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10 October 2013

SENT VIA EMAIL

Mr. Chris Lee
Principal Water Resources Specialist
Solano County Water Agency
810 Vaca Valley Parkway, Suite 203
Vacaville, CA 95688

Subject: Proposal for Assistance in Administering the Westside Integrated Regional Water Management (IRWM) Plan

Dear Chris:

Kennedy/Jenks Consultants (Kennedy/Jenks) is pleased to submit to the Westside IRWM Coordinating Committee (CC) this proposal to assist in the administration of the Westside IRWM Plan for the 2013-2014 Fiscal Year (FY). Our team, led by Sachi Itagaki, Project Manager, prepared the Westside IRWM Plan under the original budget, on-schedule, and with broad stakeholder support. Therefore, we plan to continue to use the same proven team resources, summarized later in this proposal, to assist the Westside CC with implementation of this important plan for the Region. In addition to the Westside IRWM Plan, our team has prepared or is preparing IRWM Plans for six other Regional Water Management Groups throughout California, as described in the attachment to this proposal, which demonstrates our strong working knowledge of the IRWM planning and implementation process. We are also very experienced in providing technical assistance, grant application development and administration, stakeholder meeting facilitation and support, data management, public outreach, funding tracking and support, and administrative support for IRWM regions and large stakeholder groups.

Project Understanding and Approach

As occurred during the preparation of the Westside IRWM Plan, the Westside CC were active participants in the IRWM Plan preparation, and are now committed to continuing to lead and participate in the implementation of the Westside IRWM Plan. Activities and focus topics for IRWM Plan implementation for FY 2013-2014 are outlined in Table 11-1 and Section 11.5 of the IRWM Plan. We understand that this proposal will support the Westside CC in these activities in five areas as follows:

Mr. Chris Lee, Principal Water Resources Specialist
Solano County Water District
Page 2

Task 1: Meeting/Facilitation Support

Task 2: Public Outreach

Task 3: Data Management

Task 4: Funding Updates

Task 5: Other Support Duties

The scope of work that follows details the activities in each of these tasks.

Our approach to provide this support is to use a balance of experienced resources and to follow the practices implemented in the successful development of the Westside IRWM Plan namely:

- Use of collaborative meetings/conference calls to prepare agendas and materials for meeting with a focus on issues requiring timely response (e.g. funding opportunities, response to policy issues, etc.)
- Distribution of meeting materials at least one week prior to the meeting through e-mail notification and web posting.
- Documenting and conducting meeting follow-up and tracking that action items are completed.

Scope of Work

The following task descriptions detail our approach to the IRWM Plan implementation assistance:

Task 1. Meeting Facilitation/Support

This task budgets up to 60 hours for supporting Westside CC quarterly meetings and includes:

a. Facilitation support at meetings (anticipated to be quarterly, but may occur more frequently). While it is assumed that the Westside CC Chair, Chris Lee, will lead most meetings, the Kennedy/Jenks team led by Sachi Itagaki is available to support Chris in facilitating meetings. Ken Kirby, facilitator for the Westside IRWM Plan preparation is also available for up to 16 hours to support meetings as appropriate.

b. Development of meeting agendas and supporting materials. Similar to the services provided during the preparation of the Westside IRWM Plan, the Kennedy/Jenks team will lead conference calls with the Westside CC members to craft meeting agendas using the guidance provided in Section 11.5 of the IRWM Plan for quarterly meeting topics. We will assist in identifying topics that are appropriate for a standing meeting agenda as well as topics that are specific to the meeting that is being planned.

In addition, the Kennedy/Jenks team can be available to prepare supporting materials for review by the Westside CC for the meetings. These supporting materials (e.g. funding

Mr. Chris Lee, Principal Water Resources Specialist
Solano County Water District
Page 3

updates, project status tables, objectives review tables, etc.) will likely be in coordination with other tasks in this scope of work. We suggest that a standing meeting/conference call date/time be established 3- 4 weeks before the quarterly meeting date to minimize the need for scheduling.

c. Preparation of meeting summaries and distribution for comment. As occurred during the preparation of the Westside IRWM Plan, one member of the Kennedy/Jenks team will continue to attend and take notes electronically during the Westside CC meetings and draft brief meeting summaries of key action items and discussion for distribution and comment to document the progress in IRWM Plan implementation.

Deliverables

Deliverables for this task are meeting agendas, supporting meeting materials (in coordination with other tasks), and draft and final meeting summaries.

Task 2. Public Outreach

This task budgets up to 40 hours for supporting Public Outreach for the Westside IRWM Plan implementation which includes:

a. Maintain stakeholder distribution lists and send Email blast notifications to stakeholder group. We are engaging the services of Sarah Modeste-Kennedy to continue to assist in maintaining the stakeholder distribution list and to provide up to eight (8) Email blast notifications during the FY 2013-2014 period. Regular Emails with pertinent information including meeting announcements, meeting summaries, funding opportunities, and quarterly newsletters will facilitate keeping the stakeholders apprised of the Westside CC and IRWM Plan implementation activities on a regular basis. The Kennedy/Jenks team will work with Sarah to develop content for the Email blasts.

b. Quarterly newsletters.

This aspect of public outreach will be for the preparation of three (3) remaining quarterly newsletters for FY 2013-14 to be Emailed out as an Email notification and posted to the website (maintained by SCWA). The Kennedy/Jenks team will prepare draft content for formatting by Sarah and review by the Westside CC prior to distribution.

Deliverables

Deliverables for this task are eight (8) Email blasts and three (3) remaining quarterly newsletters to be distributed by Email. We will provide the current stakeholder distribution list as requested.

Mr. Chris Lee, Principal Water Resources Specialist
Solano County Water District
Page 4

Task 3. Data Management

This task budgets up to 40 hours for supporting data management activities, particularly as it relates to project implementation and objectives progress tracking of the Westside IRWM Plan implementation, which includes:

- a. Develop and maintain IRWMP objectives and project tracking spreadsheet. This task will build on the tables and narrative developed in Section 11: Implementation Framework and Appendix E.1 – Technical Memorandum – Information Needs, Potential Sources, and Suggested Implementation Steps for Tracking Progress on Plan Objectives of the Westside IRWM Plan. Working with the Westside CC (or a subcommittee as designated by the CC), the spreadsheet based table will be further developed to be able to identify and link multi-benefit projects with the objectives and measurement targets in order to measure IRWM Plan implementation progress. Using a spreadsheet approach will allow the tool to be easily updateable to facilitate addition and changes to projects in the future. Another element of this activity may be to form subcommittees led by stakeholders to maintain data related to individual objectives in their areas of interest and expertise.

