amount not to exceed \$2,700, provided that the other GSAs similarly agree to pay their percentage share of said costs. Additionally, it is anticipated that the GSA Cooperative Committee will approve and recommend submittal of the annual report. DWR requires the annual reports to be submitted by the GSP Plan Managers and, since the GSAs have agreed that the SLO County Director of Public Works, or designee, will serve as the Paso Basin GSP Plan Manager, it is recommended that the Board authorize the submittal of the Water Year 2020 Annual Report, and future annual reports, for the Paso Robles Subbasin on behalf, and per agreement, of the GSAs provided that said reports have been approved by the Committee as described in Section 4.8 of the MOA.

**FUNDING:**

The cost of this project will be funded from operational funds in the Water Fund. A budget adjustment to the Fiscal Year 2020-2021 budget will be made by staff if the Board approves this item.

**FISCAL IMPACT**

The total estimated fee to complete this work is estimated to not exceed \$2,700.

PREPARED BY:

APPROVED BY:

*Blaine T. Reely*

*Kelly Dodds*

Blaine T. Reely, P.E., District Engineer

Director of Utilities

Attachments:

GSI Water Solutions, Inc. Proposal (Dated 10/28/2020)

## PROPOSAL

# Second Annual Report for the Paso Robles Subbasin Groundwater Sustainability Plan, Water Year 2020

Presented to the City of Paso Robles GSA, Paso Basin – County of San Luis Obispo GSA,  
San Miguel Community Services District GSA, Shandon-San Juan GSA

**OCTOBER 2020**

*Submitted by:*

GSI Water Solutions, Inc.  
5855 Capistrano Avenue, Suite C  
Atascadero, CA 93422  
805.460.4622



# Section 1

## Cover Letter

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October 28, 2020

**Christopher Alakel**

City of Paso Robles Groundwater  
Sustainability Agency  
City of Paso Robles – City Hall  
1000 Spring Street  
Paso Robles, CA 93446

**Angela Ford**

Paso Basin – County of San Luis Obispo Groundwater  
Sustainability Agency  
Public Works Department  
County of San Luis Obispo  
976 Osos Street, Ste. 207  
San Luis Obispo, CA 93408

**Blaine Reely**

San Miguel Community Services District  
Groundwater Sustainability Agency  
1150 Mission Street  
San Miguel, CA 93451

**Willy Cunha**

Shandon-San Juan Groundwater Sustainability Agency  
PO Box 150  
Shandon, CA 93461

**Re: Proposal to Prepare the Second Annual Report, Water Year 2020  
Paso Robles Subbasin Groundwater Sustainability Plan (GSP)**

Dear Mr. Alakel and Paso Robles Subbasin GSA representatives:

GSI Water Solutions, Inc. (GSI), is pleased to present our proposal to help the City of Paso Robles (City) and its Groundwater Sustainability Agency (GSA) partners develop the Second Annual Report for the Paso Robles Subbasin (Basin) GSP. We were involved in GSP development in an advisory role since the beginning of the process and, on behalf of the GSAs, prepared the First Annual Report that was submitted on March 31, 2020.

The Sustainable Groundwater Management Act (SGMA) required the GSAs that represent critically overdrafted Basins to submit a GSP by January 31, 2020, outlining steps for achieving basin sustainability within 20 years. Following submittal of the GSP, SGMA regulations also required the GSAs to prepare an annual report to measure the effectiveness of the plan and demonstrate to the Department of Water Resources (DWR) that the Basin is on track to sustainably manage the groundwater resource. The Paso Robles Subbasin GSP was submitted on January 31, 2020. The First Annual Report, submitted on March 31, 2020, compiled data, summarized the results of monitoring efforts, documented changes in groundwater supplies, tabulated basin-wide groundwater use, and tracked the effectiveness of initial GSP implementation efforts.

We appreciate the confidence that the GSA staff has placed in GSI to request this proposal for the preparation and development of the Second Annual Report. We look forward to the opportunity to support this project for the Basin. Please do not hesitate to contact me with questions.

Sincerely,

GSI Water Solutions, Inc.



Paul A. Sorensen  
Principal Water Resources Consultant  
805.460.4621  
psorensen@gsiws.com  
5855 Capistrano Avenue, Suite C Atascadero, CA 93422

# Section 2

## Qualifications, Approach, and Scope of Work

### Experience Providing SGMA-Related Services

GSI is a specialized groundwater and water resources consulting firm that helps clients develop and manage groundwater supplies to ensure long-term sustainability and reliability. Our groundwater experts have been working in the Basin for decades, bring a wealth of experience in groundwater management projects in the Basin, and have been heavily involved in GSP development both in the Basin and elsewhere in southern California.

We are immersed in the details of the Basin’s GSP, and we understand what is needed to develop an annual report template that meets DWR requirements and provides an effective yardstick for measuring the success of plan implementation over time. Our hydrogeologists and water resources consultants are experts in groundwater management and supply planning, specifically as it relates to SGMA compliance.

Currently, we are working on a number of GSP development and SGMA-related projects, including GSP development for the Atascadero Basin GSA, San Luis Obispo Valley Basin GSAs, Arroyo Grande Valley Subbasin GSAs, Carpinteria Valley Basin GSA, San Antonio Basin GSA, Santa Ynez River Valley Basin Eastern Management Area GSA, Santa Clarita Valley GSA, Kaweah Subbasin GSAs, and Cuyama Basin GSA.

