



**BEAUMONT-CHERRY VALLEY WATER DISTRICT
REGULAR MEETING AGENDA
BOARD OF DIRECTORS ENGINEERING WORKSHOP
560 Magnolia Avenue, Beaumont, CA 92223
Thursday, October 25, 2018 - 6:00 p.m.**

Call to Order, President Covington

Roll Call

Public Comment

PUBLIC COMMENT: At this time, any person may address the Board of Directors on matters within its jurisdiction, which are not on the agenda. However, any non-agenda matters that require action will be referred to Staff for a report and possible action at a subsequent meeting. To provide comments on specific agenda items, please complete a speaker's request form and provide the completed form to the Board Secretary prior to the Board meeting. Please limit your comments to three minutes. Sharing or passing time to another speaker is not permitted.

ACTION ITEMS

- 1. Consideration of Authorization of General Manager to enter into a Contract for Grant Writing Consulting Services (pages 3 – 236)**
- 2. Update: Bogart Park Lease Agreement (pages 237 – 289)**
- 3. Discussion and Consideration Regarding the Draft 2018 imported Water Rate Analysis for the San Geronio Pass Water Agency (pages 290 – 295)**

INFORMATION / DISCUSSION ITEMS

- 4. Water Re-Use 2x2 Committee Update and BCVWD implementation status**
 - a. City of Beaumont / BCVWD Ad Hoc Recycled Water Committee Status Report No. 1**
 - b. Recycled Water implementation schedule**
 - c. Booster Station Facilities preliminary schedule (pages 296 – 317)**
- 5. Update: East Branch Extension – Noble Turnout Upgrade Status Report (page 318 – 335)**
- 6. Update: Potential Security Strategies for the Noble Creek Recharge Facility Phase I (pages 336 – 341)**
- 7. Well Facilities Above Ground Improvements (handout)**
- 8. Discussion regarding Upcoming Press Release Opportunities (no staff report)**

9. Update: Status of District Wells, Capital Improvements, and Engineering Projects (pages 342 - 347)

10. Update: Legislative Action and Issues Affecting BCVWD (pages 348 - 350)

11. Reports For Discussion

- a. Ad Hoc Committees
 - o Bogart Park AD Hoc Committee
 - o Ad Hoc Committee for Water Re-Use
- b. General Manager

12. Topics for Future Meetings

13. Adjournment


AVAILABILITY OF AGENDA MATERIALS - Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Beaumont-Cherry Valley Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection in the District's office, at 560 Magnolia Avenue, Beaumont, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during the meeting, they can be made available from the District Office in the Board Room of the District's Office.

REVISIONS TO THE AGENDA -In accordance with §54954.2(a) of the Government Code (Brown Act), revisions to this Agenda may be made up to 72 hours before the Board Meeting, if necessary, after mailings are completed. Interested persons wishing to receive a copy of the set Agenda may pick one up at the District's Main Office, located at 560 Magnolia Avenue, Beaumont, California, up to 72 hours prior to the Board Meeting.

REQUIREMENTS RE: DISABLED ACCESS - In accordance with §54954.2(a), requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the District Office, at least 48 hours in advance of the meeting to ensure availability of the requested service or accommodation. The District Office may be contacted by telephone at (951) 845-9581, email at info@bcvwd.org or in writing at the Beaumont-Cherry Valley Water District, 560 Magnolia Avenue, Beaumont, California 92223.

**CERTIFICATION OF POSTING
REGULAR MEETING**

I certify that on or before 5:59 p.m. Oct. 22, 2018, a copy of the foregoing notice was posted near the regular meeting place of the Board of Directors of Beaumont-Cherry Valley Water District and to its website at least 72 hours in advance of the meeting (Government Code §54956(a)).



Yolanda Rodriguez
Director of Finance and Administration



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 1

STAFF REPORT

TO: Board of Directors

FROM: Dan Jagers, General Manager

SUBJECT: **Consideration of Authorization of General Manager to enter into a Contract for Grant Writing Consulting Services (tabled from October 2, 2018)**

Staff Recommendation

Authorize the General Manager to enter into a contract with one of the following firms to provide grant writing services for Beaumont-Cherry Valley Water District:

BCVWD: Grant Writing Consulting Services							
Company Names	Year 1	Year 2	Year 3	Hourly Rate	Location	Comments	Per Grant Fee
1) Townsend Public Affairs	\$ 48,000	\$ 48,000	\$ 48,000	\$4,000/mth Flat Fee (average \$150/hr.)	New Port Beach, CA	10 Water Entities clients.	Yes
2) John Robinson	\$ 69,958	\$ 63,658	\$ 56,696	average \$120-\$150/hr. depending of grant laboriousness	Pasadena	12 Water Entities clients	Yes
3) Grant Management	\$ 44,880	\$ 49,500	\$ 66,000	\$165/hr.	Durham, CA (Chico)	Travel not included price. 1 water district	Yes
4) Michael Baker International	\$ 34,000	\$ 26,400	\$ 27,300	\$8,500/grant \$8,800/grant \$9,100/grant	Temecula, CA	2 water entities	Yes
5) California Consulting Inc.	\$ 55,250	\$ 51,000	\$ 51,000	\$1,000-\$12,000/grant (depending on grant amount) \$95/hr. average	El Segundo, CA	No water districts listed. Cities listed	Yes

Scoring is based on technical, number of years experienced for the assigned grant writers, references, cost.

Background

The District published a Request for Proposals (RFP) for grant writing consulting services on July 3, 2018. The due date for this RFP was July 31, 2018 at 4:00 p.m. Five (5) bid packages were received and reviewed by staff. Staff feels comfortable with any of the top three bidders listed above to meet the District's grant writing needs. Staff's rating and ranking of the bids was based on technical experience, cost and reference checks. Staff requests guidance from the Board of Directors for a selection with which the Board feels comfortable based on cost and experience.



Summary

Staff has identified potential funding opportunities available through grant funding and believes that hiring a consulting firm for grant writing would provide the best probability of securing grant funding. The RFP was written to include determining a methodology for identifying District projects that are available for grant funding, grant funding research, grant proposal development and monthly reports to summarize the amount of time expended and describe activities undertaken during the previous month in the scope of work.

Staff solicited bids for said project in the local newspaper, on the District's website during a four-week period in July, and also contacted reputable firms that specialize in this class of work. Sealed bids were received from five (5) firms and opened on July 31, 2018. These proposals were reviewed and scored by District staff on the bases of technical and cost approach, experience, and references.

Proposers

John Robinson Consulting, Inc.
Michael Baker International
California Consulting, Inc.
Grant Management Associates
Townsend Public Affairs

Staff has completed a review of the submitted bids and has determined that any of the top three firms is qualified to meet the District's grant writing needs based on the scope of work described in BCVWD's RFP.

At this time, Staff requests that the Board authorize award of the work related to grant writing consulting services to one of the above top three bidders in the amount so designated.

Fiscal Impact

The fiscal impact to the District will be in an amount of the selected bid provided above.

Note that additional, unknown costs may be incurred, such as travel time, mileage and consultant incidental expenses.

Staff has determined that funds are available from the operating budget for completion of this work.

Attachments

1. Townsend Public Affairs Proposal
2. John Robinson Consulting, Inc. Proposal
3. Grant Management Associates Proposal
4. Michael Baker International Proposal
5. California Consulting, Inc. Proposal

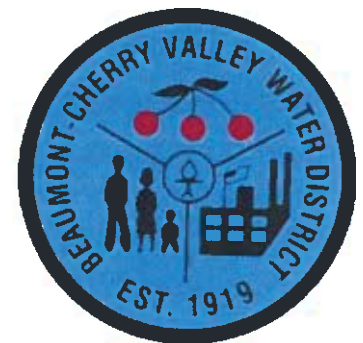
Report prepared by Erica Gonzales, Administrative Assistant

TOWNSEND

PUBLIC AFFAIRS

EST TPA 1998

ORIGINAL



Proposal for Grant Writing
Consulting Services

July 31, 2018

Christopher Townsend*
*Authorized Representative

WWW.TOWNSENDPA.COM

SACRAMENTO • WASHINGTON, DC
NORTHERN CALIFORNIA • CENTRAL CALIFORNIA
SOUTHERN CALIFORNIA

ORIGINAL

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Tab Six: Not-to-Exceed Cost Estimate.....	Attached in Sealed Envelope



1. FIRM QUALIFICATIONS

July 31, 2018

Yolanda Rodriguez, Director of Finance
Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92333

Dear Mrs. Rodriguez:

Thank you for the opportunity for Townsend Public Affairs, Inc. ("TPA") to submit our proposal for Grant Writing Consulting Services to the Beaumont-Cherry Valley Water District ("District").

Since its inception in 1998, TPA has earned the reputation of providing the experience, resources, and relationships expected from a premier grant writing firm. Additionally, we give our clients the unique brand of customer service they deserve: personal attention, accessibility, and passion for their mission.

TPA uses a strategic and comprehensive approach for managing grant funding that is tailored to leverage our expertise and vast political network to help achieve grant awards for our clients. We have secured over **\$1.2 billion** in competitive grants from state, federal, and local government agencies, as well as nonprofit and private sources. Our success is the result of the breadth and depth of our experience as dedicated state and federal grant writers.

Thank you again for your interest in our firm and your consideration of our proposal. Please contact us if you have any questions or need additional information. We would be honored to serve you and the Beaumont-Cherry Valley Water District.

Yours truly,



Christopher Townsend*
President

*Authorized representative



ABOUT TPA

TPA is a legislative advocacy and grant writing firm that provides state, federal, and local lobbying and funding services to our clientele of public agencies and nonprofit organizations throughout California.

- **Founder/Owner/President:** Christopher Townsend
- **Advocacy Success:** Shepherded dozens of client-sponsored legislative proposals into law
- **Funding Success:** Over **\$1.2 billion** in state, federal, and local government grants as well as nonprofit and private grants
- **Longevity:** 20 years (founded in 1998)
- **Number of Employees:** 16
- **Number of Registered State and Federal Lobbyists and Grant Writers:** 13
- **Number of Offices:** Five
 - TPA State Capitol Office, Sacramento
 - TPA Southern California Office, Newport Beach
 - TPA Central California Office, Fresno
 - TPA Northern California Office, Oakland
 - TPA Federal Office, Washington, DC
- **Client Base:** 81 Clients
 - Water and Sanitation Districts
 - City Governments
 - County Governments
 - Transportation Districts
 - K-12 School Districts
 - Community College Districts
 - Parks and Recreation Districts
 - Museums, Science Centers, and Cultural Facilities
- **Areas of Specialization:**
 - Water and Sanitation Policy and Infrastructure
 - Local Governance (Cities, Counties, Special Districts)
 - Transportation Policy and Infrastructure
 - Education Policy and Infrastructure
 - Parks and Community Facilities (Recreational, Cultural, Historical)
 - Natural Resources and Energy
 - Housing and Economic Development
 - Public Safety
 - Budget and Finance
- **Ranking by Revenue Reported to the California Secretary of State:**
 - 10th of 436 Firms Registered for 2017-18 Legislative Session
 - 98th Percentile



GRANT FUNDING ACHIEVEMENTS

This table provides an overview of our grant funding achievements on behalf of our clients from state, federal, and local government agencies as well as private and nonprofit grant programs. These amounts represent grants secured through a competitive and/or legislative process and do NOT include any funds awarded to clients via formulas or related forms of funding entitlements.

Policy Sector	State Funding	Federal Funding	All Sources
Water and Sanitation	\$79.8 Million	\$6.2 Million	\$86 Million
Transportation	\$150.3 Million	\$101.7 Million	\$252.0 Million
Parks and Recreation	\$88.2 Million	\$6.2 Million	\$94.4 Million
Housing and Economic Development	\$343.0 Million	\$5 Million	\$348.0 Million
Public Safety	\$40.4 Million	\$45.6 Million	\$86.0 Million
Cultural Resources	\$93.3 Million	\$7 Million	\$100.3 Million
Education	\$218.7 Million	\$22.2 Million	\$240.9 Million
TOTAL	\$1.014 Billion	\$194 Million	\$1.208 Billion

A DETAILED SCHEDULE OF OUR STATE, FEDERAL, AND LOCAL GRANT FUNDING ACHIEVEMENTS CAN BE PROVIDED UPON REQUEST



STATE GOVERNMENT RELATIONSHIPS

- **Beaumont-Cherry Valley Water District Legislative Delegation:**
 - Senator Mike Morrell
 - Assembly Member Chad Mayes

- **Governor's Administration and Agency Leadership:**
 - Governor Jerry Brown
 - Deputy Cabinet Secretary Kim Craig
 - Deputy Director of Legislative Affairs Graciela Castillo-Krings
 - Deputy Legislative Secretary Catalina Hayes-Bautista
 - Lieutenant Governor Gavin Newsom
 - Treasurer John Chiang
 - Controller Betty Yee
 - Attorney General Xavier Becerra
 - Secretary of State Alex Padilla
 - Chair Diane Harkey, State Board of Equalization
 - Director Karla Nemeth, Department of Water Resources
 - Director Michael Cohen, Department of Finance
 - Secretary John Laird, Natural Resources Agency
 - Director Lisa Mangat, Department of Parks and Recreation

- **State Legislative Leadership:**
 - Senate President Pro Tempore Toni Atkins
 - Senate Minority Leader Patricia Bates
 - Assembly Speaker Anthony Rendon
 - Assembly Minority Leader Brian Dahle

- **Key Legislative Committees:**
 - Senate Committee on Budget and Fiscal Review
 - Senate Committee on Energy, Utilities, and Communications
 - Senate Committee on Environmental Quality
 - Senate Committee on Natural Resources and Water
 - Assembly Committee on Budget
 - Assembly Committee on Environmental Safety and Toxic Materials
 - Assembly Committee on Natural Resources
 - Assembly Committee on Utilities and Energy
 - Assembly Committee on Water, Parks, and Wildlife

FEDERAL GOVERNMENT RELATIONSHIPS

- **Beaumont-Cherry Valley Water District Legislative Delegation:**
 - Senator Dianne Feinstein
 - Senator Kamala Harris
 - Congressman Raul Ruiz

- **President's Administration and Federal Agencies:**
 - White House Office of Intergovernmental Affairs
 - Department of Agriculture
 - Department of Commerce
 - Department of Housing and Urban Development
 - Department of Justice
 - Department of Labor
 - Department of Transportation
 - Army Corps of Engineers
 - Bureau of Reclamation
 - Economic Development Administration
 - Environmental Protection Agency
 - Fish and Wildlife Service
 - National Marine Fisheries Service
 - National Park Service

- **Key Legislative Committees:**
 - Senate Committee on Appropriations
 - Senate Committee on Energy and Natural Resources
 - Senate Subcommittee on Water and Power
 - Senate Committee on Environment and Public Works
 - Senate Subcommittee on Fisheries, Water, and Wildlife
 - House Committee on Appropriations
 - House Committee on Natural Resources
 - House Subcommittee on Water, Power, and Oceans
 - House Committee on Transportation and Infrastructure
 - House Subcommittee on Water Resources and Environment

A DETAILED LIST OF OUR STATE, FEDERAL, REGIONAL, AND LOCAL RELATIONSHIPS CAN BE PROVIDED UPON REQUEST



2. EMPLOYEES PERFORMING GRANT WRITING/RELATED SERVICES

TPA has dedicated a team of six people to perform grant writing and related services to the District. Relevant information about each of the six members of the team is listed below.

1. Christopher Townsend, President

Role: Senior Strategic Advisor

Education: Master of Public Administration from the JFK School of Government at Harvard University in 1991 and a Bachelor of Arts in Political Science from Claremont McKenna College in 1982.

Relevant Experience and Qualifications: Christopher has 36 years of funding and legislative advocacy and public policy experience and 20 years as the Founder and President of TPA. In addition, he provides strategic guidance and grant funding support for every client, including cities.

2. Cori Williams, Southern California Director

Role: Project Manager and Strategic Advisor

Education: Master of Public Administration from Chapman University in 2014 and a Bachelor of Arts in Economics and Government with Leadership Sequence from Claremont McKenna College in 2011.

Relevant Experience and Qualifications: Cori has over a decade of grant writing, funding and legislative advocacy, and public policy experience and has secured significant grant funding for clients throughout California.

3. Sharon Gonsalves, Senior Associate

Role: Grant Writer

Education: Bachelor of Arts in Communications from California State University Monterey Bay in 2003.

Relevant Experience and Qualifications: Sharon has over a decade of grant writing, funding and legislative advocacy, and public policy experience and has secured significant grant funding for clients throughout California.

4. Eric O'Donnell, Associate

Role: Grant Writer

Education: Candidate for Master of Public Administration from Chapman University in 2019 and a Bachelor of Arts in Business Management and General Management from California State University Fullerton in 2014.

Relevant Experience and Qualifications: Eric has three years of grant writing, funding and legislative advocacy, and public policy experience with public agencies throughout California.



5. Johannus Reijnders, Associate

Role: Grant Writer

Education: Candidate for Bachelor of Arts in English from California State University Fresno in 2020.

Relevant Experience and Qualifications: Johan has two years of grant writing experience for public agencies throughout California.

6. Zac Commins, Associate

Role: Federal Grant Writer

Education: Bachelor of Arts in Political Science from University of California Berkeley 2015.

Relevant Experience and Qualifications: Zac has grant writing experience for public agencies throughout California.

3. RESUMES OF EMPLOYEES ASSIGNED TO DISTRICT SERVICES



Christopher Townsend, President: Christopher founded TPA in 1998 and has over 36 years of experience in public affairs, legislative advocacy, and grant writing. Christopher and TPA have represented 305 clients, including 234 local public agencies, such as cities, counties, transportation agencies, water and sanitation districts, school districts, community college districts, park and recreation districts, and other special districts, as well as nonprofit organizations.

Townsend Public Affairs, Inc.
President

1998-Present

Christopher provides leadership to a team of 16 professionals and manages the development and implementation of strategies for client agendas. Some achievements include:

- Under Christopher's leadership, TPA has shepherded dozens of legislative and regulatory proposals into law over a wide range of policy areas, including local governance, water and sanitation, transportation, education, housing and economic development, parks and natural resources, historical and cultural resources, and public safety. The bipartisan capabilities of the firm are demonstrated by legislative successes over the tenure of several administrations, including Governors Pete Wilson, Gray Davis, Arnold Schwarzenegger, and Jerry Brown.
- Christopher and his team have secured over **\$1.2 billion** in local, regional, state, and federal government grants as well as private and nonprofit grants for a multitude of legacy projects in the policy sectors of water and sanitation, transportation, education, housing and economic development, parks and natural resources, historical and cultural resources, and public safety.
- Christopher and TPA have participated in the development and implementation of several California bond propositions for the statewide ballot to provide capital funding for major infrastructure projects, including water and sanitation, transportation, education, housing and economic development, parks and natural resources, and historical and cultural resources, including Propositions 1, 1B, 1C, 1D, 1E, 12, 13, 14, 40, 47, 50, 55, and 84. Christopher worked closely with the State Legislature over the last two years on the drafting of SB 5 (De Leon), the **\$4 billion** park bond legislation that has been signed by the Governor to be placed on the June 2018 statewide ballot.
- In 2002, Christopher was personally requested by Oakland Mayor Jerry Brown to help him secure funding for three of his priority projects for the City of Oakland: the establishment of the Oakland Military Institute (OMI), the creation of a permanent facility for the Oakland School of the Arts (OSA), and the renovation and restoration of the historic Fox Theater. Under Christopher's leadership, TPA secured over **\$24.5 million** for all three projects.



PepsiCo/Taco Bell Corp., Irvine, CA*Senior Director, Government & Community Affairs*

1992-1998

Christopher managed and directed government and media relations, crisis management, internal communications, and marketing publicity. Christopher also managed the political action committee for state and federal political races. Additionally, Christopher managed community relations initiatives, corporate philanthropy, and the Taco Bell Foundation.

Stein-Brief Group, Inc., Dana Point, CA*Vice President, Public Affairs*

1982-1992

Christopher directed government, community, and media relations at the level, state, and federal levels, including the management of all political, civic, charitable, and cultural activities. Christopher provided land-use planning and entitlement process analysis for domestic and international projects. Christopher also managed activities with numerous state and federal agencies to ensure compliance with all applicable laws and regulations governing land use. Finally, Christopher created and directed a political action committee that supported various local, state, and federal candidates and ballot initiatives.

JFK School of Government, Harvard University, Cambridge, MA*Master of Public Administration*

1991

Claremont McKenna College, Claremont, CA*Bachelor of Arts, Political Science, Magna cum Laude, Political Science Honors Prize*

1982

Coro Fellow*Southern California*

1981

Harry S Truman Scholar*California*

1980

Hourly Rate: \$200



Cori Williams, Southern California Director: Cori brings over a decade of legislative advocacy and public policy experience to TPA. Cori has extensive experience writing grants for various local, regional, state, and federal opportunities. Cori has expertise in the policy sectors of water resources, infrastructure, sanitation, local governance, transportation, parks and recreation, and economic development.

Townsend Public Affairs, Inc.
Director

2011-Present

Throughout her tenure at TPA, Cori has been responsible for securing millions in competitive grant funds for local public agency clients. In addition to her expertise on municipal and water infrastructure issues, Cori has a strong network of relationships with State Legislators, key staff, various state agencies, and the County of Orange. Cori's funding and policy experience, as well as her network of relationships, makes her an effective advocate for clients. Some of Cori's accomplishments include the following:

- Leveraging relationships with the State Legislature, Cori secured an earmark in the FY17-18 State Budget in the amount of **\$20 million** to form the North Orange County Public Safety Task Force. This Task Force will serve six TPA clients: the cities of Anaheim, Brea, Buena Park, Fullerton, Placentia, and Stanton. These cities will be able to facilitate regional collaborative efforts to combat homelessness, youth violence, and other critical public safety issues in the region.
- Cori worked with local public agency clients to secure over **\$1 million** in Sustainable Communities Planning Grants from the Strategic Growth Council. Cori worked closely with the Strategic Growth Council staff throughout the development and implementation of the grant program, and wrote numerous successful applications for TPA clients.
- Cori worked with the City of Brea to secure over **\$10 million** from local, state, and federal sources for the Tracks at Brea project. The project is a four-mile multi-use rail to trail project that will traverse the City. Funding sources include: the US Environmental Protection Agency, California Natural Resources Agency, Strategic Growth Council, California Transportation Commission, and the Southern California Association of Governments.
- Cori worked with the Fremont Basin, located in the Lahontan Hydrologic region, to draft a Department of Water Resources Regional Acceptance Process Application to be accepted as an Integrated Regional Water Management (IRWM) region. The overriding water management issue for the region was groundwater management and determining a long-term safe yield available to support development of existing lots. There were also prevailing water and sewer infrastructure needs as many developed parcels have inadequate water supply lines or lacking public sewers. The approved acceptance of this region into the IRWM allowed the Fremont Basin to seek funding through the Department of Water Resources.

County of Orange, Board of Supervisors
Policy Advisor for Supervisor John Moorlach

2010

Cori served as a policy advisor for, then-County of Orange Supervisor (and who is now a Senator in the State Legislature). Cori was responsible for research, analysis, and subsequent recommendations of all policy issues relating to Orange County Public Works as well as state and federal legislation. Cori served as a liaison between the Supervisor and County staff, constituents, and community groups.

Tom Campbell for US Senate Campaign

2010

Cori reported to campaign's Director for Research and Policy. Cori drafted Mr. Campbell's "Statement for Financial Services Reform."

Chapman University, Orange, CA
Master of Public Administration

2014

Claremont McKenna College, Claremont, CA
Bachelor of Arts Economics and Government with Leadership Sequence

2011

Hourly Rate: \$150



Sharon Gonsalves, Senior Associate: Sharon brings over a decade of experience working in legislative advocacy and public policy to TPA. She specializes in the legislative process, reviewing, tracking, and analyzing bills, and monitoring agency regulations with strong relationships from the Capitol, Administration, and key agencies. Sharon has expertise in the policy sectors of housing, local governance, water resources, environment, energy, and agriculture.

Townsend Public Affairs, Inc.
Senior Associate

2015-Present

Throughout her tenure at TPA, Sharon has worked with local public agency clients, especially those from severely disadvantaged regions of California, to secure millions of dollars for critical infrastructure and public safety improvements. Some of her recent accomplishments include:

- Leveraging relationships with the State Legislature, Sharon secured earmarks in the FY17 State Budget in the amounts of **\$4 million**, **\$1.2 million**, and **\$950,000** to build, rehabilitate, and relocate the police stations in the Cities of Huron, Firebaugh, and Mendota, respectively. Their existing police stations are uninhabitable and unsafe; these funding earmarks will enable these cities to better serve and protect their residents.
- Sharon worked with the City of Orange Cove and the Orange Cove Fire Protection District to secure a **\$568,700** grant from the Federal Emergency Management Agency (FEMA) Assistance to Firefighters Grant. The grant funded the cost of a Type 1 interface engine fire truck, replacing a worn and outdated vehicle vital to the operation of the District. The grant also included funds for the complete outfitting of the vehicle with almost **\$70,000** worth of equipment.
- Sharon helped the City of Huron secure a **\$420,518** grant from the Congestion Mitigation and Air Quality Improvement (CMAQ) Program, administered by the Fresno Council of Governments (FCOG). Sharon participated in the development and submittal of the application, working in coordination with FCOG, the California Department of Transportation, and the US Department of Transportation. The proceeds from this grant will pave multiple roads within the City.

Senator Anthony Cannella
Legislative Director

2012-2015

Sharon drafted legislative language, reviewed, tracked, and analyzed legislative bills, public laws, and agency regulations, and monitored legislative committee and agency hearings. Sharon also testified at hearings on behalf of the Senator, maintaining relationships with key legislators, other legislative staff, committee consultants, and administrative agency staff, including within the Governor's Office. Additionally, Sharon coordinated legislative strategies with other interest groups and related associations.

Assemblywoman Diane Harkey
Capitol Director

2008-2012

Sharon managed the State Capitol Office on behalf of the Assembly Member. Sharon also staffed the Assembly Member on the Appropriations Committee as well as sitting on the Budget and Revenue and Taxation Committees.

Assemblywoman Bonnie Garcia
Legislative Director

2006-2008

Sharon managed legislation for the Assembly Member in the policy areas of economic development, housing, and public safety. Sharon worked closely with legislative staff, committee consultants, state agencies, and interested parties on legislation. Sharon also advised the Assembly Member on pending legislation.

California State University, Monterey Bay
Bachelor of Arts, Communications

2003

Hourly Rate: \$125



Eric O'Donnell, Associate: Eric brings three years of experience in local governance and grant writing to TPA. Eric has been responsible for major grant awards on behalf of public agency clients. Eric has a strong network with both staff and members of the state and federal Orange County Delegation as well as relationships with local Orange County municipalities. Eric has expertise in the policy sectors of water resources, natural resources, local governance, parks and recreation, and transportation.

Townsend Public Affairs, Inc.
Associate

2015-Present

Since joining TPA, Eric has worked with numerous public agencies to secure grant funding for water and sanitation policy and infrastructure, natural resources, and parks and recreation. Some of his accomplishments include:

- Eric worked with the Orange County Sanitation District to secure a **\$1 million** grant award from the Department of Water Resources' Integrated Regional Water Management Grant Program replacing a critical sewer line. Eric worked closely with staff at the Orange County Sanitation District, the Department of Water Resources, and the Santa Ana Watershed Project Authority throughout the development and implementation of the grant program.
- Eric secured a **\$500,000** grant award from the California Natural Resources Agency for the City of Laguna Beach's DeWitt Property Habitat Restoration project. The project removes invasive species surrounding portions of the Laguna Canyon Creek and restores over 5 acres of critical riparian habitat. Eric implemented a successful project strategy to secure this important funding win for the City, which included an influential site visit by California Natural Resources Agency staff.
- Eric helped the City of Fountain Valley secure a **\$226,000** grant from the Active Transportation Program, administered by the Southern California Association of Governments and the California Transportation Commission. The funding allowed the City to build ADA accessible pedestrian curb ramps within neighborhoods that are located near five elementary and middle schools in the Fountain Valley School District and the Ocean View School District. The project will provide greater mobility for the public and improve the safety of the City's routes to local schools.

