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Paramount, CA 90723
562.663.6850 phone
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www.gatewaywater.org

*Los Angeles Gateway Region
Integrated Regional Water Management Joint
Powers Authority*

AGENDA

**Regular Meeting of the Board of Directors
Thursday, November 10, 2016 at **11:30 a.m.**
Progress Park Plaza, 15500 Downey Avenue, Paramount, CA**

- 1. Roll Call**
- 2. Determination of a Quorum**
- 3. Additions to Agenda (Govt. Code Sec. 54954.2(b))**
- 4. Oral Communications to the Board**
This is an opportunity for members of the public to address the Board on any item under the jurisdiction of the agency. Depending upon the subject matter, the Board may be unable to respond until the item can be posted on the agenda at a future meeting in accordance with provisions of the Brown Act.
- 5. Consent Calendar: (Acted as one item unless withdrawn by request)**
 - a. Minutes of the Board Meeting of October 13, 2016 (Enclosure)
 - b. Warrant Register Report for November 2016 (Enclosure)
- 6. Discussion/Action Regarding the Selection for Project & Grant Management Services for the Advanced Meter Replacement Project (Enclosure)**
 - a. Accept the Proposal from Civiltec Engineering, Inc. as presented and authorize the Executive Officer to issue a Notice to Proceed once all sub-recipient agreements and matching funds are invoiced.
- 7. Discussion/Action Regarding Potential Private Parties' Financial Cost Sharing Participation in Harbor Toxics TMDL Monitoring Activities**
- 8. Discussion/Action Regarding State Funding for Mandated Stormwater Compliance (Enclosure)**
- 9. IRWMP Activities and Update**

Christopher Cash (Paramount), Board Chair • Adriana Figueroa (Norwalk), Vice-Chair • Steve Myrter (Signal Hill), Secretary/Treasurer
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10. Gateway Region Watershed Management Groups

- a. Lower Los Angeles River Upper Reach 2 Watershed Group
- b. Lower Los Angeles River Watershed Group
- c. Los Cerritos Channel Watershed Group
- d. Lower San Gabriel River Watershed Group

11. Executive Officer's Report

12. Directors' Comments/Reports

13. Adjournment

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AGENDA ITEM NO. 5A

**MINUTES OF THE GATEWAY WATER MANAGEMENT AUTHORITY
LOS ANGELES GATEWAY REGION
INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
BOARD
AT PARAMOUNT, CALIFORNIA
THURSDAY, OCTOBER 13, 2016**

A regular meeting of the Board of Directors of the Gateway Water Management Authority was held on Thursday, October 13, 2016 at 11:30 a.m. at the Progress Park Plaza, 15500 Downey Avenue, Paramount, CA 90723.

Chair Chris Cash called the meeting to order at 11:45 a.m. Roll was called by Ms. Penn and a quorum of the Board was declared.

BOARD MEMBERS PRESENT:

Audra McDonald (alternate)	Avalon
Al Cablay (alternate)	Bell
John Oropeza	Bell Gardens
Len Gorecki	Bellflower
Mike O'Grady (alternate)	Cerritos
Gina Nila	Commerce
Mohammad Mostahkami	Downey
Christina Dixon (alternate)	Huntington Park
Mark Stowell	La Mirada
Jason Wen (alternate)	Lakewood
Anthony Arevalo	Long Beach
Christopher Garner	Long Beach Water Department
Sam Kouri (alternate)	Montebello
Adriana Figueroa	Norwalk
Chris Cash	Paramount
Frank Beach (alternate)	Santa Fe Springs
Steve Myrter	Signal Hill
Gladis Deras (alternate)	South Gate
Scott Rigg (alternate)	Vernon
Dave Schickling	Whittier
Esther Rojas (alternate)	Water Replenishment District

STAFF AND GUESTS ON SIGN-IN SHEET:

Toni Penn	Admin/Accounting Manager
Bibi Weiss	Office Assistant
Virginia Fowler	LACFCD
Catherine Jun	Bellflower
Bill Minasian	Downey Resident
Leslie Ward	Vicenti Lloyd & Stutzman, LLC
Mark Grajeda	Pico Water District
Dan Mueller	Downey

Hannah Shin-Heydorn
Charlie Honeycutt

Signal Hill
Signal Hill

ITEM 3 - ADDITIONS TO THE AGENDA

None.

ITEM 4 – ORAL COMMUNICATIONS TO THE BOARD

None.

ITEM 5 – CONSENT CALENDAR

Director Mostahkami requested that the minutes of September 8, 2016 be amended to delete the word “Workshop” on page 6 under Directors Comments/Report.

Director Mostahkami motioned to approve the consent calendar with modifications to the minutes of September 8, 2016 as directed. Director Nila seconded the motion which was approved by the following voice vote:

AYES: McDonald, O’Grady, Nila, Mostahkami, Dixon, Stowell, Arevalo, Garner, Figueroa, Cash, Beach, Myrter, Rigg, Schickling, Rojas

NOES: None.

ABSTAIN: Gorecki, Wen, Deras, Oropeza

Director Kouri entered at 11: 48 a.m.

ITEM 6 – PROFESSIONAL SERVICES AGREEMENT “PSA” WITH VICENTI, LLOYD & STUTZMAN LLP FOR ON-GOING FINANCIAL CONSULTING SERVICES

Ms. Toni Penn reported that on August 2, 2016, GWMA received notification from Ms. Cindy Byerrum at Platinum Consulting Group that she would be resigning from her position as the Accountant Consultant to GWMA due to scheduling concerns. She stated that later that month, GWMA released a Request for Proposal to establish a contract for an Accountant Consultant with a qualified individual or firm. She indicated that the deadline to submit a proposal was September 2, 2016 and that GWMA had received two proposals.

Ms. Penn reported that, after reviewing the proposals, it was the recommendation of the Executive Committee and GWMA’s Treasurer that the board retain Vicenti, Lloyd & Stutzman, LLP (VLS) to provide ongoing accounting consulting services on an as-needed basis.

Lastly, Ms. Penn reported that GWMA had budgeted a total amount of \$12,000 for Accounting Consulting Services for FY 2016/17. She stated that based on the fee schedule provided by VLS, the Executive Committee was recommending that the Board amend the Budget for FY2016/17 to include an increase to the Professional Services – Accounting Consultant line item by \$5,000 for a total amount of \$17,000.

Director Mostahkami requested that the PSA be amended to include a signature line for GWMA's Legal Counsel.