This work includes evaluating the complexities of water in the subsurface, developing water budgets that can achieve sustainability, identifying potential undesirable results, effectively communicating with basin stakeholders on technical matters and helping to identify commonalities that set the stage for a collaborative process, and identifying and implementing practical solutions to achieve sustainability goals. Our SGMA experience includes the following projects:

	Hydrogeologic assessments	Groundwater management planning	Groundwater modeling and water budgets	Data management systems	Groundwater/surface water interaction	Stakeholder engagement	GSP preparation, Annual Report
<b>Expertise and Input to the Paso Robles Basin GSP, Shandon-San Juan Water District and Estrella-El Pomar-Creston Water District ■ San Luis Obispo County, CA</b>	●	●	●		●	●	●
<b>Hydrogeological Characterization and GSP Preparation, Atascadero Basin GSA ■ Atascadero, CA</b>	●	●	●		●	●	●
<b>Hydrogeological Characterization and GSP Preparation, Cuyama Basin GSA ■ Santa Barbara and San Luis Obispo County, CA</b>	●	●			●		●
<b>GSP Development, Santa Ynez River Valley Eastern Management Area GSA ■ Santa Barbara County, CA</b>	●	●	●	●	●	●	●
<b>GSP Development, San Antonio Basin GSA ■ Santa Barbara County, CA</b>	●	●	●	●	●	●	●
<b>GSP Development, Santa Clarita Valley GSA ■ Santa Clarita, CA</b>	●	●	●	●	●	●	●
<b>SGMA Basin Boundary Modification, Santa Clarita Valley GSA ■ Santa Clarita, CA</b>	●	●				●	●
<b>GSP Development, Carpinteria Valley GSA ■ Santa Barbara County, CA</b>	●	●				●	●
<b>GSP Development, San Luis Obispo Valley Basin GSAs ■ San Luis Obispo County, CA</b>	●	●	●		●	●	●
<b>SGMA/GSP Preparation, Mid-Kaweah and Greater Kaweah GSAs ■ Tulare, CA</b>	●	●	●		●	●	●
<b>SGMA Basin Boundary Modification, Atascadero Mutual Water Company and Templeton Community Services District ■ Atascadero, CA</b>	●	●				●	●
<b>SGMA Basin Boundary Modification for the Santa Maria Groundwater Basin, County of San Luis Obispo, CA</b>	●	●				●	●

## Project Descriptions for Annual Reporting Projects and GSPs

In addition to SGMA-specific projects listed above, GSI's experts have worked on numerous annual reporting projects. The following projects speak to GSI's ability to deliver a comprehensive annual report that meets DWR requirements. Three recent examples of Annual Report preparation projects (in addition to the Paso Robles Subbasin GSP Annual Report) include:

### Adjudicated Groundwater Basin Annual Report Preparation

**Northern Cities Management Area (NCMA), Santa Maria River Valley Groundwater Basin, San Luis Obispo County, California**

GSI manages the preparation and submittal of the court-mandated annual reports for the Northern Cities Management Area of the Santa Maria River Valley Groundwater Basin—which represents the Cities of Pismo Beach, Arroyo Grande, and Grover Beach, and the Oceano Community Services District. Tasks include sampling and monitoring key sentry wells in the Northern Cities area to assess potential seawater intrusion and providing technical support and report preparation of quarterly and annual reporting required by the Superior Court and by DWR as a result of the Santa Maria Basin adjudication.

### California Valley Solar Ranch Annual Report

**High Plains Ranch II, LLC, San Luis Obispo County, California**

GSI staff members prepared annual operations-phase groundwater monitoring reports for the California Valley Solar Ranch, a 250-megawatt photovoltaic power plant in eastern San Luis Obispo County. The project's conditional use permit stipulated the preparation of a groundwater monitoring and reporting plan with annual reporting of groundwater conditions. GSI collected all required data and developed the reports—which detailed groundwater levels, water quality, and pumping monitoring results— and analyzed trends in groundwater levels to determine whether project pumping resulted in declines of 5 feet or more below the baseline trend at nearby private monitoring wells.

### Groundwater Monitoring and Reporting

**Santa Paula Water Recycling Facility, City of Santa Paula, California**

For more than a decade, GSI team member Tim Nicely has helped guide the City of Santa Paula to support compliance with groundwater monitoring and reporting requirements provided by the California Regional Water Quality Control Board. This has involved design of water recycling facility percolation ponds and installation of a network of dedicated groundwater monitoring wells and water level transducers. To confirm that the project does not adversely affect groundwater quality of the Santa Paula groundwater basin, we have conducted monthly groundwater sampling and prepared quarterly and annual monitoring reports on behalf of the City, presenting groundwater elevation contours and historical water quality data in compliance with permit requirements.



Santa Paula Water Recycling Facility

## Project Approach

Section 356.2 of the SGMA emergency regulations outlines the specific requirements of the annual report, which must be submitted to DWR by April 1 of each year following adoption of the GSP. The Paso Robles Basin GSP was submitted by January 31, 2020 and the First Annual Report for the Basin was submitted on March 31, 2020. The regulations require that the annual report be based on the preceding water year (a water year covers the period from October 1 to September 30); thus the Second Annual Report, due March 31, 2021, will be for Water Year (WY) 2020, reporting on data and actions from October 1, 2019 through September 30, 2020.

DWR requires that the annual report describe the effectiveness of GSP implementation. One of the means by which the GSAs can measure effectiveness and demonstrate to DWR that the plan is on track to achieve sustainability is through the compilation of data and information that summarize the results of the monitoring efforts, document changes in groundwater supplies, tabulate basin-wide groundwater use, and document progress toward meeting interim milestones and (ultimately) basin sustainability.

## Scope of Work

GSI developed the following scope of work based on the requirements in the September 2019 RFP for the First Annual Report, the requirements as outlined in the SGMA Emergency Regulations, and our experience preparing various other annual reports to meet DWR and other agency standards.

### Task 1 – Data Compilation

The initial efforts will concentrate on developing the data needs, requesting data, and compiling the requirement information and data to prepare the report. All of the historical data in the GSP is compiled in the GSP Access® database. We will make data requests of the appropriate agencies to gather groundwater level data and production records. We will update the database files and the requisite data sets for the annual report. The data sources are varied and will require coordination and cooperation from a wide variety of agencies and entities.

### Task 2 – Data Analysis and Representation

Several discrete data sets are required to be included in the annual report, including the following:

- Groundwater elevation data (for each principal aquifer)
- Groundwater extractions and use
- Surface water supply use
- Total water use
- Change in groundwater in storage
- Precipitation

**Task 2.1 Groundwater Elevation Data.** Groundwater elevation data are collected and compiled through the County of San Luis Obispo Groundwater Level Monitoring Program, operated by the San Luis Obispo County (County) Public Works Department with data collected twice a year (typically in April and October). We have worked extensively with the program, the County's data set, and the confidential nature of much of the data.