City of Brea
Community Services Senior Leader

2009-2015

Eric was responsible for the organization, design, and implementation of all elements of youth sports programs for over 200 children and 400 parents. Eric helped to orient, train, and supervise new staff in all aspects of their job responsibilities. Eric was also responsible for setup, monitoring, and providing customer service for events with up to 400 people.

Chapman University, Orange, CA
Candidate for Masters of Public Administration

2019

California State University, Fullerton
Bachelor of Arts, Business Administration, General Management

2014

Hourly Rate: \$100





Johannus Reijnders, Associate: Johannus brings experience in local governance and grant funding to TPA. Johannus has secured significant grant funding for programs and projects of local public agency clients throughout California. Johannus has extensive knowledge and experience with grant programs from government agencies, as well as nonprofit organizations and private foundations. Johannus has expertise in grant writing within several policy sectors including education, transportation, local governance, and parks and recreation.

Since joining TPA, Johannus has been involved with a wide variety of grant funded projects for municipalities, school districts, and non-profit organizations. Johannus' wide knowledge and experience with local, state, federal and nonprofit grant programs have allowed him to successfully match client projects with available funding sources. Some grant funding accomplishments include:

- Johannus worked with Kings Canyon Unified School District to secure **\$348,879** from the Congestion Mitigation and Air Quality (CMAQ) Improvement Program. This involved coordination with the District, the local Council of Governments, and the California Department of Transportation to ensure that the application and subsequent grant award process was completed. The funding allowed the District to purchase two compressed natural gas (CNG) buses.
- Johannus led a joint application with the City of Emeryville, the Emeryville Transportation Management Association, and the Alameda-Contra Costa Transit District that was awarded **\$238,819** from the Bay Area Air Quality Management District. Johannus developed the application and shepherded it through the grant process. This resulted in critical local funding for the City to continue its fare-free last-mile shuttle service connecting employees, residents, and visitors of Emeryville from the MacArthur BART Station to various locations throughout the City.
- Johannus worked with the Guadalupe Union School District to secure **\$70,898** from the California State Preschool Program. The funding allowed the District to establish a full-year preschool program, addressing the needs of low income working families in the area. Funding also allowed the district to provide a curricular framework targeted at helping children with special needs attain the foundations to progress academically and socially.
- Johannus worked with the Guadalupe Union School District to secure over **\$45,000** from the Good Sports Foundation. The funding allowed the District to purchase new sports equipment for its over 1,200 students. This funding also revamped the District's depleted Physical Education Department to better serve the boom in local student enrollment.

California State University, Fresno
Candidate for Bachelor of Arts in English

2020

Hourly Rate: \$100





Zac Commins, Associate: Zac brings Capitol Hill experience to TPA as well as a robust network of relationships of Congressional Members and staff on Capitol Hill. Zac has experience managing legislative activity, including expertise in the appropriations and legislative process. Zac has expertise in several domestic policy areas, including transportation, labor, environmental issues, housing, health care, and financial services.

Since joining TPA, Zac has worked with our clients to advance their federal priorities. Zac has facilitated client visits to Washington, DC for meetings with Members of Congress, congressional staff, and key Administration officials. Some of Zac's accomplishments include:

- Zac has leveraged his relationships with key grant officials at various federal agencies to ascertain their specific priorities required for successful grant applications. Zac has identified new and previously-underutilized federal grants for the benefit of TPA clients. He has leveraged his relationships with key grant officials at various federal agencies to ascertain their specific priorities and buzz words required for successful grant applications. Zac then leverages that information to help TPA federal clients develop and submit more competitive federal grant applications and then provide more effective tailored advocacy to secure funding awards.
- Zac regularly utilizes his knowledge of congressional process to engage elected officials at opposite ends of the political and ideological spectrum. Most recently, Zac leveraged these relationships ensure that legislation was amended and passed in a recent bill package to address the opioid crisis. Zac brokered a narrow legislative compromise to legislative language concerning recovery homes, and ensured that local governments were not burdened by unfair reporting requirements as a condition of operation in their jurisdiction.
- Zac has facilitated numerous Washington, DC visits for local governments. Zac leverages his relationships with a wide variety of congressional offices and federal agencies to secure opportunities for clients to discuss their policy priorities. Zac ensures that elected officials and key staff can collaborate with Members of the California congressional delegation, other relevant elected officials, and key officials in the Administration.

US House of Representatives, Office of Congressman Eric Swalwell

Legislative Intern, Staff Assistant, Legislative Aide, Legislative Assistant

2015-2017

Zac served as Congressman Swalwell's principal advisor on a wide array of domestic policy issues, including transportation, health care, and labor. Zac drafted legislation, policy memoranda, floor speeches, and talking points for Congressman Swalwell and senior staff. Zac built relationships with hundreds of local, state, and federal government, industry, and advocacy groups to address constituent problems and advance the Member's policy initiatives. Zac worked with governments and other relevant stakeholders in the Congressman's district and the surrounding region on promoting and executing surface transportation projects, including highway improvements and the expansion of transit and commuter rail services.



Zac coordinated a number of appropriations requests and successfully worked to add report language on clinical oncology trials in the fiscal year 2018 agriculture appropriations bill. Zac managed the constituent correspondence system, which sent more than 25,000 letters and emails to constituents annually.

University of California, Berkeley
Bachelor of Arts, Political Science

2015

Hourly Rate: \$100

4. CURRENT AND PRIOR CLIENTS

CURRENT CLIENTS

The table below outlines each of TPA's current clients by: name, type of service (either advocacy, grant writing, or both), level of service (either state (S), federal (F), or state and federal (S/F)), contact name, contact address, and contact telephone number.

Client	Type of Service	Level of Service	Contact Name	Contact Address	Contact Telephone
Cities and Counties					
City of Anaheim	Both	S	Greg Garcia	200 South Anaheim Boulevard Anaheim, CA 92805	(714) 765-5094
City of Avalon	Both	S/F	Audra McDonald	410 Avalon Canyon Rd. P.O. Box 707 Avalon, CA 90704	(310) 510-0220
City of Beaumont	Both	S/F	Kyle Warsinski	550 East 6 th Street Beaumont, CA 92223	(951) 769-8527
City of Berkeley	Advocacy	S	Dee Williams Ridley	2180 Milvia Street Berkeley, CA 94704	(510) 981-7000
City of Brea	Both	S/F	Bill Gallardo	1 Civic Center Circle Brea, CA 92821	(714) 990-7600
City of Buena Park	Both	S/F	Jim Vanderpool	6650 Beach Boulevard Buena Park, CA 90621	(714) 562-3550
City of Carson	Advocacy	S/F	Lisa Berglund	701 East Carson Street Carson, CA 90749	(310) 952-1728
City of Chino Hills	Advocacy	S	Rad Bartlem	14000 City Center Drive Chino Hills, CA 91709	(909) 364-2610
City of Costa Mesa	Grant Writing	S/F	Dan Baker	77 Fair Drive Costa Mesa, CA 92626	(714) 754-5327
City of Dinuba	Both	S/F	Luis Patlan	405 East El Monte Way Dinuba, CA 93618	(559) 591-5900
City of Duarte	Grant Writing	S/F	Darrell George	1600 Huntington Drive Duarte, CA 91010	(626) 357-7931
City of El Monte	Both	S	Alex Hamilton	11333 Valley Boulevard El Monte, CA 91731	(626) 580-2002
City of Emeryville	Both	S/F	Dianne Martinez	1333 Park Avenue Emeryville, CA 94608	(510) 596-4300
City of Fullerton	Both	S/F	Ken Domer	303 W. Commonwealth Avenue Fullerton, CA 92832	(714) 738-6300
City of Half Moon Bay	Both	S/F	Danielle Sanderson	501 Main Street Half Moon Bay, CA 94019	(650) 726-8280
City of Hayward	Both	S	Kelly McAdoo	777 B Street Hayward, CA 94541	(510) 583-3601
City of Hesperia	Both	S	Nils Bentsen	9700 Seventh Avenue Hesperia, CA 92345	(760) 947-1025
City of Huntington Beach	Both	S/F	Antonia Graham	2000 Main Street Huntington Beach, CA 92648	(714) 536-5537



4. CLIENTS

City of Huron	Both	S/F	Jack Castro	36311 South Lassen Avenue Huron, CA 93234	(559) 945-2241
City of Laguna Beach	Both	S/F	Christa Johnson	505 Forest Avenue Laguna Beach, CA 92651	(949) 497-0797
City of Merced	Both	S/F	Stephanie Dietz	678 West 18 th Street Merced, CA 95240	(209) 388-8670
City of Mission Viejo	Both	S/F	Dennis Wilberg	200 Civic Center Mission Viejo, CA 92691	(949) 470-3000
City of Moreno Valley	Grant Writing	S/F	Marshall Eyeman	14177 Frederick Street Moreno Valley, CA 92552-0805	(951) 413-3024
City of Oakland	Both	S/F	Larry Reid	250 Frank H Ogawa Plaza Oakland, CA 94612	(510) 238-3301
City of Orange	Grant Writing	S	Bonnie Hagan	300 East Chapman Avenue Orange, CA 92866	(714) 744-7274
City of Palmdale	Grant Writing	S/F	Sayne Redifer	38300 Sierra Highway Palmdale, CA 93550-4798	(661) 267-5115
City of Palo Alto	Advocacy	S	James Keene	250 Hamilton Avenue Palo Alto, CA 94301	(650) 329-2563
City of Parlier	Both	S/F	Sam Escobar	1100 East Parlier Avenue Parlier, CA 93648	(559) 646-3545
City of Pismo Beach	Both	S	Jim Lewis	760 Mattie Road Pismo Beach, CA 93449	(805) 773-4657
City of Placentia	Both	S/F	Damien Arrula	401 East Chapman Avenue Placentia, CA 92870	(714) 993-8148
City of Reedley	Grant Writing	S/F	Nicole Zieba	1733 9th Street Reedley, CA 93654	(559) 637-4200
City of Sanger	Both	S/F	Tim Chapa	1700 7 th street Sanger, CA 93657	(559) 876-6300
City of San Leandro	Advocacy	S	Chris Zapata	835 East 14 th Street San Leandro, CA 94577	(510) 577-3357
City of San Pablo	Both	S/F	Matt Rodriguez	13831 San Pablo Avenue San Pablo, CA 94806	(510) 215-3000
City of Santa Ana	Both	S	Raul Godinez	20 Civic Center Plaza, Santa Ana, CA 92702	(714) 647-5234
City of Selma	Grant Writing	S/F	Henry Perea	1710 Tucker Street Selma, CA 93662	(559) 891-2200
City of South El Monte	Grant Writing	S/F	Jennifer Vasquez	1415 Santa Ana Avenue South El Monte, CA 91733	(626) 579-6540
City of South San Francisco	Grant Writing	S/F	Eliza Manchester	400 Grand Avenue South San Francisco, CA 94080	(650) 829-6616
City of Stanton	Both	S/F	Jim Box	7800 Katella Ave, Stanton, CA 90680	(714) 379-9222
City of Tulare	Both	S/F	Carlton Jones	411 East Kern Avenue Tulare, CA 93274	(559) 685-2300
City of Turlock	Both	S/F	Michael Cooke	156 South Broadway, Suite 270 Turlock, CA 95380	(209) 668-5590
City of Walnut Creek	Both	S	Carla Hansen	1666 North Main Street Walnut Creek, CA 94596	(925) 943-5899



4. CLIENTS

County of Imperial	Advocacy	S	Michael Kelley	940 West Main Street, Suite 211 El Centro, CA. 92243	(442) 265-1033
County of Mariposa	Both	S/F	Kevin Cann	5100 Bullion Street Mariposa, CA 95338	(209) 966-3222
Tri Valley Cities Coalition	Advocacy	S/F	Nat Rojanasathira	510 La Gonda Way Danville, CA 94526	(925) 314-3328
Special Districts					
Antelope Valley East- Kern Water Agency	Both	S/F	Matthew Knudson	6450 West Avenue N Palmdale, CA 93551	(661) 943-3201
Central Basin Municipal Water District	Grant Writing	S/F	Kevin Hunt	6252 Telegraph Road Commerce, CA 90040	(323) 201-5548
Desert Recreation District	Grant Writing	S/F	Tony Strange	45-305 Oasis Street Indio, CA 92201	(760) 347-3484
East Contra Costa Fire Protection District	Both	S	Brian Helmick	150 City Park Way Brentwood, CA 94513	(925) 584-8468
East Orange County Water District	Both	S/F	Lisa Ohlund	185 North McPherson Road, Orange, CA 92869	(714) 538-5815
Merced County Association of Governments	Both	F	Stacie Dabbs	369 West 18 th Street Merced, CA 95340	(209) 723-3153
North County Transit District	Advocacy	S	Matt Tucker	810 Mission Avenue Oceanside, CA 92054	(760) 967-2867
Orange County Sanitation District	Advocacy	S/F	Jim Herberg	10844 Ellis Avenue Fountain Valley, CA 92708	(714) 593-7101
Pinedale County Water District	Grant Wiring	S/F	Jason Franklin	480 W Birch Avenue Pinedale, CA 93650	(559) 439-2362
Port of Hueneme	Advocacy	S	Kristin Decas	333 Ponomo Street Port Hueneme, CA 93041	(805) 488-3677
Santa Ana Public Works Agency	Grant Writing	S/F	Rudy Rosas	20 Civic Center Plaza, Santa Ana, CA 92702	(714) 647-3379
Transbay Joint Powers Authority	Advocacy	S	Mark Zabaneh	201 Mission Street, #2100, San Francisco, CA 94105	(415) 597-4614
Public Education					
Anaheim Union High School District	Both	S/F	Michael Matsuda	501 N. Crescent Way Anaheim, CA 92801	(714) 999-3511
Central Unified School District	Grant Writing	S/F	Kelly Porterfield	5652 W Gettysburg Fresno, CA 93722	(559) 274-4700
Coast Community College District	Both	S/F	Letitia Clark	1370 Adams Avenue Costa Mesa, CA 92626	(714) 438-4605
Guadalupe Unified School District	Grant Writing	S/F	Ed Cora	4465 9 th Street Guadalupe, CA 93434	(805) 343-2114
Kings Canyon Unified School District	Both	S/F	John Quinto	1801 10 th Street Reedley, CA 93654	(559) 305-7010
Merced Union High School District	Both	S/F	Alan Peterson	3430 A Street Atwater, CA 95301	(209) 325-2000
Port of Los Angeles High School	Grant Writing	S/F	Erin Lovridge	250 West 5 th Street San Pedro, CA 90731	(310) 732-4310
Rancho Santiago Community College District	Advocacy	S/F	Raul Rodriguez	2323 North Broadway Santa Ana, CA 92706	(714) 480-7300



4. CLIENTS

Non-Profit Organizations					
Conservation Society of California (The Oakland Zoo)	Advocacy	S/F	Nik Dehejia	9777 Golf Links Oakland, CA 94605	(510) 632-9525
Discovery Science Foundation	Both	S/F	Joe Adams	2500 North Main Street Santa Ana, CA 92705	(714) 913-5006
Irvine Ice Foundation	Advocacy	S	Bill Foltz	2101 E Coast Hwy Corona del Mar, CA 92625	(949) 760-4304
Land Conservancy of San Luis Obispo County	Both	S	Kaila Dettman	1137 Pacific Street, Suite A, San Luis Obispo, CA 93401	(805) 544-9096
Oakland Museum of California	Advocacy	S/F	Lori Fogarty	1000 Oak Street Oakland, CA 94607	(510) 318-8420
Orange County Conservation Corps	Advocacy	S/F	Katharyn Bandoni	1548 East Walnut Ave Fullerton, CA 92831	(714) 956-6222
Sarbat Bhala	Grant Writing	F	Amandip Gill	7460 E. Floral Avenue, Fresno CA 93662	(559) 360-1398
Yosemite/Mariposa County Tourism Bureau	Both	S/F	Terry Selk	5065 CA-140 E Mariposa, CA 95338	(209) 742-4567



PRIOR CLIENTS

The table below lists TPA's prior clients for the last five years by name, type of service (either advocacy, grant writing, or both), and level of service (either state (S), federal (F), or state and federal (S/F)).

Client	Type of Service	Level of Service
Cities		
City of Aliso Viejo	Both	S/F
City of Chowchilla	Grant Writing	S/F
City of Clovis	Grant Writing	S/F
City of Fountain Valley	Grant Writing	S
City of Fowler	Grant Writing	S/F
City of Irvine	Grant Writing	S/F
City of La Habra	Advocacy	S
City of Mendota	Both	S/F
City of Riverbank	Grant Writing	S/F
City of San Juan Capistrano	Both	S/F
City of Seal Beach	Both	S/F
City of West Hollywood	Grant Writing	S/F
City of Woodlake	Grant Writing	S
Concerned Coastal Communities Coalition	Advocacy	S/F
I-405 Coalition	Advocacy	S
Special Districts		
Fallbrook Public Utilities District	Both	S/F
Malaga County Water District	Grant Writing	S/F
Mesa Water	Both	S/F
Municipal Water District of Orange County	Both	S/F
Newhall County Water District	Advocacy	S
Orange County Water District	Both	S
Orange Cove Fire Protection District	Grant Writing	S/F
San Gabriel Valley Council of Governments	Grant Writing	S
Stanislaus Council of Governments	Advocacy	S
West Valley Water District	Grant Writing	S/F
Yorba Linda Water District	Both	S/F
Public Education		
Capistrano Unified School District	Grant Writing	S/F
Chawanakee Unified School District	Grant Writing	S
Cutler-Orosi Joint Unified School District	Grant Writing	S
Emery Unified School District	Both	S/F
North Orange County Community College District	Advocacy	S/F



5. SCHEDULE FOR COMPLETING SERVICES

AVAILABILITY TO PROCEED WITH WORK

TPA is available to proceed with work on or around September 3, 2018.

TENTATIVE SCHEDULE FOR COMPLETING GRANT AVAILABILITY RESEARCH, GRANT APPLICATIONS, AND DELIVERABLES

Service	Timeline
Conduct Detailed Orientation	September, 2018
Craft Strategic Funding Plan	September, 2018
Identify, Research, and Monitor Grant Funding Opportunities	Continual
Monthly Reports	Monthly
Establishment of Clear Accountabilities	Continual
Grant Application Development and Submittal	Continual
Post-Grant Submittal Advocacy	Continual
Post-Award Grant Administration and Compliance	Continual
Comprehensive Follow-Up on Unsuccessful Applications	Continual

DEFINE THE METHODOLOGY/APPROACH TO IDENTIFY THE NEEDS OF THE DISTRICT

- **Conduct Detailed Orientation:** TPA utilizes a comprehensive onboarding process that includes extensive meetings with various relevant members of District leadership and key District departments to help develop a strategic plan that is carefully tailored to satisfy the needs of the District, as well as designed for maximum success in the current funding environment.
- **Craft Strategic Funding Plan:** Utilizing the information gathered during the onboarding process, TPA will coordinate with the District's departments to develop a proactive and comprehensive strategic funding plan that serves the needs of the District's priorities. *The plan will do more than simply identify District projects;* it will outline and prioritize multiple funding options for each project, develop a specific plan of work tailored for each project, assess the validity of current priority areas, and identify new priority areas for funding (*RFP Scope of Work 1, Page 4*). It will also identify key "strings attached" to help assess the cost/benefit ratio for each grant opportunity.



- **Identify, Research, and Monitor Grant Funding Opportunities:** TPA will utilize list-serve subscription programs, funding workshops, agency canvassing, and other networking tactics to ensure every potential opportunity is identified, from sources including but not limited to federal, state, foundation, agencies, and organizations (*RFP Scope of Work 2, Page 4*). Each opportunity will then be reviewed for relevance with the District's projects. TPA will then share these opportunities with the District for further assessment and determination if a grant application is warranted. The District will also receive a grant matrix of funding programs that is updated regularly as new opportunities arise.

TPA will be available at any time, at the request of the District, to research grant opportunities for priority areas that are identified outside of the list provided in Section B, Scope of Services of the RFP (*RFP Scope of Work 3, Page 4*).

- **Monthly Reports:** Every month, TPA will provide the District with a report summarizing activities undertaken during the past month and the amount of time that was expended on behalf of the District (*RFP Scope of Work 5, Page 4*).
- **Establishment of Clear Accountabilities:** TPA will coordinate with the District to ensure the assignment of responsibilities and tasks are made clear so that confusion and inefficiency are avoided and the District is burdened as little as possible while TPA pursues a grant opportunity (*RFP Scope of Work 4, Page 4*).
- **Grant Application Development and Submittal:** TPA will develop, draft, submit, and follow up on each District grant application (*RFP Scope of Work 4, Page 4*). TPA will also leverage relationships with relevant officials and program officers in various state and federal funding agencies to ensure that District grant applications are aligned with the goals of the specific grant program and that the applications are well-crafted and well-positioned for funding. TPA will also provide strategic assistance, such as letters of support from key stakeholders and other materials, to make the application as compelling and competitive as possible (*RFP Scope of Work 4, Page 4*). TPA will ensure that applications are submitted prior to the deadline. TPA will also obtain a receipt for proof of submission.

TPA will provide the District with a copy of each grant application submitted on their behalf (*RFP Scope of Work 4, Page 4*).

- **Post-Grant Submittal Advocacy:** TPA will frequently contact legislators and agency officials to follow up on the status of a grant application and promote its need and urgency. This will include drafting letters of support after grant submissions and distributing them to legislators for their consideration. In addition, TPA will work with legislators to reach out to individual granting agencies to provide background on District's projects and convey their support for those projects.

- **Post-Award Grant Administration and Compliance:** TPA will also assist, as needed, with post-award administration and compliance for all grant applications submitted by TPA on behalf of the District. This assistance will include interacting with granting agencies on behalf of the District, providing support for the drafting and submission of required reports, evaluations, and other tasks related to the successful monitoring of and compliance with the program requirements (*RFP Scope of Work 4, Page 4*).
- **Comprehensive Follow-Up on Unsuccessful Applications:** Despite all best efforts, some grant applications are not selected for funding. In those instances where grant applications are unsuccessful, TPA will work with the relevant state and federal funding agencies to set up in-person or telephone debriefing sessions to discuss the grant applications and how to best revise the grant applications for the next funding round to ensure success.

DEFINING COSTS

TPA is prepared to NOT institute a limit on the number of funding opportunities that we will pursue on behalf of a client. For this reason, TPA recommends our monthly fee option as a more cost effective option for the District than billing by the hour or on a per grant, written, and submitted basis.

INVOLVEMENT AND ROLE OF DISTRICT STAFF AND DISTRICT RESOURCES IN THE GRANT WRITING PROCESS

With a team of 13 registered federal advocates and grant writers, TPA has the breadth and depth of experience AND the ability to deploy as many grant writers as needed to maximize success for the District while minimizing the burden on District staff. TPA will rely on District staff to provide technical project information, budget details, and project timeline information as appropriate. TPA is prepared to draft all briefing materials, funding requests, and grant applications.

PROCESS TO IDENTIFY FUNDING PRIORITIES AND PREPARE A GRANT APPLICATION

Services	Timeline	District Staff Involvement
Conduct Detailed Orientation	September 2018	Staff participation in orientation
Craft Strategic Funding Plan	September 2018	Staff review of TPA proposed funding plan
Implement Funding Strategy	September 2018 – Contract End	No Involvement
Track Funding Opportunities	September 2018 – Contract End	No Involvement
Establishment of Clear Accountabilities	September 2018 – Contract End	Coordination between TPA and Staff
Grant Application Development and Submittal	September 2018 – Contract End	Staff to provide technical budget and project timeline information to TPA
Post-Grant Submittal Advocacy	September 2018 – Contract End	No Involvement
Post-Grant Administration and Compliance	September 2018 – Contract End	Coordination between TPA and Staff
Comprehensive Follow-Up on All Unsuccessful Applications	September 2018 – Contract End	Optional participation by staff on any follow up conversations or meetings on unsuccessful applications
Update Strategic Funding Plan	December 2018/January 2019	Staff review of plan updates



**Response to Beaumont-Cherry Valley Water District Request for Proposal
For Contractual Grant Writing Consulting Services**

Submitted July 30, 2018

**by Grant Management Associates
Kristin Cooper Carter, Sole Proprietor/ Owner**

1722 Hyer Court
Durham, CA 95938
(530) 228.9235

kcarter@grantmanagementassoc.com
www.grantmanagementassoc.com

Date July 30, 2018

Signature

Kristin Cooper Carter, Owner

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Proposal requirements

Define methodology and approach to grants

Reviewing district projects for grant opportunities: GMA has an initial approach that immerses our staff with appropriate BCVWD staff to understand the background of your efforts. We study the district's goals and priorities; alignment with the district's general and strategic plans; what has worked and what has not; where the district is strong and where you need assistance; and which programs are well funded and which need support. All helps us determine likely funding.

Grant funding research:

GMA's typical process includes:

- Start with informational meetings with Beaumont-Cherry Valley Water District staff to assess funding needs and complete a SWOT analysis.
- Conduct a business analysis, looking at strategic partnerships that may open new funding opportunities such as those with existing GMA clients.
- Analyze previously funded applications for important trends and determine the level of competition.
- Take inventory of funders and prospects you have already identified.
- Assess the infrastructure to manage and track prospects, donations and acknowledgments, and build a plan to make the infrastructure fully operable.
- Identify the profiles of ideal major funders.

We engage in a process of mining for new prospects based on these criteria, and we build a major grant acquisition plan with a timeline and benchmarks.

GMA overlays this funding needs analysis with a no-nonsense assessment of the funding climate, and we make recommendations accordingly. These recommendations always cite specific, sizable funding prospects, and may propose some modest yet impactful changes involving organizational communications, program design, database management, fundraising content and public relations.

GMA uses multiple grant identification services, listservs and email notifications to stay on top of all new funding releases, including federal, state, private foundations, various agencies and organizations. GMA reviews and vets these opportunities on behalf of our clients, paying particular attention to their specific needs, only putting forward those opportunities that are deemed most viable.

GMA will provide the BCVWD with a funding matrix aligning possible funds specifically linked to your needs with actionable funding opportunities. We will maintain this matrix on a monthly and ongoing basis as new opportunities arise.

It is intended that this vital task would be completed early in the contract period.

The Excel Funding Matrix is a comprehensive table containing funding opportunities for multiple research areas in one easy-to-use spreadsheet. We organize opportunities by month in one spreadsheet so that every opportunity we have identified is easily accessible in one document. In the Excel Funding Matrix, we provide detailed grant information, links to key websites, funding levels, eligibility information and due dates, as depicted in Figure 1 below.

Because it is in Excel, it is easy to sort based on any field. GMA will make strategic recommendations on the most lucrative funding opportunities, including a bid/no-bid analysis of each viable opportunity.

Figure 1 example:

April 2013 - California Grant Opportunities						
Category	Opportunity	Purpose	Eligibility	Funding	Due	Contact
Energy Efficiency- Building design, upgrades, solar, HVAC, Energy Management Systems, Cool Roofs						
Energy Efficiency	CA - CEC - Energy Conservation Assistance Account	First come, first serve loans for energy cost saving projects. Sample projects include: Lighting systems; Streetlights and LED traffic signals; Water and waste water treatment equipment; Heating, ventilation and air conditioning equipment	California Cities, Counties, Public Schools and Universities, Special Districts, and Public Care Hospitals/ Institutions (Residential, commercial and non-profits are not eligible for these funds)	\$3 million maximum per application, and no minimum; 15-year loans; 3% interest loans	Rolling, First Come First Serve with \$22M total available	Link

On-call grant research: GMA has the ability to scale up or down to meet your workload requirements and deadlines. We can handle multiple grant applications concurrently. GMA has 18 associates with vast experience. Kristin Cooper Carter, the founder and owner of GMA, draws from this pool of talent and organizes specific teams to specific grant research and grant application projects on an ongoing basis, utilizing her 25 years of grant and project management experience.