Deliverables

Deliverables for this task are a refined project/objective tracking spreadsheet as well as a “how to” tab in the spreadsheet with instructions on use and update. We have assumed we will develop the spreadsheet and populate current information, with one (1) update anticipated over the fiscal year.

Task 4. Funding Updates

This task budgets up to 40 hours for funding updates that can assist implementation of projects in the Westside IRWM Plan, which includes:

- a. Provide periodic funding updates at quarterly meetings. This task includes preparation of three (3) handouts for distribution at the three (3) remaining FY 2013-14 quarterly stakeholder meetings identifying targeted funding opportunities for consideration by the Westside stakeholders for project planning and implementation. Funding opportunities to be presented include state funding from agencies such as Department of Water Resources, Department of Public Health, Department of Fish and Wildlife, Department of Parks and Recreation State Water Resources Control Board, and Infrastructure Bank for sources such as Proposition 84 and the planned 2014 water bond. In addition, we also include federal sources such as Bureau of Reclamation, Environmental Protection Agency, US Department of Agriculture, and US Army Corps of Engineers. Kennedy/Jenks continually monitors the websites of funding entities and their many lists. We will use this information to identify and

Mr. Chris Lee, Principal Water Resources Specialist
Solano County Water District
Page 5

target viable funding opportunities for the current and future projects in the Westside IRWM Plan.

Deliverables

Deliverables for this task are three (3) funding handouts for distribution and posting to the Westside IRWM website.

Task 5. Other Duties as Needed to Support the CC

This task budgets up to 40 hours for other support not listed in Tasks 1 -4 to support the Westside CC in administering the Westside IRWM Plan; the types of activities in this task may include as requested by the Westside CC:

- Support of future call for projects including update and distribution of project form, compilation/summary of new/revised project information and input into the project tracking spreadsheet.
- Planning and development of activities that support high importance/urgency objectives such as aquatic/terrestrial invasive species management and meeting drinking water and wastewater discharge standards.
- Preparation of GIS maps and conduct of more detailed analyses to support meeting materials.
- Meetings with Department of Water Resources and/or other entities involved in IRWM Planning, such as neighboring regions.
- Preparation of policy and legislative updates.
- Strategic support and quality assurance/quality control review for grant applications.

Project Management and Quality Assurance/Quality Control Review

In addition to the five tasks described above, we anticipate effort for project management including communications with the Westside CC Chair, preparation of invoices, team coordination, and other related tasks. This task also includes Quality Assurance/Quality Control review of all deliverables.

Project Schedule

We understand that the Westside CC seeks to select a consultant by 23 October 2013 in advance of a quarterly meeting in the December 2013 - January 2014 timeframe. Our team is available to continue our assistance as soon as authorized by the Westside CC. As we still have an existing agreement with the Yolo County Flood Control and Water Conservation District, it

Mr. Chris Lee, Principal Water Resources Specialist
 Solano County Water District
 Page 6

would be possible to quickly start supporting the Westside CC with the use of this contract or to achieve a mutually agreed contract in a very short time.

Proposed Budget

We have prepared an estimated cost of services by task that is summarized in the table below. We will use a January 1, 2012 schedule of charges for this work. Additional support can be provided on an on-going, time and materials expense reimbursement basis by defining scopes of work and budgets for additional tasks. The proposed budget will not be exceeded without prior written approval.

Task	Estimated KJ Hours and \$		Estimated Sub Hours and \$		Total Hours	Total \$
Task 1: Meeting Facilitation/Support	44	\$8,500	16	\$4,800	60	\$13,300
Task 2: Public Outreach	20	\$4,300	20	\$1,900	40	\$6,200
Task 3: Data Management	40	\$7,700	0	0	40	\$7,700
Task 4: Funding Updates	40	\$7,700	0	0	40	\$7,700
Task 5: Other Support Activities	40	\$7,700	0	0	40	\$7,700
Project Management and QA/QC	18	\$4,000	0	0	18	\$4,000
Total	202	\$39,900	36	\$6,700	238	\$46,600

Mr. Chris Lee, Principal Water Resources Specialist
Solano County Water District
Page 7

Summary of Project Team and Qualifications

Kennedy/Jenks has retained the seasoned and highly qualified team that prepared the Westside IRWM Plan to support the IRWM Plan implementation. Our team will continue to be managed and led by Sachi Itagaki, P.E., who has personally overseen and been responsible for the preparation of six (6) IRWM Plans. Sachi will continue to be supported by Sean Maguire, the deputy project manager from the Westside IRWM Plan and Sarah Laybourne staff engineer. We have also included Ken Kirby of Evotoco and Sarah Modeste-Kennedy to the team to continue to support facilitation and public outreach, respectively. Our QA/QC program will be conducted by Tim Williams, as was done for the Westside IRWM preparation. Please refer to the Qualifications enclosure for additional details on our proposed team, and similar IRWM Plan and support experience.

Summary

Kennedy/Jenks appreciates the opportunity to submit our approach, detailed scope of work, proposed schedule and fee, and qualifications to continue to work closely with the Westside CC to assist in the implementation of the IRWM Plan for the current fiscal year ending June 30 2014.

If you should have any questions, please do not hesitate to contact Sachi Itagaki at (650) 852-2817 or sachiitagaki@kennedyjenks.com or Tim Williams at (916) 858-2722 or timwilliams@kennedyjenks.com.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

A handwritten signature in blue ink that reads "Timothy L. Williams" followed by a stylized signature that appears to be "Sachi Itagaki" or similar.

Timothy L. Williams, P.E.
Principal

Sachi Itagaki, P.E.
Project Manager

Enclosures:

Kennedy/Jenks Team Qualifications and Resumes

Kennedy/Jenks Team and Qualifications

Project Team

Kennedy/Jenks Consultants has assembled a highly experienced and qualified team that will efficiently support the Westside Integrated Regional Water Management Plan Coordinating Committee. Our team has worked together on several of the efforts identified in our project qualifications section. More detailed resumes for each of our project team members follow this section.

