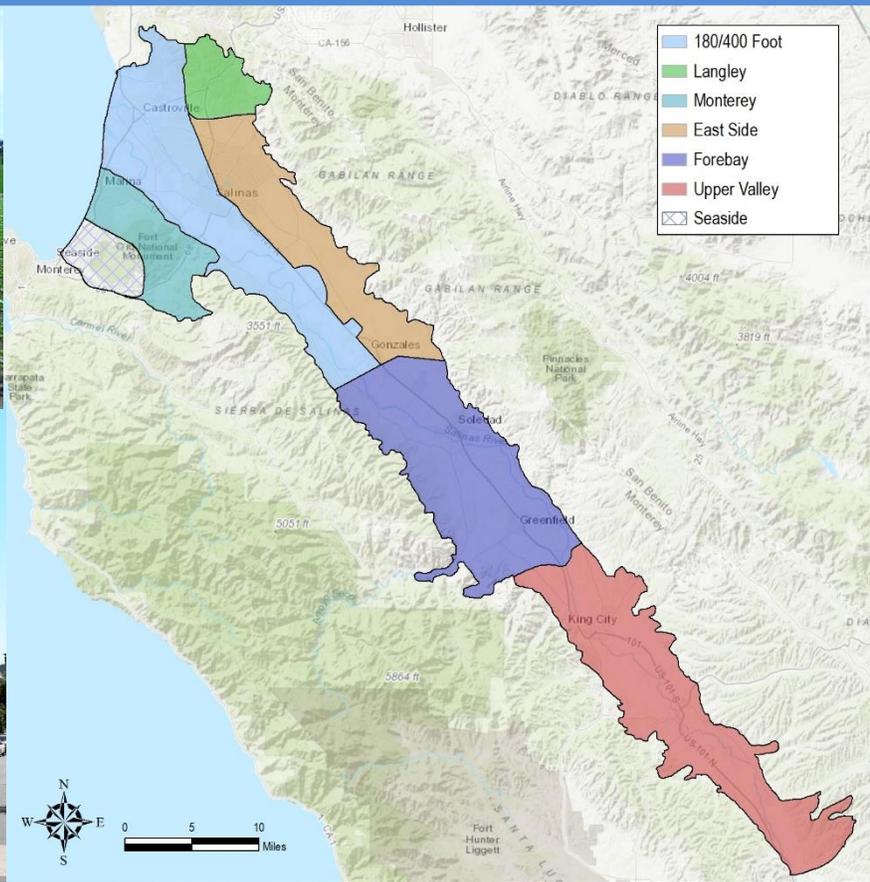


Statement of Qualifications for Groundwater Sustainability Planning Services



January 12, 2018

Prepared by:



Prepared for
**Salinas Groundwater Basin
Groundwater Sustainability Agency**



1814 Franklin St., Suite 501
Oakland, CA 94612

Mr. Gary Petersen, General Manager
Salinas Valley Basin Groundwater Sustainability Agency
c/o City of Salinas, City Clerk's Office
200 Lincoln Ave.
Salinas, CA 93901

January 11, 2018

Subject: HydroMetrics WRI Statement of Qualifications for Developing the Salinas Valley
Basin Groundwater Sustainability Plan(s), Due January 12, 2018

Mr. Petersen:

HydroMetrics Water Resources Inc. (HydroMetrics WRI) is pleased to present this proposal to the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) for developing the Salinas Valley Basin Groundwater Sustainability Plan(s) (GSP). HydroMetrics WRI is one of California's premier hydrogeology firms, specializing in providing basin-wide groundwater management since 2005, with significant expertise in statewide implementation of the Sustainable Groundwater Management Act (SGMA). We have complemented our talents with a team of highly motivated professionals with expertise tailored specifically for the needs of this project; including Geosyntec Consultants, The Wallace Group (WG), and AMEC Foster Wheeler, among others.

Our team will, in close coordination and cooperation with SVBGSA staff, board members, and advisory committee members, develop a complete and compliant GSP that provides a path to sustainability while acknowledging important property rights and retaining the agricultural vitality of the Salinas Valley Basin. Our focus is on developing a GSP that is flexible, fair to all stakeholders, and acknowledges data uncertainty. Our approach emphasizes leveraging existing data and the USGS groundwater model to develop a path to sustainability that can be verified and modified as new data become available.

We will work closely and cooperatively with the SVBGSA to develop a GSP that is:

Tailored to Local Concerns. The GSP will address local conditions and community concerns, and retain the agricultural vitality of the region.

Efficient & Compliant. We will maximize use of existing data, studies, and models to develop a GSP that is compliant with applicable regulations.

A Pathway to Sustainability. We will develop conceptual sustainability management actions and projects that extend existing programs and are basin-specific, workable, fair to all stakeholders, and affordable.

Our team is unique compared to others because:

- ✓ Our project manager is impartial, and not aligned with any stakeholders.
- ✓ We are experts on SGMA; our team is contracted to the Department of Water Resources to develop SGMA policies and develop SGMA Best Management Practice.
- ✓ Our team brings significant local technical knowledge, including over 30 years of managing groundwater in Monterey County and recent work on the USGS' Salinas Valley Hydrologic Model
- ✓ Our team is led by licensed hydrogeologists that have been managing groundwater basins for decades.

In addition to our demonstrated expertise, our team has the staff capacity and resources to work closely with the SVBGSA to draft a GSP that meets DWR requirements. The remainder of our proposal follows the required proposal format listed in the RFQ. Additionally, we have added a Project Understanding section to clarify how we will address the basin's issues in a comprehensive and efficient way.

We look forward to an opportunity to work with the GSA and other stakeholders on this project.

I certify that this proposal is valid for 90 days following submission.

Sincerely,



Derrick Williams, President
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Project Understanding

The Salinas Valley Groundwater Basin underlies one of the most productive and most important agricultural valleys in the United States. Agriculture in the Valley produces approximately \$4.5 billion of commodities per year, with the benefits to the local economy being much greater than that. Reliable and safe water supplies are critical for maintaining this abundant and vital agricultural production. The region, however, is subject to numerous water stressors that threaten the future of agricultural production.

In September, 2014, the State of California passed the Sustainable Groundwater Management ACT (SGMA). A critical provision of this act is that many groundwater basins, including basins in the Salinas Valley, must develop a Groundwater Sustainability Plan (GSP) within a given time frame. GSPs must define what a sustainable groundwater basin looks like, and demonstrate that there is a feasible approach to achieving this sustainability definition.

The SVBGSA has stepped up to draft the GSP for at least five of the seven sub-basins in the Valley. While the State has certain GSP requirements, the local objectives of the GSP are to 1) address State regulatory requirements, 2) incorporate and value the extensive body of previous work in the basin, and 3) set a course to sustainability that is integrated across the entire Salinas Valley. Our team understands that preparing the GSP is not about conducting new or expensive studies; it is about finding solutions for sustaining the groundwater benefits of the Valley.

Our understanding is that SVBGSA intends to implement SGMA with a single, Valley-wide GSP for at least five of the seven sub-basins covered by the SVBGSA. Although efficient, this approach has regulatory challenges and must acknowledge the various interests and groundwater users throughout the Valley. SVBGSA and its consultant will need to communicate to the California Department of Water Resources (DWR) how a single GSP meets DWR's GSP requirements.

We recognize that not all groundwater users and property owners suffer the same impacts from historical overdraft, and not all property owners have the same ability or obligation to fund sustainability projects. Historical overdraft has resulted in localized impacts, including seawater intrusion in the 180/400-foot aquifer sub-basin, chronic loss of groundwater storage in the Eastside sub-basin and the Forebay sub-basin, and subsidence in the Paso Robles sub-basin. To be adopted by local interests, the GSP, including resulting projects and management actions, must be focused on addressing these specific local problems. We will work closely with SVBGSA and its stakeholders to create a GSP designed to address groundwater issues in the Salinas Valley at a local scale, with simultaneously presenting a united and integrated approach to DWR.

Firm Profiles and Staff

Firm Profiles

Our team – tailored specifically for the Salinas Valley Basin GSP – comprises experts in groundwater management, hydrogeology, engineering, groundwater modeling, and data management from HydroMetrics Water Resources Inc. (WRI), Geosyntec Consultants, AMEC Foster Wheeler, and The Wallace Group. In addition, we have complemented our team with specialists in financial analyses and water markets from WestWater Research LLC. Collectively, our team offers the key attributes required for developing an effective GSP, including:

- Local experience with in-depth understanding of local concerns;
- Broad statewide experience in SGMA policy and groundwater planning and management; and
- Ample staff resources to focus on this GSP and complete it on time and within budget.

The HydroMetrics WRI team is at the forefront of developing successful groundwater management strategies in both agricultural and urban basins throughout California and the Western United States. We bring the technical capabilities needed for effective and practical GSPs and decades of experience aligning diverse and competing stakeholders for effective water resource management. We have developed integrated solutions and implemented successful multi-party groundwater management plans in basins that, similar to the Salinas Valley, have competing water users and uses. Descriptions of the individual firms are included below.