GMA’s team concept was created to allow the kind of flexibility the Beaumont-Cherry Valley Water District may need.

Grant proposal development: GMA provides comprehensive grant proposal writing and development and has an 87.6 percent record of success, which proves we produce compelling and timely technical grant proposals. GMA can competently develop budgets and prepare complex written and electronic grant submissions.

GMA’s process includes RFP response outlines and task sheets; information gathering and technical needs identification and assessment; development of boilerplate and highly tailored program narratives; budget development; completion of application forms; and electronic or hard copy submission.

The GMA Grant Development Method (copyrighted) employs templates specifically designed for each RFP and project timelines utilizing an interactive project management software system customized by GMA for every proposal.

GMA utilizes an online collaboration and project management software program called Asana.

This secure, cloud-based software allows geographically disparate team members from GMA and the BCVWD to collaborate on projects such as grant applications. It provides functionality that, among other things, permits storage and sharing of any kind of files, creation of teams, projects, tasks and unlimited subtasks. It allows digital conversations to be maintained around projects and tasks for simpler and faster communication and information access than email. It also allows team members to be identified and assigned tasks with due dates, and it reminds team members of their upcoming deadlines as well as informs them of the progress of others on the team as tasks are completed.

Built into each grant project work plan and schedule will be adequate time to develop a compelling, competitive grant proposal, including time for needed program development, internal review and crafting, and final proofing and packaging.

Monthly reports: GMA produces and submits regular monthly reports to its clients that include time expended and activities undertaken, and the status of those activities. These reports are designed to be easily read and quickly understood by executive and senior staff, giving them a strategic overview of the grant activities and progress, while also providing more detailed backup information desired by others.

GMA can customize its monthly reports to the needs and desires of its clients.

Involvement and role of district staff

While GMA can do the heavy lifting on any grant proposal, all grants are collaborative and will require the input of and information from key BCVWD staff members. The degree of work involved for GMA in preparing a grant proposal depends upon the degree of collaboration with district staff.

There are many important steps an applicant should take before submitting an application, during the application process and following the submission of a proposal. GMA is well versed in each of these steps. GMA acts as the liaison between your organization and funding sources to ensure that all applications, proposals and loan documents are accurate and meet all criteria. By doing “grant police work,” GMA team members ensure that each section is thoroughly researched and addressed fully.

Experience identifying and preparing grants for special districts

Grant Management Associates has extensive experience working with special districts, local and state governments, as well as private companies.

GMA’s past and present public sector clients include the Sacramento-San Joaquin Delta Conservancy; the Sacramento River Conservation Area Forum; Association of Bay Area Governments; Butte County Association of Governments; Shasta Regional Transportation Agency; Riverside, Alameda, Del Norte, Mendocino and El Dorado counties; the cities of Phoenix, Chico, Portola and Redding; UC Davis; and many others.

GMA has extensive experience with the Department of Water Resources, Environmental Protection Agency, California Energy Commission, HUD/CDBG, Department of Health and Human Services, Department of Energy, Department of Transportation, and nearly all state governmental water quantity and water quality, air quality and energy agencies, as well as infrastructure organizations. Many of those relationships would be advantageous for the BCVWD's needs.

GMA associates have considerable experience with funding initiatives in many categories. Below is a partial list of winning GMA grants listed in order of the grant categories in the Beaumont-Cherry Valley Water District's RFP. A more comprehensive list of GMA's previously awarded grants is listed on the company's website.

Infrastructure improvement and maintenance:

Alameda County: Lewelling Blvd. SRTS | 2017 Regional Active Transportation Program (ATP) Cycle 3 - \$400,000

Alameda County: Somerset Ave. School Corridor | 2017 Regional Active Transportation Program (ATP) Cycle 3 - \$330,000

Alameda County: Fairview Elementary | 2017 Regional Active Transportation Program (ATP) Cycle 3 - \$542,000

Alameda County: DOT | Fairmont Drive HSIP guardrail project - \$908,000

Alameda County: FHWA | Castlewood HBP - \$589,000

Association of Bay Area Governments: Multi-County EVSE Installations - \$2,300,000

City of Redding/Shasta Transportation Authority - Affordable Housing and Sustainable Communities Program | Strategic Growth Council – This project will restore portions of Market Street through the Downtown Redding Promenade and add 79 residential units within walking distance to jobs and public transportation. Over 20,000 square feet of street-level commercial space and new walking and bicycling facilities will also be constructed. \$40M Award.

Storm water, water conservation and watershed restoration initiatives:

California EPA: State Water Resources Control Board - Proposition 84 Stormwater Grant Program - Round 2- \$648,284

Thermalito Water and Sewer District: East Trunk Line | State Water Resources Control Board – SRF Loan Program - \$2,700,000

State Water Resources Control Board – Subcontract - Joint program with the Big Chico Creek Watershed Alliance- \$450,000

Tehama County Resource Conservation District - Subcontract with Tehama County RCD - \$85,000

UC Davis/The Nature Conservancy/River Partners – CALFED – Sacramento River - \$2,600,000

State Water Resources Control Board – Subcontract - Joint program with the Big Chico Creek Watershed Alliance-\$450,000

Tehama County Resource Conservation District - Subcontract with Tehama County RCD - \$85,000

UC Davis/The Nature Conservancy/River Partners – CALFED – Sacramento River - \$2,600,000

Butte County Resource Conservation District - Watershed coordination on Big Chico and Little Chico Creeks - \$68,640

GIS systems, technology community development and capital assets:

California Energy Commission PON-13-609 - Pilot-Scale and Commercial-Scale Advanced Biofuels Production Facilities - \$5,000,000

California Energy Commission PON-09-006 - Alternative and Renewable Fuel and Vehicle Technology Program - \$6,400,000
California Energy Commission - Alternative and Renewable Fuel Infrastructure - \$15,700,000
California Watershed Funding Database - California Watershed Funding Database - Developed prototype and conducted training - \$211,000
CSU Chico – Concrete Industry Management Program – numerous projects - \$13,200,000
Deer Creek Roads Survey - \$175,000
Department of Energy - Industrial Capture - Beneficial Reuse of Carbon (Phase 2) - \$25,000,000
National Science Foundation - Concrete Industry Management Expansion Program (one of three partners) - \$667,000
State Parks Department - arundo [giant cane plant pest] removal and GIS mapping - \$32,000
Association of Bay Area Governments - CA Energy Commission Grant Administration Services - \$50,000
California Energy Commission GFO 16-604 - South Coast Air Quality Management District - Southern California Advanced Sustainable Freight Demonstration - \$10,000,000
CALSTART - California Air Resources Board | Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project - \$688,215
El Dorado County - Lakehills 1 Fuel Reduction and Hazard Removal LH-1: \$196,500
Riverside County EDA - Riverside County Renewable Energy Development | California Energy Commission PON 13-504 - \$549,996 CEC/\$699,996 Total Project

Up to five funded grants GMA developed

Thermalito Water and Sewer District: GMA secured a grant and loan award under the State Revolving Fund, \$2.4 million for pipeline replacement, with a 20 percent principal forgiveness for “green” elements. It was awarded in 2014 for a three-year program. GMA developed all of the MHI components, financial documentation and extensive regulatory sections.

City of Chico Verbena Fields Restoration Project: The purpose of the Verbena Fields restoration project was to restore and enhance habitats on land that was heavily impacted by gravel mining and to increase the flood capacity for a constricted section of Lindo Channel in the city of Chico. The widened floodplain also increases streamside forest area by more than 1.25 acres. The site is a 20.9-acre city-owned former gravel quarry adjacent to Lindo Channel. The project expanded and improved seasonal wetlands, increased the floodplain width an average of about 80 feet, restored native plantings, established a Mechoopda Interpretive Place, and constructed a loop walking trail. A successful California State Water Resources Control Board grant of \$907,000, prepared and submitted by GMA, paid for the costs associated with construction and restoration planting. The partners in this project were the city of Chico, Big Chico Creek Watershed Alliance, Mechoopda Maidu Indians, Streaminders, and California State University, Chico Research Foundation.

State of Colorado: GMA assisted the state of Colorado with the development and submission of a \$1 million federal application to HUD’s National Disaster Resilience Competition. Tasks included: 1) management and coordination of grant writing staff; 2) preparation of compelling responses to meet HUD threshold requirements; and 3) development of narrative descriptions of the state’s innovative plans for natural disaster mitigation and resilience in the areas of community development, economy, infrastructure, watersheds and natural resources, housing, and health and social services. This

application was submitted for Phase One of a two-phase project. Colorado was asked back to submit a Phase Two application. GMA had just over two months to pull together just under \$300 million in state projects to submit under the Phase Two competition. This proposal of more than 180 pages was submitted in late 2015 and is now pending award.

AltAir Fuels, LLC: GMA developed a successful grant with AltAir Fuels, LLC for \$6 million in grant funding from the California Energy Commission (PON-11-601), which was matched with \$20.6 million in funding to establish California's first commercial-scale renewable diesel facility. There is only one other renewable diesel facility in the United States. This facility will create a total of 58 temporary jobs and 153 full-time jobs. This project will repurpose existing petroleum processing equipment located at an Alon USA refinery in Bakersfield, resulting in a 1,500-barrel per day biofuel facility. The Bakersfield facility became fully operational in November 2012 and is producing 16 million gallons of renewable diesel and 2 million gallons of renewable jet fuel annually. By reutilizing existing permitted equipment at Alon's Bakersfield refinery, the project greatly reduces capital and operating costs and expedites CEQA permit timelines.

Multi-Partner Proposal to the U.S. Department of Energy: GMA prepared this proposal in response to Funding Opportunity Announcement DE-FOA-0000028, Area of Interest 2, which was successfully awarded \$1.12 million in June 2011. The scope of the initiative is to provide public electric vehicle (EV) infrastructure for 480 cities in California. This project supports EV adoption throughout the state and includes a thorough study of driving patterns, community impact, and impact to regional grids, thus ensuring a planning model for the nation. GMA team members consulted with partners in eight states in several time zones. Project partners included several Fortune 100 companies from carmakers to electronic parts providers, a federal research center, as well as many electric utilities and municipalities that together served more than 12 million customers. Among its contributions, in addition to the assembly of the grant and associated documents, GMA team members dived into market and technology research, budgeting and project scheduling.

Grants for which the BCVWD would qualify and that GMA would pursue

As explained earlier under the "methodology" heading, to develop a comprehensive list of funding opportunities, we would first need to do a thorough investigation of your activities, your organization, what stage your projects are currently in, location and fiscal needs.

We would also offer proposals for loan or bond programs as well as grants.

We have relationships with many funding agencies that seem to align with your district's needs, including: Cal-Fed, Department of Water Resources, Environmental Protection Agency, California Energy Commission, HUD/CDBG, Department of Health and Human Services, Department of Energy, Department of Transportation, and nearly all state governmental water quantity and water quality, air quality and energy agencies. This list is by no means exhaustive. We will look everywhere for funding support.

Example of grant application



Mendocino County

Sustainable Groundwater Planning Grant Program

UVBGSP Project Justification

The Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) is the implementing agency and will apply a collaborative, multi-stakeholder planning process to prepare and adopt the Ukiah Valley Groundwater Sustainability Plan (UVBGSP) pursuant to the Sustainable Groundwater Management Act (SGMA) and California Department of Water Resources (DWR) SGMA Regulations. The Ukiah Valley planning area includes the entire groundwater basin consistent with DWR Bulletin 118 and the accepted DWR boundaries. Figure 1 shows the geographical location of the project, service areas of UVBGSA members, the basin boundary (per DWR Bulletin 118), and related regional water features. Figure 2 presents the disadvantaged communities (DACs), severely disadvantaged communities (SDACs), and economically distressed areas (EDAs) within the UVBGSA area.

The documented undesirable result from groundwater extraction in the Ukiah Valley Groundwater Basin (UVGB) is associated with surface water-groundwater interaction. The Russian River provides important habitat for federal- and state-listed anadromous fish, and flows of the Russian River and its tributaries are heavily influenced by groundwater elevations. The primary objective of the UVBGSP is to develop programs, projects, and policies to ensure that the Russian River and tributary flows are maintained at sufficient and viable levels to provide adequate habitat for long-term sustainability of fish and wildlife. Additionally, water availability has long been an issue in the planning area, especially after multiple dry years, and is a likely constraint to future development, complicating the legal, environmental, political, and socioeconomic issues. The development of a comprehensive UVBGSP will aid in smart planning that enables growth without causing undesirable effects to surface water and groundwater.

The UVBGSA will use the UVBGSP to preserve and enhance the economic and environmental health and well-being for the Ukiah Valley through the regional stewardship and comprehensive management of water and groundwater resources in a practical, cost-effective, sustainable, and responsible manner. The Phase 2 work plan builds on Phase 1 work conducted under the DWR Stressed Basins Grant. Phase 1 work included compiling surface water and groundwater data, preparing a data gap analysis, production of a groundwater monitoring protocol manual, engaging stakeholders, initial development of the hydrogeologic conceptual model (HCM) and water budget, preliminary identification of undesirable results, minimum thresholds, measurable objectives, and an action plan including a list of projects and actions. Proposed Phase 2 work includes:

- Further engaging stakeholders and the community
- Developing final sustainability goals, measurable objectives, metrics, and sustainability indicators
- Finalizing the technical analysis, including completion of the hydrogeologic conceptual model, water budget (MODFLOW- 2005 transient model) and related tasks
- Addressing water supply and quality needs of the region and its disadvantaged communities
- Identifying and screening projects, policies and programs to be implemented
- Defining current and future water budgets under the 'no action' and preferred alternative, both with and without climate change
- Developing a preferred alternative for the GSP implementation plan
- Establishing key milestones, schedules, and stable funding
- Integrating water supply and land use plans and programs
- Drafting and finalizing the UVBGSP to ensure the long-term sustainability of the Ukiah Valley Basin's water supply and the continued resiliency of the Russian River ecosystem
- Developing a roadmap for the region's future over a 50-year planning horizon

Technical Need

Groundwater levels within the Ukiah Basin are intimately tied to the Russian River surface water flows. During the dry season when well elevations are much lower, as evidenced from CASGEM monitoring, Russian River and tributary flows are also decreased. The decreased groundwater levels likely influence the base flow of the Russian River. Much of the flow during the summer months is maintained by controlled reservoir releases at Coyote Dam from Lake Mendocino Reservoir. However, elevations in the Reservoir have been declining and the last several drought years caused a reduction in volumes being released into the Russian River. There is the potential that flows from the Potter Valley Project, which diverts Eel River water into the Russian River, may be decreased in the future. Thus, a sustainable groundwater management plan that can achieve sustained base flows of the Russian River is desired to preserve essential habitat for fish, birds, and other species dependent on these flows to survive. This will also help local residents and the state coordinate compliance with frost-protection regulations mandated by the State Water Resources Control Board in their Amended Section 862 to the Division 3 of Title 23 of the California Code of Regulations.

Currently, no groundwater management plans exist for the basin. The UVBGSP will support integration of land use and water supply plans consistent with state law and local policy. Several planning documents, such as the Ukiah Valley Area Plan (UVAP), list groundwater as a chief priority. The UVAP states that “water availability has long been an issue in the Ukiah Valley and is a likely constraint to future development in the valley (6-3).” The UVAP lists various conservation strategies that seek to mitigate or reduce undesirable effects, and outlines several goals under the water management section for the Ukiah Valley. The first goal is to “promote efforts to protect and increase water supply storage and capacity.” Under this goal, several policies are outlined that further support the need for the development of a comprehensive groundwater management plan, including the Groundwater Stewardship Plan Policy that directs the county to assemble baseline information that describes the existing conditions of the Valley’s groundwater system (quality, quantity, demand, and resupply), and a comprehensive groundwater protection program with specific protection and mitigation measures.

The importance of groundwater (GW) / surface water (SW) interaction for maintaining surface water flows and the health of the Russian River biota is widely known and publicized, but very little data has been collected about how the aquifer functions, and how it will respond to changing climatic conditions, demands, and water quality pressures. The degree to which the basin is stressed is unknown because of the lack of long-term data. This is a primary concern and chief reason that Mendocino County is applying for grant funding. The grant funding will make it possible to collect basin data, develop a hydrogeologic conceptual model and water budget, engage the community, and adopt a UVBGSP to increase water supply storage and capacity, achieve groundwater elevation sustainability, and avoid undesirable results related to surface water because of groundwater use.

Project Support

The Ukiah Basin area is in the upper reaches of the Russian River watershed and is not hydrogeologically connected with any other groundwater basins except for the Sanel Valley Groundwater Basin down-gradient in Southern Mendocino County. The Sanel Valley Groundwater Basin borders the McDowell Valley Groundwater Basin to the east. Both down-gradient basins are currently ranked as very-low priority and are bounded by impermeable bedrock to the south, east, and west. The undesirable result of streamflow depletion is the primary concern of downstream consumers of Russian River flow in Sonoma County. The Sonoma County Water Agency controls Coyote Valley releases during the summer, which maintain minimum flows for salmonid habitat. The Sonoma County Water Agency has been invited to participate on the UVBGSA Technical Advisory Committee (TAC) to share technical expertise and provide guidance on limiting streamflow depletion because of groundwater pumping. UVBGSA will ensure close cooperation and communications regarding common methods, data, and assumptions used during the technical analysis.

A list of interested parties (see attached List of Beneficial Uses and Users of Groundwater¹) was developed pursuant to Water Code Section 10723.2. This list was used to solicit support for the UVBGSA and to notify persons of the formation of the UVBGSA and proposal to develop the UVBGSP. All hearings to form the UVBGSA Joint Powers Agreement (JPA); to adopt resolutions to apply for the DWR Proposition 1 GSP Grant; and to establish bylaws, conflicts of interest requirements, and the proposed budget; were noticed and open to the public.

During the UVBGSA development process, the County of Mendocino held nine public Formation Committee meetings. Minutes and agendas for these meetings are available at the County's UVBGSA web page². Dedicated outreach to the area's Native American tribal communities was conducted to obtain their unique input and participation. The Agency and other stakeholders' roles and responsibilities are identified in the JPA and bylaws. In addition, the Agency has an Agricultural and Tribal seat on its Board of Directors. The TAC includes staff from the Member organizations, Sonoma County Water Agency, the Mendocino County Resource Conservation District, the California Land Stewardship Institute, local agricultural water users, and tribes.

UVBGSP Work Plan

The Ukiah Valley Basin Groundwater Sustainability Agency (UVBGSA) will apply a collaborative, multi-stakeholder planning process to prepare and adopt the Ukiah Valley Groundwater Basin Sustainability Plan (UVBGSP) pursuant to the Sustainable Groundwater Management Act (SGMA) and California Department of Water Resources (DWR) SGMA Regulations. The UVBGSP will define regional projects, policies, and programs; identify and address water supply and quality needs of the region and its disadvantaged communities (DACs) and tribal entities; consider the effects of climate change; and will be adopted to provide a roadmap for the region's future, using a 50-year planning horizon.

Purpose

Beyond complying with SGMA, the primary purpose of UVBGSA is to preserve and enhance the economic and environmental health and well-being for the Ukiah Valley through regional stewardship and comprehensive management of water and groundwater resources in a practical, cost-effective, sustainable, and responsible manner.

¹ BU Stakeholder List UVB 6.15.17 AgendaPacket.pdf

² <https://www.mendocinocounty.org/government/affiliated-agencies/ukiah-valley-basin-gsa>

This objective shall be obtained by developing and adopting minimum thresholds, interim milestones, and measurable objectives that mitigate and avoid undesirable results from changes in climate, diverted water supply, and groundwater extraction. Minimum thresholds will be maintained through community engagement during the preparation of the UVBGSP, and through technical projects and programs that address groundwater issues and management of surface water (SW) / groundwater (GW) interaction. Current challenges include the effects of groundwater pumping and surface diversions on Russian River flows, maintaining a healthy fishery and riparian corridor, regulatory requirements regarding the continued operation of water supply diversions (Potter Valley Project, Lake Mendocino), biological opinions, and State Water Board decisions.

Phased Approach

The UVBGSP Phase 2 Work Plan proposes to build on the existing work and body of knowledge from Phase 1 work conducted under the Department of Water Resources (DWR) Counties with Stressed Basins Grant.

Phase 1 resulted in the formation of the UVBGSA and established the foundation for development of the UVBGSP. Phase 1 included compiling existing data (Task 3.1), a data gap analysis (Task 3.2), Monitoring Program Manual and Protocol (Task 3.3), a preliminary draft water budget using MODFLOW-2005 (Task 3.3), 2), a draft Hydrogeologic Conceptual Model (HCM) (fulfilling the grant requirement to prepare a technical memorandum describing aquifer conditions); and a draft report describing measurable objectives, numeric thresholds, interim milestones, sustainability goals, and a preliminary list of potential projects and actions (Task 3.5). Table 1 below shows the status of the current Phase 1 work and anticipated Phase 2 work needed to complete the tasks, ensuring there will be no duplication of work across the two phases.

Table 1: Phase 1 Stressed Counties Grant Tasks, Deliverables, and Additional Work

Phase 1 Task	Deliverables/Status	Additional Work for Phase 2
Task 3.1 Compilation of Existing Data	<ul style="list-style-type: none"> • Technical memorandum on aquifer conditions • Database of historical groundwater elevation data • Estimate of current water demand • <u>Status</u>: Complete per scope, but data gaps and additional to be filled to complete GSP elements 	<ul style="list-style-type: none"> • Compile digital maps • Produce GIS layer • Capture data to fill data gaps • Forecast future demand and scenarios (e.g.; w/ & w/o conservation)
Task 3.2 Data Gap Analysis on Surface Water / Groundwater Interaction	<ul style="list-style-type: none"> • Gap analysis technical memorandum • <u>Status</u>: Complete SW/GW data gap analysis. Submitted and accepted by DWR 	<ul style="list-style-type: none"> • Design monitoring to fill data gaps • TAC Review
Task 3.3 Monitoring Protocol Manual Development	<ul style="list-style-type: none"> • Monitoring protocol manual, and Quality Assurance Project Plan (QAPP) • <u>Status</u>: Complete;. Submitted accepted by DWR 	<ul style="list-style-type: none"> • TAC Review
Task 3.4 Water Budget Development	<ul style="list-style-type: none"> • Draft water budget model, estimate of sustained yield, preliminary water budget • <u>Status</u>: Draft nearing completion. 	<ul style="list-style-type: none"> • TAC review • Final historical water budget analysis • Future baseline water

	Includes transient, spreadsheet budget, and preliminary MODFLOW calibration	budget <ul style="list-style-type: none"> • Climate change scenario
Task 3.5 Development of Sustainable Management Criteria	<ul style="list-style-type: none"> • List of measurable objectives, numeric thresholds, interim milestones, and sustainability goals • Planning and implementation timeline for meeting measurable objectives • Preliminary action plan, including a list of projects and actions • <u>Status</u>: Preliminary draft. Will be refined with the MODFLOW analysis of future baseline, TAC review, and UVBGS input 	<ul style="list-style-type: none"> • TAC Review • Board and community acceptance • Project, program, and policy analysis and definition • Preferred approach and final implementation plan and funding

Phase 2 includes additional technical analysis to fill data gaps and to develop the Basin Setting component of the GSP requirements, to complete DWR requirements under SGMA, and projects and programs to answer management questions and address issues identified by the UVBGS. There was no Technical Advisory Committee (TAC) during Phase 1, so Phase 2 includes TAC formation, review of Phase 1 work products, and review and oversight of the technical deliverables produced during Phase 2. Phase 2 work includes:

- Form and manage the TAC
- Further engage the stakeholders and community
- Develop a complete description the plan area
- Develop final sustainability goals, measurable objectives, metrics, and sustainability indicators
- Finalize the technical analysis, including completion of the hydrogeologic conceptual model, water budget, and related tasks to address the requirements of the basin setting component of the SGMA emergency regulations
- Extend the transient MODFLOW-2005 model to utilize 50 years of past hydrologic data to develop future scenarios with projections of future hydrology based on climate change analysis, land use, and water supply; and analyze the impacts of proposed projects and programs
- Identify projects, policies, and programs to be implemented
- Establish key implementation milestones and schedules, and provide stable funding
- Identify key management areas based on surface water / groundwater interaction sensitivity and expand the current groundwater monitoring network
- Integrate water supply and land use plans and programs
- Draft and finalize the UVBGSP to ensure long-term sustainability of the Ukiah Valley Basin’s water supply and the continued resiliency of the Russian River ecosystem

Planning Process

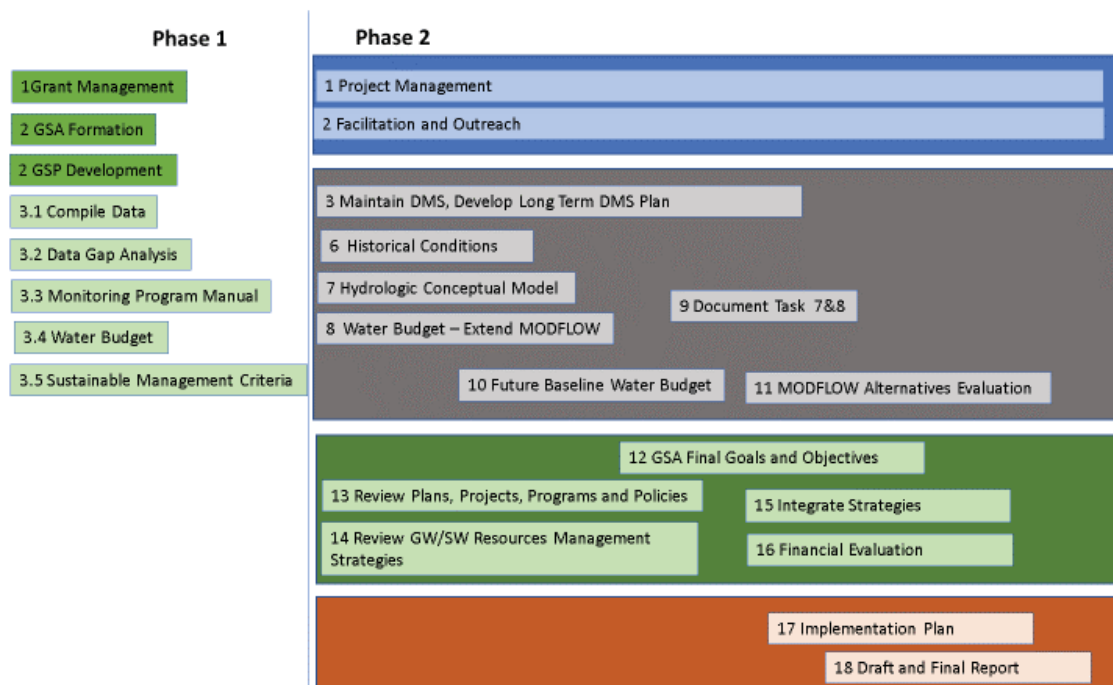
The UVBGS planning process is task- and deliverable-oriented to drive the schedule, but intends to be flexible and allow the process to move forward through a series of incremental decisions.