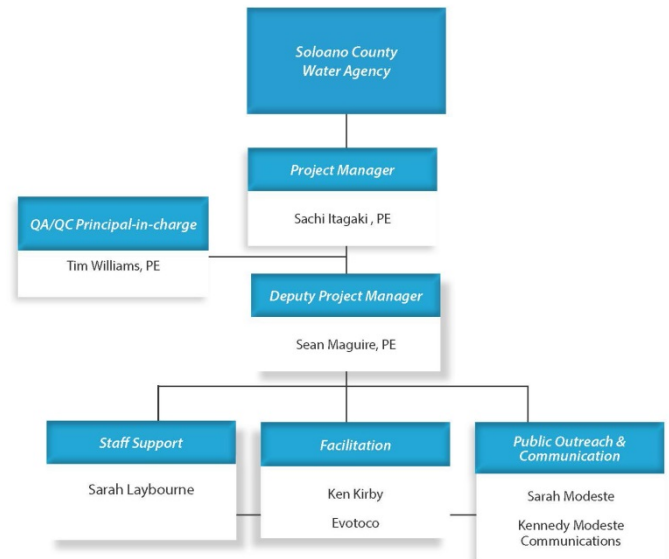
Sachi Itagaki, P.E., Project Manager

Sachi Itagaki has over 26 years of water resources and environmental engineering experience, specifically in conducting watershed-scale water studies as related to drinking water quality and integrated regional water management (IRWM) plans. She has also worked in water quality compliance analyses for a range of sources including wastewater and stormwater in both surface water and groundwater as well as in utility (water, recycled water, wastewater, and stormwater) infrastructure management, master planning, modeling, and design studies; water quality investigations; supporting the preparation of CEQA Compliance documents and obtaining project permits; and preparing highly successful funding applications with total grants/loans over \$70 million.

Sachi has recently completed IRWM Plans for the Westside and Tuolumne-Stanislaus Regions and is commencing an IRWM plan update for the Tahoe Sierra Region and new IRWM Plan for the Yosemite-Mariposa Region

Ken Kirby, P.E., Ph.d, Facilitation Support

Ken is a senior consultant, coach and entrepreneur offering over 20 years of diverse experience within consulting and public service. He has worked with Kennedy/Jenks teams on IRWM Projects for both the Westside Region as well as the Mojave



Region. He blends a unique combination of advanced technical knowledge, extensive planning experience and superior communication skills to help focus organizations and teams, and facilitate successful collaborative efforts. Ken helps clients by asking good questions, hearing what people say, and rapidly synthesizing complex information in ways that promote progress.

Sean Maguire, P.E., Deputy Project Manager

Sean Maguire is a registered engineer with over ten years of experience in the management and execution of water resources, water treatment, and wastewater projects for valued clients throughout California. Sean is proficient in the planning, design, and construction management services aspects of essential projects improving the performance and reliability of municipal water distribution systems, water supply and treatment facilities, and wastewater collection, treatment, and disposal facilities. Recent water resources experience also includes providing extensive technical and administrative support for the San Joaquin Tributaries Settlement Process as

well as development of IRWM Plans for the Westside and Tuolumne-Stanislaus Regions, regional water resources and conservation planning, UWMP preparations, recycled water system planning, grant writing, and complex conjunctive water use efforts.

Tim Williams, QA/QC

Tim Williams will conduct the QA/QC program for this project. He has over 35 years of water resource and wastewater planning experience along with the design, and construction experience of water and wastewater system infrastructure. He provided the QA/QC for the Westside IRWMP and Tuolumne Stanislaus IRWMP and is currently doing the same on the Tahoe Sierra IRWMP. He has also provided QA/QC on Water Supply Assessments and UWMPs for various agencies.

Sarah Laybourne, P.E., Staff Engineer

Sarah Laybourne has provided technical staff level engineering support for a wide range of water resource related projects while at Kennedy/Jenks starting in 2011. Her work has included working in the areas of water rights, groundwater vulnerability assessments, groundwater treatment, Urban Water Management Planning and Integrated Regional Water Management Planning with significant effort in both the Westside and Tuolumne-Stanislaus IRWM Plans

Sarah Kennedy-Modeste, Public Outreach

Sarah Kennedy-Modeste has supported the many public outreach efforts in the Westside region. Most recently, she has prepared e-newsletters, website content, and hotline support for the Westside IRWM Plan preparation as part of the Kennedy/Jenks team. She is familiar with the region as well as the public “hot buttons” with respect to water.

management aspects. IRWM Plans require an understanding of the stakeholder’s interests around topics such as water quality, land and water planning, ecosystem impacts, and actions that can improve water management throughout a large region such as Westside IRWM. A brief project description for each of these projects follows the table which shows our relevant experience which supports the Westside IRWM activities.

Project Qualifications

The table that follows is representative of our team’s experiences in Integrated Regional Water Management (IRWM) Plan activities for multiple watersheds including the meeting facilitation, public outreach, and data

Table 1: Summary of Kennedy/Jenks’ Relevant Experience

Project/Client	Meeting Facilitation/ Support	Public Outreach	Data Management	Funding
San Joaquin Tributaries Settlement Process	●	●	●	●
Tuolumne-Stanislaus IRWM Plan	●	●	●	●
Westside IRWM Plan	●	●	●	●
Tahoe-Sierra IRWM Plan Update	●	●	●	●
Yosemite-Mariposa IRWM Plan	●	●	●	●

San Joaquin Tributaries Settlement Process Support Services, San Joaquin Tributaries Authority

Kennedy/Jenks Consultants (Kennedy/Jenks) is providing significant technical and administrative support services for the San Joaquin River Tributaries Settlement Process. The purpose of the settlement process is to develop an agreement to address current and future regulatory processes on the Stanislaus, Tuolumne, and Merced River watersheds, including the mainstem San Joaquin River from the confluence of the Merced to Vernalis. The three tributary rivers are some of the most productive rivers in the Sierra Nevadas, and provide water for critical ecosystem and habitat benefits, irrigation of hundreds of thousands of acres of prime San Joaquin Valley farmland, and drinking water supply for millions of people including the San Francisco Bay Area and Southern California.

The settlement process is complex and involves addressing the needs of many state and federal regulatory agencies, water purveyors, and environmental interests. The intended outcome of the settlement is to

arrive at a single comprehensive plan to resolve ongoing and future regulatory processes, which involve disputes related to flow release schedules and conservation measures and public trust doctrine, and (iv) provide regulatory certainty to all participants. Kennedy/Jenks is helping improve communication and accelerate the settlement process in support of Art Baggett, the settlement process facilitator. In this important role, Kennedy/Jenks is responsible for providing administrative and technical assistance in development and implementation of the settlement process frame work that provides rigor to evaluating various conservation (ecosystem) and water management (supply) actions. Kennedy/Jenks is contributing towards development and deployment of the Scientific Evaluation Process (SEP), which uses an expert panel to weigh the expected magnitude and certainty of each action’s outcome. The SEP is being used to establish a common understanding of the actions in the watersheds that will provide the biggest benefits to improve imperiled fish populations while maintaining water supply reliability. Kennedy/Jenks also supported the

initial Phase 1 effort, which included fact finding presentations to develop a consistent understanding of the technical challenges associated with the settlement. We are also responsible for preparation of meeting materials, meeting minutes, process schedules, and other documents as