HYDROMETRICS WRI

HydroMetrics WRI is one of the few California consulting firms with groundwater as its core business. HydroMetrics WRI specializes in groundwater planning at a regional scale and implementing local groundwater projects to improve water supply reliability and sustainability. We provide targeted expertise to clients for developing, protecting, and managing both groundwater and surface water resources. We have a reputation for providing perceptive, quality analyses that yield practical solutions to water resource issues.

We have prepared several groundwater management plans under AB3030/SB1938, and have managed adjudicated groundwater basins, most prominently the Seaside Basin.

HydroMetrics WRI has been actively involved with SGMA since its inception. We have served as close advisors to the Department of Water Resources (DWR), local water agencies, local stakeholders (including growers), and non-governmental organizations such as the California Water Foundation, where we helped develop and direct statewide SGMA policy. We have led all aspects of SGMA implementation including assisting Groundwater Sustainability Agencies form, modifying groundwater basin boundaries for the Santa Margarita, Santa Cruz Mid-County, and Pajaro Valley Basins, guiding GSP development for the Santa Cruz Mid-County Basin, and creating best management practices on behalf of DWR. Our unique relationship with SGMA policy makers and

implementers allows us to effectively resolve issues on our clients' behalf.

As a statewide leader in groundwater modeling, HydroMetrics WRI has a reputation for developing and implementing practical and effective models for groundwater management. We have developed and applied groundwater models in some of California's most important agricultural, coastal, and urban basins such as the Pajaro Valley and Livermore Valley Basins.

HydroMetrics WRI is built around a culture of providing our clients the best understanding possible of their groundwater basins and partnering with them to establish and achieve groundwater management goals and objectives that are practical and effective. We pride ourselves on consistently providing value-added service that positions our clients to successfully address the challenges and complexities of integrated water management.

GEOSYNTEC CONSULTANTS

Geosyntec is a specialized consulting and engineering firm that works with public and private sector clients to address complex problems involving the environment, natural resources, and civil infrastructure. Established in 1983 as an employee-owned firm, Geosyntec has over 1,200 engineers, geologists, scientists, other technical professionals, and project support staff located in more than 80 offices throughout the U.S. and internationally. With 12 offices in California, Geosyntec's practitioners are well-respected by municipal, regional, and state entities for our ability to address the needs of multiple stakeholders through their technical rigor, collaborative approach, and their understanding of the geologic, climatic, and jurisdictional aspects of water management throughout the state.

At the center of Geosyntec's Water Management practice is a collaborative group of nationally recognized scientists and engineers dedicated to

achieving the balance between the built and natural environments. Their practice specialties represent a diverse array of disciplines, including hydrogeology, hydrology and hydraulics, geomorphology, ecology, biology, systems modelling, civil and environmental engineering, and construction management. Their scientists, engineers, and permitting specialists have experience with groundwater, surface water, stormwater and the multitude of interconnections between them at both a site and basin scale.

They work closely with their clients and their stakeholders in conceptualizing, implementing, and permitting specific project or broadly-based management programs in developed and undeveloped watersheds. Their experience spans both public and private entities and their goal is to develop a collaborative environment that focuses on technical issues and problem solutions.

THE WALLACE GROUP

Wallace Group specializes in Water Resource Engineering services. Their long history and presence in the Central California Coast has positioned them as leaders in the municipal water, stormwater, and wastewater industry. For over 30 years, they have built their reputation as a respected water resources firm through proven

projects and close-knit Client relationships. This, coupled with their expertise and depth of knowledge in the engineering, planning and administrative aspects of public works facilities, has made Wallace Group one of the leaders in water resources engineering in their region.

As a multi-disciplinary firm, those at Wallace Group have been proud to help their public agency Clients with a wide variety of projects and services. In addition to the water, stormwater and wastewater planning, design, and implementation, their Water Resources staff support local agencies in groundwater basin

management by preparing documents such as Basin Management Plans, Adaptive Management Plans, Annual Reports, and Recycled Water Plans. They serve as advisors to technical committees for long-term basin management for several basins.

AMEC FOSTER WHEELER

Amec Foster Wheeler is an environmental consulting, engineering and design, and project management company operating with more than 3,300 professionals in 90 locations across the US and more than 750 professionals in 12 California offices. They provide services to both public and private clients worldwide, serving the water, clean energy, federal, industrial, pharmaceutical, mining, oil & gas, and transportation sectors.

Amec Foster Wheeler's network of California-based groundwater specialists provides broad and diverse skill sets and perspectives to help solve water resource challenges faced by communities across the state. Their team of groundwater professionals offer decades of expertise developing and applying integrated basin-scale modeling tools to support development of long-term water resource management plans for water resource sustainability projects. They are experienced in developing and applying regional groundwater models, and linked groundwater – surface water

models for alternatives evaluation in support of regional water planning studies. They offer decades of experience collaborating with diverse stakeholder groups as well as leading, facilitating, and moderating advisory committees, groups and interagency meetings in an effective, objective, and diplomatic manner.

Their team is currently updating the Salinas Valley Watershed Model (SVWM) / Salinas Valley Integrated Hydraulic Model (SVIHM) system and great working relationships with the Monterey County Water Resources Agency, County of Monterey Planning, the U.S. Geological Survey (USGS), and stakeholders. The proposed key/lead staff have experience working with local regulatory agencies and knowledge of local environmental issues that will benefit the GSA by expediting project work, involving stakeholders, maintaining quality, and strict adherence with SGMA Best Management Practices and compliance with GSA requirements.

WESTWATER

Since its inception in 2001, WestWater Research (WestWater) has been the leading economic and financial consulting firm in the water resources industry. In particular, WestWater has unique expertise in water rights markets, including water transfers and banking. With a national practice and five offices across the United States, WestWater provides strategic planning, valuation, transaction advisory, and asset

management services relating to water resources and water rights. The firm has a reputation for rigorous analysis, and information-driven communication of findings and recommendations. This reputation has been earned through advising public, private, and non-profit sector clients on complex water rights issues since 2001.

WestWater has specialized experience in a number of areas that are critically important to groundwater sustainability including establishing groundwater allocation, developing water trading frameworks, developing water banking frameworks, and advising on

governance and funding. Staff of WestWater Research have worked closely with Dr. Mike Young at Duke University’s Nicholas Institute, and led the publication of the 2017 report *The Future of Groundwater*, which addresses SGMA among other topics.

Project Staff and Biographical Sketches

The HydroMetrics WRI team is assembled to ensure our expertise covers sustainable groundwater management from every aspect including technical groundwater expertise, organizational and institutional understanding, integrated water supply proficiency, funding, and stakeholder familiarity. Our team members are at the forefront of developing and guiding successful groundwater management strategies in both urban and agricultural basins throughout California and the Western United States. We bring the full suite of capabilities needed for effective and practical GSPs and decades of experience assisting parties to overcome differences, develop integrated solutions, and implement successful multi-party groundwater management plans in basins that, similar to the Salinas Valley Basin, have competing water users and uses. While our team members have first-hand knowledge of the Salinas Valley, we do not represent the interests of any one stakeholder, and will bring a fresh and impartial perspective to the project.

SVBGSA needs a consulting team that can adapt to project needs. For example, if discussions with DWR suggest that a single GSP is not the best approach, the HydroMetrics WRI team has ample available groundwater hydrologists and water managers familiar with SGMA to respond in a timely fashion

The following organizational chart identifies each member of the team’s staff, and demonstrates how the team is structured around the project’s functional activities. Each functional activity is led by a senior level manager.

A Team Built Around
Guiding Principles of:
Deep SGMA Understanding
Technical Excellence
Cost Control
Substantial GSA Member Engagement