For purposes of preparing water level contour maps of each of the principal aquifers (Paso Robles Formation Aquifer and the Alluvial Aquifer), the entire County water level database can be used, as long as no individual data or data points are shown that would conflict with confidentiality agreements. For this Second Annual Report, water level contour maps for each aquifer will be prepared representing groundwater conditions in April 2020 and October 2020.

The Plan monitoring network includes hydrographs for 22 monitoring wells, which is a subset of the County monitoring program consisting of wells whose owners have agreed to allow their data to be made public. Each of the hydrographs presented in the GSP (Appendix D) will be updated with data through October 2020.

**Task 2.2 Groundwater Extractions.** Groundwater extraction data through September 2019 was compiled and represented in the First Annual Report. These data will be updated for WY 2020, including the estimates of extractions and general locations, the water use by sector, and methodology of measurement. Updated groundwater extraction information will be estimated using crop coverage information and water use factors used in the groundwater model. We will follow the same methodology used in the GSP and in the First Annual Report. We will prepare estimates of groundwater use by sector and method of measurement, and will provide a map showing general locations and volumes of extraction.

**Task 2.3 Surface Water Supply.** The regulations require that a description of surface water supplies be incorporated into the report. Use of surface water in the Basin is relatively small and limited to a very few sources. These data will be compiled, described, and incorporated into the total basin water use data compilation and descriptions (Task 2.4).

**Task 2.4 Total Water Use.** We will compile and present total basin water use information, including water sector, water source type, method of measurement, and a relative representation of accuracy of the measurement methodology (DWR standards require qualitative judgments such as “high,” “medium,” and “low”).

**Task 2.5 Change in Groundwater in Storage.** Calculations of changes in groundwater in storage in each of the principal aquifers as presented in the GSP were performed through use of the groundwater flow model. To perform similar calculations for the annual reports would require updating the model every year, which is neither planned nor advised. An alternative standard method for calculating changes in groundwater in storage from one year to another is to create water level contour maps for each year of interest (Task 2.1) and calculate the volume changes between years. An ArcGIS® tool will be used to compute the volume difference between the initial groundwater surface and the following year’s water surface. By applying a storativity factor (for the semi-confined Paso Robles Formation) or specific yield (for the unconfined alluvial aquifer) value, we can compute a change in the volume of water present in each aquifer. It is not necessary to know the total volume of groundwater in storage; it is the storage change (positive or negative) from year to year that we want to know. Following is a step-by-step process that we used for preparation of the this task in the First Annual Report, and that we intend to apply this year to estimate change in storage in both the Alluvial Aquifer and Paso Robles Formation Aquifer:

1. Create a water level contour map for April 2020 using groundwater level elevation data from the basin-wide monitoring program and Surfer® contouring and 3D surface mapping software. We will use professional judgment to adjust contours in places that do not make sense.
2. Import the Surfer file into ArcGIS and adjust the contoured water level elevation surface to fit the boundaries of the Basin.
3. Repeat steps 1 and 2 for October 2020 water level data.
4. Using ArcGIS, compute the difference in the water surface elevation between April 2019 water level data (which was prepared for the First Annual Report) and April 2020 water level data and compute the change in volume of saturated aquifer.
5. Multiply the specific yield or storage coefficient values by the volume calculated in Step 4. This is the change in groundwater in storage between April 2019 and April 2020.
6. Calculate the change in storage between October 2019 and October 2020 water level data by repeating the preceding steps.
7. Determine whether this makes technical sense and identify where the biggest changes (plus or minus) are occurring.

Note that the resulting calculated change in storage values may be quite different from the values that would otherwise be calculated as a model output if the groundwater model were updated and utilized because the methodologies are quite different and the averaged storativity value may or may not be fully representative of conditions throughout the Basin, both laterally and vertically.

### **Task 3 – Report Preparation, including Plan Implementation Progress**

The overall purpose of the annual report is to update and use the compiled data to assess the progress that the basin GSAs and various stakeholders are making towards the ultimate goal of basin sustainability. The results of the data analysis will be evaluated and compared with the goals of the GSP implementation plan, then described in

the annual report to demonstrate to DWR the efforts of the GSAs and the effectiveness of GSP implementation.

GSI will prepare an initial administrative draft report for the GSA staff. The report will be based on data collected and the analysis performed as described above, on other data that may become available, and on ongoing discussions with the GSA staff. The general organization of the report is expected to be the following:

- Executive Summary
- Introduction
- Basin Setting and Monitoring Networks
  - Subbasin Setting
    - Precipitation and Climatic Periods
    - Groundwater Elevation Monitoring
- Groundwater Elevations, including water level contour maps and updated hydrographs
- Groundwater Extractions
  - Municipal Metered
  - Agricultural Irrigation
  - Rural Domestic and Small Public Water Systems
  - Total Groundwater Extraction Summary
- Surface Water Use
- Total Water Use
- Change in Groundwater in Storage
- Progress Towards Basin Sustainability
- Appendices
  - A. GSP Regulations
  - B. Precipitation Data
  - C. Groundwater Level and Groundwater Storage Monitoring Well
  - D. Potential Future Monitoring Wells
  - E. Hydrographs
  - F. Paso Robles Formation Aquifer Storage Coefficient Derivation and Sensitivity Analysis



Deliverables include the following:

- Administrative Draft report, for review and approval by the GSA staff
- Public Review Draft report, for review by the Paso Basin Cooperative Committee (PBCC) and the public
- Final Draft, for approval at the PBCC meeting
- Final report

### Task 4 – Report Submittal

Following final approval of the annual report by the GSAs and the Paso Basin Cooperative Committee, GSI will submit the report to DWR in accordance with the department’s requirements.



### Task 5 – Meetings

GSI has budgeted for the following meetings:

- GSA staff meetings (4), including the kickoff meeting
- Paso Basin Cooperative Committee meeting

### Task 6 – Project Management and Administration

The key individuals identified for this project will be the same individuals that successfully completed the First Annual Report, including Paul Sorensen as Project Manager and Nate Page, Managing Hydrogeologist and lead analyst. With our office in Atascadero, we can effectively apply our time and resources to the effort at hand. We will draw upon the full GSI team for expertise in specific areas of need.