Director Mostahkami moved to approve the PSA with Vicenti/ Lloyd & Stutzman, LLP as amended, authorized the Chair to execute this Agreement, and to amend the GWMA's FY 2016/17 budget to add an additional \$5,000 to the Professional Services line item for Accounting Consultant services. The motion was seconded by Director Figueroa and was approved by the following voice votes:

AYES: McDonald, Oropeza, Gorecki, O'Grady, Nila, Mostahkami, Dixon, Stowell, Wen, Arevalo, Garner, Kouri, Figueroa, Cash, Beach, Myrter, Deras, Rigg, Schickling, Rojas

NOES: None.

ABSTAIN: None.

ITEM 7 – STATUS ON PRIVATE COMPANIES MOU

Ms. Penn reported that Mr. John Hunter, the lead consultant for the Lower Los Angeles River Watershed (LLAR) Group, was contacted by a private company regarding their NPDES monitoring requirements. She stated that the Regional Board was offering private companies the option to participate with an existing monitoring group to comply with their requirements.

Ms. Penn stated that GWMA had previously worked with requests from other industries and had established Agreements with industries discharging into the Greater (downstream) Los Angeles Harbor. She indicated that this Agreement allowed for cost sharing for the implementation of a coordinated compliance monitoring and reporting plan as required by the Regional Board.

Ms. Penn stated that at the September Board meeting, the Board discussed this request and directed staff and legal counsel to analyze GWMA's risk factors, how many private companies would be involved, cost factors, staffing requirements, how monies collected from private companies would be allocated and bring a proposal before the Board for consideration. She indicated that staff has made numerous attempts to obtain more information from both the private company that contacted GWMA and also Regional Board staff regarding the role that private parties would take in existing monitoring groups, such as the watershed groups involved with GWMA, but have not been able to obtain the desired information.

Ms. Penn reported that staff would continue to work on obtaining additional information to be able to complete a meaningful analysis for the Board's consideration of the practical and legal issues associated with this request and what may be needed to ensure risks were fully addressed. She stated that it was anticipated that all of the information and legal analysis would be brought to the Board in November for consideration.

ITEM 8 – CONSIDERATION TO ACCEPT THE PICO WATER DISTRICT AS GWMA JPA MEMBER

Director Cablay entered at 11:57 a.m.

Ms. Penn reported that the Pico Water District had expressed its desire to join GWMA by approving the JPA Agreement on October 5, 2016. She indicated that Pico Water District would be participating as a full-paying member, which would result in additional appropriations paid to GWMA annually. Ms. Penn recommended that the Board approve Pico Water District's membership to the GWMA. She indicated that for full membership acceptance, GWMA required a super-majority vote.

Director Figueroa moved to approve Pico Water District's membership to the GWMA. The motion was seconded by Director Rigg and approved by the following voice vote:

AYES: McDonald, Oropeza, Gorecki, O'Grady, Nila, Mostahkami, Dixon, Stowell, Wen, Arevalo, Garner, Kouri, Figueroa, Cash, Beach, Myrter, Deras, Rigg, Schickling, Rojas, Cablay

NOES: None.

ABSTAIN: None.

ITEM 9 – GATEWAY REGION WATERSHED MANAGEMENT GROUPS

Director Figueroa reported that Irma Munoz, Chair of the LA County Regional Water Quality Control Board, had requested a meeting in Norwalk for the four Watershed Group Chairs. She stated that meeting was scheduled for Monday, October 17th.

Lower Los Angeles River Upper Reach 2 Watershed Group

Director Nila gave an update on the Lower Los Angeles River Upper Reach 2 Watershed Group. She indicated that the group was still working on the Feasibility Study.

Lower Los Angeles River Watershed Group

Director Myrter gave an update on the Lower Los Angeles River Watershed Group. He indicated that participants needed to submit their information for the Annual Report that was due on December 1st. He stated that Mr. John Hunter would be available to answer questions and assist as needed.

Los Cerritos Channel Watershed Group

Director Arevalo gave an update on the Los Cerritos Channel Watershed Group. He indicated that the Watershed group was compiling documentation necessary to submit its Annual Report and were planning to meet in the next few weeks.

Lower San Gabriel River Watershed Group

Director Figueroa gave an update on the Lower San Gabriel River Watershed Group and indicated that they too were working on their Annual Report, and would be meeting sometime next week.

ITEM 10 – EXECUTIVE OFFICER’S REPORT

Ms. Penn stated that GWMA would be hosting a Stormwater Workshop for Local and Elected Officials and Managers on October 27, 2016 at the City of Lakewood Council Chambers. She encouraged the Board to RSVP to attend this workshop by October 18, 2016.

ITEM 11 – DIRECTORS’ COMMENTS/REPORT

Director Mostahkami reported on Measure M, which was the LA County Traffic Improvement Plan. He stated that Measure M would allow for a ½ cent transportation sales tax.

Director Figueroa also reported that Gateway Cities Council of Governments had some information on their website regarding Measure M.

Director Myrter introduced Signal Hill’s new Deputy City Manager, Hannah Shin-Heydorn. He indicated that she had been appointed as Signal Hill’s alternate member on the GWMA Board.

Director McDonald left at 12:06 p.m.

The meeting was adjourned at 12:07 p.m. to a regular meeting of the Board on October 27, 2016 at the City of Lakewood Council Chambers (Stormwater Workshop for Local and Elected Officials and Managers).

Steve Myrter, Secretary/Treasurer

Date

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November 10, 2016

SECTION NO. 5(b) Warrant Register Dated November 2016

SUMMARY:

The Warrant Register is a listing of general checks issued since the last warrant register. Warrants will be signed by 2 of the 3 Board Officers and released by Toni Penn, serving as the Administrative/Accounting Manager of the Gateway Water Management Authority, upon Board Approval.

DISCUSSION:

The Warrant Register for expenditures dated November 2016 in the amount of \$223,461.13 are submitted for approval. Invoices and supporting documentation are available for review at the office of the GWMA.

FISCAL IMPACT:

The Warrant Registers totals \$223,461.13. Funds to cover payment are available in the Gateway Authority budget.

RECOMMENDATION:

Approve the Warrant Register for November as presented.