Salinas Valley Basin GSAs

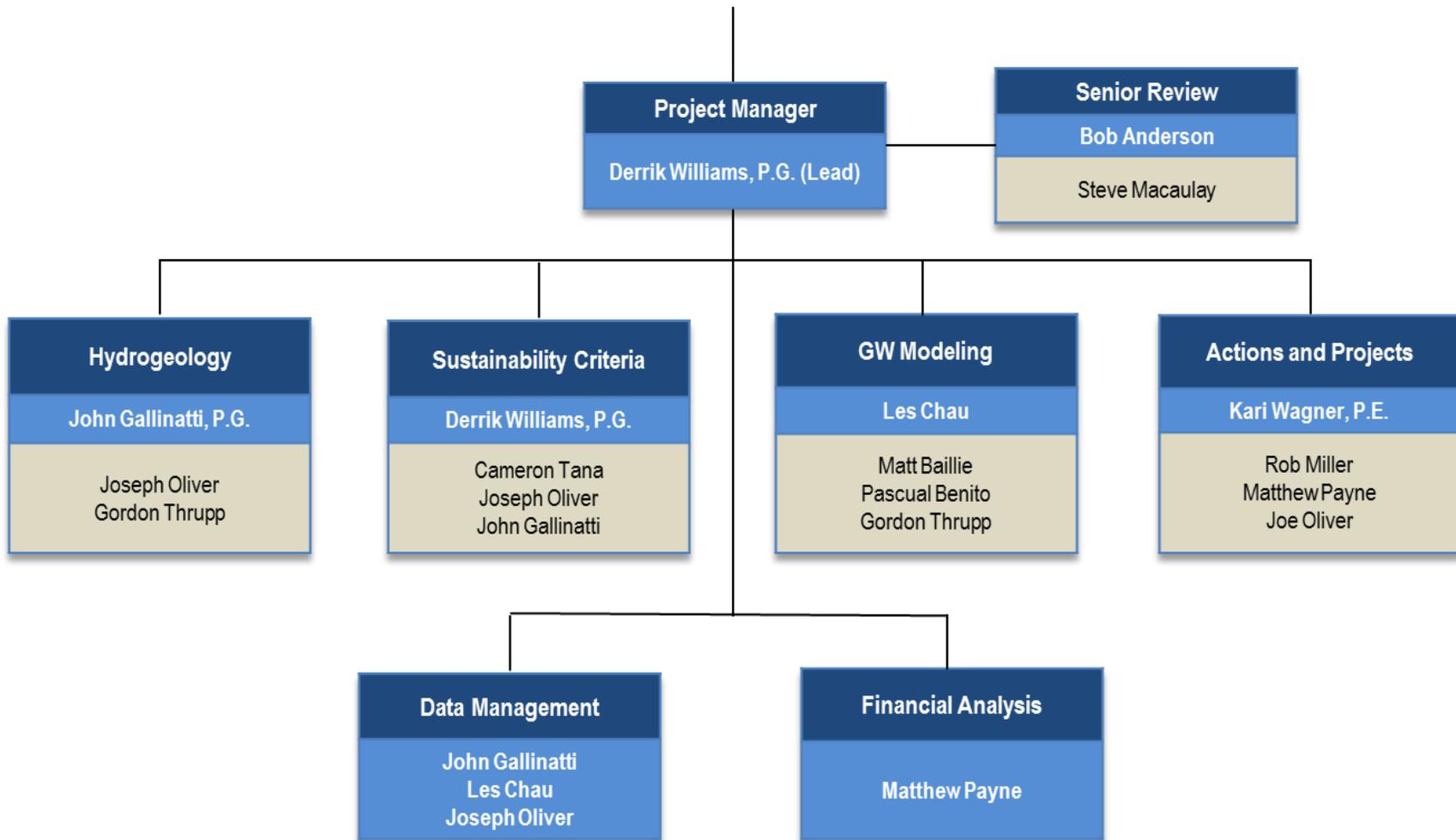


Figure 1: Organizational Chart

Short biographical sketches are included below for each of the senior task leaders and critical team members.



DERRIK WILLIAMS, P.G., C.HG.

Mr. Williams is the Project Manager. He will be in charge of all technical and management aspects of the project, and will be SVBGSA's

main point of contact. He is a California Professional Geologist and Certified Hydrogeologist, and is President of HydroMetrics WRI. Mr. Williams has more than 30 years of experience in applied geology and hydrogeology; managing, reviewing, and assisting on water supply and groundwater recharge projects. He has been retained by clients to develop Basin Management Plans in agricultural areas with contentious water right issues, and has testified in court regarding groundwater-surface water interactions.

Derrick is an established leader in statewide groundwater policy. Derrick is currently working with DWR to develop the state's SGMA implementation process and Best

Management Practices documents. As a member of the Groundwater Committee of ACWA since 2008, Derrick helped shape the California Statewide Groundwater Elevation Monitoring Program (CASGEM) and helped develop ACWA's *Groundwater Framework* document. He also drafted ACWA's *Guidelines for Groundwater Monitoring*. He currently chairs ACWA's SGMA Best Management Practices subcommittee. He was a contributor to the California Water Foundation's GSP regulations workshops. He has been invited to, and participated in, Stanford's Water in the West meetings on data and modeling in SGMA and the Groundwater Resources Association of California's Contemporary Groundwater Issues Council.

"Derrick has done an excellent job of facilitating the meetings, and incorporating GMP requirements and stakeholder concerns into the plan"
Chris Bonds/DWR



JOE OLIVER, P.G., C. HG.

Mr. Oliver of HydroMetrics WRI will lead the team's interaction with MCWRA, and provide local insight on hydrogeology and sustainability projects. Mr.

Oliver has over 38 years of experience in the field of groundwater hydrology. He was formerly the Water Resources Manager for the Monterey Peninsula Water Management District (MPWMD), where he was the principal investigator for all groundwater-resources investigations conducted by MPWMD for over two decades.

Mr. Oliver has also been involved in many aspects of water resources management in the Salinas Valley and proximal areas. This includes his participation in the Salinas River Groundwater Basin Investigation and Salinas Valley Integrated Hydrologic Model Development Technical Advisory Committee, Pajaro Valley Water Management Agency Technical Advisory Committee, Seaside Groundwater Basin Watermaster Technical Advisory Committee, and the Monterey County Hazardous Waste Advisory Committee. Mr. Oliver has served as peer reviewer on several water resource

investigations within and adjacent to the Salinas Valley, including technical elements of the Pure Water Monterey Groundwater Replenishment Project (2016), Seaside Groundwater Basin Salt & Nutrient Management Plan (2014), Monterey County General Plan update (2010), El Toro Area Groundwater Study (2007), Seaside

Groundwater Basin: Update on Water Resource Conditions (2005), coastal Salinas Valley Deep Aquifer Investigation (2003), Laguna Seca Subarea Phase III Hydrogeologic Update (2002), Hydrogeology and Water Supply of Salinas Valley White Paper (1995), and Salinas Valley Salinas Valley Integrated Groundwater Surface Water Model (1993).



CAMERON TANA, P.E.

Cameron Tana will be one of the primary developers of the Valley’s Sustainable Management Criteria. A co-founder of HydroMetrics WRI, Cameron Tana has 18

years of experience as a hydrologist focused on assisting public agencies in California manage their groundwater resources. He is experienced at communicating technical findings to advance groundwater management, taking into account legal, economic, and political challenges.

Cameron has supported SGMA implementation for the Santa Cruz Mid-County Groundwater Agency, presenting to the Mid-Santa Cruz

County Stakeholder Advisory Committee, leading the successful application to DWR to modify basin boundaries to consolidate portions of four basins into a single basin, assisting the Agency with GSA notification to the state and representing the Agency in Central Coast advisory group meetings with DWR. He has also supported the basin boundary modification and alternate submittal for the Pajaro Valley Sub-basin. He recently served as a guest instructor to the University of California Cooperative Extension short course *Introduction to Groundwater and Watershed Hydrology*, presenting on developing sustainable management criteria for seawater intrusion.



PASCUAL BENITO, PH.D.

Dr. Pascual Benito is a senior hydrogeologist at HydroMetrics WRI. He has 16 years of experience in hydrogeological characterization and analysis

with expertise in the areas of subsurface hydrology, flow and solute transport modeling, and the use of GIS and database tools for hydrogeological and geophysical data integration, analysis and visualization to support conceptual model development. He has supported local, sub-basin, and watershed scale hydrogeological aquifer characterization,

conceptual model development throughout California, Nevada, and Idaho, including groundwater basins in the California Central Coast.

Pascual is currently providing hydrogeological modeling and analysis support to Soquel Creek Water District for the Pure Water Soquel aquifer recharge project. He also served as part of a team of hydrogeologists and engineers providing technical support to the San Francisco Public Utilities Commission for groundwater storage and recovery, and groundwater supply projects in the Westside Basin located in San Francisco and San Mateo Counties.



**JOHN GALLINATTI, P.G.,
C.H.G.**

John Gallinatti will lead the hydrogeologic assessment, and assist with developing Sustainable Management Criteria. Mr. Gallinatti is a

Senior Principal Hydrogeologist at Geosyntec with more than 30 years of experience focused on quantitative hydrogeology. He has both managed and served as the lead hydrogeologist on complex projects that have required close interaction with multiple stakeholders and large

project teams. He is an expert in quantitative hydrogeologic analysis, including groundwater modeling, aquifer testing, well field design, and environmental fate of dissolved compounds. As a project manager on multi-disciplinary groundwater studies and plans, he works closely with his clients to develop strategies that balance the competing needs of certainty/reliability, transparency to third-party reviewers, and financial/schedule constraints. In addition to providing technical direction, John is diligent about project controls, budget and schedule tracking, and client communications.



**GORDON THRUPP, PH.D.,
P.G., C.H.G.**

Dr. Thrupp from Geosyntec will assist with all of the hydrogeology and groundwater modeling tasks.

Dr. Thrupp has over 26 years of experience as a consulting hydrogeologist. His technical expertise includes quantitative analysis of flow of groundwater and soil-gas. He has designed wells and hydraulic testing programs, designed and evaluated testing to estimate hydraulic and pneumatic properties, and developed groundwater flow models as tools for assessing water resources and engineering

design alternatives. Dr. Thrupp's general areas of expertise and experience include investigation of the potential for contaminant migration and evaluation of remediation and mitigation alternatives; optimization and assessment of groundwater and soil vapor extraction (SVE) wells; evaluation of contaminant fate and transport to estimate stable plume configuration; and evaluation of natural attenuation. He has also directed studies to locate and design municipal supply wells and groundwater infiltration basins. Dr. Thrupp has conducted assessments of the impact of open-pit mines on groundwater systems and predicted seepage rates into excavations for dewatering feasibility studies.