## Project Scope and Budget Assumptions:

- GSAs will provide timely assistance in providing the following data:
  - Water levels for April and October 2020
  - Groundwater production data for San Miguel Community Services District, County Service Area 16, and the City of Paso Robles for WY 2020
  - Pesticide report files and land-use data from the Agricultural Commissioner’s office that will enable estimation of irrigation demand for 2020

Our scope includes:

- Four GSA staff meetings, including the kickoff meeting, lasting 2 hours each
- One Paso Basin Cooperative Committee meetings lasting 2 hours
- One set of revisions to Administrative Draft report
- One set of revisions to Public Draft report
- One set of minor revisions to Final Draft
- Submittal of Final Annual Report



# Section 3

## Staffing

The following key team members will be responsible for the on-time, on-budget delivery of project deliverables. Please see Appendix A for detailed resumes with project descriptions and references.



**Paul Sorensen, PG, CEG, CHG**  
Principal Water Resources Consultant  
Atascadero, California

**ROLE**  
Project Manager

**EXPERIENCE**  
30+ years

**EDUCATION**  
MA, Geology;  
BS, Geological  
Sciences

For more than 30 years, Paul has lived and worked in the Basin. He has not only witnessed the changes in the Basin over that period and understands how and why the changes have transpired, but has also documented those changes through numerous investigations and studies, and has worked with the local water agencies, government entities, stakeholders, and landowners to help manage groundwater resources. Since joining GSI and opening the firm's North County office in April 2016, Paul has continued to dedicate his efforts to addressing San Luis Obispo County water supply issues. For the past two and one-half years, Paul has participated at the GSA staff level on behalf of the Shandon-San Juan GSA to assist with the development and preparation of the Paso Robles Basin GSP. To compile the most recent data, assess the effectiveness of the beginning of the implementation plan, and prepare the first annual report is an extension of work that Paul and the entire GSI staff have already been performing. Paul's considerable technical expertise includes sustainable groundwater management, regional groundwater basin analyses, perennial yield and basinwide water balance calculations, groundwater quality studies, aquifer test analyses, and production well and monitoring well design and construction.

For this project, Paul will be responsible for overall project management and project administration, and will serve as the primary point of contact. He will provide oversight and guidance to the project team for all tasks described in our scope of work.



**Nate Page, PG**  
Consulting Hydrogeologist  
Atascadero, California

**ROLE**  
Data Analyst and  
Technical Lead

**EXPERIENCE**  
13 years

**EDUCATION**  
MS, Hydro-  
geophysics; BS,  
Geology

Nate's expertise includes aspects of hydrogeology and geographic information system (GIS) analysis, specifically related to groundwater supply development, groundwater basin analysis, and water resource management. He is experienced in analyzing regional groundwater basins and conducting groundwater quality studies, developing salt and nutrient management plans, supporting GSP development, conducting surface water/groundwater studies, and calculating perennial yield and basin water balance components. Nate has expertise in aquifer testing and analysis, data analysis, and numerical modeling, as well as groundwater and surface water sampling, QA/QC of laboratory water quality data, and water quality database management. He provides essential support for the development of technical memorandums, reports, GSP chapters, and other documents and has periodically assisted Paul with technical groundwater issues in the Basin. Nate also has experience in 3D geological modeling and land surveying.

For this project, Nate will serve as technical lead and data analyst for all tasks described in our scope of work. He will work closely under Paul's guidance to ensure that deliverables meet quality, budget, and schedule expectations.



# Section 4

## Fee Proposal and Schedule

### Fee Proposal

Table 1 presents a task-by-task breakdown of our proposed budget for all required services. No expenses for travel, lodging, or meals are included in our cost proposal.

Project Tasks	Labor Hours	Labor Cost	Outside Services	Direct Expenses	Total
Task 1 - Data Compilation	34	\$5,420	\$0	\$0	\$5,420
Task 2 - Data Analysis and Representation	223	\$38,365	\$0	\$0	\$38,365
Task 3 - Report Preparation	115	\$20,945	\$0	\$0	\$20,945
Task 4 - Report Submittal to DWR	4	\$700	\$0	\$0	\$700
Task 5 - Meetings	46	\$10,140	\$0	\$0	\$10,140
Task 6 - Project Management and Administration	19	\$4,320	\$0	\$0	\$4,320
<b>Project Totals</b>	<b>441</b>	<b>\$79,890</b>	<b>\$0</b>	<b>\$0</b>	<b>\$79,890</b>

### Schedule

Meeting your schedule is a top priority for the GSI team. The following schedule outlines a way to submit the final deliverable by March 31, 2021. Should any schedule deviation occur, the GSI team will address it immediately and propose a solution to the GSA staff.

Milestone Description	2020	2021		
	DEC	JAN	FEB	MAR
Notice to Proceed (12/9/2020)	●			
Kickoff Meeting (12/9/2020)	●			
Prepare Administrative Draft	■			
Administrative Draft Report to GSAs (2/3/2021)			●	
GSA Staff Review (2/3/2021 - 2/10/2021)			■	
Revise Administrative Draft Report			■	
Public Draft Posted for Review (2/17/2021)				
Public Review (2/17/2021 - 3/3/2021)			■	
Revise Public Draft				■
Draft Final posted (3/10/2021)				●
PBCC Considers Final Approval (3/17/2021)				●
Minor Revisions				■
Submittal to DWR (3/31/2021)				●

# APPENDIX A

## Resumes





## Paul Sorensen, PG, CEG, CHG

### Principal Water Resources Consultant

Paul has more than 30 years of experience managing projects related to hydrogeology and geology with specific expertise in groundwater supply, basin analysis, and water resource management. His technical expertise includes regional groundwater basin analyses, perennial yield and basinwide water balance calculations, groundwater quality studies, aquifer test analyses, and water well and monitoring well design and construction.