The UVBGS will use a “rolling wave” planning process with the intent of addressing and resolving the complex issues of the Ukiah Basin. The rolling wave process is designed to be dynamic and flexible to accommodate negotiations and adapt to the evolving UVBGS dialog. The process starts with definition of goals and objectives and conceptual solutions, successively adding greater

levels of detail, ultimately defining specific actions to be integrated and implemented. To meet the Ukiah region’s needs and the DWR Regulations, there are four (4) functional work elements that contain eighteen (18) total tasks. The work elements are:

- Project Management, Communication, and Facilitation
- Technical Analysis and Support
- Project/Program/Policy Analysis
- UVBGSP Preparation

The figure below shows the relationship of the work elements and tasks and between Phase 1 and 2. The results of Technical Analysis and the Project/Program/Policy Elements will be conducted on a parallel path. Interim results will be documented in technical memorandums to support incremental decisions. The TAC will review the technical work products and advise the UVBGSA, committees, and work groups. The interim work products will enable the Project Management Team (PMT) to support UVBGSA decisions at key milestones to gain consensus, and the interim deliverables will influence the eventual UVBGSP.



Integration and Collaboration with Other Russian River Efforts

UVBGSP development will coordinate with other studies in the Russian River to leverage the data collected, to develop databases, and to analyze results and modeling. The coordination of this effort will support use of common methods, data, and assumptions. UVBGSA members are party to a *Cooperative Agreement to Provide Funding and Support for the Hydrologic Characterization and a Coupled Watershed and Groundwater Flow Model of the Russian River (Russian River Cooperative Agreement)*. Terms of the agreement are from October 1, 2016 and October 31, 2021. In addition to local money, funding is also provided by the State Water Resources Control Board (SWRCB) and USGS. The USGS will address significant issues of stream-aquifer interaction and develop new, transferable tools for analyzing multi-basin water management. This includes development of a geodatabase, climate change runoff estimates and a watershed model, reservoir operations tools, and coupled surface water / groundwater (SW / GW) model using GSFLOW. During Phase 1, data was provided to the USGS by the Mendocino County Water Agency project

team. This data included well pump extraction locations, rates, water level measurements; land use and soil data; and previous studies and documents related to hydrogeology, geology, land use, water supply and demand, and SW / GW interaction.

The UVBGSA is moving forward on a faster timeline to meet SGMA requirements and is further along than the study under the Russian River Cooperative Agreement. To be cost effective, the UVBGSA will work to leverage these other local, state, and federal investments; exchange data; and be an active partner in the USGS efforts. For example, the Russian River Independent Science Review Panel (ISRP) was formed by interests in Mendocino and Sonoma County to collect existing studies and data, promulgate a “conceptual model” of groundwater/stream flow processes, and evaluate the relationship between stream flow processes and salmonid habitat³. In addition to being referenced in the technical memorandums prepared under Phase 1, the ISRP will also be referenced in Phase 2 to meet the SGMA requirements and to ensure that the best available information is being utilized. Schedules and deliverables will be coordinated where feasible, but the UVBGSA needs a tool to develop the UVBGSP, and a model with greater resolution to evaluate stream aquifer interaction and evaluate future scenarios. The Phase 2 work will be closely coordinated with these ongoing programs.

Communications Plan - Achieving Consensus

A Communications Plan (CommPlan) will define the UVBGSA work groups and how they will be lead through a series of carefully crafted meetings and workshops to build understanding, obtain interim decisions, gain consensus, and incrementally build the UVBGSP.

The proposed planning process includes feedback loops. The UVBGSP process is intended to both provide and elicit information. The parallel path for the ethical and project/program analyses will be coordinated through facilitated Board Standing Committees, ad hoc work groups and a TAC to discuss interim deliverables, approaches, alternatives; and to make recommendations to the larger UVBGSA. The UVBGSA website will be used to distribute data and deliverables; to manage notifications, board agendas and minutes; and to provide other information to help the public understand the GSP.

The PMT is composed of agency staff and professional consultants retained through a competitive process. The PMT will move the UVBGSA, committees, and work groups through a carefully sequenced series of meetings to review the interim deliverables, to assess management measures, to formulate the alternatives, and to make decisions on the path to building and adopting the UVBGSP. UVBGSA stakeholders will seek consensus on:

- Definition of the problem, purpose, and need for the UVBGSP
- Sustainability goals and objectives, minimum thresholds, and sustainability indicators
- Review and selection of water and groundwater projects, policies, and programs
- A preferred alternative to mitigate or avoid undesirable results
- Implementation plan and schedule
- Funding and revenue strategy
- Coordinating agreement(s) and long-term governance and oversight mechanisms
- Draft and final content of the UVBGSP

Final Deliverable

The final deliverable will include a comprehensive, actionable UVBGSP and any needed coordinating agreements. The UVBGSP will provide a roadmap for the future that identifies project, policy, and program priorities to be funded and implemented to be sustainable within 20 years, along with milestones and metrics to ensure sustainability goals are met. The UVBGSP will identify

³ ISRP, 2016. Conceptual Model of Watershed Hydrology, Surface Water and Groundwater Interactions and Stream Ecology for the Russian River Watershed

roles and responsibilities; project implementation schedules for near-, mid-, and long-term actions; and funding mechanisms, sources, and requirements.

Scope of Work

Successful development of the UVBGSP to meet the Ukiah region's needs and DWR regulations requires four (4) functional work elements that contain eighteen (18) total tasks, which are each described in detail below.

Work Element: Project Management, Communication, and Facilitation

This work element is composed of two tasks:

- Program Management and Client Coordination
- Communication, Facilitation, and Outreach

1. Program Management and Client Coordination

The objectives of this task are to deliver the project within the scope, schedule and budget; to identify and avoid risks; and to define any needed recovery strategies. A competitively chosen Consultant will help coordinate program management to guide development of the UVBGSP. This includes coordination of the PMT; strategic consultation and communications with the UVBGSA Contract Administrator; monthly conference calls with the Contract Administrator and/or PMT; preparation of contracts, subcontracts, task orders invoices, and progress reports; budget and schedule tracking, monitoring, and reporting. The Consultant will communicate program deliverables to DWR and review PMT reports and documents to provide quality control of program deliverables.

Work in this task includes:

- Client coordination
- PMT monthly conference calls
- Grant administration
- Budget and work plan preparation for task orders and subcontracts
- Quality control of program deliverables (PMT work review)
- Preparation of invoices and monthly status reports
- Quarterly reports to DWR and final grant report

Deliverables: Subcontracts; meeting notes; monthly invoices and progress reports; DWR quarterly reports.

2. Communication, Facilitation, and Outreach

The primary objective for this task is to establish the project CommPlan, and then to execute this plan to ensure coordinated internal and external communications and engagement of stakeholders throughout the process (*Reg. § 354.10, 353.6*). The CommPlan will identify internal and external communications requirements; stakeholders; project organization and PMT; use of Board standing and ad hoc committees; anticipated public and stakeholder meetings; communications channels and approaches (collateral materials, website, email list, etc.); final assumptions for the number of meetings; risks to completing the scope, schedule and budget; and recovery plan. It will identify notification requirements; how interested parties, including groundwater users, stakeholders, and the public, will be informed about the project progress; how relevant reports and data will be disseminated to these groups; document decision-making processes; public engagement opportunities, encouraging active participation; and a web communications strategy. This will be a living document that will be maintained throughout the project.

The Consultant will provide logistical support, outreach, and facilitation services to the UVBGSA and committees throughout the process. For budgeting purposes, this assumes six UVBGSA meetings per year; that committee meeting calendars will be scheduled and synchronized with UVBGSA Board meetings; and that the UVBGSA Project Coordinator will prepare minutes. Information delivered to a committee in a given month would be delivered to the Board the next month with committee input. The Consultant will produce public affairs materials as requested by the Contract Administrator. Such information intends to promote the dissemination of information regarding UVBGSP processes and results to UVBGSA member groups. Materials to be produced are not firmly defined now, but could include presentations, brochures, and pamphlets; briefings for the website; and opinion-editorial pieces for the newspaper. Materials will be produced in both English and Spanish to maximize the community's ability to participate.

Work in this task includes:

- Develop draft and final CommPlan
- UVBGSA coordination and facilitation
- Technical Advisory and UVBGSA committee meetings and conference calls
- Public meetings and workshops
- DAC, tribal, and stakeholder group outreach
- Produce public affairs materials
- UVBGSA website maintenance

Meeting assumptions include:

- UVBGSA, public meetings, and workshops will be on-site at a location to be determined.
- Standing, TAC, and ad hoc committees could be on-site or via conference call.
- On-site meetings would be coordinated to take place over two consecutive days to support TAC, committee, and work group meetings.
- For budget purposes, it is assumed six UVBGSA meetings per year would be on-site in the project area and that six would be via conference call for a total of **twelve per year**. The budget includes up to **four** public meetings at key milestones over the project life. The budget also includes up to **twelve** total DAC, tribal, and specific stakeholder (e.g.; Farm Bureau; City Council) on-site meetings to be defined in the final CommPlan.

Deliverables: Communications Plan; meeting agendas and notes; public affairs materials.

Work Element: Technical Analysis and Support

The objectives for this work element are to provide a description of the plan area (*Reg. § 354.8*); document groundwater conditions (*Reg. § 354.16*); complete the hydrogeologic conceptual model (HCM) (*Reg. § 354.14*); finalize the water budget, including historical and future conditions (*Reg. § 354.18*); and identify key management areas (*Reg. § 354.20*). This work will also serve to establish common methods, data, and assumptions to be applied during the project and when implementing the UVBGSP.

Phase 2 shall establish a common understanding of the constraints and opportunities inherent in the Ukiah Region water supply from the Russian River, the Potter Valley Project, and the Ukiah Basin; consensus on planning assumptions and methods for quantifying future demands; and an understanding of the water budget, including potential uncertainties and areas of risk to Ukiah Region water supplies. Consultants will work with the UVBGSA and related work groups to evaluate available surface water data from the Russian River and local groundwater sources so that constraints (undesirable results) are well documented and understood. Quantification of current demands and forecast of future demands for the Ukiah Region will be updated and presented with the water budget. This will define the gaps between the anticipated demand and

available supply, help size the potential solutions, and lay a foundation for capital projects that could close the gap with program/policy solutions.

3. Maintain Data Management System (DMS), Develop Long-Term Strategy

The objectives for this task are to fill the data gaps identified in Phase 1, compile the best available information, identify the data management system, support long term monitoring and reporting, formulate projects, and build public awareness and understanding. The work will identify the most cost-effective, long-term needs and objectives for the DMS required to support implementation of the UVBGSP; manage monitoring network and collected data; DWR reporting; and help the UVBGSA and public track progress in meeting the measurable objectives using the sustainability indicators and project metrics to prevent undesirable results (*Reg. § 352.6, 354.8, and 354.40*). This work will also serve to establish common methods, data, and assumptions to be applied during the project and when implementing the UVBGSP.

Phase 1 included a task to compile existing data (Task 3.1), which was focused primarily on the description of the groundwater conditions in the basin. Task 3.1 included a literature and file review of hydrologic and hydrogeologic information; acquiring, analyzing, georeferencing, and creating a database of 2,490 well completion reports provided by DWR, 6,588 groundwater elevation data points from GeoTracker, and 457 groundwater elevation data points from CASGEM and DWR wells; and characterization of hydrogeology geometry and properties. An updated geologic map, maps of estimated hydraulic conductivity, and associated cross sections were developed as part of the drafted hydrogeologic conceptual model. Maps of soil type, land use, and agricultural type were developed as a part of the drafted water budget.

Phase 2 work proposed is to perform biannual updates to the DMS with new groundwater and surface water data; expand the current groundwater and surface water monitoring networks to fill data gaps; support completion of the UVBGSP; develop the surface water / groundwater model (MODFLOW-2005); and put together an integrated DMS/GIS to meet long term UVBGSP needs for data sharing, exchange, access, analysis, and reporting. An integrated system will be developed, or commercial off-the-shelf systems adopted, to meet the needs of the UVBGSA, to store and report information relevant to the completion and implementation of the GSP, and to monitor the basin. The PMT will identify functional requirements and business needs, evaluate alternatives and cost-benefit relationships, and obtain guidance from the TAC and UVBGSA. This includes the approach for managing information generated during the UVBGSP development (e.g. groundwater contours, depth to water, well density, water quality conditions, etc.); supporting access and transparency; and reporting to DWR. Plans for exchange or permission to access data between UVBGSA members and downstream Santa Rosa Plain Grantwater Sustainability Agency (GSA) will be developed.

Additional time series water demand and hydrogeologic data will be collected from local, state, and federal sources to support the technical and project/program analysis. A plan will be developed for how monitoring data will be included in the required annual report and submitted electronically on form or formats required by the DWR. Further work for Phase 2 includes developing maps that depict the area, boundary, adjudicated areas, historical land use, jurisdictional boundaries, water use sector, sources, density of wells per square mile, water supply, extractors, and written description of features.

Activities of this task include:

- Develop and maintain project data management system and GIS
- Collect, aggregate, and manage digital maps and time series
- Develop the DMS plan for program management, monitoring data and GSP implementation.

Deliverables: Operational DMS, documentation, and an inventory of digital time series and spatial data captured or developed under the project.

4. Data Gap Analysis on Surface Water/Groundwater Interaction (100% complete)

This work was completed in Phase 1 (Task 3.2) and accepted by DWR. The analysis will be provided to the TAC for review.

5. Monitoring Protocol Manual Development (100% complete)

This work was completed in Phase 1 (Task 3.3). Phase 2 work includes coordination and completion of the TAC review, and updating the protocol based on the input.

6. Historical and Current Conditions, Identify Undesirable Results

The objective is to complete and supplement Phase 1 work and to provide for TAC review. Historical conditions have been added to the existing DMS. The identification of undesirable effects must be addressed through the development of the final water budget, reviewed by the TAC, and by filling surface water-groundwater data gaps through additional monitoring. Stream seepage runs (measuring the differences between streamflow using streamflow gauges along a stream reach) incorporation in the analysis to provide field data to calibrate MODFLOW-2005 water budget results is recommended. This will require expansion of the streamflow monitoring network.

The purpose of this task is also to provide for independent TAC review of the description of current and historical groundwater conditions in the basin based on the best available information as required (Reg. § 354.16). This includes groundwater elevation contours and hydrographs, change in groundwater in storage, groundwater quality, land subsidence, identification of interconnected surface water systems, and groundwater dependent ecosystems within the basin.

Deliverable: Final documentation of historical and current groundwater conditions.

7. Hydrogeologic Conceptual Model (HCM)

The purpose of this task is to complete the description of the regional geologic and structural setting and to gather information to support the final current and future water budget and model. Work completed in Phase 1 includes gathering and presenting existing data, including lateral basin boundaries, major geologic features affecting groundwater flow, bottom of the basin, principal aquifers and aquitards, physical properties of aquifers and aquitards that would support modeling (e.g.; hydraulic conductivity, storativity); preparing cross-sections and documenting major stratigraphic and structural features map; and describing soil characteristics. The ISRP conceptual model, along with the HCM, will meet the requirements of SGMA and application of the MODFLOW-2005 model of the Ukiah Basin.

Additional work for Phase 2 includes:

- Characterize water quality
- Update the bottom of groundwater basin characterization with USGS-derived gravimeter study data (to be released within a few years)
- Delineate existing recharge and discharge areas that substantially contribute to the replenishment of the basin or provide streamflow (gaining/losing reaches and conditions under which they may occur)
- Identify potential recharge and discharge areas, including significant active springs, seeps, wetlands, and groundwater-dependent ecosystems
- Document surface water beneficial uses and water supply sources, and surface water bodies that are significant to the management of the basin
- Locate sources and points of delivery for diversions, including existing agreements, requirements, and operational strategies

Phase 2 will include TAC review of the existing studies and analysis, abstracting information for public understanding, and further addressing undesirable effects that are or may occur. These would be further evaluated in the water budget in Task 8 using MODFLOW. This work will also provide input for the establishment of goals, objectives, sustainability indicators, and thresholds.

8. Historical Water Budget

By the end of Phase 1, it is projected that a transient groundwater flow model (MODFLOW-2005) will be calibrated to groundwater monitoring data from 2014 to 2017 to expand on the spreadsheet-based water budget completed by Maritza Marquez of U.C. Davis. TAC will review the water budget and MODFLOW-2005 flow model prepared for Phase 1, along with the existing U.C. Davis water budget. The groundwater flow model will provide spatial representation of surface water / groundwater fluxes and will enhance the understanding of areas sensitive to surface water depletion from groundwater pumping. The calibration period will be extended for the historical analysis to cover hydrologic and operations variability for critical dry, dry, normal, above normal, and wet years to help the model reflect the historical groundwater levels and Russian River stage values. Phase 2 will document historical and current water demands, extend the baseline and increase the calibration-period of the model, lay the foundation for application of the model to future conditions, and coordinate TAC review. Output from this task will be used for purposes of comparison with the future baseline forecasts. Working with the TAC, the Consultant will ensure compliance with DWR requirements and that the following are quantified:

- Total surface water entering and leaving the groundwater basin by water source type
- Inflow to the groundwater system by water source type, including subsurface groundwater inflow from bedrock, infiltration of precipitation, applied water, and surface water systems and operations
- Outflows from the groundwater system by water use sector, including pumping, subsurface discharge to the Sanel Valley groundwater basin, and groundwater discharge to surface water
- Changes in groundwater storage between seasonal high conditions
- Overdraft conditions, if they occur, and an estimate of sustainable yield

Additionally, the TAC and Consultant will:

- Evaluate availability or reliability of past surface water supply deliveries and aquifer response to water supply and demand trends relative to water year type; and surface water supply deliveries as a function of the historical planned versus actual annual surface water deliveries, by surface water source and water year type, and based on the most recent ten years of surface water supply information
- Assess historical water budget, starting with the most recently available information and extending back a minimum of 10 years
- Describe how historical conditions concerning hydrology, water demand, and surface water supply availability or reliability have impacted the ability of the UVBGSAs to operate the basin within sustainable yield

9. Documentation of Conceptual Hydrologic Model (HCM) and Historical Water Budget

The purpose of this task is to complete the documentation for the historical groundwater conditions, HCM and historical water budget, and provide the calibration report for the MODFLOW-2005 analysis and incorporate recommendations from TAC and UVBGSAs review. This includes preparing a draft and final technical report, TAC review of the work, and presentations to the UVBGSAs.

Deliverable: Final Phase 1 technical report: HCM, historical water budget, and model calibration.

10. Develop Future Baseline Water Budget

The purpose of this task is to develop the future baseline water budget assumptions and analysis that show the future conditions with no changes to projects, policies, or programs. The outputs will be the MODFLOW-2005 model results, forecasted future water budget conditions, and assessment of the potential undesirable effects that would need to be avoided or mitigated in the UVBGSP. The future baseline will be developed both with and without climate change scenarios and variability in diverted water supply from the Potter Valley Project. There will be four climate change scenarios consistent with DWR regulations, guidance and technical information provided, and with the downstream interests in Sonoma County to ensure that consistent methods, data, and assumptions are used. The same outputs will be produced as are generated for the historic water budget to allow for comparison between current conditions and possible futures. Working with the TAC, the Consultant will ensure compliance with the DWR requirements.

The Consultant will develop future scenarios for land use, groundwater pumping, precipitation, evapotranspiration, streamflow, groundwater recharge, and water demand based on 50 years of past data and climate change scenarios from the *California Basin Characterization Model: A Dataset of Historical and Future Hydrologic Response to Climate Change from the U.S. Geologic Survey* (USGS, 2014). Assumptions will be documented. The workplan includes performing a hydrologic analysis to quantify streamflow based on proposed hydrologic future scenarios, and developing a transient simulation that forecasts surface water and groundwater response to variability in future scenarios, including developing climate change scenarios and assumptions. Updates will be presented to the TAC for discussion and review prior to configuring the final model inputs and running the model. Transient model simulations will be executed to forecast surface water and groundwater response to variability in the future scenarios. The Consultant will compare all outputs using the same sustainability criteria and thresholds as defined during the final calibration, and will document the results of the simulation.

Activities of this task include:

- Create future scenarios
- Perform a hydrologic analysis to quantify future streamflow
- Develop climate change scenarios
- Confirm future scenarios with TAC
- Configure model input files
- Run transient simulations
- Document the results of transient simulation

Deliverables: Future baseline and climate change water budget analysis technical memorandum; TAC presentation; documentation of TAC review and comment.

11. MODFLOW Alternatives Evaluation

The purpose of this task is to apply the MODFLOW-2005 model to the evaluation and comparison of alternatives. The Consultant will use the calibrated groundwater flow model to characterize the benefits of groundwater projects, programs, and policies that will be configured into alternatives in Task 15 (Integrate Management Strategies, Define Alternatives). All alternatives will be compared to the future baseline analysis and water budget and with the climate change scenarios. Tables, maps, and graphs will be produced, showing the effects in terms of the sustainability indicators and thresholds adopted as identified in Task 12 (Develop Sustainability Goals and Measurable Objectives). The model technical results will be one of the factors used in selecting a preferred alternative and developing the UVBGSP.

Deliverables: TAC presentation; alternatives analysis technical memorandum; documentation of TAC review and comment.

Work Element: Project/Program/Policy Analysis

The objectives for this work element and related tasks are to bring the results of the technical analyses into the UVBGSA decision process, and to use the results to help develop the local projects, programs, and policies to create a comprehensive UVBGSP preferred alternative that will be funded and implemented to meet sustainability goals. The CommPlan will define the process used by the UVBGSA to make decisions (Reg. § 354.22). The UVBGSP will then include measures that will be implemented to ensure that the basin will meet sustainability goals and be operated within its sustainable yield, and avoid undesirable effects to the Russian River and related fishery and riparian resources. (Reg. §354.24). The Consultant will work with the UVBGSA, committees, and work groups to define projects and management actions to achieve the sustainability goal for the basin, including projects and management actions to respond to changing conditions in the basin (Reg. § 354.44). Project management actions will identify physical solutions, including structural projects (e.g. recharge facilities), as well as non-structural policies and programs (e.g.; demand reduction, drought response, well standards). There is a wide array of individual projects, programs, and policies the UVBGSA may consider. The individual projects, programs, and policies serve as elements or building blocks that can be used to formulate overall UVBGSP alternatives. For example, a demand reduction alternative may be formulated and compared to a supply development alternative.

This work element includes:

- Develop sustainability goals
- Finalize undesirable results, sustainability indicators minimum thresholds, interim milestones, and measurable objectives
- Inventory and review of plans, projects, programs, and policies
- Review groundwater and related resources management measures
- Configure and compare alternatives
- Select a preferred GSP alternative
- Evaluate financial/funding potential

12. Develop Sustainability Goals and Measurable Objectives

The purpose of this task is to gain consensus on the nature and extent of current problems and undesirable effects, sustainability goals, sustainability indicators, minimum thresholds, interim milestones, and measurable objectives, and to lay the foundation for agreement and practicable solutions. It is critical that UVBGSA members agree on the undesirable results that must be addressed, and recognize the nature and extent of the conflicts and issues facing the Ukiah Region. The sustainability goals and measurable objectives should then seek to mitigate and avoid current or future undesirable results, and to resolve the identified problems, conflicts, and issues. The objectives are critical to the screening of projects, programs, policies, and alternatives.

Preliminary purpose, need, sustainability goals, and measurable objectives for the UVBGSP will be prepared in Phase 1. These will be reviewed by the TAC in workshops. These preliminary goals and objectives will be revisited and revised once the technical analysis and SW/GW model has been completed and the future baseline without project conditions has been evaluated. Each of the elected bodies (GSA Board, County Supervisors, cities, and special districts) will be asked to review the UVBGSP final goals and objectives and to adopt resolutions of support for the UVBGSP. Obtaining these resolutions of support and attending meetings of their representative bodies will be the responsibility of a USGS project manager.

Task activities to be completed include:

- Review issues and conflicts to be addressed by the UVBGSP
- Draft goals and objectives

- Define sustainability indicators and thresholds
- Coordinate with UVBGSP committees and work groups
- Draft resolutions for UVBGSA

Deliverables: Presentations and briefings on opportunities, issues and conflicts, purpose and need, goals and objectives; draft and final resolution of support for UVBGSP to be adopted by stakeholder groups (County of Mendocino, City of Ukiah, water companies, Farm Bureau, tribes, the Mendocino County Resource Conservation District, agricultural leaders, and members of the community).

13. Inventory and Review Plans, Projects, Programs, and Policies

The purpose of this task is to inventory and review the current land use and water related plans; current and proposed projects; and related local, state, and federal policies and programs that effect groundwater management on the Russian River. Also, this task aims to identify any program gaps between current local land and water management plans, policies, and programs; SGMA requirements; and local sustainability goals. A policy review of the land use plans (general plans) will document water supply and quality plan elements, and address whether these acknowledge or identify any current or potential undesirable effects. Current policies, plans, and programs to manage surface water and groundwater will be documented to inventory those that will help meet sustainability goals, or which could be revised to support the UVBGSP implementation (e.g. well standards and permitting; state and regional board policy, biological opinions, operating agreements, etc.). During the scoping and review, a preliminary list of potential stakeholder projects will be compiled from current capital improvement plans, existing groundwater plans, and the area's Integrated Regional Water Management Plan (IRWMP). The outputs of this activity will serve as inputs to both the Technical Analysis element (e.g. future water demands) and the other Program/Project Development element of this work plan.

Work of this task includes:

- Review general plans and land use plans
- Review current urban and agricultural water management plans and the prevailing Integrated Regional Water Management Plan (IRWMP)
- Conduct outreach to DACs and the tribal community
- Document current major project operations and proposed capital projects
- Inventory local agency programs and policies
- Document other state and federal programs and policies affecting local groundwater
- Conduct a program and policy review and SGMA analysis of gaps
- Prepare memorandum

Deliverable: Inventory and review of existing management measures memorandum; briefings and presentations.

14. Review Groundwater and Resources Management Measures

The purpose of this task is to introduce the UVBGSA to the wide array of management measures and strategies available to the Ukiah Basin. The UVBGSA partners already have programs that reflect the SGMA requirements. The existing programs, along with the groundwater resource management measures defined in SGMA and Water Code statutes and Best Management Practices (BMPs) documentation prepared by the DWR, provide the management measures (building blocks) that will be reviewed, screened, and prioritized. The output from this task will be used as input to the next task to integrate management measures and formulate integrated groundwater management alternatives.

The Consultant will review the DWR's voluntary and mandatory groundwater management measures with the UVBGSA, committees, or work groups formed for this purpose. The process will

be informed by the prior policy gap analysis. The voluntary and mandatory elements will be reviewed to develop opportunities to improve the programs.

The PMT will work with the UVBGSA to develop and apply a criterion to screen and prioritize individual management measures. The Consultant will provide a series of briefings and facilitate workshops to review resources management measures that could reduce or avoid undesirable results and meet the sustainability goals, consistent with the SGMA requirements and DWR regulations. This includes BMPs identified by DWR for consideration by UVBGSA. A list of strategies will be prepared for review by the UVBGSA committees and/or workgroups, which will provide preliminary rankings of each strategy. The review will support establishing UVBGSP priorities; the planning framework to integrate the mix of project, policy, and programs; to configure alternatives; and to develop evaluation, screening, and ranking criteria in subsequent tasks.

Workshops will be conducted to review resources management strategies and BMPs with the UVBGSA and to initiate a more detailed review by the committees or work groups. The committees or work groups will make findings and recommendations regarding the value of each strategy and management practice to the UVBGSA for final formulation of alternatives and subsequent evaluation to define a preferred alternative for inclusion in the UVBGSP implementation chapter. These findings and recommendations may take the form of policy statements, which provide overall direction for both plan development and implementation. Ultimately, the information will be used by the Consultant to define a preferred alternative and implementation plan.

Activities of this task include:

- Review mandatory and voluntary groundwater management measures
- Review DWR BMPs
- Prepare presentations and briefings for UVBGSA, committees, and work groups
- Develop screening and ranking criteria for management measures
- Coordinate work groups and committees
- Prioritize and screen management measures
- Develop findings and recommendations
- Prepare presentations and briefings for groundwater management strategies
- Prepare project memorandum

Deliverables: Management strategy briefings and presentations to UVBGSA; screening criteria; work group findings and recommendations.