STEVE MACAULAY, P.E.

Mr. Macaulay, from Geosyntec, has career-long involvement in California Water Resources, starting in the 1970's, related to water resources management, groundwater, agricultural

water and urban water planning. Steve worked directly with DWR's Executive Office on SGMA implementation and was an author of DWR's Water Available for Replenishment document. Through this long-term engagement in a broad range of California water resources policy matters, Steve will be a valuable as-needed advisor to the team on GSP development and implementation.



LES CHAU, BCES

MR. Chau will lead all groundwater modeling tasks. Mr. Chau is a Principal Hydrogeologist at Amec Foster Wheeler with 26 years of consulting experience in

groundwater resource studies, water quality compliance projects, and water infrastructure asset management. Mr. Chau has performed six major water resources investigations in the Salinas and Carmel valleys. He is the Principal Investigator and Managing Geologist for the San Antonio Reservoir Interlake Tunnel Water Supply Investigation for the County of Monterey Water Resources Agency. Mr. Chau

is also the Principal Investigator for the State of the Basin Report Salinas as part of the Salinas Valley Groundwater Basin Investigation which started in 2014 and is a five-year investigation of long-term water supply-, drought-, and climate change-related risk assessments on water quality and supply. In this role, Mr. Chau leads a team of quantitative hydrogeologists, water rights hydrologists, and surface water hydrologists to participate in the Technical Advisory Committee and stakeholder discussions to consult on and manage activities such as data collection, groundwater pumping (i.e. new state legislation and formation of GSA), climate change impacts on water quality and supply, and seawater intrusion mitigation.



MATT BAILLIE, P.G., C. HG.

Mr. Baillie will lead climate change tasks, and assist with all groundwater modeling tasks. Mr. Baillie is a Senior Hydrogeologist at Amec Foster Wheeler with more

than 10 years of water resources consulting experience, specializing in numerical modeling, with extensive experience in the MODFLOW suite of programs. Mr. Baillie is currently the lead groundwater modeler in the San Antonio Reservoir Interlake Tunnel Water Supply Investigation for the Monterey County Water Resources Agency. Mr. Baillie acted as the Chief Technical Expert during Phase I and II work during the Salinas River Groundwater Basin Investigation. In that role, he performed extensive analyses to investigate factors that may be contributing to storage change in the

Salinas River Groundwater Basin, estimated how far out of balance the basin is, and wrote a significant portion of the State of the Basin Report, which was presented to the Agency's Board of Directors. He also represented the model development team in front of the Technical Advisory Committee for the project during initial construction of an integrated numerical groundwater-surface water interaction model, providing information and technical details to other technical experts on model tools and model development. Mr. Baillie and the model development team determined an optimal approach to the numerical model, incorporating the USGS groundwater modeling code MODFLOW-OWHM and surface water code HSPF. The modeling approach included the use of downscaled historical and projected future climate data from the USGS BCM to inform the HSPF and MODFLOW-OWHM models.



KARI WAGNER, P.E.

Ms. Wagner will lead the sustainability projects and programs tasks. Ms. Wagner is Wallace Group’s Director of Water Resources and has over 18 years of experience working as Project Engineer and Project Manager, primarily focused on utilities, water, wastewater, and storm drainage for both public and private clients. Kari specializes in assessment district engineering services, groundwater basin management, water, wastewater, and storm water planning studies, and design. Kari has engineered water mains, storage reservoirs, and booster stations, as well as water and wastewater master planning, hydraulic modeling,

assessment district formation, vulnerability assessment, and funding procurement.

Ms. Wagner has worked with numerous Public Agencies in the Monterey County, including, but not limited to the County of Monterey, Cities of Salinas, Soledad, Gonzalez, Chualar, Seaside, and Monterey and Monterey One Water. Kari has prepared or assisted with the preparation of a variety of planning documents and basin studies for the Los Osos Groundwater Basin over the past twelve years. She has also been assisting the Shandon-San Juan Water District (SSJWD) and the Estrella, El Pomar, Creston Water District (EPCWD) with the formation of their Water Districts with the purpose to become a GSA focused on serving the needs of the Agricultural Community.



ROBERT MILLER, P.E.

Mr. Miller will assist with developing water delivery projects. Mr. Miller is Wallace Group’s Principal-in-Charge of the Water Resources Department. With over 20 years of experience, Rob has built an impressive background in the field of water management. As District Engineer for the Los Osos Community Services District since 1999,

Rob helped develop that basin’s Basin Management Plan, Water Master Plan, basin-wide Urban Water Management Plan, and grant-funded seawater intrusion assessment. Mr. Miller currently serves as the interim executive director of the Basin Management Committee, which oversees the management of the Los Osos groundwater basin. He is also a technical advisor to the Edna Valley Growers who are participating in the development of a Groundwater Sustainability Plan for the San Luis Obispo Groundwater Basin.



MATTHEW PAYNE

Matt Payne is a principal with WestWater Research and leads the firm’s Southwest office in Phoenix. He is dedicated to helping public, private, and non-profit sector clients address economic, financial, and strategic challenges relating to water resources and infrastructure. His areas of expertise are water resource economics, water asset transactions, and strategic

planning and implementation. In recent years, Matt has been engaged by Arizona’s largest water provider to lead planning and implementation of the most extensive renewable water acquisition program in the United States. The program includes plans such as rotational fallowing agreements as well as reclaimed water development. In California, Matt is working with a wholesale water agency to implement a new groundwater banking program, and is leading a water transactions program for a large investor-owned utility.

Unique Qualifications

The GSP is a policy document that requires specialized expertise in hydrogeology and related water resource planning. Developing groundwater policy documents is one of HydroMetrics WRI's core strengths. Our team has developed integrated solutions and implemented successful multi-party groundwater management plans in basins that have competing conjunctive water uses and interests such as the Santa Cruz Mid-County Basin, the Kings Basin, and Squaw Valley in Placer County. The following unique attributes of our team that directly benefit SVBGSA set us apart from other teams.

OUR TEAM MEMBERS HAVE WORKED IN THE BASIN, AND WITH MCWRA

Team member Joe Oliver was formerly the chief hydrogeologist at Monterey Peninsula Water Management District, is intimately familiar with Salinas Valley hydrogeology and Bulletin 52, and has participated in the Salinas River Groundwater Basin Investigation, the Salinas Valley Integrated Hydrologic Model Development, the Salinas Valley Deep Aquifer Investigation, and the Water Supply of Salinas Valley White Paper.

Other team members include:

- Gordon Thrupp, who has evaluated El Toro groundwater resources and reviewed Salinas Valley groundwater models among other projects
- Kari Wagner, who has provided engineering services to the cities of Salinas, Soledad, Gonzalez, and Chualar.

WE UNDERSTAND SGMA

Our Project Manager, Derrik Williams, is helping DWR develop SGMA implementation policies. In particular, he helped draft Best Management Practices documents; including the recently released Sustainable Management Criteria BMP. We are in regular communication with DWR, establishing the outlines and expectations of GSPs. We understand better than any group what is needed to develop a GSP that DWR will find acceptable.

OUR GROUNDWATER MODELERS ARE CURRENTLY USING AND UPDATING THE SALINAS VALLEY HYDROLOGIC MODEL

We bring an unmatched groundwater modeling team that is the best situated to complete all of the modeling requirements. Les Chau of Amec Foster Wheeler is currently working with the US Geological Survey and MCWRA, using the USGS' Salinas Valley Model to assess adaptive management of climate change effects on reservoir operations, coastal infrastructure and water resources.

WE ARE IMPARTIAL

We are not affiliated with any one group in the Valley, nor do we have any preconceived viewpoints about the pathway to sustainability in the Valley. We bring a fresh and impartial perspective on sustainability that will enable us to objectively evaluate the complicated local water resource issues and guide the GSAs to a widely accepted GSP. We bring an ability to facilitate collaborative problem solving by equitably coordinating input from multiple stakeholders.

WE ARE GROUNDWATER FOCUSED

GSPs require an understanding of groundwater from both technical and policy viewpoints. Our team is led and staffed by professional groundwater hydrologists that have been managing basins and developing management plans for decades. Groundwater management is our passion, not simply the latest pot of money.

Proposed Scope

The SVBGSA Proposition 1 grant application provides a comprehensive list of tasks needed to complete the GSP. Therefore, our proposed scope of work is based on, and complements, the scope included in the grant application. Fundamental to our approach is avoiding unnecessary or extraneous hydrogeologic investigations. The Salinas Valley Basin needs no more study; the Basin needs to efficiently develop a plan for groundwater sustainability.