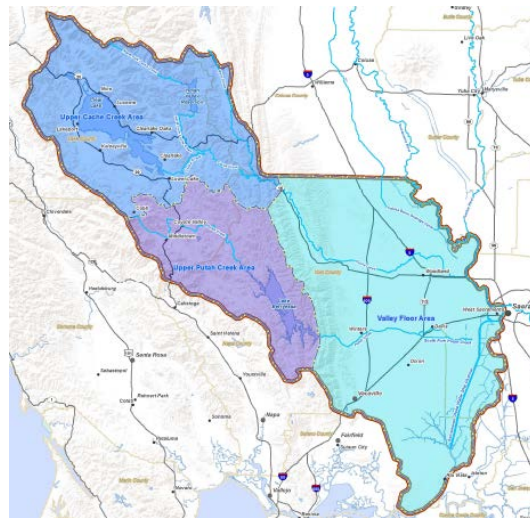
Westside Sub-region of the Sacramento River Funding Area, IRWM Plan Preparation, Yolo, Solano, Napa, and Lake Counties, CA

The Kennedy/Jenks Consultants team was selected to prepare an IRWM Plan starting in mid-2011 and completed in August 2013 for the Westside Sub-region of the Sacramento River Funding Area comprised of the Cache Creek Sub-Watershed in Lake and Yolo Counties, the Putah Creek Sub-Watershed in Napa and Solano Counties, and adjacent Bay-Delta areas. Some of these sub-watersheds have prepared IRWM Plans while others have not and this project integrated the prior efforts within a newly formed broader IRWM region with a more diverse set of challenges and opportunities.

We implemented a collaborative process that integrated extensive public outreach and stakeholder involvement for IRWM Plan under the structure of targeted Topics of Engagement in order to keep the stakeholder meetings and Plan development focused and productive. These Topics of Engagement included Current Conditions, Future Conditions, Challenges and Opportunities, Potential Projects and Integration, Benefit and Impacts, Project Selection and Priority, Plan Recommendations, Governance, Finance, and Plan Performance and Monitoring. Stakeholder and public outreach included meetings and preparation of a public outreach website and materials to reach the water community, the general public, and both DAC and Native Tribes,

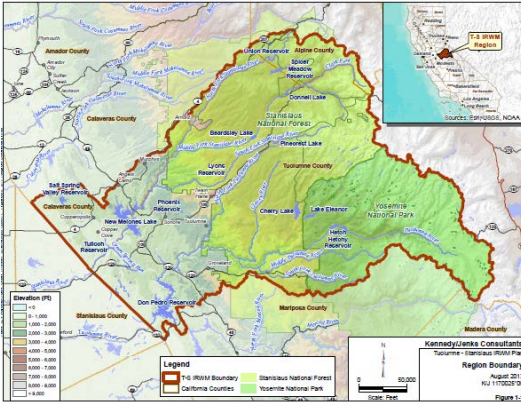
requested. Communication is key, and Kennedy/Jenks is providing administrative support assistance including coordination with settlement participants and preparation of meetings, presentations, and public outreach updates on the settlement process website and email distribution lists.

Technical work to support Plan preparation included water budgets to better understand the water management challenges and opportunities within a sub-watershed and within the region, and research and analysis of land-use, water use, water quality, environmental resources, special status species, aquatic and terrestrial invasive species, flood risk reduction, planning, demographic, and other data necessary to develop elements of the IRWM Plan.



**Tuolumne Utilities District/Tuolumne-Stanislaus IRWM Region
Proposition 84 Round 1 IRWM Planning Grant Application and IRWM Plan Preparation
Tuolumne County, CA**

Kennedy/Jenks was selected to prepare the IRWM Plan for the Tuolumne-Stanislaus (T-S) IRWM Region, which was completed in August 2013 in accordance with the successful Planning Grant application.



Tasks include:

1. Data Management Strategy and System Development and Implementation;
2. Public Outreach including a detailed outreach schedule defining meeting topics to stay on topic and schedule;
3. Regional Water Management Strategies and Projects including call for projects, assistance to DAC and Tribes in development of projects;
4. Draft and Final IRWM Plan Preparation including synthesis of a broad range of information related to water supply, water quality, local water and land use plans, special status species and other environmental resources, aquatic and terrestrial invasive species, as well as IRWM Plan objectives, governance, project development and ranking, and impacts and benefits of IRWM Plan implementation
5. Project Management and Quality Assurance/Quality Control

In addition, Kennedy/Jenks developed a comprehensive Proposition 84 IRWM planning grant application for the T-S IRWM Region. The planning grant application was among DWR's highest ranked applications ensuring that the T-S- IRWM Region was fully funded. DWR representatives stated that they are using the T-S IRWM Region's

application to as an example of a highly responsive planning grant application.

The application included a detailed work plan that included a background section and specifics on the scope for a comprehensive IRWM Plan development and development and implementation of a Geographic Information System (GIS) geo-database web-viewer data management system

Tahoe Sierra IRWM Plan Update and Yosemite-Mariposa IRWM Plan Preparation, El Dorado, Placer, Nevada, Alpine, Sierra, and Mariposa Counties

Kennedy/Jenks Consultants has started work in mid-2013 in two High-Sierra regions to prepare an IRWM Plan update for the Tahoe-Sierra Region, which includes the Truckee River watershed including Lake Tahoe and an IRWM Plan for the Yosemite-Mariposa Region for the Upper Merced River and adjoining watersheds. The IRWM Plans will include compiling and synthesizing relevant information related to water supply, water quality including potential impairments, land use and water planning and management, stormwater and flood risk reduction, environmental resources as well as conducting public outreach meetings, and working with a smaller focused sub-committee.

Sachiko Itagaki, P.E.

Project Manager

Education

MS, Civil Engineering (Water Resources with Emphasis in Groundwater Hydrology), Stanford University

BS, Ocean Engineering, Stanford University

Memberships/Affiliations

American Water Works Association

American Society of Civil Engineers

California Water Environment Association

Water Environment Federation

Registrations

Professional Civil Engineer, California

Professional Summary

Ms. Itagaki has over 26 years of water resources and environmental engineering experience, specifically in conducting watershed-scale water studies as related to drinking water quality and integrated regional water management (IRWM) plans. She has also worked in water quality compliance analyses for a range of sources including wastewater and stormwater in both surface water and groundwater as well as in utility (water, recycled water, wastewater, and stormwater) infrastructure management, master planning, modeling, and design studies; water quality investigations; supporting the preparation of CEQA Compliance documents and obtaining project permits; and preparing highly successful funding applications with total grants/loans over \$70 million. Her specific relevant project experience includes:

Relevant Project Experience in Integrated Regional Water Planning

Westside Sacramento Regional Water Management Group, Yolo County Flood Control and Water Conservation District, Woodland, CA *Project Manager* for preparation of IRWM Plan completed in August 2013 requiring extensive public outreach, including to tribal and disadvantaged communities, and stakeholder involvement for the Cache Creek Sub-Watershed in Lake, Colusa, and Yolo Counties, the Putah Creek Sub-Watershed in Yolo, Napa and Solano Counties, and adjacent Bay-Delta areas. IRWM Plan preparation includes preparation of water budgets to better understand the water management challenges and opportunities within a sub-watershed and within the region, preparation of a public outreach website, and research and analysis necessary for elements of the IRWM Plan.