#### EDUCATION

MA, Geology, University of California, Santa Barbara

BS, Geological Sciences, University of Washington

#### PROFESSIONAL REGISTRATIONS

Professional Geologist: California

Certified Engineering Geologist: California

Certified Hydrogeologist: California

#### DISTINGUISHING QUALIFICATIONS

- ✓ Expertise in western U.S. water resource issues: supply, quality, and management
- ✓ Expertise in assessment of groundwater basin yield, water quality, natural recharge, and sustainability
- ✓ Experience in well design, construction, and maintenance
- ✓ Experience in groundwater exploration, development, and management
- ✓ Expertise in basinwide numerical modeling

#### REFERENCES

- **John Neil**, Atascadero Mutual Water Company, 805.466.2428, jneil@amwc.us. Projects: Atascadero Basin Groundwater Sustainability Plan (GSP); Atascadero Basin Boundary Modification Request
- **Jeff Britz**, Templeton Community Services District, 805.434.4900, jbritz@templetoncsd.org. Projects: Atascadero Basin GSP, Atascadero Basin Boundary Modification Request, Bonita Well Replacement, Creekside Ranch Nacimiento Water Project Recharge and Recovery Project.

#### REPRESENTATIVE PROJECTS

**Staff Extension Services and Hydrogeologic Expertise and Input to the Paso Robles Basin GSP, Shandon-San Juan Water District (SSJWD) and Estrella-El Pomar-Creston Water District (EPCWD), San Luis Obispo County, California.** On behalf of the two agricultural water districts in the Paso Robles Basin (Basin), Paul provides technical expertise and assistance in support of the preparation of a basinwide GSP. Paul acts as an extension of staff for the SSJWD, which is one of four GSAs in the Basin, representing the district in a working group of staff members from the four GSAs that provides guidance to the GSP consultant team regarding the development of the GSP. In his role with the districts, Paul has reviewed and assisted in the writing of all chapters and components of the GSP.

**Adjudicated Groundwater Basin Annual Report Preparation, Northern Cities Management Area Technical Group, Santa Maria Groundwater Basin, San Luis Obispo County, California.** Paul manages the preparation and submittal of the Court-mandated annual reports for the Northern Cities Management Area (composed of the Cities of Pismo Beach, Arroyo Grande, and Grover Beach, and the Oceano Community Services District). Tasks include sampling and monitoring key sentry wells in the Northern Cities area to assess potential seawater intrusion, and technical support and report preparation of quarterly and annual reporting required by the Superior Court as a result of the Santa Maria Basin litigation solution.

**Preparation of Annual Reports, Hydrogeologic Support and Planning for Water Supply, SunPower, San Luis Obispo County, California.** Paul managed hydrogeologic services for the California Valley Solar Ranch (CVSR) project to construct a 250-megawatt photovoltaic solar generation facility and associated connection tie line. The facility includes solar arrays that covers nearly 2,000 acres in the Carrizo Plain. Water supply facilities for the project include a 271,000-gallon water tank for water supply and fire safety, onsite septic system and leach field, a reverse osmosis (RO) water treatment facility to provide treated potable water, and 1.5 acres of evaporation brine ponds to dispose of RO reject water. All water for the project is groundwater; additional onsite and offsite supplies are being developed to supplement existing wells. Paul managed hydrogeologic support to meet the County's conditions of permit approval, including preparation of the Water Supply Contingency Plan, Groundwater Monitoring and Reporting Plan, Drought Water Management Plan, and Annual Reports to document compliance with permit conditions.

**Groundwater Sustainability Agency (GSA) Formation and Groundwater Sustainability Plan (GSP) Preparation, Atascadero Basin, Templeton Community Services District (TCSD), Atascadero Mutual Water Company (AMWC), Atascadero, San Luis Obispo County, California.** Working with a public agency, mutual water company, and municipality, Paul provided the key technical analyses and support during creation of the GSA and led the technical work to formally define the basin boundaries and management area. He now is leading the technical efforts for the preparation of the GSP for the Atascadero Area Subbasin. The work includes developing the geologic and hydrogeologic framework of the basin, compiling and calculating the water budget (basin water balance), and working with the GSA and California Department of Water Resources (DWR) to ensure a compelling, defensible GSP.



## Paul Sorensen, PG, CEG, CHG

### *Principal Water Resources Consultant*

**Basin Modification and Delineation/Definition of the Atascadero Subbasin, Templeton CSD, AMWC, San Luis Obispo, California.** Paul directed a detailed geologic and hydrogeologic investigation to formally define the boundaries of a groundwater basin through extensive geologic and hydrogeologic mapping and analysis and well log review. Working with DWR in advance of the issuance of the basin boundary modification regulations, he prepared a technical report and attendant maps to formally and successfully modify and redefine the DWR Bulletin 118 basin boundaries and worked with the clients to submit the request to DWR.

**Groundwater Basin Key Well Index Analysis, County of San Luis Obispo Public Works Department, San Luis Obispo County, California.** As the responsible agency for programs such as the California Statewide Groundwater Elevation Monitoring (CASGEM) and the Sustainable Groundwater Management Act (SGMA), the County of San Luis Obispo Public Works Department needed to establish a representative well index for each of the San Luis Obispo County's (County's) five medium- or high-priority basins. Paul managed the effort on behalf of GSI to evaluate the County's water elevation monitoring program, establish data collection criteria and analytical techniques to be used to understand and present the groundwater conditions and changes in groundwater supplies, and document and effectively communicate information related to aquifer conditions and threats to groundwater supplies. The result of the work was to select key representative wells within each basin that efficiently represent the relative health of each basin, without compromising the confidentiality of the well owners.

**SGMA Support Services, Mid-Kaweah GSA, Tulare, California.** As a sub-consultant to GEI Consultants, GSI provided SGMA support services to the Mid-Kaweah GSA. Paul supervised and oversaw GSI's efforts, which included coordination with and outreach to other GSAs in the Kaweah Subbasin to develop a framework for agreement regarding data and analysis techniques for assessing groundwater elevation, groundwater extraction, surface water supply, total water use, change in storage, water budget, and sustainable yield. GSI identified data needed for SGMA GSP compliance and provided additional data collection and performed subbasin-wide groundwater modeling services to provide predictive scenarios and future water budgets. GSI then conducted a sustainability analysis, consisting of a basin characterization, water budget, and identification of strategies for achieving groundwater sustainability, and provided a review of the draft Mid-Kaweah GSA-GSP outline.