15. Integrate Management Strategies, Define Alternatives, and Select UVBGSP Preferred Alternative

The objective for this task is to combine the management measures into alternatives for the UVBGSA to compare. The MODFLOW-2005 model will be used to evaluate the alternatives and provide the technical analysis results needed to compare the future baseline with the GSP program alternatives; identify undesirable results; and apply the sustainability indicators and thresholds identified for the UVBGSP. Alternatives will be formulated to emphasize the overall management approach. For example, one alternative could configure demand management measures and reduction to compare with an alternative that focused on supply and water development solutions (in-lieu recharge, intentional recharge, injection, reoperations, etc.). In this way, the relative benefits and costs can be compared and a preferred alternative selected. Similar to the screening and prioritization of management measures, a criterion will be established by the UVBGSA that will be applied to configure and select the preferred alternative for inclusion in the UVBGSP implementation plan. The criteria may include technical (feasibility, yield, quality, environmental) and social criteria (economic, political, legal, social, etc.). Preliminary environmental screening criteria would use sustainability indicators and criteria similar to those found in the CEQA check list and prior biological opinions.

Work in this task includes:

- Develop integrated groundwater management program alternatives
- Define evaluation criteria for alternatives
- Conduct environmental evaluation
- Review alternatives and selection criteria with UVBGSA
- Develop preliminary feasibility level program costs
- Apply alternatives evaluation criteria and identify preferred alternative
- Prepare UVBGSA, committee, and work group presentations and briefings
- Coordinate work groups and committees
- Prepare preferred alternative project memorandum

Deliverables: Preferred alternative project memorandum; briefings and presentations; meeting notes.

16. Financial Evaluation

The preliminary costs identified in Task 12 will be factored into an evaluation of funding alternatives that will review and discuss revenue generation strategies that might be implemented by the UVBGSA to cover the costs of implementing projects, programs, plans, and policies. This could include existing authorities used by members of the UVBGSA, which are not available to the UVBGSA pursuant to SGMA. This will also include identification of programs that provide low interest loans and grants to fund program and project development and implementation. This might include benefits assessments, impact fees, permit fees, water charges, and other user rates and fees that may be considered by the UVBGSA for funding the preferred program alternatives. This review will include discussion of the pros and cons of the different funding strategies. A technical memorandum will be prepared and presented to the UVBGSA and appropriate committees to facilitate discussion and development of a preferred funding strategy, including identification of the needed 'next steps' to finalize the approach (e.g. Prop 218 initiative; hearings, etc.) to be included in the UVBGSP implementation plan.

Activities to be completed include:

- Develop and review funding and revenue alternative descriptions
- Prepare briefings and presentations to UVBGSA and committees on funding strategies
- Coordinate work groups and committees
- Develop a preliminary funding strategy based on UVBGSA input
- Prepare financial/funding alternatives and recommendations technical memorandum

Deliverable: Funding alternatives technical memorandum.

Work Element: Prepare Implementation Plan and UVBGSP

17. Develop UVBGSP Implementation Plan

To meet State of California regulations, the UVBGSP must present regional priorities for implementation; identify short-term and long-term milestones; and identify how decision making will be responsive to regional changes, how responses to implementation of projects will be assessed, and how project sequencing may be altered as implementation is carried out. An implementation schedule will be developed showing timelines for planned projects and other policy or programmatic actions or additional studies needed to solidify projects. This will include preferred funding and a financial strategy when consensus is achieved, and a description of the long-term through the 50-year planning horizon, which will show how sustainability will be achieved in 20 years. Results of the strategy will be used to develop the final chapter of the UVBGSP that will detail capital project and program priorities, demand management measures, and preferred

policies for adoption by responsible agencies. Roles and responsibilities, schedules, and funding requirements will also be identified. The final chapter will also include monitoring and reporting requirements, adaptive management strategies, and methods for tracking progress.

Activities to be completed include:

- Define project actions and schedule
- Define program actions and schedule
- Develop draft and final agreements
- Prepare implementation plan technical memorandum

Deliverable: Implementation plan technical memorandum.

18. Prepare Administrative Draft, Public Draft, and Final UVBGSP

The purpose of this task is to compile the previous work into a complete UVBGSP that is ready for review and adoption. This includes using the technical memorandum and UVGSA inputs on the interim work products to produce an administrative draft UVBGSP. This will be reviewed by the UVBGSA members and TAC. Based on the review, a final public review draft UVBGSP will be produced and used to present the work to the public. Written comments will be sought and oral public comments will be received during UVBGSA meetings held in the project area. The comments will be used to prepare the final UVBGSP that will be considered for adopted by the UVBGSA. The PMT will resolve conflicting comments. Significant policy differences implied by conflicting comments will be resolved by decision of the UVBGSA. The PMT will decide how public comments will be addressed and a final report will be prepared. A draft resolution to adopt the UVBGSP will be prepared by the Consultant for consideration.

Activities to be completed include:

- Prepare administrative draft UVBGSP
- Coordinate UVBGSA review of administrative draft UVBGSP
- Review administrative draft and member comments
- Prepare public review draft UVBGSP
- Conduct a public comment period
- Conduct two UVBGSA meetings to review Public review draft
- Prepare final draft UVBGSP
- Conduct a UVBGSA meeting to adopt the UVBGSP

Deliverables: Administrative draft, public draft, and final UVBGSP; public comments; meeting presentation notes.

Background, experience, qualifications of grant writers

GMA has the ability to scale up or down to meet your workload requirements and deadlines. We can handle multiple grant applications concurrently. GMA has 18 associates with vast experience. GMA's team concept is intended to create the kind of flexibility the Beaumont-Cherry Valley Water District may need.

The following four are expected to perform the majority of the grant writing services.

Kristin Cooper Carter: Founder and sole proprietor of Grant Management Associates. Kristin is a former full professor in the College of Engineering at California State University, Chico. Kristin has over 25 years' experience designing programs as both a grant writer and project manager. Kristin holds a master's degree in program evaluation and administration with a focus on organizational management from CSU, Chico. In 2009 she established Grant Management Associates, a federally recognized Women-Owned, State-Certified Small Business in California that specializes in funding identification, grant development, technical writing courses and strategic planning for corporations, nonprofits and government, and has served hundreds of clients.

Previously, she was the director of the Office of Environmental Projects at California State University, Chico. She raised more than \$15.7 million in grant funding and industry support for CSUC's College of Engineering while coordinating and supporting five colleges and more than 85 faculty members. While in the College of Engineering she was appointed founding Director of the Concrete Management Program.

Kristin is the past founder and director of California State University, Chico's Environmental Resource Program. She also started North State Renewable Energy Group, a nonprofit partnership between CSU, Chico, government agencies, businesses and activists in the Chico area, which focuses on renewable energy projects on the CSUC campus. Kristin has been an expert witness for the State of California's Attorney General's Office regarding fiscal management issues. She has served on many nonprofit boards and on various committees as an expert in sustainable building design.

Kristin was also the director of sustainability at the Calera Corporation, where she provided consulting on feasibility assessment, market development, project development process, grant management and project financing.

Susan Strachan: A senior partner of Grant Management Associates with a strong background in water quality planning, environmental restoration, funding development and coastal planning. She worked in many capacities at the California Coastal Commission, primarily as a coastal planner and water quality specialist. She worked on the initial development of the commission's nonpoint source pollution control program. She has also worked in the private and nonprofit sectors, focusing on water quality and watersheds. As a senior environmental planner with an engineering firm, she developed stormwater management plans, funding proposals for water infrastructure and served on a business development group for stormwater.

Cecily Harris: Has more than three decades of experience with government agencies, business and community organizations. Her MBA degree focused on strategic marketing and she has an

undergraduate degree in Renewable Natural Resources from the University of Arizona. Cecily has a strong background in grant and philanthropic funding for parks and open spaces, which encompasses capital projects, programs/projects, land acquisitions and planning. She has raised funds and increased awareness for nonprofits, cities, counties, state and federal agencies. She serves on several nonprofit boards, local advisory committees, and a regional special district board and is also a governor-appointed commissioner to the California Boating and Waterways Commission.

Matt Zidar: Has been engaged in water and groundwater resources planning, management and engineering in both the public and private sector. He has helped clients obtain grant funding for a range of water supply, water quality and water conservation programs. He has developed several groundwater management plans and integrated regional water management plans that included capital facility plans which prioritized investments and developed funding strategies. Matt wrote several successful grants issued under the California bond programs (Proposition 204, 1, 1E, 50, 84) and other pass-through federal funding sources (Clean Water Act 319(h) and 205(j), EPA Wellhead Protection). He has technical expertise in groundwater and surface water hydrology, conjunctive use, flood control, water quality, salt/nutrient management, seawater intrusion, water conservation, water rights, project formulation and feasibility studies, environmental compliance, and facilitation of stakeholder process. Areas of expertise include groundwater recharge/storage, conjunctive use, reservoir operations, nitrates, seawater intrusion, wastewater recycling, water rights, water conservation, surface and groundwater modeling, GIS/DMS development and applications, projects formulation, alternatives evaluation, regulatory compliance (CEQA, NEPA, ESA, CWA), grant writing, process facilitation.

List of references

GMA recognizes that relationships – with funders, policy makers, business partners and clients – are the key to success. Many of our clients have been with GMA for years, knowing that their grant management needs are being met in a way that is affordable yet does not feel like a “contracted” service. GMA strives to be an integral part of our client’s organization while still being able to offer a strategic, objective outsider’s perspective.

Here are five references. More references are available upon request:

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Proposed fee structure

GMA proposes the following pricing options for 2018:

<u>Option</u>	<u>Price Not To Exceed</u>
1. Needs Assessment/Matrix	\$3,300*
2. Flat fee Per Grant Option	\$9,500 per grant up to 45 pages
3. Monthly Retainer Option	\$5,950 per month up to 40 hours
4. Hourly Rate Option	\$165 per hour (reduced rate)
5. Grant Development Training Program	\$1,500 per day (8 hours)/10 students

Needs Assessment/Funding Matrix Option. The needs assessment option offers a comprehensive assessment of fundable activities and aligns them with possible funding opportunities. You will be delivered a comprehensive Funding Matrix as a part of the effort. *The cost for this service is dependent on the scope of the research and geographic area.

Monthly Retainer Option. The monthly retainer option of \$5,950 is proposed for a) Grant Management Services and b) Comprehensive Proposal Development Services for up to two new grants per quarter that may include coordination of multi-agency or multi-jurisdictional grant applicants. The proposal development services suggested here can be modified to meet the client's current grant development needs as determined at the time of contract negotiation. The monthly retainer option is for services up to 40 man-hours per month. Additional man-hours will be priced at \$175.00 each. Grant Management Services includes accounting, monitoring, compliance and reporting activities for all grants from all funders received by the client and providing monthly reports to the client on all Grant Management Activities.

Per Grant Option. Per the client's request, a Per Grant Option is provided above at not to exceed \$9,500 per grant. This option is limited to grant proposals of up to 45 pages (total). Proposals exceeding 45 pages will be charged at GMA's standard hourly rate, and written estimate of work will be provided by GMA for the client's approval to proceed. This Option can be reduced if the grant application is deemed to fall under the level of effort that is standard for many state and federal applications – most foundation grants will fall under this category as well as some state programmatic funding.

Hourly Rate Option. The hourly rate option is our most common approach to pricing our grant writing services because so much of the service scope cannot be known at this stage of our relationship. For example, we cannot predict at this point whether we will be pursuing five easy (or

short) grants, five medium grants or five difficult (or long) grants in the next year on the client's behalf. The hourly rate option allows the client to pay GMA a fee to be determined on an as-needed basis for work relating to additional individual proposal projects or for support of departmental proposal development, staff development or funding opportunity monitoring and research. The cost of each project will be determined by GMA in advance and approved by the client prior to the commencement of any work. Project cost will vary dependent upon degree of complexity, quality of existing material available, amount of original research work needed, amount of collaborative/partnership development required, and other factors. Prior to commencing any work on an individual project proposal, GMA and client shall execute a written memorandum specifying the specific work to be performed by GMA, the number of hours, the billing rate, and a specific not-to-exceed amount for the project.

Grant Development Training Program Option. GMA offers an introductory one-day grant development training program for up to 10 students for a package price of \$1,500 per day, which covers all costs and materials. This training program has been utilized with many GMA clients and proven highly effective at engaging staff to participate effectively in the grant development process.

Statement of qualifications

Description of organization's qualifications

Grant Management Associates (GMA) is a California-based firm, nationally recognized as experts in grant writing and project management. GMA is nimble, with a sole proprietorship and multiple associates. With 18 grant writers and team members located in strategic areas throughout the state and nation, we specialize in providing on-call services and focused attention when the client needs it. Unlike most grant writing firms, GMA is different in that all of our associates have deep technical knowledge of the subject matter that they specialize in. We research grant opportunities and then either work with agencies to help them prepare the grants or develop the grants ourselves, depending on what the client desires. We use our years of experience with agencies to clearly understand what they are looking to fund – aligning your activities with their funding stream. This is why we are so successful, with an 87.6% funding rate.

Number of employees, by level, who will perform services

GMA has 18 associates with vast experience. GMA's team concept is intended to create the kind of flexibility the Beaumont-Cherry Valley Water District may need. We anticipate four employees will perform the services but we can scale up based on your needs.

The four include Kristin Cooper Carter, Susan Strachan, Cecily Harris and Matt Zidar.

Resumes

Kristin Cooper-Carter, MA, CSDP
1722 Hyer Court, Durham CA 95938
kcarter@grantmanagementassoc.com 530-228-9235 Cell

Areas of Specialization and Competence:

- ✓ Grant development and management in all sectors; with specialty in energy, technology, job creation, agriculture, natural resources, water infrastructure and transportation.
- ✓ Sustainability directly related to energy, water and green building.
- ✓ Strategic planning for corporations, nonprofits and municipalities.
- ✓ Management support on legislative and regulatory issues.
- ✓ Identification of grant and guaranteed loan funding opportunities, development of successful applications and grant management.
- ✓ College level training programs.

Certifications

Certified Professional Contracts Manager (CPCM) In Progress

Mastering Project Management (Certification) Completed in May 2009

Essentials of Business Analysis (Certification) Completed in Sept 2008

Certification, Certified Sustainable Development Practitioner, Association of Energy Engineers (Completed June 2007)

Certification , Green Building and Sustainable Design Certificate Program , UC Davis; Land Use and Natural Resources, and Business and Technology coordinated with Leadership in Energy and Environmental Design (LEED)

Certification, Sustainability Performance Metrics, Natural Logic, Short Course Certification on the selection and use sustainability performance metrics and incentives. (Completed May 2006)

Certification , Train the Trainer – Special Certification in Environmental Justice, United States Environmental Protection Agency (Completed February 2005)

Owner, Grant Management Associates 2010-to Current Date

Consulted on grant writing, grant administration, budget development, project design, funding identification and supplemental documentation. Conducted grant writing workshops and facilitated stakeholder meetings. Developed Contract Management best practices with clients, reviewed contract compliance issues, cost accounting principles and standards, electronic data processing procedures, contract auditing needs, helped them to develop comprehensive contract management systems, and identify potential for contract -related fraud. Reviewed and negotiated intellectual property, patent and royalty concerns. Acted as an Expert Witness for the CA Attorney General's Office, Examined legal issues, assessed risk and submitted contract amendments.

Kristin Cooper Carter Resume

The following is a partial list of clients:

- 38 Degree Advisors
- AltAir
- Array Converter Inc.,
- Blue Planet
- Butte County Economic Development Corporation
- Butte Humane Society
- Buzztail Water District
- Calera Corporation
- Camelot Equestrian Park
- Chabin Concepts
- Chevron
- City of Chico
- Concentric Energies and Resource Group
- County of Riverside
- ChargePoint
- Department of Energy
- Electric Vehicle Community Alliance
- El Dorado County
- Humane Society of Butte County
- Modern Alloy Inc.
- NorTec
- North American Repower
- NRG
- Photometrics
- Richard Schorske
- Sanovas
- Schneider Electric
- Solar City
- Solaria
- Starfire Capital Partners
- Surprise Valley Geothermal
- Tesla Motors
- TerViva
- Thermalito Water and Sewer District
- Timco International
- Town of Paradise
- Zep Solar

Professional Experience:

Director of Sustainability, Calera Corporation, 2007-2010 Los Gatos, CA

Worked directly with senior Calera staff in areas such as site-specific feasibility assessment, market development, project development process, grant management, and project financing. Helped to ensure that the planning process resulted in the prioritization and allocation of resources to tackle contract management and compliance issues, . Worked on global strategic planning providing executive support for critical issues such as national and international communications.

Provides technical support to Calera in all areas of operation, works on opportunities to integrate Calera into state, federal and international energy and carbon markets. Represents Calera with Congress on legislative issues, regulatory agencies on permitting and other regulatory issues, and with various state and federal departments on funding opportunities. Analyzes state and federal legislative policy, develops bill language around climate change, transportation, green jobs, clean energy, pollution, water, solid waste and green technology. Represents Calera at key national and international meetings..

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Create, develop and implement tools to assist Calera in the promotion of their carbon sequestration and sustainable manufacturing practice.
- Create, develop and implement tools to assist Calera with grant management and contract analysis.
- Oversee government affairs issues, crafting and implementing strategies to strengthen Calera's position with congress and regulatory agencies.
- Interface with staff, develop testimony and make presentations.
- Work with state agencies to identify and address key legislative and regulatory barriers and develop state/local clean energy policy initiatives.
- Identify key federal, state and local grants and guaranteed loans.
- Lead directors in developing and submitting grant and loan applications.
- Develop and implement programs to help Calera measure and track progress towards their sequestration and manufacturing goals
- Work with Calera staff to help identify and outreach to appropriate partners
- Work with utilities, power companies, cementitious material suppliers, SCMs, aggregate suppliers, and admixture suppliers
- Educate the public on Calera's sustainable concrete manufacturing practices

Key Accomplishments

Developed and Successfully Submitted Bill Language

Obtained key language inserts in the Recovery Act (ARRA) final bill that allowed for "beneficial reuse" to be included in future ARRA funding. This resulted in major changes to the Department of Energy's future FOA's around clean coal funding.

Obtained key language inserts into the U.S. House version of the Cap and Trade Bill. This language allows for specific funding to be allocated towards "Carbonate Mineralization through Aqueous Precipitation" a process specific to Calera's technology.

Prepared Senate Testimony

Obtained the opportunity and prepared testimony for the CEO of Calera to speak to the U.S. Senate Appropriations Subcommittee about the benefits of Beneficial Reuse. (Copy of this testimony is available upon request)

Successful Grant Development and Administration

Lead team member on the submission of seventeen pre-proposals and full grant applications over a four month period of time:

- Clean Coal Power Initiative, prepared two applications
- Industrial Energy Efficiency Grand Challenge grant (Awarded)

Kristin Cooper Carter Resume

- Recovery Act: *Carbon Capture and Sequestration from Industrial Sources and Innovative Concepts for Beneficial CO₂ Use application (Awarded)
- Advanced Research Projects Agency – Energy (ARPA-E); four pre-applications, two full proposals.
- CA Energy Commission, PON-08-011 PIER Energy Research, Development and Demonstration Program – four pre-proposals, three full proposals
- Annual Phase I Small Business Innovation Research (SBIR) Small Business Technology Transfer (STTR) Funding Opportunity Announcement
- Canada's CO₂ Capture and Storage Program
- Advised on accounting standards, audit compliance, best management practices, patents and IP contractual issues and program evaluation.

***Awarded phase one of a two phase Innovative Concepts for Beneficial Reuse application; \$3.4M (Phase one), \$25M (Phase two).**

Associate Professor, Concrete Industry Management Program 2005-2007

College of Engineering, Computer Science and Engineering, California State University, Chico

Developed and taught a 3 unit course in Sustainability in the Built Environment for the Concrete Industry Management Program.

Taught a 4 unit course in Contracts, Specifications and technical Reports for Civil Engineering.

Concrete Industry Management (CIM) Program, Director 2004-2007

College of Engineering, Computer Science and Construction Management
California State University, Chico

Responsible for the development of a new four -year degree program, staffing, hiring faculty, developing curriculum, coordination of and with the CIM Patron board, student recruitment, fundraising, outreach, speaking engagements, and development of new courses in Built Environment Sustainability. Oversaw the management of five funding sources, developed analytical procedures, contract management processes, planned for contract audits, completed all financial reporting, programmatic reports, interfaced with funders, responsible for project completion and final reports. This program currently has a five year budget of over **\$1.8 million**.

College of Engineering, Computer Science and Construction
Management California State University, Chico

Designed, developed and acquired funding for over **\$14.2 million** in grants and contracts for the College of Engineering, Computer Science and Construction Management. Provided the College with expertise in Environmental Permitting Services, Programmatic Evaluation and Grant Management Services. Reviewed and ensured funding compliance with all financial documentation, developed and negotiated all primary and sub-awards, managed budgets, staff, interns and project partners. Designed new programs, reduced contract costs, ensured high level of programmatic efficiency, forecasted budget shortfalls, developed and submitted contract amendments and was responsible for the day-to-day management of all aspect of the programs.

North State Renewable Energy (NSRE), Program Manager
2004-2007

Worked with a consortium of civic leaders, energy professionals and educators to establish local capacity for renewable energy in California's Northern Sacramento Valley, including local expertise, energy self-sufficiency and community collaboration.

Worked with our board to develop a strategic plan that identifies short and long term goals to reduce existing barriers in the usage of renewable energy at local and regional levels. Raised enough funds through grants and contracts to hire two part-time employees to help manage this effort. Developed contract life-cycle management processes that streamline the management process, aided in compliance tracking, and reduced overall contract administration costs.

Environmental Resource Program, Director

1996-1999

California State University, Chico

- Initiated and designed the Environmental Resource Program
- Supervised over **\$500,000** in office managed programs, was responsible for assisting faculty and staff in acquiring over **\$10.7 million** in grant funding over 3 years. Managed all aspects of the grant development and administration efforts.
- Coordinated and supported **5 colleges**, over **85 faculty members** and staff with on and off campus collaborative project development services. Created a funding lead distribution system designed to meet specific research interests of each faculty member and conducted campus seminars on and off campus designed to encourage the development of partnerships.
- Created grant administration guidelines, advised on cost accounting procedures, conducted risk assessment and handled contract invoicing.
- Analyzed existing legislation and wrote new legislation.

Program Development Specialist

Office of Sponsored Programs

1994-1996

California State University, Chico

- Assisted faculty from three campus colleges in project design, budget construction and coordination of grant documents.
- Conducted grant writing workshops and coordinated meetings with funding agencies.
- Attended various grant development training meetings throughout the United States with various funding agencies such as; National Science Foundation, Environmental Protection Agency and U. S. Fish and Wildlife Foundation.

Information Specialist

Office of Sponsored Programs

1993-1994

California State University, Chico

- Analyzed and implemented a campus-wide funding notification strategy. Participated in partnership with InfoEd International as a demonstration campus. Assisted InfoEd in the development of the Sponsored Programs Information Network.
- Administrated and maintained institutional funding database, SPIN, Smarts and Genius databases.
- Performed surveys and analyzed data.

Education:

Master of Arts, California State University, Chico

Concentration: Program Administration and Evaluation. 4/99

Bachelor of Arts, California State University, Chico

Concentration: Organizational Communication. 6/88

SUSAN STRACHAN

40 Via Morro Ct., Chico, CA 95928

530-520-0403

sstrachan@grantmanagementassoc.com

EDUCATION

B.A., Economics, University of Virginia, Charlottesville, VA

M.A., Environmental Planning and Resource Management, Geography Department, San Francisco State University, San Francisco, CA

EXPERIENCE

January, 2009 – Present, Senior Partner

Grant Management Associates

- Research, analyze and prioritize funding opportunities for clients
- Interface with funding agencies on behalf of clients
- Assist clients with program or project design to meet objectives of funders
- Preparation and submittal of proposals, with a special emphasis on budgets
- Assist clients with grant compliance

September, 2008 – Present, Co-project Director

CSU, Chico Research Foundation, Chico, CA

- Supervise staff and students in implementing grant-funded projects, including hiring, evaluating performance and preparing associated compliance materials;
- Prepare, amend and track budgets to ensure work is completed with budget constraints, meeting budget requirements on 100% of projects;
- Negotiate contracts from funding agencies and subcontracts with project partners, including restarting project suspended during state fiscal crisis by obtaining ARRA funds.
- Track deliverables and timelines and prepare reports to funding agencies;
- Prepare public information pieces and updates to key project partners.

January, 2006 – September, 2008, Environmental Projects Manager

CSU, Chico College of Engineering, Computer Science and Construction Management Office of Environmental Programs, Chico, CA

- Worked with Director of Environmental Programs to develop, fund and implement environmental projects that provide research and learning opportunities;
- Developed service learning project for solar site assessments including preparation of training materials, implementation of training and coordination of service opportunities;
- Track deliverables and timelines and prepare reports to funding agencies;
- Prepare public information pieces and updates to key project partners.

June, 2004 – January, 2006, Executive Director/Watershed Coordinator

Big Chico Creek Watershed Alliance, Chico, CA

- Supervised staff and students in implementing grant-funded projects, including hiring, evaluating performance and preparing associated paperwork;
- Developed annual budgets and tracked expenditures to meet budget requirements;

- Managed Board of Director meetings, including developing agendas, facilitating meetings, and conducting public outreach to encourage attendance and disseminate results;
- Researched, wrote and performed outreach on watershed management strategy.

September, 2003 – April, 2005, Environmental Planner

CSU, Chico College of Engineering, Computer Science and Construction Management
 CSU, Chico Research Foundation employer
 Chico, CA

- Provided staff support to project director for environmental projects, including permitting, outreach, landowner coordination and data entry; and
- Coordinated database development.

March, 2001 – June, 2003, Senior Environmental Planner

Kennedy/Jenks Consultants, Chico, CA

- Developed municipal storm water management plans;
- Developed grant proposals for municipal infrastructure needs; and
- Serve on strategic business development committee for firm storm water group

November, 1992 - February, 1996, Coastal Planner

Coastal Nonpoint Pollution Control Program, California Coastal Commission, San Francisco, CA

- Staffed senior management policy group for revising agency programs to address nonpoint source pollution in new coastal development;
- Co-facilitated State Water Board/Coastal Commission consensus group on wetlands and riparian habitat protection in land development; and
- Wrote grant proposal that funded the State Water Board/California Coastal Commission Model Urban Runoff Program.

June, 1990 - November, 1992, Coastal Planner

North Coast Area Office, California Coastal Commission, San Francisco, CA

- Analyzed land use plan and permit proposals for conformance with state policy;
- Prepared and presented written reports for appointed commission; and
- Conducted California Environmental Quality Act review.

September, 1988 - June, 1990, Enforcement and Technical Services Staff

Enforcement Unit and Technical Services, California Coastal Commission, San Francisco, CA

- Negotiated administrative resolution to violations of state legislation and prepared litigation referrals to the Attorney General's office.
- Reviewed geologic reports and prepared analyses for permit staff.

APPOINTMENTS

Appointee, Butte County Water Commission, Supervisorial District 3, 2007 - 2010

Member, California Water Service Public Advisory Committee, 2007 – 2010

Fellow, Great Valley Center Institute for the Development of Emerging Area Leaders, 2006

Appointee, Butte County Water Advisory Committee, At Large, 2005 - 2006

Member, Chico Urban Area Basin Management Objectives Stakeholders Group

CECILY HARRIS

Four Cranfield Avenue

San Carlos, CA 94070

Office (650) 593-3281

Cell (650) 817-5251

Cecily999@sbcglobal.net

EXECUTIVE PROFILE

Fund development professional with thirty five years of progressively responsible experience with community organizations, government agencies and businesses. Impressive management career building innovative marketing, fund development and community programs. Combines creative design with strong general management, project management and financial accountabilities. Focused expertise with conservation, community development, and civic engagement organizations. Qualifications include:

- Fund Development
- Communications
- Community Relations
- Program Development
- Agency Vision and Strategy
- Public Speaking and Public Relations
- Technical Writing and Reports
- Contract Management

PROFESSIONAL EXPERIENCE

Nonprofit/Public Agency Consultant, San Francisco Bay Area 1988 - Present

(Consulting practice focuses on fund development, program development, marketing, and strategic planning for conservation organizations and public agency park and recreation departments.)