Tuolumne-Stanislaus Regional Water Management Group, Tuolumne Utilities District, Sonoma, CA *Project Manager* for Preparation of IRWM Plan for the Tuolumne Stanislaus Region completed in August 2013 requiring guiding the sequential crafting and editing of the IRWM Plan including synthesizing water supply, water quality, ecosystem, and natural resources information for presentation to the Planning Grant Committee; organizing and presenting at stakeholder meeting including preparation of agendas, presentations, and handouts; leading public outreach to Disadvantaged Communities (DAC) as well as Native American Tribes to better understand water management challenges and opportunities, identification and development of projects/programs/actions that benefit the region as a whole as well as DAC and Native American Tribes. Lead Writer for highly ranked Proposition 84 IRWM Program Planning Grant application.

Tahoe-Sierra Regional Water Management Group, South Tahoe Public Utility District, South Lake Tahoe, CA *Project Manager* for Preparation of IRWM Plan Update for the Tahoe-Sierra Region guiding the preparation and editing of the IRWM Plan update for a High-Sierra region with large portions of protected federal lands. The Plan includes synthesizing a broad range of water supply,

water quality, ecosystem, and natural resources information, organizing and presenting at stakeholder meeting including preparation of agendas, presentations, and handouts, coordinating public outreach to DAC as well as leading outreach to Native American Tribes to better understand water management challenges and opportunities, identification and development of projects/programs/actions that benefit the region as a whole as well as DAC and Native American Tribes. She also supported the District with the preparation of the successful Proposition 84 IRWM Program Planning Grant application.

Yosemite-Mariposa IRWM Group, Mariposa County Resource Conservation District, Mariposa, CA *Project Manager* for Preparation of IRWM Plan for the Yosemite-Mariposa Region (Mariposa County) guiding the preparation and editing of the IRWM Plan including synthesizing a broad range of information for water supply, water quality, ecosystem, and natural resources information, climate change vulnerabilities in the High Sierra; organizing and presenting at stakeholder meeting including preparation of agendas, presentations, and handouts; coordinating public outreach to DAC as well as leading outreach to Native American Tribes to better understand water management challenges and opportunities, identification and development of projects/programs/actions that benefit the region as a whole as well as DAC and Native American Tribes. She lead the effort to prepare the successful Proposition 84 IRWM Program Planning Grant application.

Calleguas Municipal Water District and Watersheds Coalition of Ventura County. *Project Manager for:*

2007 IRWM Plan Functional Equivalent Document Preparation for Proposition 50

2007 Proposition 50 Integrated Regional Water Management Program Step 1 and 2 Implementation Grant Application,

2010 Proposition 84 Integrated Regional Water Management Program Round 1 Implementation Grant Application

2012 Proposition 84 Integrated Regional Water Management Program Round 2 Implementation Grant Application (recommended for funding)

Western Municipal Water District, Riverside, CA. *Project Manager* for Preparation of 2006 Phase I and 2008 Updated IRWM Plan for Western Municipal Water District's wholesale service area guiding the preparation and editing of the IRWM Plan including synthesizing a broad range of information for imported surface water and local groundwater and recycled water supply, water quality in a highly saline groundwater basin, ecosystem, and natural resources information; organizing and presenting at stakeholder meeting including preparation of agendas, presentations, and handouts; providing specific public outreach to DAC. She was responsible for preparing the successful Proposition 50 IRWM Program Planning Grant application.

Sean C. Maguire, P.E.

Deputy Project Manager

Education

BS, Civil Engineering, California State University,
Sacramento, 2003

Registrations

Professional Civil Engineer, California

Memberships/Affiliations

American Water Works Association
American Society of Civil Engineers
California Water Environment Association
Water Environment Federation

Professional Summary

Sean Maguire is a registered engineer with over ten years of experience in the management and execution of water resources, water treatment, and wastewater projects for valued clients throughout California. Sean is proficient in the planning, design, and construction management services aspects of essential projects improving the performance and reliability of municipal water distribution systems, water supply and treatment facilities, and wastewater collection, treatment, and disposal facilities. Recent water supply experience also includes regional water resources and conservation planning, recycled water system planning, grant writing, and complex conjunctive water use efforts. He has served in the project engineer role in many of these projects in technical capacities including detailed treatment process and distribution system design, hydraulic water network modeling and analysis, and watershed level water quality evaluations.

Relevant Project Experience

San Joaquin Tributaries Settlement Process Support Services – San Joaquin Tributaries Authority Modesto, CA. *Project Manager* Responsible for technical and administrative support services for a broad settlement effort to resolve ongoing regulatory processes on the Stanislaus, Merced, and Tuolumne Rivers. Work includes collaboration with large stakeholder groups consisting of state and federal regulatory agencies, non-governmental organizations, and irrigation districts. Developed meeting agendas and assisted with facilitation activities for plenary sessions, policy and technically based subcommittees. Supported design and implementation of a Scientific Evaluation Process and Water Management Process to transparently develop and evaluate proposed conservation actions.

Westside Sacramento Integrated Regional Water Management Plan, Yolo County Flood Control and Water Conservation District, Woodland, CA *Deputy Project Manager* Responsible for preparation of the Westside Sacramento IRWM Plan. The Westside Sacramento IRWM Region encompasses Yolo, Lake, Solano, Napa, and Colusa Counties, that are within the Cache Creek and Putah Creek Watersheds. The project is funded by a \$1m planning grant from DWR and involves coordination of over 60 water agencies, federal, state, and local government agencies, environmental organizations, and other interested stakeholders. The plan, when completed in early 2013 will integrate and build previous county-based IRWM Planning efforts by offering a Proposition 84 compliant Plan that can be used to plan, implement, and solve water resources management challenges throughout the region over the next 20 years.

Tuolumne-Stanislaus Integrated Regional Water Management Plan, Tuolumne Utilities District, Sonoma, CA *Deputy Project Manager* Responsible for preparation of the first Tuolumne-Stanislaus IRWM Plan. The plan, when completed in 2013 will be the first truly integrated water resources planning effort for the Upper Tuolumne and Stanislaus River watersheds in Tuolumne, Calaveras, and Alpine Counties. Sean is responsible for assisting the Project Manager in all aspects of project completion including: stakeholder meeting coordination, DWR-compliant invoice preparation and reporting, writing, technical analysis and development of plan sections.