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AGENDA ITEM NO. 5B

WARRANT REGISTER

Disbursement Journal

November-16

Invoice Date	Vendor	Invoice Number	Description	Amount
9/28/2016	Anchor QEA	48623	Harbor Toxics TMDL Monitoring for August	\$ 1,012.50
9/28/2016	Anchor QEA	48626	Harbor Toxics TMDL Monitoring for August	\$ 98,571.78
7/1/2016	California Watershed Engineering	16148	Upper Reach 2 WMP and CIMP Development	\$ 10,000.00
10/10/2016	GEI Consultants, Inc.	3010214	Watersmart Grant Administrative Services	\$ 351.00
11/01/16	GK Consultants	16-10-GWMA	Professional and Accounting Services	\$ 22,646.25
11/01/16	GK Consultants	16-10-DACIP-GWMA	GLAC DAC Chair Activities	\$ 1,950.00
10/19/16	Joe A Gonsalves & Son	155168	Legislative Advocacy Services for November	\$ 2,083.33
10/18/16	John L Hunter & Associates	GAHT0916	Upstream Harbor Toxic for September	\$ 594.00
10/18/16	John L Hunter & Associates	GANPLA0916	LLAR WMP Development for September	\$ 48,784.25
10/18/16	John L Hunter & Associates	GANPSG0916	LSGR WMP Development for September	\$ 9,113.75
10/13/16	Richard Watson & Associates, Inc.	16-192-003-012	LCC Watershed Monitoring Program	\$ 24,783.23
10/21/16	Richards Watson Gershon	209146	Legal Services - General	\$ 2,636.00
10/13/16	Rodger's Catering	25117	Meeting Expenses	\$ 353.71
10/27/16	Rodger's Catering	25292	Meeting Expense	\$ 581.33
				<u>\$ 223,461.13</u>

Reviewed and Approved by:


Steve Myrter, GWMA Secretary/Treasurer

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October 13, 2016

SECTION 6 Discussion/Action Regarding the Selection for Project & Grant Management Services for the Advanced Meter Replacement Project

In August, GWMA issued a Request for Proposal (RFP) for project coordination and grant management of GWMA's regional Advanced Meter Replacement project which was awarded funds from DWR's Integrated Regional Water Management "IRWM" grant program via the Greater LA IRWM process. This project includes 11 recipients. They are: Long Beach Water Dept, Pico Water District, and the cities of Bellflower, Cerritos, Commerce, Downey, Lakewood, Norwalk, Pico Rivera, South Gate, and Whittier.

The budget for this work is \$90,610 of which \$50,000 is reimbursed from the grant and the remainder shared by the sub-recipients involved in the project. The sub-recipient agreements include the collection of \$40,610 for the matching portion of the grant.

The deadline to submit a proposal was on August 31, 2016 at 4:00 p.m. GWMA received four proposals, which were from Avant Garde, Civiltec Engineering, Inc., GEI Consultants, Stetson Engineers, Inc. The breakdown of the proposals is listed below.

Proposals for Management of Advanced Meter Replacement Grant Project						September 2016	
Company	Responsiveness to RFP	On-Call Consultant with Agreement on File?	3-Year Total Proposal Fee	Reimbursable Expenses	Proposal Breakdown by Category	Project Team	On GWMA's On-Call Consulting List?
Civiltec	Full Understanding	Y	\$72,818 Not-to-Exceed	Cost +15%	1. Meetings \$21,068; 2. Grant Documentation & Progress Reports \$31,460; 3. Quarterly Reports \$ 20,300	Shem Hayes; Greg Ripperger, Lindsey Ly	Y
GEI Consultants	Full Understanding	Y	\$75,000 Not-to-Exceed	Not specified	No Breakdown given	Sam Schaefer; Arjun Bharadwaj; Summee Crider	Y
Stetson Engineers	Specific Project Team not specified	Y	\$269,424 Not-to-Exceed	Direct Expense Rate Schedule included	1. Grant Reimbursement Claims \$82,000; 2. Coordination \$27,000; 3. Progress/Status Reports \$58,000; 4. File Uploading & Sharing \$45,000; 5. Quarterly Reports \$58,000	Senior Project Mgr & Assistant 1 & 2	Y
Avante Garde	Specific Project Team not specified	N	\$280,115	Not specified	1. Compile backup docs \$32,973; 2. Communication w/subrecipients&doc in-kind costs \$83,298 3. Compile/verify meters installed \$84,480; 4. Establish sharefile system \$5,005; 5. Prepare Grant reports quarterly \$74,360	Program Director; Program Manager and Program Assistant	N

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In accordance with GWMA's Consulting Policy, the staff reviewed the Proposals received. It is the recommendation of the Executive Officer that the Board retain Civiltec Engineering, Inc. to provide Project & Grant Management Services for GWMA's Advanced Meter Replacement Project. This recommendation is based upon their responsiveness, grant experience, team and proposal cost.

FISCAL IMPACT

None.

RECOMMENDATION

- a. Accept the Proposal from Civiltec Engineering, Inc. as presented and authorize the Executive Officer to issue a Notice to Proceed once all sub-recipient agreements and matching funds are invoiced.

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Civil, Water, Wastewater, Drainage and Transportation Engineering
Construction Management • Surveying
California • Arizona

Gateway Water Management Authority
16401 Paramount Boulevard
Paramount, CA 90723

August 31, 2016

Attention: Bibi Weiss, Administrative Assistant, Sent Via Email: bibiweiss.gateway@gmail.com

Subject: Proposal for Project Management Services for the
Advanced Water Meter Replacement Project

Dear Selection Committee:

Gateway Water Management Authority (GWMA) is seeking a consultant to provide project management services to replace 4,200 water meters with Advanced Meter Reading units. This project will involve managing participants, facilitating compliance with grant requirements, and collection, preparation, and submission of supporting grant documents, and coordination with GWMA. **Civiltec engineering, inc. (Civiltec)** is excited to submit our proposal for these services.

Civiltec has a long history of delivering program management solutions to clients and have been key members to numerous agencies to deliver successful programs. This experience has included writing grants, preparing documents for grants, and monitoring projects for grant compliance. We are currently the District Engineer for Santa Clarita Water Division and have managed and executed numerous programs for them since 2007 including recycled water planning, wastewater flow harvesting, water systems master planning, installation of hundreds of thousands of feet of pipe, implementation of pump station and reservoir projects, management of the capital improvement plan financing, and oversight of all development work.

Civiltec has also provided construction management services for the City of Monrovia and the City of Norwalk. Both of the projects included government funding that was coordinated by **Civiltec**. In addition, we assisted the City of Norwalk with implementing a pilot program to replace their meters with AMR meters. We are fully capable of assisting with transitions to new, water-saving technology, and dealing with government funding sources. We are familiar with the requirements, regulations, and nuances of federal funding and are confident we can provide an exceptional service for your project.

We appreciate the opportunity to submit our proposal and look forward to assisting GWMA in the successful completion of this program. We are confident that we are the right firm for this contract and we are extremely excited and motivated to serve you. Feel free to contact the undersigned directly with any questions or comments.