- Research and recommendations of corporate, foundation and government agency funding sources for your programs, projects and capital improvement programs. I track state and federal legislation, and follow numerous competitive and block grant programs. Provides clients with summary reports, which includes analysis of prospects and recommendation for future contact.
- Cultivation, solicitation and secured funds through proposal writing from local, regional, state, and federal funders as well as corporations and foundations. Has raised over \$20.0 million for public agencies between 2000 and 2018 and millions more for nonprofit organizations between 1988 and 2018. I can write successful proposals for you or coach your staff to develop winning grants.
- Turnkey grant and portfolio management with the preparation of narrative and expenditure reports and reimbursement requests for corporations, foundations and government agencies. Tools to build long-term relationships with these funders to lead to the next solicitation.
- Development and implementation of fund development plans for individual and organizational donors. Builds successful relationships for organizations with their community and donors. Plans and timetables are developed for ongoing donor relations with new and existing major donors.
- Counseling for your nonprofit or public agency staff and boards to develop and manage fundraising programs.

San Mateo County Department of Parks, Redwood City CA

2006 –present

(County Park Administrative Department conceives, plans, designs, and builds educational and recreational facilities and visitor services for parks and open space areas.)

Financial Services Manager/Senior Management Analyst

Hired as the Park Department's first grants and special projects manager.

- Program planning, proposal writing and grant administration of local, regional, state and federal funds.
- Solicitation of State and Federal agencies for allocations and other alternative sources of funding.
- Management of design and planning projects such as a Fitzgerald Marine Reserve Exhibits and Signage, Green Valley Trail and Coyote Point Promenade Projects.
- Development and implementation of new programs such as Park GIS/GPS Trails Program, County Park Shuttle, and County Trail Crew Leaders Program.
- Project management for trail and park planning, feasibility studies, fee and revenue enhancement programs, and strategic planning.
- Partnership development with nonprofit organizations, public agencies, and corporations.
- Creation of communications and outreach plans, marketing collateral and public relations activities.

City of San Mateo Park and Recreation, San Mateo CA

2000 - 2007

(City Park Planning and Development Division conceives, plans, designs, and builds educational and recreational facilities for parks and open space areas.)

Subject Specialist, Landscape Architecture

Recruited as a park planner with responsibility for program planning, proposal writing and grant administration for parks and open spaces.

- Prepared local, county, state and federal grant applications for capital projects. Creates program, partners with funding agencies from planning through implementation of project. Raised \$2.5 million for Shoreline Parks.
- Organized and implemented park and open space ground-breaking and ribbon cutting events. Partners with media, elected officials and community groups.
- Organized public meetings and community events that engage community in the planning process. Partners with City Departments, Consultants and Homeowners Associations.

San Francisco Bay Wildlife Society, Fremont, CA

1994 - 2000

(Nonprofit cooperating association that raises funds and awareness for national wildlife refuge environmental education, interpretation, habitat restoration and capital programs.)

Executive Director

(Senior executive with responsibility for accounting, budgeting, fund development, marketing, public relations, and strategic planning.)

- Launched a Membership Program for individual donors, major donors and planned giving. Developed recruitment, solicitation, renewal and acknowledgment activities.
- Established funds and endowments to preserve habitat for threatened and endangered species and migratory birds.
- Authored organizational strategic plans, annual reports and many other essential marketing communication document.

- Visioned and completed capital campaigns such as a \$250,000 New Chicago Marsh Boardwalk campaign.
- Launched a Corporate Refuge Friends campaign that partners the Refuge with corporate neighbors and financial support.
- Public speaker to trails groups, environmental educators, refuge support groups and fundraising executives association.
- Developed and implemented annual giving program for individual, corporate and foundation giving.

Santa Clara Valley Audubon Society, Cupertino, CA 1990 - 1994
(Nonprofit conservation organization focused on education, advocacy and wildlife.)

Managing Director

Senior executive participated in thirteen agency committees ranging from conservation, education, environmental action, fundraising, to executive committee. By working with an organization with a three-pronged mission, I balanced the interests of the membership, volunteers, Board of Directors, and the national organization.

- Recruited, trained, motivated and supervised dozens of volunteers in all aspects of Chapter operation from administration to program to fundraising.
- Held leadership role as staff representative to many other community-based and national conservation organizations.
- Strategized and implemented short and long term plans and budgets for this growing, successful organization.

Nonprofit Development Center, San Jose, CA 1988 - 1990
(Management support organization that trains individuals and organizations in the nonprofit sector.)

Marketing Coordinator

Recruited as marketing manager with responsibility for all marketing and public relations functions.

- Developed and marketed funding and organizational directories and publications to nonprofit and business communities.
- Produced media campaigns to increase market awareness of NDC workshops, events and publications for staff and volunteers of nonprofit organizations.
- Trained staff and volunteers of nonprofit organizations about nonprofit management, marketing, public relations and fundraising topics.
- Conducted research and prepared trend analysis reports for funding research library patrons.

American Express Travel Related Services, San Francisco, CA 1983 - 1988

EDUCATION

Certificate (in progress) Landscape Architecture • UC Berkeley Extension

Certificate, Fund Raising Management • Indiana University

MBA, Marketing • Golden Gate University

Certificate, Travel Planning • Intensive Trainers

BS, Renewable Natural Resources, Wildlife Sciences • University of Arizona

MEMBERSHIPS AND PROFESSIONAL AFFILIATIONS

- Elected Board Member, Midpeninsula Regional Open Space District, Ward 7, Los Altos, CA, 2009 –
- Elected Member, San Mateo County Democratic Central Committee, Third District, 2008 –
- Board Member, Wildlife Rescue, Palo Alto, CA 1990 -1991.
- Board Member, San Francisco Bay Trail Project, Oakland, CA 1990 –1992 and 2008 –
- Board Member, Wildlife Education and Rehabilitation Center, Morgan Hill, CA 1994 –1996.
- Board Member, San Francisco Bay Wildlife Society, Newark, CA 1998 – 2000.
- Board Member, CA Assn. of Parks & Recreation Commissioners & Board Members, 2001– 2003.
- Board Member, Bay Access, (San Francisco Bay Area Water Trail) 2002 – 2006.
- Board Member, Friends of Ethnic Art, San Francisco, CA 2009 – 2013.
- Board Member, CA Garden History and Landscape Society, 2014 – 2017.
- Graduate, Leadership Mid-Peninsula, Palo Alto, CA 1995.
- Community Volunteer, Junior League of Palo Alto-Mid Peninsula, 1984 –1993.
- Community Volunteer, United Way of Santa Clara County, Allocations & Evaluations, 1997 –1998.
- Community Volunteer, CaliforniaVolunteers, Peer Grant Reviewer, 2011 – 2014
- Appointed Commissioner, Parks & Recreation, City of San Carlos, 2000 – 2009, Chair, 2002 & 2007.
- Appointed Commissioner, State of California Division of Boating and Waterways, 2015 –
- Appointed Member, Westside Land Use Advisory Committee, City of San Carlos, 2002 – 2003.
- Appointed Member, Trails Committee, City of San Carlos, 2002 – 2008.
- Appointed Member, Bicycle and Pedestrian Advisory Committee, City of San Carlos, 2003 – 2005.
- Appointed Member, S. F. Bay Area Water Trail Steering Committee, San Francisco, CA 2006 –
- Appointed Member, General Plan Advisory Committee, City of San Carlos, 2007 – 2008

Matt Zidar

5259 Mission View Ct., Carmichael, CA. 95608
Cell: (916)708-8441 Email: mzidar4water@gmail.com

Biographical Sketch

Matt has been engaged in water and groundwater resources planning, management and engineering in both the public and private sector. He has helped clients obtain grant funding for a range of water supply, water quality and water conservation programs. He has developed several groundwater management plans and integrated regional water management plans that included capital facility plans which prioritized investments and developed funding strategies. Matt wrote several successful grants issued under the California bond programs (Proposition 204, 1, 1E, 50, 84) and other pass through federal funding sources (Clean Water Act 319(h) and 205(j), EPA Wellhead Protection). He has technical expertise in groundwater and surface water hydrology, conjunctive use, flood control, water quality, salt/nutrient management, seawater intrusion, water conservation, water rights, project formulation and feasibility studies, environmental compliance, and facilitation of stakeholder process. Areas of expertise include groundwater recharge/storage, conjunctive use, reservoir operations, nitrates, seawater intrusion, wastewater recycling, water rights, water conservation, surface and groundwater modeling, GIS/DMS development and applications, projects formulation, alternatives evaluation, regulatory compliance (CEQA, NEPA, ESA, CWA), grant writing, process facilitation.

Relevant Experience

- GEI Consultants, Inc. Principal Consultant. Principal Consultant. September 2007 to June 2015
- Water Resources Information Management and Engineering, Inc. (WRIME). Principal Consultant. August 2002 to September 2007
- Environmental Science Associates. Director, Central Valley/Sierra Region: Director, Water Wastewater Business Group. April 2000 to July 2002
- Jones & Stokes. Project Manager, Senior Environmental Scientist. April 1997 to March 2001.
- Monterey County Water Resources Agency. Senior Hydrologist, Principal Hydrologist, Manager of the Water Management Division. January 1987- March 1997
- Stetson Engineers, Hydrologist. January 1985-Dec-ember 1987

Water Management Planning

- Kings Basin Groundwater Assessment Report (GAR). Kings Basin Water Quality Coalition and Kings River Conservation District
- Upper Kings Water Forum, Integrated Water Resources Management Plan (IRWMP). California Department of Water Resources, Kings River Conservation District
- Integrated Water Resources Management Plan, Imperial Irrigation District, Imperial, CA
- Consolidated Irrigation District Groundwater Management Plan
- Lower Kings River Groundwater Management Plan. Kings River Conservation District
- Gateway Integrated Regional Water Management Plan, Los Angeles Gateway Region JPA
- Yuba County Integrated Regional Water Management Plan, Yuba County Water Agency, Marysville, CA

- Water Quality Standards, Conditions and Constraints. Kings River Conservation District, California Department of Water Resources
- North Fork Group Technical Study and Groundwater Assessment. California Department of Water Resources, Kings River Conservation District
- Madera County Dairy Development Standards. Madera County, California
- Castroville Seawater Intrusion Project, Salinas Valley. Monterey County Flood Control and Water Conservation District
- Salinas Valley Basin Management Plan, Salinas Valley. Monterey County Water Resources Agency
- Monterey County Water Conservation Plan, Salinas Valley. Monterey County Flood Control and Water Conservation District
- Nitrate Management Program Plan, Salinas Valley. Monterey County Water Resources Agency
- North Monterey County Water Management Plan. Monterey County Water Resources Agency
- Wellhead Protection for Small Rural Communities Facing Threats from Nonpoint Source Nitrate Contamination, Case Study, King City, California. Monterey County Water Resources Agency
- Urban Water Management Plan, San Benito County Water District. San Benito County Water District
- Engineering Services for Floodplain Management, Table Top and Functional Exercise Program. California Department of Water Resources, Sacramento, CA
- Statewide Flood Management Planning, County Outreach Program, California Department of Water Resources. Statewide, CA
- F-CO Design, Yuba County Water Agency, Marysville, CA
- San Joaquin F-CO Design and Implementation, California Department of Water Resources
- Sacramento-San Joaquin Delta Flood Emergency Management Plan. California Department of Water Resources
- California Department of Water Resources and U.S. Army Corps of Engineers Interagency Coordination Plan. California Department of Water Resources

Modeling and Data Management

- Salinas Valley Integrated Groundwater and Surface Water Model (IGSM), Salinas Valley. Monterey County Flood Control and Water Conservation District
- Wastewater Dilution Study, Town of Mountain House. San Joaquin Water District
- Data Network Evaluation, Monterey County. Monterey County Water Resources Agency
- MCWRA Water Resources Monitoring Program. Monterey County
- Evaluating Groundwater Loading of Nitrates and the Effects of Best Management Practices, Salinas Valley. Monterey County Water Resources Agency
- Water Resource Agency Geographic Information System (WRAGIS), Salinas Valley. Monterey County Water Resources Agency
- Groundwater Extraction Management System (GEMS). Monterey County Water Resources Agency

Geologic, Hydrologic, and Hydrogeologic Investigations

- Pajaro Valley State of the Basin Project. Pajaro Valley Water Management Agency
- Recharge Characterization for Stanislaus and Tuolumne Rivers Groundwater Basin Association, California Department of Water Resources, Stanislaus County, CA. Stanislaus and Tuolumne Rivers Groundwater Basin Association (STRGBA)
- Analysis of the Effects of Land Use Constraints on Water Demands in North Monterey County Using GIS. Monterey County Water Resources Agency
- Feasibility Study of Groundwater Recharge Potential of the Arroyo Seco Cone, Salinas Valley. Monterey County Water Resources Agency

- El Sur Ranch Hydrologic Investigation. State Water Resources Control Board, El Sur Ranch
- Aquifer Tests at Existing production wells in the Confined Aquifers of the Salinas Valley. Monterey County Water Resources Agency

Hourly rates for each associate

Kristin Cooper Carter: \$165 per hour

Susan Strachan: \$165 per hour

Cecily Harris: \$165 per hour

Matt Zidar: \$165 per hour

Listing of current and prior clients

GMA has been in business since 2010. In that time, we've had hundreds of clients and won hundreds of grants. A rundown of some past clients is listed on our website at www.grantmanagementassoc.com/clients and a listing of successful grants can be seen at <https://www.grantmanagementassoc.com/previously-awarded-grants>.

Following are a handful of successful grants that seem to align with your district's goals and needs. Others are listed earlier in this proposal.

Thermalito Water and Sewer District

East Trunk Line | State Water Resource Control Board – SRF Loan Program

\$2,700,000

Mendocino County - 2016

Groundwater Planning and Project Implementation

\$2,000,000 (Proposition 1)

California EPA - State Water Resources Control Board

Proposition 84 Stormwater Grant Program - Round 2

\$648,284

US Fish and Wildlife Service

Non-native Removal at Big Creek Ecological Reserve

\$25,000

US Fish and Wildlife Service

Non-native removal on Deer Creek in Tehama County, CA

\$25,000

State Parks Department

Arundo [giant cane plant pest] removal and GIS mapping

\$32,000

Butte County Resource Conservation District

Watershed coordination on Big Chico and Little Chico Creeks

\$68,640

Lindo Channel Monitoring Program

Lindo Channel Monitoring Program - Team Arundo del Norte

\$75,000

Tehama County Resource Conservation District

Subcontract with Tehama County RCD

\$85,000

Deer Creek Roads Survey

Deer Creek Roads Survey

\$175,000

California Watershed Funding Database

California Watershed Funding Database - Developed prototype and conducted training

\$211,000

State Water Resources Control Board - Subcontract

Joint program with the Big Chico Creek Watershed Alliance

\$450,000

City of Chico subcontract to conduct restoration work

Verbena Fields and Bidwell Avenue Restoration

\$498,000

Red Bank and Reeds Creek Watershed Projects

Permit coordination and over-all project administration

\$540,000

Iron Canyon Fish Ladder

Iron Canyon Fish Ladder - Phase 1 of multi-phase project: Permits and pre-construction

\$599,821

Deer Creek 204 Project

Included permit coordination and overall project management

\$600,000

US Fish and Wildlife Service

Iron Canyon Fish Ladder

\$630,000

Resources Legacy Fund

Funding for land acquisition and watershed outreach

\$650,000

Brickyard Creek Watershed Project

Brickyard Creek Watershed Project- Phase 1 and Phase 2

\$659,000

CALFED Ecosystem Roundtable

Sacramento River Conservation Area Working Landscapes Grant

\$671,000

Sierra Nevada Conservancy

Iron Canyon Fish Passage Construction

\$1,000,000

State Water Resources Control Board

Big Chico Creek and Lindo Channel Floodplain, Wetland and Riparian restoration

\$1,300,000

CALFED

Sacramento River Monitoring Program

\$1,400,000

Availability to proceed with work, tentative schedule

Grant Management Associates will be ready to proceed with work on or about Sept. 3, 2018, as requested.

Following is a tentative schedule for completing the grant availability research, grant applications and deliverables, subject to the district's approval:

Initial review of district projects for grant opportunities. Meet with district in person, visit project sites. Date completed: first quarter.

Develop Grant Funding Matrix. Date completed: first quarter.

Develop initial grant applications. Date completed: second quarter through fourth quarter.

Acceptance of terms and conditions

GMA has thoroughly reviewed the terms and conditions of this contract under Section D, "District's Professional Services Agreement." GMA accepts the Terms and Conditions as stated with one exception: Under No. 5, "Invoicing and Payment," we require payment within 45 days of invoice.

Insurance

GMA agrees to comply with all insurance as described in the Beaumont-Cherry Valley Water District Insurance Requirements including general liability, automobile liability and professional liability. Worker's compensation insurance is not required, as GMA does not have employees as defined by the Labor Code of the State of California.



Noble Creek Recharge Facility



Proposal to Provide
Grant Writing Consulting Services
July 31, 2018

Submitted by:



In Association With:



John Robinson Consulting, Inc.
1055 E. Colorado Blvd.
Suite 500
Pasadena, CA 91106
(626) 375-9389



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A. EXECUTIVE SUMMARY LETTER

July 31, 2018

Ms. Yolanda Rodriguez, Director of Finance and Administrative Services
Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92333

Re: Proposal for Grant Writing Services

Dear Ms. Rodriguez:

John Robinson Consulting, Inc. (JRC) and EW Consulting, Inc. welcome the opportunity to submit this proposal to provide grant writing consulting services for the Beaumont-Cherry Valley Water District (BCVWD). Our goal is to bring in the maximum available grant funding to BCVWD. Having secured close to \$182 million in less than twelve years specifically for water (potable, recycled water, groundwater and storm water) projects, we bring an unmatched experience and project team to assist BCVWD with grant identification and application processes to ensure an expedited and successful funding awards.

What sets the JRC team apart, is that we are not only a grant writing services firm but are also planning and design engineers who have technical and funding expertise that have gained deep rooted relationships with funding agencies and regulatory agencies. As such, we are aware of upcoming funding and have been achieving success on grant awards by strategizing timely submittal of our applications on behalf of our clients.

Based on our initial analysis of BCVWD's 10-Year Capital Improvement Plan (CIP) posted on February 2018, we have identified grant funding for the following types of projects:

- Recycling and Non-Potable Projects: Up to \$2.5 million
- Water Conservation and Watershed Restoration System: Up to \$4 million
- Infrastructure Development Projects: Up to \$4 million
- Geographic Information System projects: Up to \$4 million
- Storm Water Capture Projects: Up to \$3 million
Up to \$17.5 million

As it is demonstrated in our proposal, we have a proven track record in the successful award of grants for above types of projects and we would like to utilize our expertise to gain funding for the BCVWD.

John Robinson founded the firm based on his successful experience with obtaining 50% or greater of funding for agencies for recycled water projects. JRC has expanded our grant experience into domestic water, groundwater, conservation and storm water projects. The JRC team can secure the maximum grant funding possible, meeting the various funding agency requirements, and serving as examples for successful audit processes.





As a result, JRC has earned a reputation that gained the firm our impressive repeat-client list in just a few years. JRC is certified as a Small Business Enterprise (SBE) with the Metropolitan Water District of Southern California. EWC is certified as a Small and Women Business Enterprise in the State of California.

JRC's recycled water experience with clients, funding agencies and regulatory agencies is unmatched in Southern California. We have established relationships with funding agencies including but not limited to:

- California Energy Commission
- California Department of Water Resources
- California Public Utilities Commission
- FEMA/Cal Office of Emergency Service Pre-Disaster Mitigation and Hazard Mitigation Planning
- Metropolitan Water District of Southern California
- State Water Resources Control Board - Division of Financial Assistance
- US Environmental Protection Agency
- US Bureau of Reclamation

We will leverage our knowledge to identify grants, work with BCVWD staff to secure those grants, and finally administer the funding. Effective, full-circle strategies like this are key to obtaining the largest possible grant award funding for BCVWD projects.

As a grant and design consultant with more than 25 years of municipal engineering, John has been responsible for budgeting and management of a \$120 million recycled water program that received \$80 million from the CA State Water Resources Control Board, water enterprises, Capital Improvement Programs, fund administration and formation of diverse types of assessment Districts.

John will serve as the BCVWD's program manager for this contract, and as the Principal of JRC, he is fully authorized to legally bind JRC in agreements with the BCVWD.

The undersigned agrees to perform the grant writing services specified at a total cost not to exceed the prices indicated in the sealed envelope. The cost proposal will remain valid for a period of at least 90 days. The JRC team confirms our willingness to comply with all the terms and conditions set forth in the solicitation, accept the terms of the agreement and state that there are no exceptions noted.

The JRC team looks forward to working with you and the BCVWD staff to develop a work plan that identifies grants that meet the BCVWD's short-term and long-term needs for funding projects. If you have any questions about our proposal, please do not hesitate to call.

Sincerely,

John Robinson Consulting, Inc.


John Robinson, Principal



SECTION 1.0 - COMPANY QUALIFICATIONS SECTION

SECTION 1.1 - COMPANY QUALIFICATIONS

Our Clients

Served as prime or sub-consultant

- Central Basin MWD
- City of Monterey Park
- City of San Fernando
- City of San Juan Capistrano
- Coachella Valley WD
- Crescenta Valley Water District
- Foothill MWD
- La Puente Valley County Water District
- Long Beach WD
- Rowland WD
- San Gabriel Valley MWD
- Six Basins Watermaster
- Three Valley MWD
- Walnut Valley WD
- West Basin MWD

John Robinson Consulting, Inc. (JRC) was founded by John Robinson, who has been a grant and engineering consultant with 25 years of experience in managing CIP, Water and Sewer programs of over \$25 million. He founded JRC in 2013 with the goal of assisting small local entities in achieving their goals in funding and compliance, program management, quality assurance/quality control, and project delivery.

John Robinson, founded the firm based on his successful experience with special agencies where he worked on securing the maximum grant funding possible in concert with the preliminary design efforts, meeting the various funding agency requirements, and serving as examples for successful audit processes. As a result, he has earned a reputation that gained us our impressive repeat client list in just a few years. Included below are a few examples:

- Successful award of Proposition 84 grants in all four cycles which included recycled water projects, groundwater cleanup project in conjunction with USEPA storm water projects.***
- The fund-request package for \$4 million to the USBR was approved in record time and with no comments***
- Provided a funding strategy for Six Basin Watermaster that could result in Proposition 1 Groundwater Grant Program funding of \$20 million.***
- Review of projects for the City of San Fernando, led to identification of over \$10 million in grant funding in water, potentially recycled water and GIS projects***
- Successful award of \$0.5M in water conservation funding in 2016 for West Basin MWD.***





PROPOSAL FOR GRANT WRITING CONSULTING SERVICES

JRC is is thoroughly familiar with the intricate details of various funding requirements and excels at strategic planning for its clients to maximize the potential for securing grants, successful management for meeting the requirements, obtaining proper authorization and reimbursements and positive audit process of the projects. JRC is certified as a Small Business Enterprise (SBE) via Metropolitan Water District of Southern California and its office is located in Pasadena which is 75 miles from Beaumont-Cherry Valley Water District's office.

ESS has secured close to \$182 million for various agencies in the past 12 years.

John Robinson Consulting, Inc. is a firm that fully understands the inner workings of the regional and municipal government process. Our founder has been working with special districts, municipalities and cities his entire career, we have been confronted with many of the same design, budget, schedule and project delivery challenges that face our clients and understand how to plan for such issues.

This intimate understanding allows our firm **to think like public agencies** and address the challenges they are facing with proactive, well-planned, cost-efficient, and innovative solutions tailored to your needs. This allows us to approach every project strategically and scale our resources to fit the agency and scope of work.

JRC specializes in various water specific funding resources, such as:

- CA Department of Water Resources Control Board for Proposition 1 Storm Water and Green Project Reserve (GPR);
- FEMA/Cal Office of Emergency Service Pre-Disaster Mitigation and Hazard Mitigation Planning;
- State Water Resources Control Board Division of Financial Assistance Proposition 84, Proposition 1, Clean Water State Revolving Funding, and Drinking Water State Revolving Funding;
- US Bureau of Reclamation Title XVI and WaterSMART funding opportunities;
- US EPA Water Infrastructure Finance and Innovation Act (WIFIA); and
- Numerous other grants from public agencies.

We are committed to being accountable and sharing ownership of the product and service. We believe that successful grant projects are a result of a well-managed and motivated team. Our team members possess a proven ability to establish best practices, maintain continuity and flexibility, deliver timely response, and offer accessibility to a network of experts to address unique needs.

We believe in doing the job right the first time. Our commitment to providing excellent customer service



PROPOSAL FOR GRANT WRITING CONSULTING SERVICES

has gained us repeated clients and contracts. We understand the challenges and requirements of municipal governments since we have been working with them for over 25 years and our subconsultant staff have held senior and executive management positions with some local special districts. This background and experience is important because document preparation will require a high level of interaction with the state project managers.

Grant Program not Grant Project. We view grants as an integral part of any Capital Improvement Plan for our clients and encourage that grant pursuit to be planned and executed versus a reactionary response due to a new grant solicitation or due to internal pressures.

Throughout our proposal we demonstrate that the JRC team is the right team to provide the consulting services for identifying and securing grants, finalizing agreements and monitoring funding compliance. We have structured this proposal in full compliance with your RFP requirements to facilitate your review.

We strive to *exceed*
expectations, not just
meet them

Our intention is to work as a partner to the BCVWD, incorporating grant funding conversations in the process of each project, as early as possible, in order to maximize the potential for planning grant funding as well as implementation grand funding. Proprietary tools, such as our Work Plan Structure (WPS), in conjunction with our team's extensive experience and relationships with funding agencies, make this process easy for our JRC Team to coordinate with BCVWD's Project Management Team.

EW CONSULTING, INC. – COMPANY QUALIFICATIONS

EW Consulting, Inc (EWC) is a Corporation founded in 2011 that provides a full-range of multi-disciplinary engineering and planning for conceptual planning, program management, preliminary and final design support services, as well as construction management, environmental, grant writing and management, and public outreach activities. EWC is a woman-owned engineering firm which was founded in 2011 by Eliza Jane Whitman. Eliza Jane is a professional licensed civil engineer in the state of California with over 28 years of experience working in the industry. Her diversified experience is in both the private and public sectors which ranges from planning, design, construction management and program management specializing in public works. Her background and expertise in management of complex, multi-layered projects and is able to bring a "global" perspective to the project team and enhance project delivery to the key stakeholders.

EWC is recognized in Southern California for providing quality engineering, planning, community engagement, and management solutions in the areas of public works, sustainability & resiliency, and transportation planning. EWC has innovative, well-seasoned professionals who are experts in the areas of staff augmentation for public works, water authorities, municipalities, water districts, joint power authorities, and has developed strong relationships with local, state and federal jurisdictions over the last several decades.



- The EWC personnel have both written and managed grants for the following: SWRCB; SCE; SCG; DOE; DOD; CEC; MWD; EPA; DWR; BOR; and California’s Strategic Growth Council .
- EWC just completed a Grant Funding inter-agency and multi-participant approach for the City of LA that included a cost sharing tool that evaluated expenditures based on benefits.
- EWC's innovative and diverse team are well-seasoned and have encountered numerous types of situations and provided solutions over the years. EWC is committed to excellence from the conceptual planning stage all the way through to the completion of construction.
- Because of the depth of our expertise and knowledge gained working side-by-side with local agency staff, non-profits, and stakeholders, EWC continues to strengthen our relationships with community and business members. EWC has effectively partnered with state and federal regulatory agencies to deliver successful projects, well-managed budgets and superior services to thoroughly satisfied stakeholders and clients.