We understand that SVBGSA would like to develop a single GSA for the five sub-basins covered by the Proposition 1 grant application. Our scope and costs assume that we will produce a single GSP by January 31, 2020, however we propose that this approach be discussed with DWR staff early in the process. The single GSP will comprise:

- A single introductory section for the entire basin
- A single hydrogeologic conceptual model for the entire valley
- An integrated valley-wide water budget that includes water budgets for each sub-basin
- Separate meetings for each sub-basin to develop sustainability criteria and management actions
- Separate sustainability criteria will be set in each sub-basin
- Management actions will be set for the entire valley
- A single data management system for the entire valley

Below, we have listed each task listed in the Proposition 1 grant application, and detailed how our staff will work within these tasks to develop a GSP. We have additionally added tasks that may be necessary to develop a compliant GSP

TASK 1. GROUNDWATER SUSTAINABILITY PLAN PUBLIC OUTREACH AND STAKEHOLDER FORUMS

HydroMetrics WRI Advantage: Commitment to attend and present at all meetings provides project consistency and allows the public ample opportunity for GSP input. Experience working with facilitation consultants to plan outreach and stakeholder involvement for GSP and other groundwater management projects.

This task includes important advisory committee meetings and stakeholder forums necessary for setting groundwater management policies and communicating plan progress. These meetings are crucial for obtaining public acceptance of the GSP. As the lead consultant responsible for setting project direction and maintaining project consistency, HydroMetrics

WRI staff will attend each advisory committee meeting and public forum. HydroMetrics WRI staff will inform attendees about plan progress, identify upcoming opportunities for public or advisory committee engagement, and receive input on groundwater management policies. HydroMetrics WRI will prepare and give a short presentation at each meeting.

We assume that the communication and engagement plan will be developed by SVBGSA's existing facilitation consultant, and the HydroMetrics WRI team will only be needed to review the draft plan before it is finalized.

Staff: Derrick Williams
John Gallinatti

TASK 2. MEMORANDUM OF UNDERSTANDING WITH THE MONTEREY COUNTY WATER RESOURCES AGENCY

This is an organizational task for the SVBGSA. To control costs, we assume no consultant effort is necessary.

Staff: None

TASK 3. COORDINATE WITH MONTEREY COUNTY WATER RESOURCES AGENCY

HydroMetrics WRI Advantage: *Long-term working relationship between HydroMetrics WRI team members and MCWRA staff promotes efficient knowledge transfer to save costs on GSP technical sections.*

HydroMetrics WRI team members have a long professional relationship with MCWRA staff. Joe Oliver of HydroMetrics WRI is the former chief hydrogeologist of the nearby Monterey Peninsula Water Management District, and has been involved in numerous Salinas Valley groundwater management programs including the *Hydrogeology and Water Supply of Salinas Valley White Paper*, and *Salinas Valley Integrated Groundwater Surface Water Model*. Mr. Les Chau has been working with MCWRA to modify and update the Salinas Valley Hydrologic Model. The strong relationship between these team members and MCWRA allows our team to focus information transfer on the most important and significant data needed for the GSP.

The Proposition 1 grant application identified five meetings with MCWRA. We propose modifying the purpose of some of those meetings in order to focus each meeting more directly on gathering information that can be directly incorporated into the GSP. Our team can easily eliminate the meetings relating to past groundwater management activities and the groundwater model, because our team members already have that knowledge. We do not need to be brought up to speed on MCWRA’s history. Before each meeting, the HydroMetrics WRI team will identify what information is needed for the GSP. Our team will provide MCWRA with a list of information and data we would like to get from the meeting. In this way, each meeting will be efficiently run to obtain information that is directly relevant to the GSP.

Staff: Joe Oliver, Les Chau, Gordon Thrupp

TASK 4. DEVELOP INTRABASIN COORDINATION AGREEMENTS

HydroMetrics WRI Advantage: *Our Project Manager, Derik Williams, is currently helping DWR develop intrabasin coordination agreement requirements.*

HydroMetrics WRI role on this task is to facilitate coordination agreements and provide advice that protects SVBGSA’s interests. We will do this by providing technical and policy support to SVBGSA as it develops its coordination agreements. In particular, the coordination agreements must demonstrate a

united hydrologic conceptual model and water budget for each basin, supplied by HydroMetrics WRI. Additionally, we will review and comment on any aspects of the agreements that may impact SVBGSA’s responsibilities or ability to achieve sustainability.

Staff: Derrik Williams, John Gallinatti, Cameron Tana

TASK 5. DEVELOP INTERBASIN AGREEMENTS

HydroMetrics WRI Advantage: *Our existing relationships with adjacent basins will avoid the necessity of formal inter-basin agreements.*

Inter-Basin agreements are not required by SGMA, but SGMA does require that GSPs “not adversely affect an adjacent basin’s ability to implement its Plan”. We suggest that formal inter-basin agreements only be initiated if necessary. More productive will be informal coordination meetings with Pajaro Valley Water Management Agency (PVWMA) and the Seaside Basin Watermaster. During these meetings, we will agree on how the basins hope to be managed, and agree to mutually acceptable groundwater conditions at basin boundaries. The ultimate goal of these meetings is to obtain letters from PVWMA and the Seaside Basin Watermaster that can be included as appendices to the GSP, stating that

the GSP does not interfere with their ability to achieve sustainability. HydroMetrics WRI currently has contracts with both PVWMA and the Seaside Basin Watermaster, allowing our team to understand the issues on both sides of the basin boundary and facilitate inter-basin coordination meetings.

The Proposition 1 grant application lists the San Luis Obispo County GSAs as needing an inter-basin coordination agreement. We assume that the SVBGSA will be party to the single GSP in the Paso Robles sub-basin, and therefore no inter-basin agreement will be needed for this area.

Staff: Derrick Williams, John Gallinatti, Cameron Tana

TASK 6. DEVELOP GSA BYLAWS

This is an organizational task for the SVBGSA. To control costs, we assume no consultant effort is necessary.

Staff: None

TASK 7. DEVELOP FUNDING MECHANISM FOR SVBGSA OPERATIONS

HydroMetrics WRI Advantage: *Provide support on technical aspects of Proposition 218 funding process.*

The general concepts and approaches to funding must be developed by local interests with local input to ensure broad support for the funding. The HydroMetrics WRI team’s role will be to provide crucial engineering support

to the local interests as they develop funding mechanisms. We have experience designing funding mechanisms and developing engineers reports for Proposition 218 funding, and our team is well prepared to take on this effort.

Staff: Matt Payne, John Gallinatti, Cameron Tana

TASK 8. INCORPORATE FUTURE CLIMATE CHANGE SCENARIO

HydroMetrics WRI Advantage: *Team members are already developing the climate change data needed for SGMA tasks.*

Climate change in SGMA is implemented to develop a likely future water budget, and to prove GSP resilience under variable climate conditions. It is closely connected to Task 9: *Complete and Use Salinas Valley Integrated Hydrologic Model*. HydroMetrics WRI team

member AMEC Foster Wheeler is a member of the group working on this model, and will have immediate access to the climate change information as it becomes available.

Staff: Les Chau, Matt Baillie, Pascual Benito, Gordon Thrupp

TASK 9. COMPLETE AND USE SALINAS VALLEY INTEGRATED HYDROLOGIC MODEL

HydroMetrics WRI Advantage: *Team members are already updating the Salinas Valley Integrated Hydrologic Model, and have unparalleled familiarity with the model. Our modeling is limited in order to maintain the GSP schedule.*

The Salinas Valley Integrated Hydrologic Model will be a critical tool for demonstrating how the Valley plans to achieve sustainability. Our team member, AMEC Foster Wheeler, is currently using the model under contract to MCWRA, and brings an unparalleled understanding of how the model works. This will save SVBGSA time and effort in getting up to speed on the model.

We propose conducting early meetings between our modeling staff and SVBGSA Board members to identify the necessary SGMA requirements for the hydrologic model. Our team will focus on getting the model to a state

where all parties agree it can be used for SGMA decisions, even if some uncertainties remain about the model. This will allow us to focus our resources efficiently, and prevent bottlenecks in the GSP schedule.

The HydroMetrics WRI team realizes that the model is only useful if stakeholders understand and agree to the model’s assumptions. Crucial to obtaining stakeholder agreement are assumptions about future cropping patterns and water requirements for these crops. Our team is committed to conducting multiple stakeholder outreach meetings, in association with the SVBGSA’s facilitation contractor, to obtain broad acceptance on our assumptions for future agricultural water use in the Valley.

Staff: Les Chau, Matt Baillie, Pascual Benito, Gordon Thrupp

TASK 10. PLAN AREA AND BASIN SETTING

HydroMetrics WRI Advantage: *Knowing what DWR views as important in a GSP allows us to spend limited effort on this item, which does not impact sustainability.*

The basin setting section of a GSP requires: 1) describing the hydrogeologic conceptual model, 2) documenting the current conditions

of the groundwater basin, and 3) quantifying historical, current, and future water budgets. This task covers the first two items of this section. The Basin Setting chapter of the GSP is technically important, but does not inform sustainability policies; and there is very limited benefit from a SGMA perspective to revising

the exiting hydrogeologic conceptual model. Therefore, our approach is to accept MCWRA’s interpretations of the hydrogeologic conceptual model to the degree possible. We will leverage easily obtainable data to produce the required maps and cross-sections that may not exist.