Sincerely,

C. Shem Hawes, PE
Principal, Senior Engineer



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Attachment A – Breakdown of Hours and Fees



FIRM INTRODUCTION

Civiltec was established in 1986 on the principles of innovative thinking and premier quality. We maintain 14 registered civil engineers, 3 registered land surveyors, 2 certified floodplain managers, 1 LEED AP, 3 engineers-in-training and a support staff including project managers, designers, CADD technicians, survey crews, and administrative personnel in three office locations: Monrovia, California (headquarters) and Peoria and Prescott, Arizona. We are not too big; we can and will be there when needed in an efficient and affordable fashion. We are not too small; we will provide you with the depth-of-bench needed to guarantee continuous service and adherence to the project schedule.

CIVILTEC SERVICE AREAS:

- Land Surveying/Mapping
- General Civil Engineering
- Drainage Engineering
- Transportation Engineering
- Water Engineering
- Wastewater Engineering
- Construction Management

CIVILTEC COMMITMENT

Civiltec professionals are energized and committed to providing every client with fresh innovative, consistent, superior engineering, and cost effective solutions on every project. Our teams are always committed to producing plans, specifications, reports, and documents for its clients by communicating and troubleshooting early on during design to avoid construction problems or delays in the field. **Civiltec** promotes a decision making process based on the consensus of ideas and information from all project team members. This helps ensure that sound and intelligent recommendations and solutions are reached and have the best chance for success because they will also be supported by the involvement of the project team as a whole. Knowledge and communication are the foundation for successful problem avoidance and when necessary, sound and decisive problem resolution.

FIRM EXPERIENCE

Civiltec enjoys developing strong working relationships with our clients. Over the past 5 years we have averaged 175 projects per year company-wide. Approximately 90% of our work is with public agencies.

“Civiltec is our go-to engineering firm. They are a professional, customer service oriented organization.”

~ Jim Byerrum, President
California Domestic Water

Civiltec has significant experience working on projects with state and Federal funding. As can be seen in our experience, we have designed similar projects that used funding from federal sources.

Most recently, **Civiltec** worked closely with the City of Monrovia on the Station Square projects to assist in securing the proper funding. The project included multiple sources of state funding that had varying conditions and reporting requirements. **Civiltec** demonstrated their capability to organize, manage, and submit the necessary documentation to successfully complete the reimbursement process for funding.

In addition, Greg Ripperger has extensive knowledge of state and Federal funding requirements through his previous work with the United States Army Corps of Engineers. While working there, Mr. Ripperger managed multiple high profile projects that utilized multiple funding sources with specific funding requirements and oversight from governing bodies. This included an \$18M Traffic Control Tower and a \$23M Army Reserve Center.



Our success in developing strong relationships with our clients is a result of our emphasis on client service and complete satisfaction. A mutual relationship based on trust and service is a goal that is set with every project we embark upon. Providing quality project management and professional engineering is our main focus when taking on every project. Given the opportunity, we hope to become your consultant of choice.

SELECT RELEVANT EXPERIENCE

Gold Line Station Construction Management, City of Monrovia

Reference: Tina Cherry, Public Works Director | (e) tcherry@ci.monrovia.ca.us | (p) 626.256.8226

Civiltec managed the construction of Station Square, a \$17M project to construct the Monrovia Gold Line Station. The project involved the construction of a park, water feature, amphitheater, parking lot, and extensive street improvements in the surrounding streets, including street reconstruction, landscaped medians, and utility undergrounding. The project utilized multiple funding sources that were managed and coordinated with the client to ensure all funding and reporting requirements were met. The project utilized green street design and incorporated a number of cutting-edge features, including a subsurface stormwater management system. This project was constructed in 18 months.

Central Pipeline Replacement Construction Management, City of Norwalk

Reference: Julian Lee, Utilities and Projects Manager | (e) jlee@norwalkca.gov | (p) 562.929.5511

Civiltec is currently managing the construction of approximately one mile of distribution pipelines within the City of Norwalk. The project is the City's pilot program for implementing AMR meters. The City is utilizing matching state funding to replace 150 meters. **Civiltec** is assisting in the coordination and installation of replacement meters by the contractor and Norwalk forces.

Alley Improvement Projects, City of Pomona

Reference: Tim D'Zmura, City Engineer (909) 620-2261 (*Tim has retired, Jim Taylor can be contacted as a reference non-specific to this project jimd_taylor@ci.pomona.ca.us)

Civiltec designed improvements for 26 alleys, most of which were unimproved. Improvements included storm drains, asphalt paving, and new concrete intersections. The project was constructed using **federal funds**. Due to funding constraints, the project schedule was compressed. Design and final plans for the entire project were surveyed, prepared, and completed within 45 calendar days.

I-10 Deck Park Tunnel Drainage Improvements

Reference: Trent Kelso, PE, Assistant State Engineer | (e) tkelso@azdot.gov | (p) 602.712.4368

The project is located in the City of Phoenix on I-10 starting at MP 144.7 and ends at MP 145.2 between 3rd Avenue and 3rd Street. The project improvement area includes the I-10 Deck Park Tunnel, Japanese Friendship Garden, and the Margaret T. Hance Park located above the Deck Park Tunnel. This **federally funded** project included the following three main components.

- The subsurface drainage improvements including the replacement of drainage board and a perforated pipe underdrain system near the north and south edges of the tunnel deck.
- The subsurface drainage improvements along Joint 17/18 on tunnel deck including a joint sealant and the replacement of geocomposite wall drain material near the joint.
- The surface drainage improvements along Joint 19/3rd Street bridge including a joint sealant.



2015 Urban Water Management Plan Updates, San Antonio Water Company

Reference: Charles Moorrees, General Manager | (e) cmoorrees@sawaterco.com | (p) 909.982.4107

Civiltec prepared the San Antonio Water Company's 2010 Urban Water Management Plan and is currently under contract to update the 2015 Urban Water Management Plan. **Civiltec** is also preparing San Antonio Water Company's 2015 Water System Master Plan, which features strategic planning, engineering assessment, and asset management. In addition, **Civiltec** is assisting with the development of the company's funding portfolio through the preparation of multiple Prop 1 grant applications.

Suburban Water Systems Tract 72216 Candlelight, Suburban Water Systems

Reference: Jorge Lopez, Director, Engineering | (e) jlopez@swwc.com | (p) 626.543.2518

Civiltec provided full-time construction observation for the installation of water facilities located at Tract 72216 Candlelight in the City of La Mirada. The facilities included approximately 630 linear feet of 12-inch PVC pipe; approximately 2,125 linear feet of 8-inch PVC pipe; approximately 2,260 linear feet of 4-inch PVC pipe; four 6-inch fire hydrants; ninety-two 1-inch meter assemblies; three 1-inch meter assemblies for irrigation; and eighteen 2-inch blow-off assemblies. Services included records review, weekly progress meetings, observation, managing the contractor's requests for information, and change of conditions and preparation of an as-built package. This project started in November 16, 2015 and was completed in February 2016.