**Fringe Area Basin Characterization, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo County, California.** Paul is the project principal for a characterization of the fringe areas of the Santa Maria Groundwater Basin. The project involves the hydrogeologic characterization of five geographically distinct areas that are within basin boundaries defined by the California Department of Water Resources (DWR), but were not included in the adjudicated basin area and thus are subject to SGMA management requirements. For each fringe area, GSI generated calculations of groundwater flow direction, Darcy groundwater flow quantities, well construction details, aquifer test results, and irrigated acreage. GSI developed geologic cross sections to understand the extent of hydraulic communication between the fringe areas and the adjudicated basin. As a result of these efforts, scientific Basin Boundary Modification Application requests were submitted to formally exclude three of the fringe areas from the Santa Maria Basin as non-basins, and to designate the two other areas as separate subbasins. Four of the five requests were subsequently approved by DWR.

**Characterization and Planning Activities, San Luis Obispo Valley (Edna) Groundwater Basin, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo County, California.** Paul was the project principal for the San Luis Obispo Valley Groundwater Basin Characterization project that provided a foundation for future SGMA efforts by the County, City of San Luis Obispo, and local stakeholders, as well as served as the basis for development of a groundwater model. The effort included compilation of available hydrogeologic data into a comprehensive database; analysis of geologic cross sections, aquifer tests, streamflow infiltration, and enhanced recharge areas; and monitoring well installation. Paul is now the principal SGMA advisor with the project team for the preparation and development of the basinwide GSP.





## Nate Page, PG

### Consulting Hydrogeologist

Nate has 13 years of experience working with clients to manage water resources. His expertise includes aspects of hydrogeology and geographic information system (GIS) analysis, specifically related to groundwater supply development, groundwater basin analysis, and water resource management. He is experienced in analyzing regional groundwater basins and conducting groundwater quality studies, developing salt and nutrient management plans, supporting groundwater sustainability plan (GSP) development, conducting surface water/groundwater studies, and calculating perennial yield and basin water balance components. Nate has expertise in aquifer testing and analysis, data analysis, and numerical modeling, as well as groundwater and surface water sampling, quality control of laboratory water quality data, and water quality database management. He provides essential support for the development of technical memorandums, reports, GSP chapters, and other documents.

#### EDUCATION

MS, Hydrogeophysics,  
Colorado State University

BS, Geology, St. Lawrence  
University

#### PROFESSIONAL REGISTRATIONS

Professional Geologist  
(California and Utah)

#### DISTINGUISHING QUALIFICATIONS

- ✓ Groundwater supply development and water resource management
- ✓ Groundwater basin analyses
- ✓ Sustainable Groundwater Management Act (SGMA) studies and GSP preparation
- ✓ Aquifer testing and analysis
- ✓ GIS spatial analysis and 3D geologic modeling
- ✓ Water quality database management

#### REFERENCES

- **John Neil**, Atascadero Mutual Water Company, 805.466.2428, jneil@amwc.us. Projects: Atascadero Basin GSP; Atascadero Basin Boundary Modification Request
- **Jeff Briltz**, Templeton Community Services District, 805.434.4900, jbriltz@templetoncsd.org. Projects: Atascadero Basin GSP, Atascadero Basin Boundary Modification Request

#### REPRESENTATIVE PROJECTS

**Staff Extension Services and Hydrogeologic Expertise and Input to the Paso Robles Basin GSP, Shandon-San Juan Water District (SSJWD) and Estrella-El Pomar-Creston Water District (EPCWD), San Luis Obispo County, California.** Nate has assisted with GSI's role as technical expert in support of the preparation of a basinwide GSP on behalf of the two agricultural water districts in the Paso Robles Basin (Basin). GSI staff acted as an extension of staff for the SSJWD, which is one of four GSAs in the Basin, representing the district in a working group of staff members from the four GSAs that provides guidance to the GSP consultant team regarding the development of the GSP.

**Northern Cities Management Area Annual Monitoring Reports, Cities of Arroyo Grande, Grover Beach, Pismo, and Oceano Community Services District, California.** Nate has prepared the annual monitoring report for the Northern Cities Management Area (NCMA) technical group. The reports are prepared pursuant to the requirements of the Stipulation and Judgment After Trial for the Santa Maria Groundwater Basin Adjudication. The annual reports provides an assessment of hydrologic conditions for the NCMA based on data collected during the calendar year of record.

**Santa Paula Water Recycling Facility Groundwater Modeling and Monitoring, Santa Paula, Ventura County.** Nate was part of the project team that supported all aspects of planning, monitoring well installation, well development, installation of required groundwater level transducers, hydrogeologic assessment, impacts analysis, and required reporting related to the discharge of effluent to on-site percolation ponds.

**Groundwater Sustainability Plan Development, San Luis Obispo Basin, San Luis Obispo, California.** Nate is part of the project team supporting the development of the GSP for the San Luis Obispo Basin. The GSP development is a coordinated effort with Water Systems Consultants. Nate has generated a 3D geological model of the basin and is assisting in development of the basin groundwater model.

**Groundwater Basin Boundary Modification, Heritage Ranch Community Services District, Lake Nacimiento, California.** Nate led the preparation of a successful basin boundary modification request to exclude Heritage Ranch Community Services District from the Paso Robles Basin based on scientific external boundary modification. The modification request included preparation of a technical report, correspondence and meetings with California Department of Water Resources (DWR) staff, and preparation of addendum materials.

**San Luis Obispo Basin Characterization, County of San Luis Obispo, California.** Nate was part of the project team that collected and summarized all available geologic and hydrogeologic data describing the San Luis Obispo Valley Groundwater Basin. GSI generated cross sections, hydrographs, and water level maps, and summarized all aquifer test data available from stakeholders.