Staff: John Gallinatti, Joe Oliver, Gordon Thrupp

TASK 11. WATER BUDGETS

HydroMetrics WRI Advantage: Our plan to extract the water budget from the model yields simplicity and consistency with the entire GSP.

The HydroMetrics WRI team proposes that the sub-basins and basin-wide water budget be extracted from the groundwater model. This has three advantages. First, this approach is simple and saves effort. Second, the water

budget will be consistent with the model analyses used to demonstrate sustainability. Third, this will facilitate more refined analyses for each sub-basin if required by DWR .

Staff: Les Chau, Gordon Thrupp

TASK 12. ESTABLISHMENT OF BASIN SUSTAINABILITY CRITERIA

HydroMetrics WRI Advantage: Our Project Manager drafted DWR’s Best Management Practice for developing Sustainable Management Criteria, and has an unrivaled understanding of the process.

This is one of the most crucial tasks in developing a GSP. The sustainability criteria define the groundwater conditions the SVBGSA must achieve. While DWR anticipates that GSPs will include uncertainty in the basin description and water budget, DWR expects all GSPs to have clearly stated and factually supported sustainability criteria. Because of its importance, the HydroMetrics WRI team suggests SVBGSA put more effort into this task than suggested by the Proposition 1 grant application budget.

We will start by holding meetings for the SVBGSA board members, the advisory committee, and other interested parties to clarify the terminology and process for setting sustainable management criteria. Following the introductory meetings, Sustainability Criteria will be developed through a structured, iterative procedure. This procedure, demonstrated as a series of numbered steps in Figure 2, iterates between developing Minimum Thresholds, Undesirable Results, Measurable Objectives, and other related concepts.

Staff: Derrik Williams, Cameron Tana, Joe Oliver, John Gallinatti

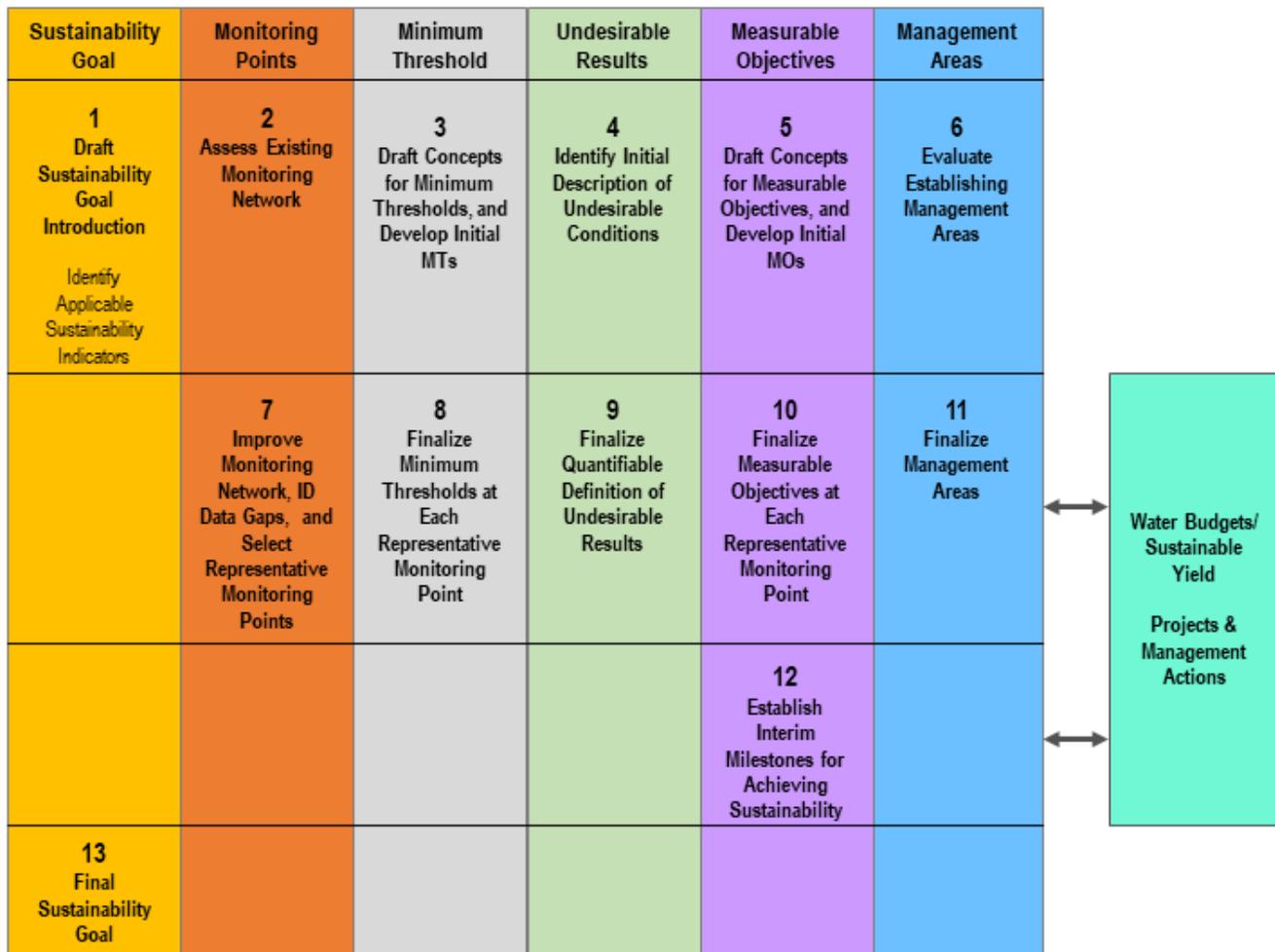


Figure 2: Sustainable Management Criteria Steps

TASK 13. EVALUATE MONITORING NETWORK

HydroMetrics WRI Advantage: Our team’s approach controls both present and future costs by designing the monitoring network for specific and clear purposes.

Evaluating the monitoring network is a key step in developing the Sustainable Management Criteria, as shown on Figure 2. The monitoring network must be sufficient to demonstrate no undesirable results are occurring, but does not need to be expanded simply for the sake of collecting additional data. Our proposed monitoring network must be complete, while

simultaneously respecting land owner’s rights. To the degree possible, the monitoring network will be based on MCWRA’s existing monitoring network, and will incorporate MCWRA’s existing monitoring protocols. The monitoring network would only be expanded beyond the current network if necessary to prove sustainability.

Staff: John Gallinatti, Gordon Thrupp, Joe Oliver

TASK 14. MANAGEMENT ACTIONS

HydroMetrics WRI Advantage: HydroMetrics WRI's Joe Oliver has been involved in many of the Salinas Valley groundwater management actions over the last 30 years.

Along with the Sustainable Management Criteria (Task 12), this task is one of the most important tasks in GSP development. The management actions set out the activities SVBGSA must undertake and fund for at least 20 years.

We will start by holding meetings for the SVBGSA Board members, the advisory committee, and other interested parties to brainstorm which management actions may be viable. This is important to establish the scale of what will be acceptable to all parties. Subsequent meetings will be held in each sub-

basin to receive input on which actions are acceptable. Developing management actions will be led by staff members that bring extensive experience with Salinas Valley hydrogeology and water supply, including significant knowledge of Bulletin 52. It may be necessary to develop water allocations and potentially a water marketing system to achieve sustainability. Our team includes WestWater, a national leader in developing groundwater allocations and markets. Additionally, we suggest that groundwater attorneys present to the SVBGSA Board early in the process to ensure that everybody understands the legal context in which we develop water allocations.

Staff: Kari Wagner, Joe Oliver, Rob Miller, Matt Payne

TASK 15. DEFINE PLAN IMPLEMENTATION ACTIONS

This section of the GSP demonstrates to DWR that the SVBGSA is committed to implementing the GSP. We will develop an implementation schedule, and identify the funding stream for the projects. We will additionally develop outlines and formats for annual reports to DWR, as well as five-year update reports. We will include a discussion of the funding

mechanisms developed in Task 7 to emphasize that SVBGSA has the financial resources for implementing the GSP.

Staff: Derrick Williams, John Gallinatti, Cameron Tana

TASK 16. DRAFT AND FINAL GSPS

HydroMetrics WRI Advantage: HydroMetrics WRI produces GSP sections throughout the GSP process to get stakeholder input and acceptance for each part of the GSP.

While the Proposition 1 grant application requests over \$800,000 for technical consultant work on this task, our approach is to spend less on this task, and spread the GSP writing throughout the GSP development process. Each section of the GSP will be written as the

work is performed, and drafts will be made available for review by the SVBGSA Board, advisory committee, and public. This approach allows all interested parties to follow the logic and progress of the GSP as it is developed, rather than digest the entire GSP at the end of the project.

Staff: Derrick Williams, John Gallinatti, Cameron Tana

TASK 17. GRANT ADMINISTRATION

This is an organizational task for the SVBGSA. To control costs, we assume no consultant effort is necessary.

Staff: None

NEW TASK: COLLECT ADDITIONAL DATA

While much of the groundwater data necessary for developing the GSP will be provided by MCWRA, additional sources of data will be necessary including statewide data sets and potentially data from Valley landowners. These

data may include crop information, geologic information, or climate data such as rainfall.