West Garden Grove Transmission Main, City of Garden Grove

Reference: Samuel Kim, Project Engineer | (e) samk@ci.garden-grove.ca.us | (p) 714.741.5534

Civiltec designed and provided full construction management services for the West Garden Grove Supplemental Transmission Main for the City of Garden Grove. This project included the design of approximately 24,000 feet of 16-inch transmission water pipeline, within street right-of-ways of the City of Garden Grove, City of Stanton, and Caltrans. Permits were required to be secured with Caltrans, Orange County Public Works, and Union Pacific Railroad. The project also included installation of over 5,000 feet of 4-inch to 10-inch water distribution pipeline replacements and new replacement sewer pipelines along Chapman Avenue from Brookhurst Street to Gilbert Street. The new sewer pipelines connect into an existing manhole at each intersection. Along Chapman Avenue, the existing 15-inch VCP sewer was replaced with approximately 735 feet of new 24-inch VCP sewer pipe and approximately 1,913 feet of new 18-inch VCP sewer pipe. Approximately 385 linear feet of the parallel 15-inch VCP sewer was constructed along Chapman Avenue to connect an existing 10-inch sewer main. The project included jack and bore under two existing railroad crossings, above ground span of an existing flood channel, service connections, water meters, fire hydrants, street improvements, and complete traffic control design. The total construction cost of the project was approximately \$6,270,000. The successful completion of this project led to **Civiltec's** involvement in multiple present and future sole sourced projects from the City of Garden Grove.

Hazard Mitigation, Pomona Valley Protective Association

Reference: Rosemary Hoerning, Public Works Director | (e) rhoerning@ci.upland.ca.us | (p) 909.621.3023

In 2010, during recharge operations, the spillway on Berm 3 (downstream of the San Antonio Dam) failed, resulting in a surge of water flowing into the downstream basins. At the request of the Pomona Valley Protective Association, in 2012, **Civiltec** designed the repair and reconstruction of the San Antonio Spreading Grounds berms and basins to comply with the FEMA Grant application. This project consisted of reconstructing the damaged basin elements and providing additional armoring and hydraulic relief to the basin berms. The basin berms were then



reconstructed and recompacted with native material supplemented with crushed aggregate base material as needed.

The upstream faces of the berms were armored with a shotcrete material surfacing that will extend below the ground surface to prevent hydraulic piping and berm face surface erosion. The basins were designed for a flow rate of 40 cfs.

Green Mountain Pipeline Replacement, Santa Clarita Water Division

Reference: Brent Payne, Senior Engineer | (e) bpayne@clwa.org | (p) 661.259.2737

Civiltec completed a potable water distribution pipeline replacement design for Santa Clarita Water Division in August 2014. The Green Mountain project consisted of designing approximately 2,600 linear feet of 14-inch PVC pipeline and 1,200 linear feet of 6-inch PVC pipeline including replacing fire hydrants, water service lines, and meters. The project is located in the City of Santa Clarita on Green Mountain Drive and Mountain Pass Road. The project is currently under construction and was awarded for \$825,000.

Santa Clarita Water Division, Program Management/Principal Engineer

Reference: Mauricio Guardado, Former General Manager, Santa Clarita Water Division | (e) mauriciog@unitedwater.org | (p) 661.259.2737

Civiltec has been serving as Program Manager/Principal Engineer for the Santa Clarita Water Division since 2007 on a weekly basis providing water system planning, operations, engineering, and capital improvement program development and implementation. Under an on-call, as-needed type contract, **Civiltec** has provided program development and implementation; implementation of program cost and schedule controls; program reporting; funding assistance; consultant/contractor management; staff augmentation; risk identification and management; environmental compliance assistance, development management and coordination; and assistance in the overall administration of projects.

Civiltec has completed more than 150 projects under this contact. Projects have included engineering reviews, geographic information system (GIS) support, potable and recycled water pipeline, pump station, well (siting and design), and tank (siting and design), designs as well as water master planning, and hydraulic modeling and analysis. Construction management and traffic control plans were also provided on projects, as needed.

La Puente Valley County Water District, District Engineer

Reference: Greg Galindo, General Manager | (e) ggalindo@lapuentewater.com | (p) 626.330.2126

Civiltec has been serving as District Engineer since 2012 for planning and design type projects. Under an on-call, as-needed type contract, services have included program development and implementation; implementation of program cost and schedule controls; program reporting; funding assistance; consultant/contractor management; staff augmentation; risk identification and management; environmental compliance assistance, development management and coordination; and assistance in the overall administration of projects.

Civiltec has completed more than 25 projects under this contact. Projects have included hydraulic analysis/modeling, permit assistance, and planning, design and construction support for pipelines, meter installations, recycled water needs assessment, and water master plans.





Coconino County, Interim County Engineer

Reference: Dustin Woodman, now with Parks and Recreation | (e) dwoodman@coconino.az.gov | (p) 928.679.8306

Civiltec served as Interim County Engineer for Coconino County, Arizona. Tasks included preparation and implementation of in-house engineering procedures for delivering capital improvement projects associated with pavement reconstruction, preservation, and flood control projects. A Principal Engineer was located in the County's office space twice a week from November 2012 through October 2015.

Civiltec managed in-house design of transportation projects, flood control projects, processes and procedures for planning priorities, assistance with securing funding, and scopes for capital improvement projects, while working with elected officials, residents and senior management to resolve received complaints and requests, managing consultants and contractors, strategic planning, and representing the County at state conferences. Also included under this contract was the management of flood and debris mitigation projects associated with the aftermath of the slide fire disasters.

STAFF QUALIFICATIONS

Personnel in our Monrovia office are experienced public works engineers, construction managers, and qualified observation staff with 150+ years of combined experience. All work assigned to us will be managed and accomplished out of our Monrovia, California office. **Civiltec** prides itself on personal service to our clients and has a reputation for fast response and high quality standards. We utilize the latest technologies to manage production of our projects, including video conference software and Skype for Business to communicate internally and with our clients, and we work hard to maintain a company environment of open and constant communication.

Civiltec has immediate staff availability to begin a new project and continue through completion. Our staff is currently averaging approximate 20-50% availability for new projects. We are committed to providing our best and most appropriate technical resources throughout the duration of this contract.