Yosemite-Mariposa IRWM Group, Mariposa County Resource Conservation District, Mariposa, CA *Deputy Project Manager* for Preparation of IRWM Plan for the Yosemite-Mariposa Region (Mariposa County) guiding the preparation and editing of the IRWM Plan including synthesizing a broad range of information for water supply, water quality, ecosystem, and natural resources information, climate change vulnerabilities in the Merced River, Chowchilla River, and Mariposa Streams watersheds; organizing and presenting at stakeholder meeting including preparation of agendas, presentations, and handouts; coordinating public outreach to DAC and Native American Tribes to better understand water management challenges and opportunities, oversight of fractured volcanic groundwater investigation that serves most of the residents of the Region. Prepared successful Proposition 84 IRWM Program Planning Grant application.

Groundwater Vulnerability Assessment, Sacramento Groundwater Authority, Sacramento, CA *Project Engineer* Project Engineer for completion of a groundwater vulnerability assessment for the fourteen groundwater purveyors that are members of the Sacramento Groundwater Authority. The work included evaluation of various potential vulnerabilities to future groundwater contamination, such as continued migration of regional contaminant plumes, local potential contaminating activities like LUST/LUFT sites, and susceptibility to loss of supply from potential future regulatory actions, such as establishing a hexavalent chromium maximum contaminant level. The report included ranking of the risk levels of all of the wells within the SGA boundaries, and development of estimates of the potential economic exposure.

Surface Water Collector Feasibility Study, Golden State Water Company, Rancho Cordova, CA *Project Manager* Project Manager responsible for completing a multiple phased project to evaluate the feasibility of constructing a six million gallon per day (MGD) surface water collector in the shallow gravels along on the American River. Sean managed a team of committed staff, multiple interested clients, and regulatory stakeholders to complete this successful effort. The work included an initial literature search and screening of available riverbed infiltration technologies considering factors such as permitting, hydrogeological characteristics of the shallow alluvium, and conceptual cost estimates of a full scale facility. The second phase of the project included a field investigation of ten (10) sites along the river. Temporary shallow borings were completed, and hydraulic interval testing was completed at selected sites.

Water Conservation and Demand Reduction Program Evaluation, City of Roseville, Roseville, CA *Project Manager* Project Manager responsible for development of a water conservation plan addressing the wide range of programs piloted and implemented within the City of Roseville as part of their aggressive water conservation program. The Water Conservation Plan was one of the first completed in California and included a Water Saver calculation tool that provided Roseville with estimates of the effectiveness of the different demand management measures and best management practices. Roseville amended their funding of programs based on the Water Saver tool calculations to focus on those programs providing greater conservation per unit cost.

2010 Urban Water Management Plans (18 Water Systems), Golden State Water Company, Rancho Cordova, CA *Project Manager* Project Manager responsible for preparation of eighteen urban water management plan updates (UWMP) as required by the Urban Water Management Planning Act. The UWMP update involved coordination with water suppliers, counties, and local agencies throughout the State of California to evaluate water supply reliability conditions for each of the 18 systems required to submit plans. Updates also included evaluation of SBX7-7 water use reduction targets, and an updated conservation plan reflecting the strategy that will be employed by GSWC over the next decade to meet the targets.

Tim Williams, P.E.

QA/QC Principal-in-Charge

Education

BS, Engineering, University of California, Davis,
1976

Registrations

Professional Civil Engineer, California
Professional Civil Engineer, Oregon
Professional Civil Engineer, Arizona

Memberships/Affiliations

American Water Works Association

CA/NV AWWA , Past Chair
CA/NV AWWA, Chair of Engineering and
Construction Committee
CA/NV AWWA Pipeline Rehabilitation
Committee
CA/NV AWWA Water Well Technology
Committee
Central Valley Clean Water Association - Collection
System Committee

Professional Summary

Tim will make sure that his project resources, quality and experienced team members, are provided to meet the Westside IRWM Coordinating Committee and stakeholders' expectations in a timely and efficient manner. He will also be responsible for reviewing of documents under Kennedy/Jenks proven QA/QC program. With 36 years of water and wastewater planning, design and construction experience, Tim has managed and reviewed many water resource projects for Kennedy/Jenks' northern California clients including, three IRWMPs – Westside, Tuolumne Stanislaus, and Tahoe Sierra, and for Tuolumne Utilities District, City of Davis, El Dorado Irrigation District, San Juan Water District, South Tahoe PUD, and McCloud Community Services District

Relevant Project Experience

2010 Tuolumne – Stanislaus Integrated Regional Management Planning Grant Application and Plan Development and IRWM Plan Preparation, Tuolumne – Stanislaus IRWM Group, Sonora, CA: *Principal-in-Charge and Technical Reviewer.* Completed the fast-track grant application for the Tuolumne-Stanislaus (T-S) IRWM Group in a little over a one month period. As PIC attended coordination meetings and weekly conference calls to present the progress of the application, identified data gaps and generated creative means to fill those gaps, and reviewed the draft application to produce a comprehensive application that the 20 stakeholders unanimously approved. In addition, reviewed, updated and finalized the cost sharing estimates to support the \$1 million grant request and in-kind contribution. He also participated in the IRWM Plan development by attending stakeholder meetings and checking in with the RWMG to ensure the project team was meeting the T-S IRWM Groups expectations. In addition, he completed the QA/QC of the draft IRWM Plan.

Westside Sacramento Integrated Regional Water Management Plan, Westside Sac Regional Water Management Group, Yolo County Flood Control and Water Conservation District, Woodland, CA. *Principal-in-Charge and Technical Reviewer* for preparation of IRWM Plan starting in November 2011 requiring extensive public outreach and *stakeholder* involvement for the Cache Creek Sub-Watershed in Lake, Colusa, and Yolo Counties, the Putah Creek Sub-Watershed in Yolo, Napa and Solano Counties, and adjacent Bay-Delta and Sacramento areas. As PIC, he attended stakeholder and planning committee meetings, and reviewed the IRWM Plan to ensure that the Group's expectations were met.

2012 Water System Optimization Plan, South Tahoe Public Utility District, South Lake Tahoe, CA. *Project Manager* for preparing the 2012 Water System Optimization Plan that includes working closely with the District to evaluate the condition of the existing critical assets, developing a level of service criteria, evaluating future regulations impacts to the water system, using evaluation criteria and risk assessment to determine the

necessary improvements to optimize the water system for the next 20 years, and developing a CIP. The project also includes working closely with the District and the District's hydraulic modeling consultant, West Yost Associates, as they evaluate the capacity issues and coordinating improvements to correct both condition, capacity and water quality issues.