Staff: Matt Baillie, Joe Oliver

NEW TASK: DATA MANAGEMENT SYSTEM

GSP regulations § 352.6 require development and maintenance of a data management system (DMS) capable of storing and reporting information relevant to development or implementation of the GSP. This task is necessary to meet the GSP requirements. The data management system will be built in phases, starting with necessary elements and adding additional elements as they are needed – this approach will control costs and result in a more effective data management system. This task may include a number of subtasks including preparing a data management plan, designing and populating a data management system, and delivering and deploying the DMS.

Anticipated data types include: water quality, groundwater levels, surface water flow, groundwater recharge, and others. All data will be collected from the recommended SGMA Monitoring Network. DWR will develop a web portal for submission of data required by SGMA and collected by the GSA, and we will ensure that the DMS transmits data smoothly to DWR.

Staff: John Gallinatti, Pascual Benito

NEW TASK: DEFINE MANAGEMENT AREAS

Management areas may allow differing management practices or funding mechanisms in various areas of the Salinas Valley. As part of this task, we will meet with the SVBGSA Board to present and clarify the benefits and difficulties of setting up management areas. Should the Board opt to set up management areas, we will establish them and describe them as required in the regulations; including the

reason for the creating each area, the rationale for sustainability criteria in each area, the level of monitoring and analysis, and how the management areas will not cause undesirable results outside the management area.

Staff: Derrick Williams, Cameron Tana

Schedule

Our proposed schedule is shown on Figure 3. This schedule shows only the tasks from the scope of work that entail work by the HydroMetrics WRI team. The schedule incorporates HydroMetrics WRI’s approach to developing the GSP including:

- A rapid start with early multiple meetings to familiarize all parties with the GSP process.
- Significant efforts in the tasks we know DWR considers critical
- GSP completion in time for the required 90-day notification
- Acknowledging the relationships between various tasks (vertical lines)

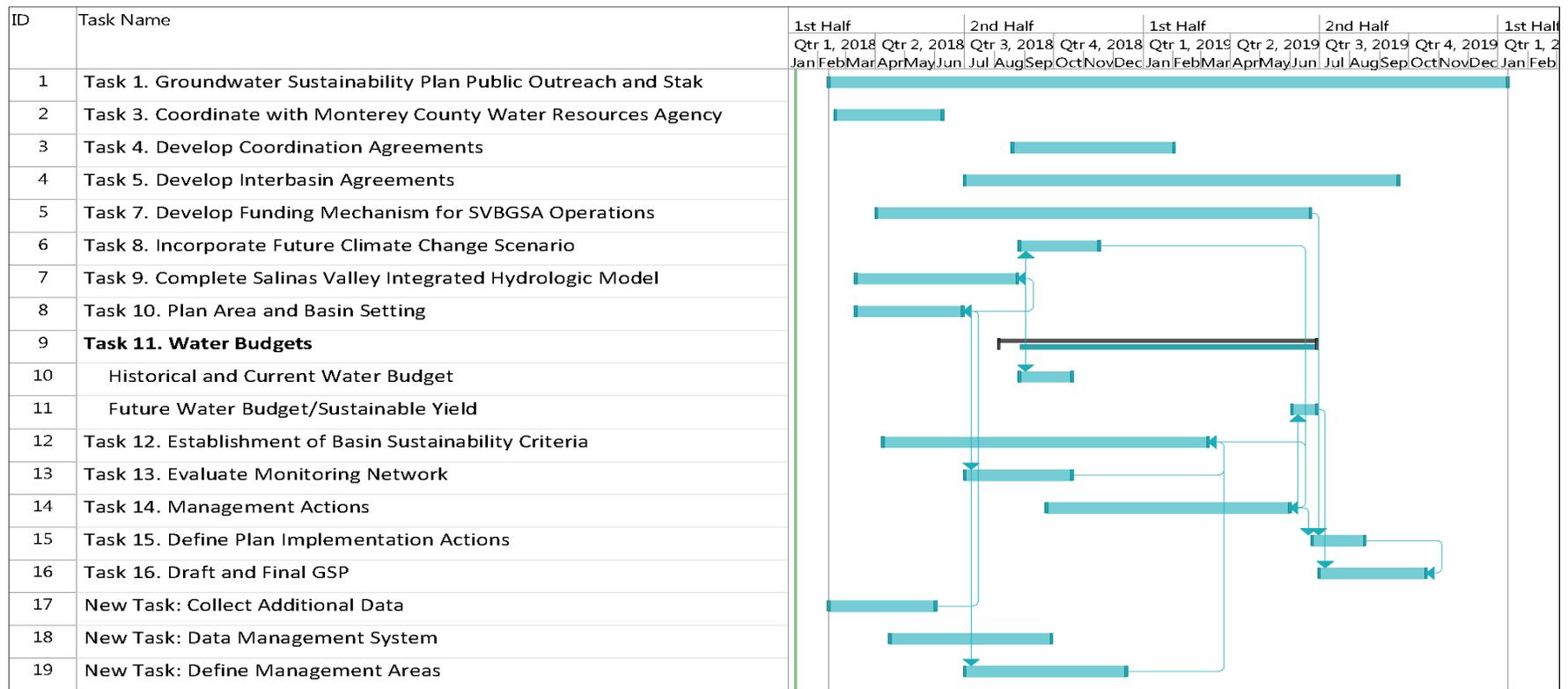


Figure 3: GSP Development Schedule

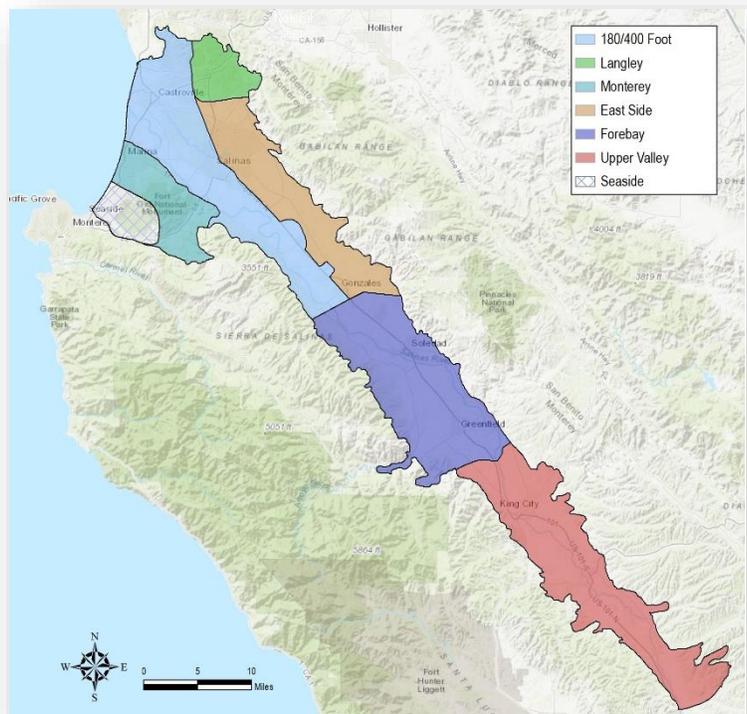
Unique Conditions and Solutions

The Salinas Valley Basin has a number of unique conditions that may influence how GSP(s) are developed. Below, we list a number of unique conditions, along with solutions for how the HydroMetrics WRI team will address them.

- **Multiple Sub-basins.**

HydroMetrics WRI will address unanswered questions about how GSPs for all seven sub-basins must be developed.

It is not clear if every sub-basin requires a separate geologic description, hydrogeologic conceptual model, water budget, statement of undesirable conditions, etc. Furthermore, it is unclear whether each sub-basin will require a separate GSP. We have structured our proposal assuming a single GSP. We propose meetings with DWR in the first weeks of the project to agree on the GSP requirements, and clearly define when the GSP(s) must be submitted. Should multiple GSPs be required, we will work with SVBGSA to stay within their budget until additional funding sources can be procured.



- **Limited Time. HydroMetrics WRI will balance the cost of developing GSPs with the required GSP submittal dates.** GSPs for two of the seven sub-basins are due in 2020. GSPs for the other five basins are due in 2022. The RFQ requests a single GSP due in 2020. While this reduces the number of reports, and likely results in cost savings, it may be advantageous to allow SVBGSA members until 2022 to define sustainable management criteria and management actions for the five basins with 2022 submittal dates. If this is the approach is taken, HydroMetrics WRI will support SVBGSA on obtaining funds for these five additional reports.

- **Multiple GSAs in the Salinas Valley. HydroMetrics WRI will promote cooperative integration with other GSAs.** The level of integration with other GSAs will depend on whether one or multiple GSPs are required. No matter what level is required, all GSAs must have the ultimate goal of reaching sustainability. Therefore, HydroMetrics WRI envisions a strong, cooperative relationship with other GSAs to agree upon fair and equitable approaches to sustainability

- **Historical Misgivings about Basin-Wide Management.** HydroMetrics WRI staff have first-hand knowledge of the Valley's extended history of water management disagreement. The Salinas Valley has many different and unique subareas, and the history of disagreement among residents of the various subareas cannot be avoided. As an example, Bulletin 52 was drafted in 1949 and has still not been fully implemented. Our staff members, particularly Joe Oliver and Les Chau, have extensive historical knowledge of these differences. Our team is committed to balancing our knowledge of the disagreements with our commitment to not letting that history delay our completion of the GSPs.