To ensure project resources are available we conduct weekly project team meetings to review project status and resource utilization. **Civiltec** is organized in a way that we can form anywhere from a two-person team to a twenty-person team to accomplish small and large projects. In most cases, a team is assembled with the Principal-in-Charge, Project Manager, Project Engineer, Staff Engineer, and supporting design, drafting and administrative staff. There is tremendous flexibility in our system of team organization to allow for primary team members and backups. In this way, we can handle multiple assignments at the same time and change rapidly to handle an expeditious schedule.

Civiltec proposes to assign C. Shem Hawes, PE, as company representative. He will be responsible for the firm's timely response and quality completion of this project. Mr. Hawes is principal of the firm with the authority to handle all contractual matters, commitment of **Civiltec's** resources as necessary, and authority to take all action necessary to meet your requests. Mr. Greg Ripperger, PE, LEED AP, will serve as Project Manager. He will be assisted by Lindsey Ly, Administrative Assistant.



KEY STAFF MEMBER'S RESUMES

C. Shem Hawes, PE, Principal-in-Charge

Professional Registration: Professional Engineer California, No. 69578

Education: B.S. Civil and Environmental Engineering, University of Utah, 2002



Mr. Hawes will be the company representative in all contractual matters. He has 10+ years of water and wastewater experience. Wastewater experience has included the planning, design, and construction management of wastewater treatment facilities and performing analysis on sewer collection facilities and designing sewer pump stations. In addition, he was involved in modeling and designing a water distribution and sewage collection systems. He was intimately involved with development of mass balance models for wastewater treatment processes which integrated recycled and utility water return and solids handling into the overall loading of the plant. Unique wastewater treatment plant processes could be programmed into this model to simulate mass loading through the plant and determine the cause and effect to the plant as a whole. In addition, Mr. Hawes developed hydraulic modeling systems to simulate hydraulic conditions through plant operations.

Over his tenure at **Civiltec**, Mr. Hawes has been integral in developing relationships with clientele and interacting at multiple levels with business partners and owners to develop solutions for water, wastewater, and public works projects. He has been the responsible engineer for hundreds of unique planning, design and analytical projects while acting in the role of Project Manager or Senior Engineer.

Select Project Experience

Elsinore Valley Municipal Water District, Engineering Manager Services

Project Manager for specialized engineering expertise to supplement EVMWD's staff and to provide engineering management services. Supplemental staff were present in the EVMWD's office on a routine basis to assist the Engineering Department's organization, management, work tasks, and meetings with staff, outside agencies and developers. Engineering support was also provided for large design projects and in a collaborative fashion to assist with organization, distribution, and management of design projects and development of request for proposals for consultant distribution.

Santa Clarita Water Division, Program Management/Principal Engineer

Project Manager for more than 100 projects under this contract. Projects included engineering reviews, geographic information system (GIS) support, potable water pipeline, pump station, well (siting and design), tank (siting and design), and reservoir designs as well as water master planning and hydraulic modeling and analysis. Construction management and traffic control plans were also provided on projects as needed.



Greg Ripperger, PE, LEED AP, Project Manager

Professional Registration: Professional Engineer California, No. 79499; LEED AP: BD+C

Education: B.S. Civil Engineering, Oklahoma State University



Mr. Ripperger will be assigned as Project Manager and primary point of contact with GWMA. He will be responsible for the daily supervision of the project team, management of the budget and schedules, and attendance at all project related meetings. He will also be responsible for field coordination of activities, attendance at critical meetings, supervision of inspection personnel, management of contractor submittals, change orders, pay estimates, overall schedule and field coordination of work, compliance with grant requirements and submittal of grant paperwork.

Mr. Ripperger is a professional engineer with 7+ years of experience in water engineering and construction management. His water engineering experience includes the master planning of water systems, recycled water systems, design of water facilities, including booster pump stations and pipelines. He also is responsible for preparing design reports, Urban Water Management Plans, modeling efforts for distribution facilities, hydrology studies and hydraulic calculations. Construction Management experience includes the management of Station Square, a \$16M project to improve the Monrovia Gold Line Station, an \$18M Air Traffic Control Tower, and a \$25M Army Reserve campus. Mr. Ripperger has experience performing extensive hydraulic modeling using Infowater, HEC-RAS, H2ONET, and several other software platforms. Mr. Ripperger is a LEED Accredited Professional, many of his projects have been designed and constructed using green building principles and have been LEED certified.

Select Project Experience

Station Square (\$16M project to improve the Monrovia Gold Line Station)

Construction Manager. The project involved the construction of a park, fountain, amphitheater, parking lot, and extensive street improvements in the surrounding streets. The project utilized multiple funding sources that were managed and coordinated with the client to ensure all funding and reporting requirements were met. The project utilized green street design and incorporated a number of cutting-edge features, including a subsurface storm water management system.

County of Los Angeles Pipeline

Design Engineer for 5,000 leaner feet of 6-inch potable water pipeline for the County of Los Angeles. The design included analysis of booster station and reservoir capacities, as well as investigating several off-road alternate routes.

\$1.5M Booster Station

Planning/Designer. This project included pipeline design, surge protection, and water distribution planning for several large development projects. His ability to quickly understand a water system and solve system problems with simple solutions has made him an excellent asset to the team.

Air Traffic Control Tower in Riverside

Project Engineer and Construction Manager. The project included a 130-foot tower and a 20,000 square foot support building. He was responsible for the full range of construction operations including quality, sustainability, safety and progress. He was required to identify potential problems or discrepancies between design and construction early and find an economical solution.





Mr. Ripperger is a LEED Accredited Professional (LEED AP) and was responsible for the green building and sustainability requirements. He was responsible for ensuring LEED certification for the building.

March Air Force Base

Project Engineer. He managed multiple projects including building construction, fire protection, and restoration of historic buildings totaling \$15 million annually. One of the many projects he completed was renovation of a C-17 Hanger, which included construction and installation of a new fire protection system for two hangers including new high-expansion foam, sprinklers, and mass notification. The project also included electrical and mechanical upgrades to meet NEC explosion proof requirements allowing the hanger to service planes with fuel bladders. He also managed construction of an indoor firing range (5,000 sf) with the capability of handling 50 caliber rounds of ammunition. He ensured the project received LEED Silver certification.

Santa Clarita Water Division Pipeline

Designed for 6,000 linear feet of 8-inch pipe of Santa Clarita Water Division.