SECTION 1.2 – METHODOLOGY AND APPROACH

Methodology and Approach

JRC understands that the planned capital improvement plan (CIP) for BCVWD’s water system encompass a wide range of projects. BCVWD has been proactively replacing aging infrastructure in order to maintain below industry standard water main brakes. BCVWD has been leading the conservation efforts by expansion of recycled water system and investing in alternative technologies to provide water resources.

JRC team has performed a review of BCVWD 10-Year CIP budget. The following highlight the potential grant funding we have identified for the BCVWD based on our early analysis of the budgets:

BCVWD Project Types

Available Grant Funding

• Recycling and Non-Potable Projects:	Up to \$2.5 million
• Water Conservation and Watershed Restoration System:	Up to \$4 million
• Infrastructure Development Projects:	Up to \$4 million
• Geographic Information System projects:	Up to \$4 million
• Storm Water Capture Projects:	Up to \$3 million
	Up to \$17.5 million

We have also identified the following potential sources of funding for the Recycled/Non-Potable Water Project:

- State Water Resources Control Board – Clean Water SRF
- State Water Resources Control Board – Proposition 1 Planning funding
- USBR Title XVI – Planning and Design





PROPOSAL FOR GRANT WRITING CONSULTING SERVICES

In our meetings with the BCVWD project management team, we will be able to learn more about the projects, develop a planning spreadsheet and make recommendations for specific funding.

Based on our experience, we will also be able to offer cost saving measures such as multi-year grants on a program level in lieu of individual projects that will reduce the regulatory burden of managing various funding agreement and the cost of preparation of applications and compliance monitoring.

The JRC team has a proven track record in obtaining similar funding for several agencies and we are excited to be able to assist BCVWD secure the available funding for its projects.

Our technical team has years of experience in grant/loan identification and assistance, project management, PLA/CCP compliance, pipeline and pump station design, water resources systems (water and wastewater) planning, Title 22 permitting, groundwater treatment design and permitting, recycled water permitting (General Permit, NPDES permit, WDR/WRR permit), well design and rehabilitation, AWT design, recycled water regulations, recycled water customer conversions and construction administration and management throughout Southern California. This experience with water system planning, management, and permitting helps ensure our deep understanding of how funding sources and needs match.

Task 1. Review BCVWD's Projects for Grant Opportunities:

Once a Notice to Proceed has been identified, John Robinson will obtain the current and planned project list from the BCVWD Project Manager. The JRC team will review the projects, match projects to potential available funding, and establish recommended priorities. With our thorough knowledge of available and historical funding opportunities and our technical expertise in managing similar programs, we will be able to recommend a strategy and ranking of projects for funding pursuits. Our work product will represent something similar to the table on the following page.

Deliverable(s):

Recommended funding opportunity list matched to the current and planned BCVWD projects.



PROPOSAL FOR GRANT WRITING CONSULTING SERVICES

Table 1
Summary of Grant and Low-Interest Loan Opportunities for Strategic Plan Implementation
 as of July 25, 2018

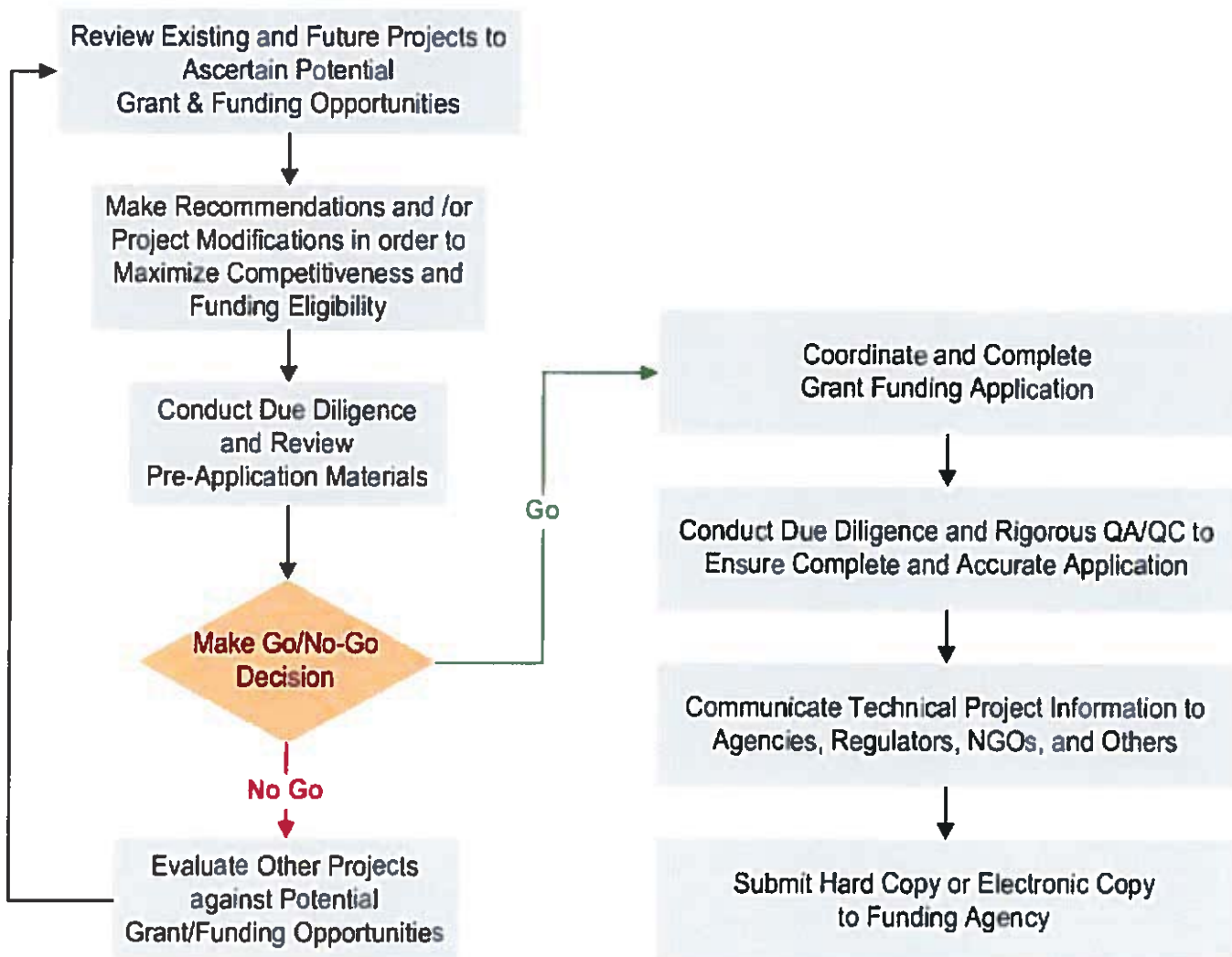
Program/Grants	Funding Available	Eligible Projects	Status	Schedule	Potential Qualifying Strategic Plan Project	Online Resources
1 State Water Resources Control Board (SWRCB) Groundwater Grant Program (OWGP) (Proposition 1)	<ul style="list-style-type: none"> o \$673 million (remaining) o Funding for Planning Projects is up to \$1 million o Funding for Implementation Project is equal to or greater than \$500,000 o Requires 50 percent matching funds 	<ul style="list-style-type: none"> a) Assessment of threat posed by groundwater contamination to drinking water supply b) Potential for groundwater contamination to spread/impair local water supply reliability c) Potential of project to recharge vulnerable, high-use basins d) Potential of project to recharge vulnerable, high-use basins e) Projects with no viable responsible party 	Solicitation Round 2 is out.	Solicitation Round 2: "Concept Proposal" is open and due August 3rd.	Increase Groundwater Production and Treatment Capacity at Reservoir 5 Treatment Facility	http://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/groundwater_supply_reliability.html
2 SWRCB Stormwater (Proposition 1)	<ul style="list-style-type: none"> o \$177 million (remaining) o Funding for Planning Projects is up to \$500,000 o Funding for Implementation Project is between \$250,000 and \$10 million o Requires 50 percent matching funds 	This program is open for multi benefit storm water projects that respond to climate change, contribute to regional water security, and contain a minimum of two benefits. The benefits include but are not limited to: water supply reliability, decreased flood risk, environmental and habitat protection and improvement, and community benefits.	Round 1 Closed Round 2 Pending	Solicitation Round 2 expected in late 2018 or early 2019	Enhance Stormwater Recharge at the Pedley Spreading Grounds Recharge Stormwater and Supplemental Water at the LA County Fairplex	http://www.waterboards.ca.gov/water_issues/programs/grants_loans/5swrsg/prop1/
3 Integrated Regional Water Management (IRWM) Grant Program (Proposition 1)	\$367 million for implementation grants	Projects must be included in an IRWM Plan or vetted through an IRWM. Eligible projects include: water reuse and recycling for non-potable and direct and indirect potable reuse, water use efficiency and water conservation, local and regional surface and underground water storage, regional water conveyance facilities that improve integration of separate water systems, watershed protection, vegetation and management projects, stormwater resource management, conjunctive use of surface and groundwater storage facilities, water desalination projects, improvement of water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, and regional projects or programs as defined by the IRWM Planning Act.	Pending	Draft Proposed Solicitation Package expected in September 2018	Enhance Stormwater Recharge through MS-4 Compliance this funding program. All Strategic Plan projects have been submitted to the Greater Los Angeles County IRWM.	https://www.grants.gov/web/grants/forms/424.html
4 USBR Title XVI Grants	<ul style="list-style-type: none"> o Funding of up to \$150,000 for feasibility studies to be completed within 18 months - requires 50 percent matching funds o Funding of up to \$450,000 for feasibility studies to be completed within three years - requires 75 percent matching funds o Funding of up to \$4,000,000 (typically) for planning, design and construction projects - requires 75 percent matching funds o Total funding is \$18 million 	Projects must be water reclamation and reuse projects that reclaim and reuse municipal, industrial, domestic or agricultural wastewater or naturally impaired groundwater and/or surface water including ocean or brackish water desalination. Funding available for (i) feasibility studies, (ii) implementation projects that have completed a Water Reclamation and Reuse Program Title XVI feasibility study, and (iii) water reuse research.	Active	BOR-DO-18-F011 applications due July 27, 2018	Enhance Supplemental-water Recharge at the SA SG (recycled water) Recharge Stormwater and Supplemental Water at the LA County Fairplex (recycled water)	https://www.usbr.gov/watersmart/units/fund.html
5 USBR Desalination Construction Projects Grants under the WRR Act		The Desalination Construction Projects under the WRR Act funding opportunity provides sponsors of ocean and brackish water desalination project the opportunity to request cost-shared funding for the planning, design and/or construction of those projects. Have a completed feasibility study that has been reviewed by Reclamation and found to meet all of the requirements of Reclamation's Directives and Standards WTR 11-01, Title XVI Water Reclamation and Reuse Program Feasibility Study Review Process, at www.usbr.gov/reclam/wtr/wtr11-01.pdf . If the Project is not part of a feasibility study previously determined by Reclamation to meet the requirements of WTR 11-01, then a feasibility study must be submitted for Reclamation review by July 27, 2018 (the application deadline for this FOA)	Active	BOR-DO-18-F012 applications due July 27, 2018	None	https://www.usbr.gov/wtr/wtr11-01-search.html https://www.usbr.gov/wtr/wtr11-01-search.html





Task 2. Grant Funding Research:

The complex and elaborate process of obtaining funding can delay BCVWD's ability to take action. Our comprehensive knowledge of the funding process helps us to conceptualize and develop an appropriate action plan, maximizing success. We will identify eligibility requirements, likely availability of funding, terms, conditions, and other key parameters. Our step-by-step process to a successful application is shown in the following flow chart:





i. Identification of Appropriate BCVWD Projects for Funding

Once a Notice to Proceed has been identified, John Robinson will arrange a kick-off meeting with the BCVWD staff, and JRC team. As Project Manager/ Coordinator and a point of contact for this contract, John will assign scope of services as needed to best meet the grant application deadlines.

The JRC team, has been responsible for budgeting, scheduling and implementation of annual funds and projects for water and other programs in the agencies they have served. Working with the BCVWD Project Manager, we will review and discuss current status of projects, available funding, established priorities, project planning and design status, management preferences and regulatory requirements. With our thorough knowledge of available and historical funding opportunities and our technical expertise in managing similar programs, we will be able to recommend a strategy and ranking of projects for funding pursuits.

- Review of City of San Fernando's bond options and developing a funding strategy resulted in savings of more than \$6 million for the City. In addition, analysis of the City 's CIP program and the unfunded list of projects resulted in identification of more than \$7.5 million in grant funding and \$20 million in SRF funding.
- Working with the Long Beach Water District, we recommended a strategy that resulted in submittal of an additional successful grant application for the same project, almost doubling the amount of funding the County was expecting to receive.

Deliverable(s):

- Kickoff Meeting – Agenda and Notes
- Recommendation for Project Priority List with financial breakdown & timeline with pertinent information for funding pursuits

ii. Identification of Grant Resources

As the WaterReuse California Board of Director representing the Inland Empire Chapter, John Robinson, has been providing the available grants to its members on regular basis and will continue to provide this information to BCVWD as well.


JRC team members keep up to date with the available Federal- and State-level funding alternatives for water and storm water projects. We have developed relationships with various agencies, attend various funding fairs (California Financing Coordinating Committee 2018 Funding Fair is scheduled for August 30th), participate in providing input to guidelines for funding opportunities, and are subscribed to receive notices on available funding. JRC subscribes to foundation grant resources and will use this service to identify funding opportunities for the BCVWD. We will also use our extensive experience to match BCVWD's projects with the available funding options.

We will develop a matrix of all potential funding alternatives that will serve as a tool for the project team and the BCVWD staff to use. This matrix will be updated monthly as part of our regular reporting.



PROPOSAL FOR GRANT WRITING CONSULTING SERVICES

Below is latest grant summary update for the WaterReuse Association – Inland Empire Chapter:

 Local, State and Federal Funding Opportunities							
PROGRAM	Total allocation	Funding available this Round	Purpose	Eligible Projects	Status	Anticipated Timeline	Notes
SWRCB Stormwater Implementation Grants (Proposition 1)	\$200M	\$80M	Multi-benefit SW projects that are respond to climate change and are included in an adopted SW Resource Plan or IRWMP facilities	Implementation projects including but not limited to: <ul style="list-style-type: none"> • Green infrastructure • SW capture • SW treatment 	Round 1 SOLICITATION OPEN	TBD 2018: Round 2 solicitations for implementation grants	<ul style="list-style-type: none"> • Planning grant solicitation closed in March (\$20M) • One more round of implementation grants anticipated for FY 16/17 (\$100M)
DWR Water Use Efficiency CalConserve Revolving Fund (Proposition 1)	\$10M	\$10M	Sustainable funding source for urban water use efficiency projects.	Projects including but not limited to: <ul style="list-style-type: none"> • Dish/clothes washer upgrades • Water-saving plumbing fixtures • Hot-water recirculating pumps • Leak detection & repair • Landscape irrigation upgrades • Commercial, institutional, and industrial 	Solicitation opening soon	Summer 2017: Loan applications due	Funding will be split: <ul style="list-style-type: none"> • \$5M for loans to local agencies for water efficiency upgrades • \$5M for loans to customers for onsite projects or leak repairs
DWR IRWM Implementation Grants (Proposition 1)	\$418M statewide \$98M for LA Region	TBD	Projects and programs that support IRWM.	<ul style="list-style-type: none"> • Water reuse & recycling • Water conservation • Surface storage/GW recharge • Conjunctive use • Water conveyance • Watershed restoration/protection • SW resource management 	In development	TBD: Round 1 solicitation for implementation grants	<ul style="list-style-type: none"> • Public comment period ended April 8, 2016



JRC team members have extensive experience and have worked on a number of grants funded by the agencies noted above. We will evaluate the projects, review eligibility and potential project ranking, and provide recommendations to the BCVWD Project Manager, so that all relevant information is easily available to choose which grants to pursue.

- Our analysis of the unfunded plans of a project for the Crescenta Valley Water District allowed us to recommend alternative grant opportunities that resulted in submittal of two additional successful grant applications, with \$5.1 million awarded.
- Review of West Basin MWD's CIP program and unfunded list of projects, resulted in identification of two conservation grant programs for WBMWD for up to \$1.5 million in funding.

Deliverable(s):

- Funding Matrix identifying all available funding for the Project Priority List
- Updated Funding Matrix on monthly basis or as directed by the BCVWD

Task 3- On-Call Grant Research

The JRC Team has flexibility with all clients especially with grant identification and execution. John Robinson will work with the BCVWD Project Manager when other areas (i.e. projects) are identified through the Funding needs analysis process. We believe regular communication would eliminate surprises but organizations listed above have developed opportunities that BCVWD should consider for future funding.

Deliverable(s):

- Updated Funding Matrix on an as needed basis due to a new area (i.e. project) identification.

Task 4- Grant Proposal Development

Guideline Development and Requirements

Once a funding source and a pursuit have been identified, JRC will arrange for a meeting and will come prepared with a Work Plan/Breakdown Structure (WPS), which is a matrix of the fund parameters. JRC prepares a WPS for all funding pursuits based on the detailed analysis of the Notice of Funding Opportunity (NOFO) which is a Funding Opportunity Announcement for USBR and Proposed Solicitation Package for SWRCB. The WPS identifies detailed grant fund requirements, populating the WPS will help identify the necessary documents and resources and areas of responsibilities between team members and proposed internal deadlines.

The WPS will also serve as a tool for both BCVWD and JRC team members to track the project progress and alignment with the funding. When developing the WPS, JRC will also note the implementation constraints that may have an impact on selection of the project elements. For example, most funding

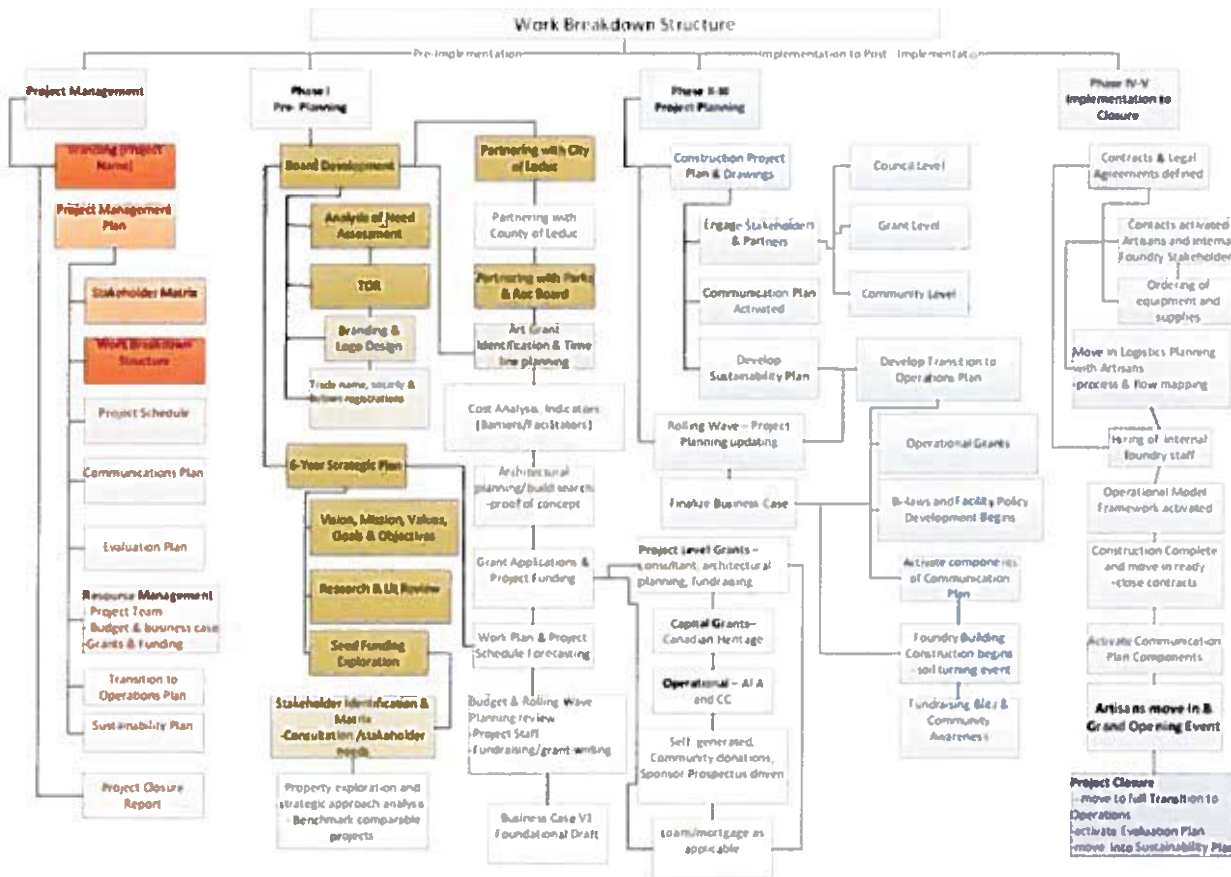


sources require that a grant agreement be in place prior to the start of construction. JRC will work with the BCVWD Project Manager to identify solutions and/or assist with reprioritization of the grant applications to meet the requirements. Topics commonly found in the WPS include:

- Eligibility criteria
- Resolutions and approval letters required from BCVWD's Board of Directors
- Matching funds
- Budget needs
- Technical reports: Benefit Cost Analysis, Environmental Reports, Life Cycle Analysis Project readiness: CEQA status, Feasibility studies, Project design reports
- Maps and pictures
- Project programming requirements
- Support documentations: certifications, forms, project reports
- Evaluation criteria and Submittal requirements
- BCVWD's prior grant management record

Deliverable(s):

- Work Plan/Breakdown Structure for the identified grant pursuit, such as the example below:





Targeted Approach for Maximum Scoring on Evaluation Criteria

The first step for our targeted funding identification approach specific to BCVWD proposed projects is to develop a full understanding of the project elements, project milestones, and available project reports. We will also study the previously awarded projects from the funding agency and learn about the key points that may be overlooked for their simplicity.

When developing the WPS, we will identify the primary and secondary evaluation criteria to help highlight the project strengths. We will also work closely with the BCVWD's Project Manager to identify the potential gaps, analyze alternatives, and recommend resolutions to minimize their impact.

By using this approach, JRC has added value for our clients:

- JRC recommended re-strategizing of funding pursuits for three projects for Upper San Gabriel Valley Municipal Water District resulted in awarding of a \$27.3M grants
- Review of Crescenta Valley Water District project, resulted in changing the scope of work and a successful award of more than \$700,000.
- Detailed evaluation of the grants has enabled us to advise the agencies if the project is not competitive and therefore resulted in cost savings by not preparing grant applications.

In one example of a successful groundwater project, the technical application for the \$8.3 million project received **no comments** and was approved in **record time**.

Quantitative Analysis and Technical Reports

Depending on the grant requirements, the JRC team will work with the BCVWD Project Manager to receive the pertinent technical data. We will then use our highly experienced team members to complete the technical write-up sections of the grants.

As needed, and upon BCVWD's direction, we will be prepared to either perform additional technical research and analysis or supplement the effort.

The JRC engineering team has been directly responsible for implementation of water and sewer projects and will use their expertise to articulate the technical information of the grants.

WRITING-TO-WIN Approach

What sets us apart is that our grant writers are technical experts in this industry and therefore have the ability to convey complex project information into the specific format of a grant application. Using a targeted approach to analyze objectives and match goals to opportunities provides us with the details we need for our writing-to-win approach. Once a funding strategy is in place, the next challenge is to create a winning application. The JRC team brings its proven track record in creating an application package that will stand out among dozens, highlighting the project's merit in full compliance with the instructions and limitations.

This approach uses a high degree of expertise and creativity. JRC understands that impactful illustrations transform well-researched information into powerful persuasion. JRC has used the clarity of graphics and schematic drawings to show grant evaluators the client agency's expertise and vision:



- For a Department of Water Resources grant, JRC provided pictorial highlights of the project's energy-efficiency benefits addressing the objectives of the grant.
- For a cap-and-trade grant to reduce GHG emissions, JRC replaced the executive summary with graphics highlighting projects matching the grant focus which provided additional information regarding Key Project Indicators and Return on Investments. This information allowed the project to be awarded resulted in an award of more than \$9 million.

BUDGET ANALYSIS AND CONSTRUCTION PLANNING

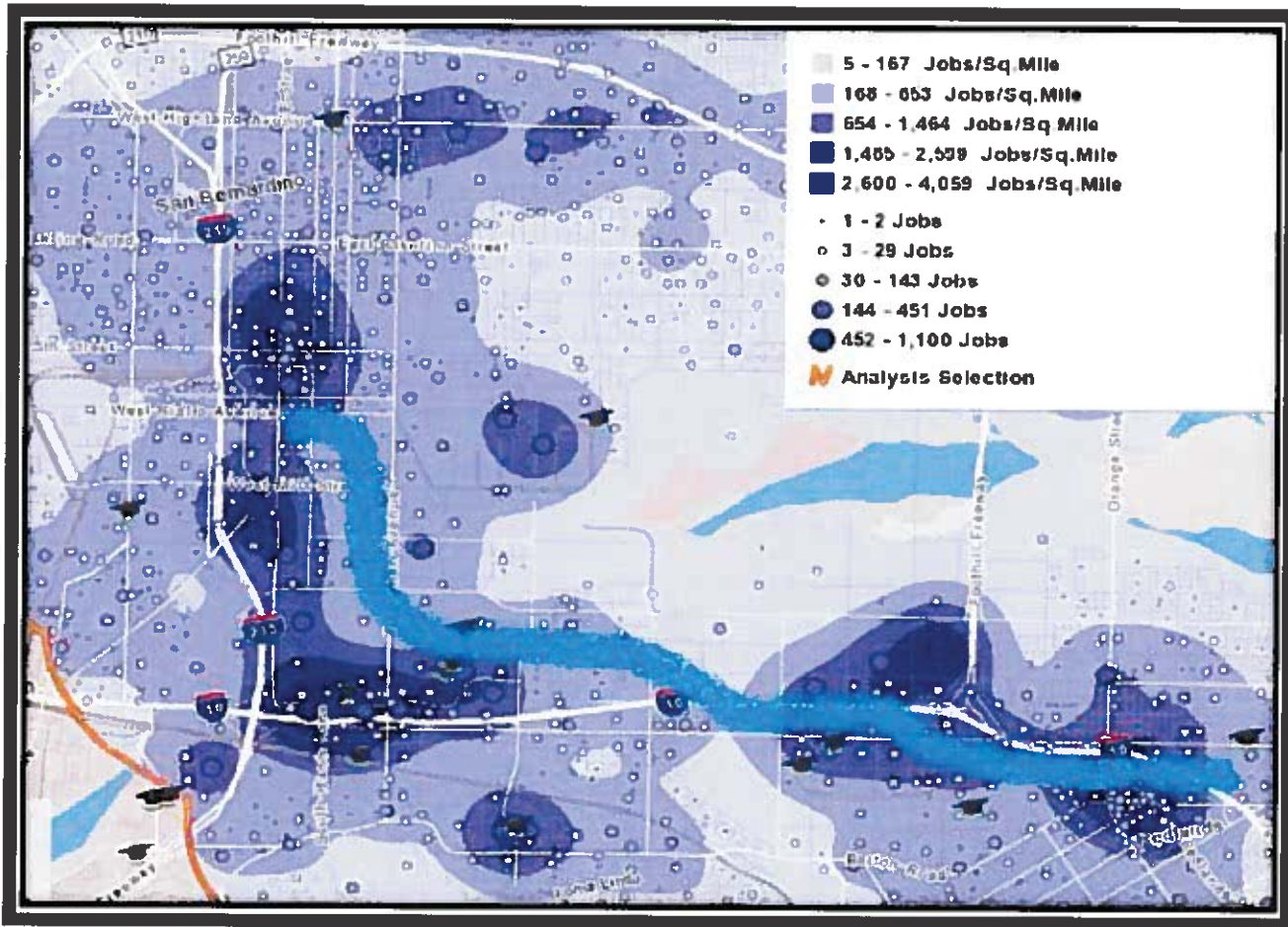
The JRC team will assist the BCVWD in identifying qualifying information to meet grant requirements for budgeting and construction planning. Budgets demonstrate project flexibility and budget scalability to make the grant applications more attractive **and create opportunities to apply again even after a successful application's award**. Some areas of focus will include:

- Qualifying matching funds
- Budget scalability
- Scheduling details
- Implementation requirements for allocation purposes

Disadvantaged Communities (DAC)

Many funding opportunities allocate a certain percentage of the funding to projects benefiting disadvantaged communities and therefore, it is imperative that the need and applicability is effectively demonstrated. For example, WaterSMART grants funded by Bureau of Reclamation have historically allocated about 75% of the funding to benefit the disadvantaged communities. Claiming benefits to disadvantaged communities requires documentation and substantiation of meaningful benefits, as well as explanation of the methodology used for assuring accomplishment of those benefits. SB 535 directs the Secretary for Environmental Protection at California Environmental Protection Agency (CalEPA) to identify disadvantaged communities. This identification must be based on geographic, socioeconomic, public health, and environmental hazard criteria (Health and Safety Code Section 37911). CalEPA has identified disadvantaged communities for investment based on a tool called CalEnviro Screen 2.0. The JRC team has experience in working in DAC, such as the Greening Plan for the cities of Inglewood and Lennox and current grant identification for the cities of Pomona and San Fernando

JRC is acutely familiar with researching geographic equity and the degree to which disadvantaged communities would benefit from a project. A successful application for San Bernardino County Transportation Authority demonstrated 41 DACs in the area. The JRC Team is thoroughly familiar with retrieving and analyzing the required information to meet the grant guidelines.