Overall, HydroMetrics WRI's approach is to address many of these unique conditions early in the project by developing a clear plan for how many GSPs will be developed for the seven sub-basins, how these GSPs will be integrated, and how the coordination agreements will be designed. Additionally, we are committed to taking part in all the public meetings necessary to achieve acceptance of the GSP process and to partially overcome the historical distrust in the Valley.

References

Table 1 lists selected examples of projects our team has completed that demonstrate our experience with each of the key requirements for the Salinas Valley Basin GSP project. Following Table 1, we have included four references demonstrating expertise in similar work.

Table 1: Representative Project Experience

Project	GW Model	GW Mgmt.	Multi-Party	SGMA Related	Local	Ag. Basin
Kings Basin Groundwater Model	✓	✓	✓	✓		✓
Kern County Model Review	✓	✓	✓			✓
DWR SGMA Implementation				✓		
San Luis Obispo GSA Guidance		✓		✓		✓
Santa Cruz GSA/GSP Support		✓	✓	✓		
Borrego GSP	✓	✓	✓	✓		
South Fork Kings GSP	✓	✓	✓	✓		✓
LADWP Liaison for Santa Monica GSP		✓	✓	✓		
Salinas River Groundwater Basin Investigation, State of the Basin Report		✓	✓		✓	✓
Hydrostratigraphic Studies and Seawater Intrusion Assessment, Northern Salinas Valley		✓			✓	
Three Successful Basin Boundary Modifications				✓		
Livermore Valley Groundwater Model	✓	✓				✓
Seaside Basin Groundwater Model	✓	✓				
Santa Cruz Mid-County Groundwater Model	✓	✓		✓		
Pajaro Valley Groundwater Model	✓	✓				✓
Tulare Irrigation District Recharge Study		✓				✓
Santa Clara Zone of Benefit Study		✓	✓			
Ventura County GW Model Improvements	✓	✓				✓
Paso Robles Sub-Basin Groundwater Management Plan		✓				✓
Los Osos Groundwater Basin Management		✓	✓	✓		
Nipomo Groundwater Basin Management		✓	✓	✓		✓
San Luis Obispo Groundwater Basin Management		✓	✓	✓		✓

SANTA CRUZ MID-COUNTY GSA/GSP SUPPORT

Client Ms. Rosemary Menard
and Contact: City of Santa Cruz
212 Locust Street, Suite A
Santa Cruz, CA. 95060
(831) 420-5205

HydroMetrics WRI currently supplies GSP development technical and policy support to the Santa Cruz Mid-County GSA. HydroMetrics WRI earlier provided technical assistance to the GSA formation committee during the GSA formation process. Based on HydroMetrics WRI's input, all of the signatories to the GSA clearly understood the basins conditions, and each individual GSA members contribution to the basin condition. At the same time, HydroMetrics WRI successfully applied for a basin boundary modification; combining parts of four basins into a single basin and excluding fringe areas of the basin that do not impact groundwater management.

HydroMetrics WRI is currently guiding the newly formed GSA through the GSP process. HydroMetrics has guided both the GSA and interested stakeholders through the state of the basin; and introduced the basics of Sustainable Management Criteria. HydroMetrics WRI is currently working with the GSA to map out the decisions that must be made over the next two years. Included in this ongoing contract is assistance developing the sustainable management criteria, assistance defining the state of the basin, and groundwater modeling to assess the impacts of various groundwater management projects or actions. The result of this project will be a fully compliant GSP for the Santa Cruz mid-County Basin.

DWR SGMA IMPLEMENTATION

Client Mr. Trevor Joseph
and Contact: Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236
(916) 651-9218

HydroMetrics WRI is part of the consulting team that is working with and guiding DWR as it implements SGMA legislation and regulations. Team member GEI is the lead consultant on this team. This project gives both GEI and HydroMetrics WRI unequalled access to DWR's thought process, concerns, and insights on GSP development.

Significant activities that have been undertaken as part of this contract include drafting and developing the best management practices for implementing SGMA; developing tools for DWR to accept data and GSPs as they are delivered by various GSAs, strategizing on identifying the most important and critical parts of a GSP, and working with DWR to develop the data sets and information that GSAs can use in their GSPs. As part of this contract, Mr. Williams meets with DWR regularly to formulate statewide SGMA policy and draft policy documents.

MODELING OF THE NACIMIENTO – SAN ANTONIO INTERLAKE TUNNEL

Client Mr. Howard B. Franklin, PG,
and Contact: Senior Hydrologist
Monterey County Water Resources Agency
893 Blanco Circle
Salinas, CA 93901
(831) 755-4860

Amec Foster Wheeler was selected to provide Hydrogeologic Modeling Services in support of the Monterey County Water Resources Agency’s Nacimiento – San Antonio Interlake Tunnel and San Antonio Spillway Modification Project and for Salinas River groundwater basin water resources management. Amec Foster Wheeler will work with the US Geological Survey and MCWRA in utilizing modeling tools to assess adaptive management climate change effects on coastal infrastructure and water resources, environmental planning, and operations of existing and future Salinas Valley water augmentation (engineering) projects.

The intended outcome of the project is that groundwater and surface water will conjunctively supply up to 90 percent of the agricultural need in the Salinas Valley. The modeling is important in assessing: 1) climate effects on water supply, 2) flood control measures along the Salinas River, 3) seawater intrusion into the coastal groundwater supply, and 4) sustainable groundwater supply and quality for local diversions.

GSP FOR TULARE GROUNDWATER BASIN (SOUTH FORK KINGS GSA)

Client Mr. Eric Osterling
and Contact: Program Manager
Kings River Conservation District
4886 East Jensen Avenue
Fresno, CA 93725
(559) 237-5567

Geosyntec is the prime consultant, for the South Fork Kings GSA development of a GSP in the Tulare Groundwater Basin. To date, the Geosyntec Team has developed a financial strategy for funding the GSP via Proposition 218 and prepared an assessment of existing data SFKGSA portion of Tulare Basin.

Disclosures

HydroMetrics WRI is proud that it has never in its 12 years of existence been the subject of any litigation, arbitration or claims proceedings.

The Wallace Group reports the following claims from the last five years:

Claimant	Event	Claim No	Notice Date	Status	As of date
Darlene Prebyl	Spill due to massive storm flooding. Claim was negotiated and settled	ACE #JY12J0561649	11/1/2012	Closed	9/17/2014
Alan Hancock Community College	Civil Engineering subconsultant brought into a claim against an architect	ACE #115412	3/14/14 Re-opened 2/4/16	Open	11/28/2017
Paul Sawko	Lift station design concerns for Pismo Heights	ACE #JY15J0210639	4/22/2015	Closed	11/29/2016

Amec Foster Wheeler is a large international service company and as such, there are inevitably disputes arising from time to time. While details of these disputes are confidential, we can confirm that there are no disputes or litigation of any kind that individually or collectively will have a material effect upon the quality of Amec Foster Wheeler's performance and its ability to provide services for this contract. Amec Foster Wheeler has never failed to complete a project for which it was paid by the client. From time to time, the Company's clients have suspended or terminated projects for their convenience.

Geosyntec Consultants, Inc. has not been named in any legal proceedings, arbitration, complaints or court actions in the last three years relating to a project.

WestWater has had no legal proceedings filed against it.

Conflict of Interest

The HydroMetrics WRI team does not have any conflicts of interest that prevent us from providing impartial, fair, and unbiased services. In the interest of complete transparency, we have listed below local groups to which we are currently under contract.

Seaside Basin Watermaster (adjacent basin). HydroMetrics WRI provides groundwater consulting and modeling services to the Seaside Basin Watermaster. We have contacted the Seaside Basin Watermaster, and they do not consider working for the SVBGSA a conflict of interest.

Monterey County Water Resources Agency. AMEC Foster Wheeler is currently revising and updating the Salinas Valley Hydrologic Model for MCWRA. This benefits the SVBGSA by having a team member that is already familiar with the basin model. However, to ensure there is no perceived conflict of interest, AMEC Foster Wheeler's project role is limited to technical work. They are not involved in setting policies or sustainable management criteria.

Pajaro Valley Water Management Agency (adjacent basin). HydroMetrics WRI has a contract for providing on-call SGMA advice to the Pajaro Valley Water Management Agency. The agency has submitted an Alternative Submittal, and hopes to be exempt from developing a GSP. Therefore, there would be no conflict of interest.

Proposing on Paso Robles GSP (adjacent basin). HydroMetrics WRI has submitted a proposal to the Paso Robles basin GSAs to develop that Paso Robles basin GSP. This contract has not been awarded.

HydroMetrics WRI has checked with all other subconsultants on this project, and has been assured that there are no other conflicts of interest.