Water Distribution System Optimization Plan (WDSOP), City of Davis, Davis, CA: *Project Manager / Project Engineer* As a subconsultant to Brown and Caldwell, managed Kennedy/Jenks contribution to the WDSOP, which included completion of the existing water distribution condition assessment and evaluation to optimize the City's water distribution system operation, and developed infrastructure improvements to introduce a future surface water supply to the City's current groundwater only water system. In addition, he led the development of the CIP that identified the existing system improvements to correct deficiencies that fit into the long-term conjunctive use water supply system.

San Juan Water District, District Wholesale Water Master Plan, Granite Bay, CA: *Project Engineer* for the San Juan District Water Master Plan. Responsible for the analysis of deficiencies of six existing pressure zones (e.g., pump stations, and storage reservoirs), water treatment plant expansion, and estimating the cost of improvements presented in CIP.

Treated Water System Optimization Plan, Tuolumne Utilities District, Sonora, CA: *Project Manager* Kennedy/Jenks is working as an extension of TUD's staff to develop a Treated Water System Optimization Plan to map out a vision to consolidate and improve the existing 19 separate water systems into the most optimal overall water system(s) to operate and maintain. Management efforts including completing a condition assessment of the existing WTPs and water distribution pump stations, hydropneumatic stations, and storage tanks; developing of consolidation alternatives to optimize the water system for the next 50 year planning period, completing hydraulic modeling updates of the existing model and overseeing the development of the consolidation alternative models and review of the results; developing a CIP for the necessary improvements over the next 20 years; and producing the Treated Water System Optimization Plan. We will be responsible for presenting the findings to the TUD Board and Committees to obtain their input and buy-in.

Regional Wastewater Treatment and Reuse Feasibility Study, Tuolumne Utilities District, Sonora, CA: *Project Manager* Managed the development of the Regional Wastewater Treatment and Reuse Feasibility Study. As part of the SWRCB Small Community Wastewater Grant, completed an evaluation of the existing regional WWTP and recommended both short and long-term solutions to meet anticipated growth over the next 20 to 40 years. Also, he developed various alternatives for treatment, disposal and reuse including partial surface discharge with land application and full land application of treated wastewater. He completed a Cal Muni Report to determine the funding capacity and impacts to rate payers. He conducted collaboration events between the other regional members, Jamestown Sanitary District and Twain Harte Community Services District. This included collaboration and coordination with key staff members and board members, including public meetings and a joint meeting between all three boards to obtain approval of the Feasibility Study.

Urban Water Management Plan, Tuolumne Utilities District, Sonora, CA: *Technical Review.* Reviewed the draft 2010 UWMP prepared for TUD.

Water Supply Assessment for Red Hawk Casino, El Dorado Irrigation District, Placerville, CA: *Technical Review.* Reviewed the draft Water Supply Assessment to confirm EID could adequately supply water to the Red Hawk Casino and Native American Tribal service area.

Sarah Laybourne, P.E.

Staff Engineer

Education

B.S., Biochemistry California Polytechnic University, San Louis Obispo, 2009

M.S., Civil and Environmental Engineering, University of California, Davis, 2011

Registrations

Registered Civil Engineer in California

Professional Summary

Sarah Laybourne has provided technical staff level engineering support for a wide range of water resource related projects while at Kennedy/Jenks starting in 2011. Her work has included working in the areas of water rights, groundwater vulnerability, groundwater treatment, Urban Water Management Planning and Integrated Regional Water Management Planning. Sarah's experience also includes water system hydraulic modeling, water quality data management and evaluation and pilot testing for emerging contaminants and cutting edge wastewater technologies for enhanced primary process effluent.

Relevant Project Experience

Upper Feather River Integrated Regional Water Management Plan, Plumas County Flood Control District, Quincy CA *Project Engineer* Managed the preparation of a Proposition 84 grant application for a planning grant to update the existing Upper Feather River IRWMP. The grant application was successful and the work is expected to proceed in fall of 2013 for the Upper Feather River Watershed that provides 60% of the State Water Project water supply.

Westside Sacramento Valley Integrated Regional Water Management Plan, Yolo County Flood Control and Water Conservation District, Yolo CA *Project Engineer* Sarah was responsible for assistance throughout the IRWM Planning process. The Westside Sacramento IRWM Region encompasses Yolo, Lake, Solano, Napa, and Colusa Counties, that are within the Cache Creek and Putah Creek Watersheds. The project is funded by a \$1m planning grant from DWR and involves coordination of over 60 water agencies, federal, state, and local government agencies, environmental organizations, and other interested stakeholders. Sarah assisted the Project Manager in areas including: DWR-compliant invoice preparation and reporting, and writing, technical analysis and development of IRWM plan sections.

Tuolumne Stanislaus Integrated Regional Water Management Plan. Tuolumne Utility District, Sonora CA *Project Engineer* Sarah was responsible for assistance throughout the IRWM Planning process. The plan, when completed in 2013 will be the first truly integrated water resources planning effort for the Upper Tuolumne and Stanislaus River watersheds in Tuolumne, Calaveras, and Alpine Counties. Sarah assisted the Project Manager in areas including: DWR-compliant invoice preparation and reporting, and writing, technical analysis and development of IRWM plan sections.

Eighteen (18) 2010 Urban Water Management Plan, Golden State Water Company, Rancho Cordova, CA *Staff Engineer* Responsible for the update of eighteen (18) Urban Water Management Plans (UWMP) for the Golden State Water Company statewide service areas. Responsibilities included water supply and demand data collection and records review, assisted in the calculations for population projections, SBx7-7 per capita usage calculations, water demand and supply projections, and compliance target reductions. Work included the publication support for the eighteen (18) UWMPs.

Groundwater Vulnerability Evaluation, Sacramento Groundwater Authority, Sacramento CA *Staff Engineer* Responsible for evaluation of existing member agency well condition assessment for over 110 wells. Work included evaluation of construction details, depths, age, pumping rate records and water quality with development of a decision matrix for assignment of replacement strategies. Replacement strategies included

replacement in-kind, relocation and reconstruction without treatment and relocation and reconstruction with treatment. Sarah also provided support for writing elements of the final report and coordination of the report publication.

Replacement Water Supply, Carmichael Water District and Golden State Water Company Sacramento CA *Staff Engineer* Responsible for the development of pipeline alignments and trenchless crossing of the America River for intertie to the Carmichael Water District as part of supplying water to the neighboring water system operated by Golden State Water Company. The water supply would provide replacement capacity for well production lost to regional groundwater contamination from the GenCorp/Aerojet site in Rancho Cordova.