Additional Engineering Team Members

Additional staff will be assigned to the project as/if needed, including Gretel Ochoa, EIT (Staff Engineer), Omner Meza (Technician), Sara Canché (Planning Technician), and Lindsey Ly (Administrative Assistant). Our project engineers and designers average 15+ years of experience with AutoCAD and Civil3D. *Civiltec* has the ability to produce color and non-color exhibits, draft plots of preliminary plans for review and final Mylar plots from any of our three HP 1050C plotters. Our administrative staff averages 16+ years of experience producing reports, specifications and graphics utilizing the latest version of Microsoft Office and Adobe Creative Cloud, including adding links to report and specification text from Excel.



PROJECT UNDERSTANDING AND APPROACH

PROJECT UNDERSTANDING

It is *Civiltec's* understanding that we will assist GWMA in managing the replacement of 4,200 meters throughout 11 service areas. The project is expected to last approximately three years.

Meetings

We will conduct a regional kick-off conference call with all participants. In addition, we will conduct a monthly progress meeting by way of a conference call with all participants. The meeting will provide schedule and budget updates and discussions of grant requirements that must be met. We will also make ourselves available to respond to participant questions at each meeting.

This proposal assumes there will be one joint progress meeting by way of conference call, not individual meetings with each participant. *Civiltec* will establish a conference call number by way of "Web Ex/Go-to-Meeting", for joint participation and will generate meeting minutes and action items from each call. It is assumed that the conference calls will each have an hour duration.

Grant Documentation and Progress Reports

We will prepare monthly status reports for the project. This will consist of preparing the report, collecting and compiling the necessary documentation, and updating the schedule. We will review the documentation to ensure the grant requirements are being followed. We will make this information available on a share file. The information will be updated on a monthly basis.

Prepare Quarterly Reports

We will prepare and submit grant documentation necessary for reimbursement. This will consist of preparing reports, invoices, gathering supporting documentation, and coordinating with partnering entities. Quarterly reports will take the place of monthly reports when they occur.

We will also facilitate compliance with the grant requirements by reasonably managing participants, consultants, and contractors that are involved in the program.

Exclusions

This proposal does not include the following:

- Field verification or inspection,
- Regular individual progress meetings with each participant,
- Presentation or attendance to City Councils, Boards of Directors, etc.



PROJECT MANAGEMENT APPROACH

Civiltec follows a simple four-part philosophy to promote the timely and successful completion of all projects; (1) we do our homework, (2) we listen, (3) we commit the best technical and personnel resources at our disposal, and (4) we communicate.

Our project management style minimizes the need for amendments to contracts and/or change orders. This process starts with the development of the project understanding and continues with constant communication throughout the project. Only with a complete understanding of the City's goals, project's requirements, potential utility conflicts, and stakeholders and other agencies' requirements and concerns can we prepare what we believe will be the most efficient and practical work plan. We then design an approach with the best available technical expertise and resources to satisfy the City's goals and bring the project to a timely and successful completion.

The work plan, possible challenges identified based on our vast experience, and our strategies to mitigate those challenges will be discussed in detail with the City at the beginning of the project. This approach helps to minimize any surprises and allows the project team to respond more quickly and decisively to finding sound and cost effective solutions to challenges, if and when they arise. Our experience to this type of focused and deliberate upfront effort allows the team the opportunity to mitigate potential problems and/or conflicts; saving the City from the extra costs of having to react to conflicts during construction.

Problem Resolution

Civiltec advocates problem resolution through a decision making process based on the consensus of ideas and information from all project team members as a group. This supports the old axiom that two heads are better than one and ensures that sound and intelligent recommendations and solutions are reached and have a better chance for success because they are supported by the involvement of the project team as a whole. Knowledge and communication are the foundation for successful problem avoidance. Understanding the project requirements and identifying potential conflicts and design challenges early in the planning phase, in conjunction with listening to others, utilizing the best available technical expertise, and communicating are the keys to formulating sound and cost effective solutions to design issues associated with any project.



Schedule and Budget Control

Civiltec has an excellent track record producing complete plans, specifications and construction documents correctly, thoroughly and on time. Whether working for a municipality, governmental agency, corporation, or a private land owner, we realize that time is money. With this in mind we best utilize our time and expertise for maximum productivity. Our objective is to provide clients with quality work and fair prices in a timely manner.

On schedule projects will be on budget projects!

We continually stress that point to our clients and team members.

We utilize Microsoft Project to develop and maintain overall project schedules. These schedules are used in communication with our clients and our staff so all expectations and budgets are met. On schedule projects will be on budget projects! We continually stress that point to our clients and team members. Project budgets and project schedules go hand in hand. We determine project



budgets by using man-hour breakdowns for every project staff member for each and every project task. Based on our man-hour estimates and staff availability, project schedules are established for every project.

Quality Assurance/Quality Control (QA/QC)

Civiltec maintains a robust QA/QC system. Our manual “Engineering and Surveying Design Control Procedures” (EDCP) is customized to fit each project. The EDCP outlines responsibilities and processes to control and verify all surveying, engineering, budgeting and project scheduling requirements. The goal is to produce exceptional, accurate, conforming, compliant, cost effective, quality deliverables as specified in the scope of work and expected by the client.



All design documents, including but not limited to, drawings, sketches, specifications, technical provisions, calculations, studies, etc., are subject to the design control and design review processes outlined in the EDCP. Design inputs, such as applicable municipal, county, state, and Federal codes and standards, contract documents and other applicable quality and technical requirements will be reviewed for applicability and incorporated into design documents.

Our Project Manager will oversee, manage, and implement the QA/QC process and be ultimately responsible for ensuring that each project milestone has been processed in accordance with *Civiltec*’s EDCP. At each milestone, the Project Engineer will ensure the submittal meets the scope of work requirements, schedule, and budget. The Project Engineer will provide weekly project updates to the Project Manager. The updates will include project status, comments on scope compliance, required action items, and updates on schedule and budget. Following review by the Project Manager, weekly project updates can be provided to the City, if desired.

The QA/QC Manager, will work directly under the Project Manager to review all project documentation for conformance with applicable standards, accuracy of information, adequacy and completeness of information and overall quality.

The QA/QC review process includes the following.

- The Reviewer will document the review of the check set plans and documents by initialing each sheet followed by the date.
- The Reviewer’s comments will be recorded on check set plans and documented in a comment memorandum, if needed, to the Project Manager.
- The Project Manager will review the check set plans and documents with the QA/QC Manager and the Project Engineer to resolve any problems revealed by the review.
- The Project Engineer will submit the original check set plans and documents and corrected plans and documents to the Project Manager for approval.

Upon completion of our internal QA/QC review, the Project Manager will make the project milestone submittal to the City. We request that the City provide review comments to the Project Manager in written form. The Project Manager will meet with the City to review your comments and prepare written responses and resolutions.

A copy of the responses and resolutions, as well as the original comments, will be provided with the resubmittal.