## Nate Page, PG

### Consulting Hydrogeologist

**Groundwater Sustainability Plan Development, Atascadero Subbasin, Atascadero, California.** Nate is the lead analyst and author for GSI's effort to develop GSP for the Atascadero Subbasin. The GSP development is a coordinated effort with GEI Consultants. Currently, GSI is leading the coordinated effort to develop the Hydrogeologic Conceptual Model and Groundwater Conditions chapters of the GSP.

**Santa Maria Groundwater Basin Fringe Area Boundary Modification, County of San Luis Obispo, California.** Nate was part of the project team that completed characterization of five "fringe areas" in the Santa Maria Groundwater Basin to determine whether San Luis Obispo County should pursue the SGMA basin boundary modification process with the California Department of Water Resources.

**Groundwater Basin Boundary Modifications, Castaic Lake Water Agency (CLWA), Santa Clarita Valley, California.** GSI helped CLWA identify the type and location of groundwater basin boundary adjustments to meet SGMA regulations for boundary modification. Nate provided groundwater level and quality data research and analysis, GIS analysis, and figure production.

**Fringe Area Basin Characterization, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo County, California.** Nate is part of the project team working to characterize the fringe areas of the Santa Maria Groundwater Basin. The project involves the hydrogeologic characterization of five geographically distinct areas that are within basin boundaries defined by DWR, but were not included in the adjudicated basin area and thus are subject to SGMA management requirements. For each fringe area, GSI generated calculations of groundwater flow direction, Darcy groundwater flow quantities, well construction details, aquifer test results, and irrigated acreage. GSI developed geologic cross sections to understand the extent of hydraulic communication between the fringe areas and the adjudicated basin. If determined necessary based on the results of the characterization, the project will involve the preparation of a basin boundary modification request to DWR.

**Groundwater Basin Key Well Index Analysis and Data Gap Analysis, San Luis Obispo County, Public Works Department, California.** As the responsible agency for programs such as the California Statewide Groundwater Elevation Monitoring (CASGEM) and SGMA, the Public Works Department needed to establish a representative well index for each of the County's five medium- or high-priority basins. Nate supported GSI's effort to evaluate the County's water elevation monitoring program, establish data collection criteria and analytical techniques to be used to understand and present the groundwater conditions and changes in groundwater supplies, document and effectively communicate information related to aquifer conditions and threats to groundwater supplies, and to evaluate data gaps in the monitoring network.

**Historical Water Use Studies, Various Clients, California.** Nate has prepared several historical water use studies for private clients interested in establishing a record of historical water usage. These studies are used to sustain agricultural operations, help plan for the future, and bolster property values.

**Desalination Intake Wells Hydrogeologic Evaluation, City of Morro Bay, California.** Nate was a key member of the project team conducting a hydrogeologic evaluation of the existing Morro Bay desalination wells. Nate provided field oversight for instrumentation and coordination with City personnel for several long-term pumping tests and water quality sample collection. Nate also performed data reduction, including tidal response corrections, and aquifer testing analysis.

**Desalination Subsurface Intake and Indirect Potable Reuse Feasibility Study, City of Santa Barbara, California.** Nate was part of the project team conducting a study to evaluate the feasibility of several subsurface intake technologies that could be alternatives to the City's existing direct ocean intake for the desalination plant. Alternatives evaluated included conventional wells, slant wells, collector wells, beach infiltration galleries, seawater infiltration galleries, and directionally drilled wells. The study estimated yield, spacing, number of facilities required, and evaluated water quality and potential impacts. In addition, Nate helped to determine whether it is feasible to store highly treated wastewater within Santa Barbara's production aquifers through infiltration basins and injection wells, as part of an indirect potable reuse feasibility study.



**RESOLUTION NO. 2020-01****A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN MIGUEL COMMUNITY SERVICES DISTRICT AUTHORIZING THE DISTRICT TO PAY INVOICES TO THE CITY OF PASO ROBLES RELATED TO THE DEVELOPMENT OF THE WATER YEAR 2020 GSP ANNUAL REPORT FOR THE PASO ROBLES SUBBASIN IN AN AMOUNT NOT TO EXCEED \$2,700; AND AUTHORIZE THE SLO COUNTY DIRECTOR OF PUBLIC WORKS, OR DESIGNEE, TO SUBMIT ANNUAL REPORTS FOR THE PASO ROBLES SUBBASIN.**

**WHEREAS,** The four Groundwater Sustainability Agencies (GSA) in the Paso Robles Subbasin developed, adopted, and submitted a Groundwater Sustainability Plan (GSP) to the State Department of Water Resources (DWR) by the January 31, 2020 statutory deadline to comply with the requirements of the Sustainable Groundwater Management Act (SGMA); and

**WHEREAS,** The four Paso Robles Subbasin GSAs continue coordinating through the Paso Basin Cooperative Committee (Committee) and Memorandum of Agreement (MOA) under which it was established; and

**WHEREAS,** The GSAs are required to submit an annual report by April 1 each year following GSP Adoption. Annual reports are intended to provide technical information on groundwater conditions and the effects of GSP implementation over the prior water year; and

**WHEREAS,** The GSA Cooperative Committee approved a recommended budget for the GSAs that included an amount not to exceed \$80,000 for consultant costs in connection with the 2020 annual report; and

**WHEREAS,** The City of Paso Robles is designated as the contracting agent pursuant to the MOA and is responsible for hiring a consultant to prepare the Water Year 2020 GSP annual report to be submitted to the State by April 1, 2021; and

**WHEREAS,** The City of Paso Robles has received a proposal from GSI Water Solutions, Inc. to prepare the Water Year 2020 GSP annual report for a fee of \$79,890. GSI Water Solutions, Inc. is the consultant that prepared the 2019 GSP annual report and is familiar with the regulatory requirements associated with this effort; and

**WHEREAS,** The San Miguel Community Services District GSA has a responsibility to pay 3.03% of costs approved by the GSA Cooperative Committee which equate to approximately \$2,420;

**NOW THEREFORE, BE IT RESOLVED,** the Board does, hereby direct District staff to pay invoices to the City of Paso Robles for consultant costs related to the development of the Water Year 2020 GSP Annual Report for the Paso Robles Subbasin, in an amount not to exceed \$2,700, provided that the other GSAs similarly agree to pay their percentage share of said costs.