McClellan Water Reuse Study, Sacramento Suburban Water District, Sacramento CA *Project Engineer* Provided technical study of available water demand and facilities to deliver a remediated groundwater currently being discharged to Magpie Creek for beneficial use at the City of Sacramento Haggin Oaks Golf Course and for a second phase to the McClellan Park for non-potable use.

Arsenic Pilot Treatment Produced Water, Confidential Client, Sacramento CA *Project Engineer* Responsible for pilot data evaluations and management of process testing results. Worked with the Kennedy/Jenks Advance Technology Group to develop feasibility level cost estimates and process performance results for 12 MGD oil field produced waste water with arsenic ranging from near the MCL to over 50 ug/l. The client is a confidential client.

Wells 6, 18 and 23 Perchlorate Process Evaluation, Golden State Water Company, Sacramento CA *Project Engineer* Sarah was responsible for preparation of preliminary site design of piping improvement to install bag filtration and pump to waste improvements to three wells. Work included additional water quality testing, small scale piloting of pre-filtration and alternative ion exchange resins to improve bed life as part of meeting a minimum level of process reliability for perchlorate treatment.

Chlorine Residual Study, Sacramento Suburban Water District, Sacramento CA *Project Engineer* Responsible for evaluation of historic data and occurrence of declining chlorine residual with relation to groundwater and surface water supply variations. Work included site visits, operator interviews and preparation of a Technical Memorandum documenting the findings and providing recommendation.

Water Supply Feasibility Study, North Yuba Water District, Yuba County CA *Project Engineer* Responsible for development of land use and agricultural production potential for rural water agency as part of evaluating the economically feasible ultimate water demand. Work included integration of GIS data records for land use, demographics and soils type to establish tool for estimating alternative crop patterns and development and the associated water demand. Researched published water use factors for similar locations and developed reconnaissance level canal and piped distribution systems for both irrigation supplies and treated water. Prepared report submitted to DWR as part of a water rights license review supporting an extension to allow additional time to realize beneficial use of the District's water rights.

Ken Kirby, Ph.D., P.E.

Principal, Evotoco

Qualifications

Ken is a senior consultant, coach and entrepreneur offering over 20 years of diverse experience within consulting and public service. He blends an unusual combination of advanced technical knowledge, extensive planning experience and superior communication skills to help focus organizations and teams and facilitate successful collaborative efforts. Ken helps clients by asking good questions, hearing what people say, and rapidly synthesizing complex information in ways that promote progress.

Relevant Project Experience

- Since 2011, provided strategic advice and facilitation for the preparation of the Westside IRWM Plan.
- Starting in 2007 until now, have served as an executive advisor to the California Department of Water Resources on FloodSAFE California, a \$4.9 billion initiative to improve integrated flood management statewide. In addition to helping scope the FloodSAFE Initiative, served as an executive sponsor of the Upper San Joaquin Regional Workgroup, the Delta Regional Workgroup, the Agricultural Stewardship Joint Subcommittee, and the Environmental Stewardship Topic Workgroup for the Central Valley Flood Protection Plan. Supported DWR leadership to integrate flood management components into the California Water Plan and the Integrated Regional Water Management Planning Program, including offering strategic guidance on establishing a regional acceptance process.
- In 2008 – 2009 consulted with the Regional Water Authority in Sacramento to facilitate and support an update of their strategic plan.
- In 2006 – 2007 provided strategic guidance and facilitated the public process for developing the Antelope Valley Integrated Regional Water Management Plan.
- In 2013 and 2001 – 2003 led the consultant team and facilitated the public process for the development of the Mojave Water Agency Regional Water Management Plan and 2013 update.
- In 2001 – 2003 advised Department of Water Resources during formation of Proposition 13 grant application process. Provided specific guidance for predicting yield resulting from proposed groundwater and conjunctive use projects and for establishing economic evaluation criteria.

Education and Certifications

Doctor of Philosophy, Civil and Environmental Engineering

University of California, Davis 2000

Dissertation – Beyond Common Knowledge: The Use of Technical Information in Policymaking

Major – Water Resources Engineering with an emphasis in Systems Engineering

Minor – Environmental Economics and Policy

Master of Science, Civil and Environmental Engineering, University of California, Davis 1994

Bachelor of Science, Civil Engineering, Texas A&M University, College Station, TX 1988

Professional Civil Engineer, California

Certified Coach - Academy for Coaching Excellence, Sacramento, 2006

Sarah Modeste, Principal

Sarah is skilled in all aspects of implementing and managing public outreach, community involvement, public education and media relations programs. Her ability to relate to stakeholders and establish trusted relationships provides opportunities for collaborative communication with hard-to-reach constituents.

In 2009, Sarah identified a need for integrated communications consulting in a tight economic climate. In response, she opened Kennedy Modeste Communications, a public outreach and communications firm catering to public sector and nonprofit organizations.

Past & Current Clients

- Westside Sacramento Integrated Regional Water Management Group
- City of Sacramento, Department of Utilities
- City of Sacramento, Department of Transportation
- City of Stockton, Delta Water Supply Project
- City of Stockton, Water Conservation Program
- City of Stockton, Community Development Department
- floodSAFE Yolo Pilot Program
- San Juan Water District
- Three Rivers Levee Improvement Authority
- West Sacramento, Water Fluoridation Project
- Sacramento County, Jackson Highway & Grant Line East General Plan Update Project
- Sacramento Regional County Sanitation District, Upper Northwest Interceptor Project
- Sutter Butte Flood Control Agency

Prior Experience

From 2007-2009, Sarah worked as the lead project manager for a Sacramento-based public outreach firm. There, Sarah was responsible for the strategic development and management of more than a dozen high-profile public outreach programs. She implemented multi-faceted programs that included media relations, print and electronic communications, market research and web 2.0 technologies.

Sarah's diverse background includes work in the areas of higher education, private business and the non-profit sector. This unique combination allows her to bring a broad understanding of effective communication techniques for a variety of issues.

During Sarah's career in higher education, she designed specialized fund development programs for two private universities. At both universities, Sarah enhanced the stakeholder relationship development process by linking known stakeholder interests with the universities' advancement opportunities.

Sarah also coordinated stakeholder and membership outreach and education efforts for one of California's largest dental societies. Under her direction, the dental society provided oral screening and treatment programs that directly assisted more than 24,000 un- and underinsured children. The program, one of the largest in the nation, provided more than \$1 million in donated supplies and treatment each year.

Education

- The University of Tulsa, Tulsa, OK – Bachelor of Arts, Organizational Communication/Public Relations & Sociology