FEE PROPOSAL

Our professional fees for the above-described services will be billed on a time and materials, not to exceed basis as follows. A breakdown of our hours and fees is included as Attachment A.

Phase 1: Meetings	\$21,068.10
Phase 2: Grant Documentation and Progress Reports	\$31,460.00
Phase 3: Quarterly Reports	\$20,300.00
Total	\$72,828.10

Any work not authorized within 3 months of the date of this proposal will be subject to renegotiations based on current rates.

Reimbursables / Additional Services

Capacity and impact fees associated with application filings shall be the responsibility of the Owner. Reimbursable expenses will be billed at cost plus 15%. Additional services may be authorized by the Client based on **Civiltec's** Hourly Rate Schedule below. **Civiltec** will bill monthly for all work performed and expenses incurred on the project's behalf. Unpaid invoices after 30 days will accrue service charges at 1 1/2% per month and include any costs of collections and reasonable attorney's fees.

2016 Company Rate Schedule

Principal Engineer.....	\$215.00
Principal Engineer - Expert Witness Testimony.....	\$340.00
Senior Engineer.....	\$200.00
Project Manager.....	\$180.00
Project Engineer.....	\$165.00
Senior Designer.....	\$160.00
Staff Engineer	\$145.00
Associate Planner.....	\$130.00
Designer	\$125.00
Designer/Drafter	\$110.00
Planning Technician.....	\$105.00
Resident Engineer/Observer	\$105.00
CAD Technician	\$95.00
Senior Administrative Assistant	\$80.00
Administrative Assistant/Clerical	\$75.00
Two Man Survey Party	\$230.00
Survey Manager.....	\$155.00
Staff Land Surveyor.....	\$125.00
Survey Technician	\$105.00
Subcontracted Services	Cost plus 15%
Mileage	\$0.575/mile

NOTE: All rates are effective until December 31, 2016. Any increases in rates after that date will be limited to 5% maximum.



Attachment A
Breakdown of Hours and Fees

GWMA												
PM Services for AMR Replacement Project												
Date:	31-Aug-16											
	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	HOURS BY	Miscellaneous		
	PE	PM	PrE	SE	DD	PT	2-Man Survey	D	AA	Expenses	BUDGET	
RATE	\$ 215.00	\$ 180.00	\$ 165.00	\$ 145.00	\$ 110.00	\$ 105.00	\$ 230.00	\$ 95.00	\$ 75.00			
Engineering Services												
TASK A - Meetings	24	74							18.5	\$ 1,200.60	\$ 21,068.10	
TASK B - Grant Documentation and Progress Reports		72							240	\$ 500.00	\$ 31,460.00	
TASK C - Prepare Quaterly Reports		30							192	\$ 500.00	\$ 20,300.00	
TOTAL HOURS	24	176	0	0	0	0	0	0	450.5		650.5	
TOTAL BUDGET	\$ 5,160.00	\$ 31,680.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,787.50	\$ 2,200.60	\$ 72,828.10	
PM = Project Manager PrE = Project Engineer												
PE = Principal Engineer DD = Designer Drafter												
D = CAD Technician PT = Planning Technician												
AA = Admin Assistant SE = Staff Engineer												

AGENDA ITEM NO. 8

San Gabriel Valley Council of Governments Stormwater Policy

Adopted XXXXXXXXX

The San Gabriel Valley Council of Governments (SGVCOG) seeks to promote quality of life for all residents by preserving and protecting the watershed and natural environment from polluted stormwater and to capture it and dry weather runoff to augment local water supplies. We support compliance with water quality standards and strive to comply in a reasonable, practical, feasible and affordable manner.

How are water quality standards implemented in California?

Statewide, nine regional water boards, whose members are appointed by the governor, issue local Municipal Separate Stormwater Sewer System (MS4) permits for operation of local stormwater infrastructure. In 2012, the Los Regional Board issued a new MS4 permit which strongly favors attaining water quality standards through Enhanced/Watershed Management Programs (E/WMPs) by capture and infiltration of stormwater and dry weather runoff.

While most cities in LA county, including the SGVCOG member cities, agreed to join E/WMPs to achieve MS4 permit compliance, the capital costs of stormwater infiltration projects are much higher than originally anticipated. In the San Gabriel Valley, these costs are estimated at \$6 billion and cannot be funded without jeopardy to our cities' ability to continue to provide requisite life, health and safety services to our residents. Beyond these costs, there are other challenges which frustrate MS4 permit implementation and compliance. Among these are:

- Regulatory and legal restrictions that impede the use of existing regional stormwater infrastructure to access preferred infiltration sites, which would result in economies of scale and greatly reduced costs;
- Inadequate funding and unrealistically short timelines for SGV city permit compliance;
- Uncertainty over "ownership" of captured stormwater to permit monetization of augmented groundwater supplies;
- Potential future liability resulting from unintended dispersion of pollutants through stormwater infiltration;
- Disagreement over the scientific evidence supporting some numerical Total Maximum Daily Load (TMDL) pollutant targets, which may necessitate costly studies; and
- Concern that funded projects may fail to remove pollutants.

To overcome these constraints, the SGVCOG will assist member cities in their efforts to comply with water quality standards by coordinating efforts and supporting relevant programs and legislation. Specifically, the SGVCOG will pursue strategies that include, but are not limited to:

- Advocate for regulatory and legislative changes as follows:
 - Seek Regional Board support for comparatively cost-effective regional, multiagency projects that use existing regional infrastructure, such as LAFCD facilities;
 - Develop funding source and extend E/WMP compliance timelines;
 - Modify Porter-Cologne to adopt Financial Capability Assessment (FCA) guidance issued by US EPA in November 2014 in consideration of MS4 permits;

- Clarify ownership of captured stormwater;
 - Indemnify local public agencies from liability for infiltration;
 - Undertake scientific studies when there are disagreements over the scientific evidence supporting TMDL targets;
 - Support cost recovery from manufacturers for products that contribute pollutants to stormwater;
 - Modify criteria for appointment of Regional Board membership to more fully represent the diverse views of stakeholders appearing before the respective Boards;
 - Create a Municipal Ombudsman position at the Regional Board to represent the interest of residents and the public;
 - Seek state funding for MS4 permit compliance requirements in excess of Clean Water Act requirements; and
 - Seek state tax credit or other financial incentives for residential and commercial projects that capture and infiltrate stormwater.
- Regularly engage with Regional and State Boards to ensure they are aware of local concerns;
 - Coordinate and disseminate information among member cities and other regional COGs; and
 - Continually educate local elected officials and residents regarding efforts to meet water quality standards and the challenges thereof.