Additionally, the Board does, hereby authorize the SLO County Director of Public Works, or designee, to submit the Water Year 2020 GSP Annual Report, and future annual reports, for the

Paso Robles Subbasin on behalf, and per agreement, of the Paso Robles Subbasin GSAs provided that said reports have been approved by the affirmative vote of sixty-seven percent of the Paso Basin Cooperative Committee as described in Section 4.8 of the Memorandum of Agreement (MOA).

On the motion of Director \_\_\_\_\_, seconded by Director \_\_\_\_\_ and on the following roll call vote, to wit:

- AYES:**
- NOES:**
- ABSENT:**
- ABSTAINING:**

The foregoing Resolution is hereby passed and adopted this 19<sup>th</sup> day of November 2020.

\_\_\_\_\_  
Ashley Sangster, Board President

ATTEST:

\_\_\_\_\_  
Douglas L. White, District General Counsel





## San Miguel Community Services District

### Groundwater Sustainability Agency Staff Report

November 19, 2020

GSA AGENDA ITEM: XI - 2

**SUBJECT:** Authorize the Interim General Manager, or designee, to make application to the California Department of Water Resources to obtain a grant under the 2019 Sustainable Groundwater Management (SGM) Grant Program Implementation – Round 1 for the upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof).

---

#### **RECOMMENDATION:**

Authorize the Interim General Manager, or designee, to make application to the California Department of Water Resources to obtain a grant under the 2019 Sustainable Groundwater Management (SGM) Grant Program Implementation – Round 1 for the upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof).

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#### **BACKGROUND:**

The California Department of Water Resources (DWR) has issued a Proposal Solicitation Package (PSP) for the implementation of Groundwater Sustainability Plans (GSPs). Funding for the program will be from the Sustainable Groundwater Management (SGM) Grant Program Implementation Grants using funds authorized by the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Proposition 68). These funds can be used for eligible projects that address drought and groundwater challenges to achieve regional sustainability for investments in groundwater recharge projects with surface water, stormwater, recycled water, and other conjunctive use projects. Eligible projects include those activities associated with the implementation of an adopted GSP or approved Alternative and must also be listed within an adopted GSP or approved Alternative.

On October 22, 2020, the Board authorized the Interim General Manager to execute a contract with Monsoon Consultants, to prepare a grant application on the District’s behalf for a project which meets the Prop 68 GSP Implementation Grant Program PSP requirements and be prepared to upload the District approved application in accordance with the Round 1 submission guidelines. The grant application will identify the upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof) as the specific project to be implemented under the terms of the grant agreement.

A requirement of the Proposal Solicitation Package (PSP) is that the applicant must provide an adopted resolution that has been adopted by the applicant’s governing body designating an authorized representative to submit the application and execute an agreement with the State of California for the SGM Implementation – Round 1 or SGM Implementation – Round 2 grant application. The PSP includes an example of the resolution that must be submitted to fulfill this requirement. The DWR highly recommends this language be followed verbatim to ensure that the resolution is sufficient to execute an agreement, execute future amendments (if required), submit invoices, and submit all reporting requirements.

Resolution 2020-02 has been prepared in accordance with the PSP requirements (see attached), which if the Board concurs with staff recommendations, should be adopted.

**FUNDING:**

There is no funding required should the Board approve the recommendations stated above, including adoption of Resolution 2020-02.

**FISCAL IMPACT**

None

PREPARED BY:

APPROVED BY:

*Blaine T. Reely*

*Kelly Dodds*

Blaine T. Reely, P.E., District Engineer

Director of Utilities

Attachments:

Resolution 2020-02

**RESOLUTION NO. 2020-02**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
SAN MIGUEL COMMUNITY SERVICES DISTRICT GROUNDWATER  
SUSTAINABILITY AGENCY (GSA) AUTHORIZING THE INTERIM GENERAL  
MANAGER, OR DESIGNEE, TO MAKE APPLICATION TO THE CALIFORNIA  
DEPARTMENT OF WATER RESOURCES TO OBTAIN A GRANT UNDER THE 2019  
SUSTAINABLE GROUNDWATER MANAGEMENT (SGM) GRANT PROGRAM  
IMPLEMENTATION – ROUND 1 FOR THE UPGRADE AND EXPANSION OF THE  
DISTRICT’S MACHADO WASTEWATER TREATMENT FACILITY (WWTF) AND  
THE CONSTRUCTION OF A NEW RECYCLED WATER (“PURPLE PIPE”)  
DISTRIBUTION SYSTEM (OR A COMPONENT THEREOF)**

Resolved by the San Miguel Community Services Groundwater Sustainability Agency (GSA), that an application be made to the California Department of Water Resources to obtain a grant under the 2019 Sustainable Groundwater Management (SGM) Grant Program Implementation – Round 1 Grant pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Proposition 68) (Pub. Resource Code, § 80000 et seq.), and to enter into an agreement to receive a grant for the: upgrade and expansion of the District’s Machado Wastewater Treatment Facility (WWTF) and the construction of a new recycled water (“purple pipe”) distribution system (or a component thereof). The Interim General Manager of the San Miguel Community Services Groundwater Sustainability Agency (GSA), or designee, is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement and any future amendments (if required), submit invoices, and submit any reporting requirements with the California Department of Water Resources. Passed and adopted at a meeting of the San Miguel Community Services Groundwater Sustainability Agency on November 19, 2020.

**NOW THEREFORE, BE IT RESOLVED**, the Board does, hereby, adopt this Resolution for purposes specified herein.

On the motion of Director \_\_\_\_\_, seconded by Director \_\_\_\_\_ and on the following roll call vote, to wit:

**AYES:**

**NOES:**

**ABSENT:**

**ABSTAINING:**

The foregoing Resolution is hereby passed and adopted this 19<sup>th</sup> day of November 2020.

\_\_\_\_\_  
Ashley Sangster, Board President

ATTEST:

\_\_\_\_\_  
Douglas L. White, District General Counsel