Demonstration of low-earning jobs in the San Bernardino County for the successful grant award of \$9.2 million in 2016

Support Letters

Often, this aspect of a grant application is given only cursory attention and proves to be invaluable. At JRC, these potentially undervalued areas are key endorsements that JRC crafts in close cooperation with clients and technical experts. The JRC team will draft focus points of the grants so that support letters send a strong, targeted, pertinent message.

iv. Grant Application Review and Approval Process

Eliza Jane Whitman will serve as the Quality Assurance/Quality Control (QA/QC) manager, which is an important factor of a successful grant application. We will use our internal grant checklist and the WPS to ensure the application package is ready for submittal. This process will follow the WPS and an internal guide for editorial quality. In our experience, we will need two reviews from BCVWD Project Manager.

To ensure grant applications are completed as efficiently as possible, JRC will arrange a meeting with the



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BCVWD Project Manager is to review an early draft of the grant application package, to answer questions, finalize budget, and confirm project schedule in order to confirm the grant goals and objectives aligns with the project. All final grant application packages will be submitted to the BCVWD for review and approval prior to submittal to the granting agency.

Deliverable(s):

- Draft grant application package for review
- Final grant application package for submittal
- Status report on grant applications submitted

Technology:

Many agencies have online grant submittal and management tools, including the DWR Bond Management System (BMS), California DWR's Grants Review and Tracking System (GRanTS), the State Water Resources Control Board's Financial Assistance Application Submittal Tool (FAAST), and the federal government's www.grants.gov website. Our Project Team is adept at navigating and utilizing these tools.



Furthermore, our Project Team routinely performs grant management and administration services for funding by DWR, MWD, SWRCB, USBR, USEPA and others. Specific activities associated with this type of work includes quarterly progress reporting and invoicing, coordination with diverse project proponents and projects, management of grant deliverables and submittals, as well as overall coordination with project proponents and the funding agency.

Accountability

Simply put, we take ownership of our work. The JRC team is built on the principles of performing high quality work where the Principals are directly involved and accountable for the projects we submit. Taken together, with transparency and cooperation between JRC and our clients, this overall approach to grant-writing contract projects have helped ensure our clients' success.

v. Cultivating partnerships with other organizations

The JRC team has the depth of experience in leading and providing the support needed on multi-agency efforts. For example, the work completed for the City of Los Angeles involved collaborating with multiple agencies in the LA Basin which resulted in top management agreeing to work together and collaboratively. Lessons learned and best practices will be brought forward for this effort. It is known that funding agencies prefer to have collaboration when awarding funding.

John Robinson has been responsible for successful implementation of many recycled water projects in Southern California. As such he has led joint efforts between many water districts and beneficiaries. As



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an example, for the recycled water demonstration project, John managed the joint efforts as the Project Manager for the Foothill Municipal Water District. The Project required connection to an 18-inch sanitary sewer pipeline owned and operated by Los Angeles Sanitation District, while the treatment plant was planned to be placed at the La Canada United Methodist Church which discharged into a groundwater infiltration gallery underneath athletic fields at La Canada High School. DWR Proposition 84 Round 2 funding source for the Project.

Established Relationship with Funding Agencies

We understand that truly **successful grant funding consists of two-thirds planning and one-third writing**. With that in mind, we pride ourselves in our close relationships with funding agencies. Those relationships, plus appropriate and meticulous planning, allow us to obtain key information about the successful awarding of grant funds. One of the tactics used to ensure this strategy's success is to identify opportunities for in-person meetings with the funding agency when we are creating the WPS. We know this approach provides results from experience.

- When applying for a \$103 million EPA fund package, JRC facilitated a presentation to the State Water Resources board that included a professional video of the project site directly next to ocean bluffs. The technical report developed by JRC was confirmed without any revision, and the funding package was approved in record time.
- JRC was aware of the additional grant funding available to the State Water Resources Board and as such has aligned the submittal of its applications such that they will be well ahead of the competition and receive the due attention.

We have established relationships with funding agencies including but not limited to:

- California Energy Commission
- California Department of Water Resources
- California Public Utilities Commission
- Southern California Edison
- SoCal Gas (The Gas Company)
- FEMA/Cal Office of Emergency Service Pre-Disaster Mitigation and Hazard Mitigation Planning
- Metropolitan Water District of Southern California
- State Water Resources Control Board - Division of Financial Assistance
- US Environmental Protection Agency
- US Bureau of Reclamation



Task 5– Monthly Reports

The JRC Team will provide monthly reports to BCVWD summarizing the amount of time expended and the report will describe activities undertaken during the previous month. Typically, this monthly report accompanies and support the monthly invoice but can be submitted separately depending on the staff reporting deadlines to support the BCVWD's Board of Directors bi-monthly Board packages.

Deliverable(s):

- Updated Funding Matrix on an as needed basis due to a new area (i.e. project) identification.

Optional Task – Additional Services

JRC has extensive experience in managing and monitoring compliance with all the federal and state grant requirements. The expert monitoring of these requirement is a necessity for process of reimbursements from funding agencies. JRC will make sure that the projects are in full compliance with the grant requirements including: prepare progress reports, monitor project progress for funding purposes, monitor grant requirements such as American Iron and Steel provision, and labor compliance, facilitate meetings with project partners and funding agencies and Attend audit meeting

- JRC has been providing compliance-monitoring and reimbursement services for Upper San Gabriel Valley MWD's \$27.3 million recycled water project.
- JRC is providing compliance -monitoring and reimbursement services for the City of Monterey Park and Crescenta Valley Water District with both programs wrapping up in the 3rd quarter of 2018.
- JRC is the selected consultant for monitoring compliance in several government agencies including water and sewer projects.

In addition, the JRC team will be able to assist the BCVWD Project Manager with the requirements needed for advertising and the specification sections of the project to be in full compliance with the funding agency's requirements.



SECTION 2.0 – STATEMENT REGARDING JRC PROJECT TEAM

John Robinson will serve as the Program Manager and the point of contact with BCVWD. John Robinson will lead the efforts for identification of grants and completion of the grant applications. EW Consulting will provide technical support for grant preparation and quality assurance/quality control review of the grant applications.

Availability Chart	
Name & Designation	Availability starting on September 3, 2018
John Robinson, Project Manager	65%
Eliza Jane Whitman, PE, QA/QC	50%
Rebecca Drayse, Grant Preparer	60%



SECTION 3.0 – RESUMES FOR JRC PROJECT TEAM

John Robinson is the Principal of John Robinson Consulting, Inc. and is the proposed Project Manager for the project. His experience encompasses a local, State and Federal funding projects for a variety of wastewater recycled and reclamation water, groundwater and storm water projects. Over the last 25 years, Mr. Robinson has been heavily involved in assisting clients to coordinate, manage, and write different types grant applications to acquire funding to plan, design, and construct “water” project. John has an intimate understanding of bond laws, grant funding guidelines, and regulations, in addition to those agencies administering the programs.



EWC TEAM MEMBER BIOGRAPHIES:

Eliza Jane Whitman, P.E., LEED AP, ENV SP, has more than 28 years of engineering and management experience in all types of infrastructure, water, environmental, and energy issues world-wide. Her experience in infrastructure, water, and environmental work includes transportation, water and wastewater treatment, utilities, air emissions, and regulatory requirements. She has been involved in strategy development, technical advisory reviews, managing project and program planning and designs, construction and operations of major water and infrastructure projects for international, federal, state and local agencies and private utilities and developers in the United States, Europe and Asia. She has also managed several grant-funded projects for the SWRCB, DOE, CEC and CPUC for energy efficiency, renewables and distributed energy. Having worked for both public and private entities, she has the understanding and perspective from both sides and is able to comprehend quickly approaches to move projects forward.



Rebecca Drayse, ENV, SP has extensive experience working with diverse interests to find consensus-based, cost-effective solutions to urban environmental problems. Due to her reputation for identifying common interests and breaking through barriers to develop successful partnerships, she has built strong relationships with the region’s agency leaders and policymakers. She has played a leadership role in engaging stakeholders and achieving consensus in successful local planning efforts. Rebecca has directed strategy and message development for community engagement campaigns that have broadened participation from diverse stakeholders and achieved strong community and political support. She has a deep understanding of the political, institutional, jurisdictional, and financial challenges facing Southern California. Her experience includes creating strategy documents for overcoming regulatory barriers to implementing multi-benefit regional projects. Ms. Drayse has also helped secure grants and funding and managed the implementation of a number of high-profile demonstration projects for municipal clients.





John Robinson, Project Manager

John has more than 25 years of experience in engineering consulting, construction management, project leadership/project management, operational/fiscal management and market sector strategy development focused most recently on obtaining local, State and Federal grants and/or loans for public agencies and special districts.

He assisted in obtaining and managing the U.S. Bureau of Reclamation Title XVI funding, State Revolving Fund (SFR) Proposition 50, State Water Resources Control Board (SWRCB) Proposition 13, Department of Water Resources Proposition 84 Rounds 1-3, Metropolitan Water District of Southern California Local Resources Program and Recycled Water Retrofit Pilot Program monies in order to complete the approximately \$175 million of recycled water projects for clients in southern California. He assisted in completing the coordination with the funding agency on behalf of clients including monthly reports, progress deliverables, proposed financial breakdowns and coordinating field meetings.

Relevant Work Experience

Program Management Team Member for the San Gabriel Valley Recycled Water Demonstration Project for the Upper San Gabriel Valley Municipal Water District

Assisted the District to implement a multi-million dollar program by coordinating with USBOR, SWRCB and MWD on the behalf of Upper San Gabriel Valley Municipal Water District including monthly reports, progress deliverables, proposed financial breakdowns and coordinating field meetings. Potentially, 40,000 to 50,000 AFY of reclaimed water from the County Sanitation district's San Jose Creek Plant will be used for irrigation, industrial use, spreading (recharge) and river discharge in a portion of the District. The phased implementation plan is currently on schedule. Provided a quality assurance and quality control review as program manager for USGVMWD for 6.5 miles of 36-inch recycled water pipeline for the USGVMWD Recycled Water Demonstration Project.

Whittier Narrows Water Recycling Project Phase IIA-Pipeline and Pump Station

Project Manager responsible for the expansion of the Upper San Gabriel Valley Municipal Water District's recycled water system. The facilities for the project include a pump station and reservoir at the County Sanitation Districts of Los Angeles County Whittier Narrows Water Reclamation Plant and approximately 18,000 linear feet of pipeline.

City of Industry Water Recycling Project Phase IIB-Pipeline, Reservoirs and Pump Station

Project Manager responsible for the expansion of the Upper San Gabriel Valley Municipal Water District's recycled water system. The facilities for the project include a two pump station, two reservoirs in the City of West Covina and 24,000 linear feet of pipeline.

Education

BS, Civil Engineering, California State University Long Beach, CA, 1993

Registration Registered Engineer-in-Training, CA (#109865) 1997

Professional Affiliations

- American Society of Civil Engineers
- California Water Environment Association (Los Angeles Basin Section) – Board of Director 2014 to Present
- Orange County Water Association – Board of Director 2014 to Present
- Water Environmental Federation
- WaterReuse Association – Past President (LA Chapter) and Chapter Trustee (IE Chapter) – Board of Director 1997 to Present

Years of Experience: 25



Project Manager, Rose Hills Recycled Water Project Phase I –Pipeline and Conversion, Rose Hills Memorial Park and Mortuary

Mr. Robinson assisted in obtaining Department of Water Resources Proposition 84 funding of \$0.5M. Mr. Robinson coordinated with the Upper District and Rose Hills to develop and complete the review of the application before submittal to the DWR. Mr. Robinson made all the presentation to the Greater Los Angeles Steering Committee for the application. Mr. Robinson was responsible for the expansion of the Upper San Gabriel Valley Municipal Water District's recycled water system to Rose Hills. The facilities for the project include 12,000 linear feet of pipeline and the recycled water conversion of approximately 600 acres of Rose Hills property to utilize recycled water while maintaining potable water in hose bibs. Worked closely with Rose Hills, San Gabriel Valley Water Company and Los Angeles County DPH to maximize reclaimed water use for commercial/industrial applications.

Program Manager, Recycled Water Demonstration Project, Foothill Municipal Water District (FMWD)

Mr. Robinson assisted in obtaining Department of Water Resources Proposition 84, of \$1.48M. He coordinated with the application consultant and Foothill MWD staff to develop all sections of the application and complete the review of the application before submittal to the DWR. Mr. Robinson made all the presentation to the Greater Los Angeles Steering Committee for the application. The project was an innovative plan to capture, treat and recycle local sewage water, storm water and irrigation runoff for groundwater percolation (recharge). The project aimed to help increase local water source reliability while decreasing FMWD need for imported water. The Project was to be funded 50-percent from DWR Proposition 84 Round 2 funding. The Project is to connect to a 18-inch sanitary sewer pipeline owned and operated by Los Angeles Sanitation District for the raw supply then a 300,000 gallons per day Membrane Bioreactor (MBR) treatment plant is planned to be placed at the La Canada United Methodist Church which will be discharged into a groundwater infiltration gallery underneath athletic fields at La Canada High School.

City of Santa Ana

Mr. Robinson currently working with Tom Holliman & Associates, assisted in obtaining and managing \$75,000 in Proposition 13 monies to complete a Recycled Water Feasibility Study. John Robinson is coordinating all the coordination with SWRCB on the behalf of the City of Santa Ana including monthly reports, progress deliverables, and proposed financial breakdowns and coordinating field meetings.

As-Needed Grant Writing Assistance, West Basin Municipal Water District (2012-2014)

John provided as-needed grant writing assistance and technical writing services on 8 grant applications, with over \$1.4 million in funding. Applications were submitted to U.S. Bureau of Reclamation (USBR) and DWR. In August 2014, USBR awarded funding in the amount of \$150,000 for West Basin's Subsurface Intake Study under its highly- competitive Desalination and Water Purification Research Program.



**Recycling Program Master Plan, West Basin Municipal Water District/City of Los Angeles
Department of Water & Power**

Project Engineer on a comprehensive recycled water master plan within the WBMWD and LADWP service areas. The requirements of the master plan included analysis of recycled water markets and potential recycled water facilities for expansion with consideration of 14 water utilities including LADWP in a study area covering over 200 square miles and including 18 cities. Identification and evaluation of facilities for expansion, rank facilities based on economics, demand and other factors and develop a phasing/implementation plan for over 1,900 potential and non-potential customers with a potential recycled water demand totaling nearly 65,000 acre-feet per year.

Program Management, Central Basin Municipal Water Districts Water Reclamation Program

Mr. Robinson assisted in obtaining and managing the U.S. Bureau of Reclamation Title XVI funding, State Revolving Fund (SFR) Proposition 50, State Water Resources Control Board (SWRCB) Proposition 13 and Metropolitan Water District of Southern California Local Resources Program funding. Mr. Robinson assisted in completing the coordination with USBOR, SWRCB and MWD on the behalf of the District including monthly reports, progress deliverables, proposed financial breakdowns and coordinating field meetings. Provided various engineering services for design of pump stations, distribution systems, and customer connections. In addition, assisted with the identifications of potential reclaimed water customers, developed on-site retrofit drawings, and prepared engineering reports for industrial user for approvals by the state and county health departments. Project included computer hydraulic model of the District's recycled water distribution system.

Project Manager, Regional Recycled Water Distribution System Facilities, Inland Empire Utilities Agency, CA

Mr. Robinson assisted in obtaining and managing the U.S. Bureau of Reclamation Title XVI funding, State Revolving Fund (SFR) Proposition 50, and Metropolitan Water District of Southern California Local Resources Program monies in order to complete this program. Completing the coordination with USBOR, SWRCB and MWD on the behalf of Inland Empire Utilities Agency including monthly reports, progress deliverables, proposed financial breakdowns and coordinating field meetings. Involved in design of 10 miles of 16 to 30-inch pipeline, two recycled water pump stations, reservoir rehabilitation, and development of a Recycled Water Implementation Plan.

Recycled Water Programs & Feasibility Reports, -Water System Master Plan Update City of Signal Hill

Mr. Robinson assisted in obtaining and managing the Proposition 13 monies (approximately \$75,000) to complete the above study. John Robinson while with another firm completed all the coordination with SWRCB on the behalf of Signal Hill including monthly reports, progress deliverables, and proposed financial breakdowns and coordinating field meetings. John was the Project Manager for the update of Signal Hill's 1995 Master Plan, including the projection and analysis of future demands for a 10-year planning period, upgrade of the existing system, conversion of existing hydraulic water model from Cybernet to H2ONet, updating model, analysis of source water supply, distribution facilities, storage facilities, booster pump stations, reconfiguration of pressure zones, and alternatives for improved disinfection. The recycled water feasibility portion of the master plan update included identifying potential customers, potential sources, establishing a partnership between source providers, construction feasibility, and economic analysis.



Eliza Jane Whitman, P.E., LEED AP, ENV SP

Eliza Jane Whitman, P.E., LEED AP, ENV SP has more than 28 years of engineering and management experience in all types of infrastructure, water, environmental, and energy issues world-wide. Her experience in infrastructure, water and environmental work includes both water and wastewater treatment, sewers, stormwater, recycled water, air emissions, and regulatory requirements. Many of the water and wastewater projects involved automation improvements, database development and analysis, upgrades, and expansions. Also, she has been involved in strategy development, technical advisory reviews, managing project and program planning and designs, construction and operations of major water and infrastructure projects for international, federal, state and local agencies and private utilities and developers in the United States, Europe and Asia. She has also managed several projects for the State Water Resources Control Board, Department of Energy, California Energy Commission and California Public Utility Commission for energy efficiency, renewables and distributed energy at a water agency.

Ms. Whitman has experience facilitating workshops and charrettes to develop strategies and programs for public works efforts as well as serving on several local and national committees and Boards. She is experienced in strategic and decision making analysis, and focusing on program and project cost effectiveness and efficiency. Her experience covers management, coordination and design of projects from studies through final design, construction and alternative project delivery. She has been responsible for managing and reviewing work that is being constructed based on the designs for treatment plants. Ms. Whitman has worked with many working groups to streamline efforts, improve efficiency, and produce cost effective projects.

EXPERIENCE

Owner and President of EW Consulting, Inc.

A small business focusing on innovative engineering, energy, environmental, and water projects. Many of these projects integrate these components for cost effective and efficient solutions, as well as meeting compliance requirements. Currently Ms. Whitman is the Owners Representative, working on the One Water LA 2040 program, Phases 1 and 2, for the City of LA. This project is multi-faceted and involves wastewater treatment plant and sewer facility planning, design and CIP, LA River studies, Stormwater facilities and CIP, funding and grant-writing, cost-benefit analysis, climate change impacts on infrastructure, permitting, and recycled water. She is also managing the Green Construction Policy and the Sustainability effort for six of Metro's major metro rail lines under the 5-year Program Management contract. She recently completed her role as Technical Advisor for LADWP's Stormwater Master Plan, providing input and review of design criteria, modeling results, and technical advice. Other recent contracts include working on two of the City of LA's BOS' Enhanced Watershed Management Plans, which is part of compliance for the City of LA and LA County's water quality requirements for storm

Professional Registration or license

Professional Engineer, CA No. C53763
LEED AP – US Green Building Council
ENV SP – Institute for Sustainable Infrastructure

Experience in the Industry

25 years

Education

B.S., Civil Engineering, North Carolina State University
Master in Civil Engineering, North Carolina State University

Advisory Boards

Pasadena Tribe Lacrosse Board –Girls Dir.
USC Civil and Environmental Engineering Department (2010-2013); NCSU Civil & Environmental Engineering (2009 – 2011)
EWC's Pasadena Unified School District; Univ of TX S.A. Guest lecturer

ORGANIZATIONS AND COMMITTEES

So. CA Water Association
American Water Works Association
Water Environment Federation
American Society of Civil Engineers
Association for Women in Water and Energy Efficiency



water. She has Outreach facilitation between City staff, Consultants, and the public, as well as cost estimating, technical planning and review. Recently, she served as a technical advisor for IEUA's Integrated Water Management Plan which is addressing climate change, water and energy conservation, recycled water, and water supply. Finally, she has worked for Utilities, including So Cal Gas, evaluating energy efficiency programs for public agencies and integrating energy efficiency in to their programs and projects.

Southern California and Los Angeles Area Manager, VP, GEI Consultants and Brown and Caldwell

Ms. Whitman managed the offices in So. California and was responsible for managing staff, strategy, and planning for GEI, as well as reviewing new technologies applicable to the marketplace and relevant to water agencies. Her responsibilities included managing a staff – both direct and indirect – of approximately 25 people, financial reporting, implementing business operations best management practices (BMPs), growth, and business development. She led successful marketing efforts that totaled over \$6M.

Ms. Whitman was the Client Service Manager for the City of Los Angeles, regional leader and was responsible for relationship building, evaluation of client business opportunities, business planning, and regional strategies. She was on BC's Energy, Water and Sustainability Community of Practices and began the Federal Net Zero program for the Company. She worked with all of the divisions within the CLA's BOE/ BOS, LADWP, MWD, LACoDPW, USACE, BOR/BOI, and Mesa Consolidated Water District. She worked with several companies during proposals for teaming and developing strategies for success.

Director of Sustainable Strategies, Vice President, Parsons Corp

Ms. Whitman was the Director of Sustainable Strategies, world-wide, where she was instrumental in developing the Company's internal sustainability systems, policies, procedures, tools and documents. She was responsible for developing the metrics for business unit's to implement and integrate sustainable practices for public works and infrastructure projects, facilities, and business processes, focusing on engineering and construction best practices. She led the development of the Company's (10,000 + person) Corporate Sustainability website and Knowledge Center, the Sustainability Best Management Practices Handbook, and the Sustainability Program Management Guideline. Also, she led the Sustainability Working Group which developed and implemented the sustainable vision and strategies worldwide. She focused on automating much of the work where possible and using the latest technology for this effort.

The world-wide sustainability program was involved in all water and infrastructure projects focusing on integrating sustainable engineering and construction practices. She worked with proposal and technical teams for design, program, and construction management both nationally and internationally. Minimizing water and energy consumption, energy audits, evaluating renewable energy alternatives, developing a greenhouse gas model for wastewater treatment plants, optimizing IT tools, and working with clients on air emissions were some of the many project activities in which she was involved. Ms. Whitman worked side by side with the design and construction teams, finding solutions that followed both LEED and the Triple Bottom Line components. She was very dedicated to working with clients to further their goals and fulfill their requirements, whether to comply with regulations, financial, social, political, or environmental issues.

Sustainability and LEED® Expertise

Ms. Whitman has experience in developing, implementing and integrating sustainable practices at facilities, public works and infrastructure projects, and business processes; in this role she is dedicated to



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working with clients to further their goals and fulfill their requirements, whether to comply with regulations, political, or environmental issues. Ms. Whitman has developed strategies for both companies and clients to meet many federal, state and local requirements, including President Obama's EO 13514 and President Bush's EO 13423 and California's AB 32,

evaluating regulations, financial, political, and environmental issues. Her experience encompasses integrated sustainable designs, program and project management and construction management (PM/CM), and construction activities. Ms. Whitman is experienced in reviewing designs and directing construction activities for sustainability, with an emphasis on monitoring and overseeing life-cycle costs and assessments, materials reuse, energy efficiency and water conservation.

Inland Empire Utilities Agency, Chino, California

Ms. Whitman's experience also involves managing for the public sector. Ms. Whitman was the manager of planning and water resources and deputy manager of engineering for a southern California public agency where she managed, coordinated, and implemented complex projects. Highlights include developing optimization software for reducing costs for the five treatment facilities, drought-proofing the service area with groundwater recharge, developing an extensive recycled water system, creating greenhouse gas protocols, and extensive use of renewable energy. Ms. Whitman has worked on multiple energy efficient and renewable energy projects for the State of California Energy Commission as well as the California Public Utilities Commission, NREL, and the Federal DOE. She also won many grants for stormwater management and treatment from the State of California, where art was incorporated that reflected the historic and cultural aspects of the community.

As Deputy Manager, Ms. Whitman was responsible for managing staff, Consultants, and resources for much of the department's innovative projects. In a Program Manager type role, she focused on both engineering and energy projects. She had both fiscal and managerial responsibilities within the department for these projects. Her duties involved managing projects for a 10-year \$750 million CIP budget, primarily wastewater treatment plants, sewers, and recycled water. Many of these were high profile, and later became award winning. She marshaled the resources and managed the departmental infrastructure required to handle an increasing workload. Best Management Practices were used to manage engineering, operations and maintenance costs. She directed multiple innovative, first-of-a-kind, and complex studies and designs, including a Design/Build, first public agency in the world, LEED platinum-level building, a \$40 million wastewater treatment plant expansion, Department of Energy-funded innovative energy efficiency gas co-generation and fuel cell project, stormwater/wetlands treatment, water pipeline and pump stations, and grants totaling \$150 million.

She managed, planned, coordinated, and directed senior project management staff and had extensive coordination with operation and maintenance (O&M) and construction managers, including asset management approaches, database development, and new and innovative technologies. She was responsible for developing department training, organization structure, and new initiatives (P3, recruitment, e-library, and benchmarking). Additional activities included working with Executive Management for changes in legislation which resulted in better usage of public funds for public works projects and making renewable energy more economically viable, and extensive use of renewable energy. She was instrumental in securing many grants for stormwater management and treatment from the State of California. Art was incorporated in to many of these projects, highlighting many of the historical and cultural aspects of the region and community.



Rebecca Drayse, ENV SP

Rebecca Drayse has a deep understanding of the political, institutional, jurisdictional, and financial challenges facing Southern California. She has developed strategy documents for overcoming regulatory barriers to implementing multi-benefit regional projects and has authored or assisted with the preparation of grant and foundation proposals that secured over 7 million dollars in funding for a number of high-profile stormwater capture demonstration projects and programs that augment local water supply, improve water quality, reduce flooding and enhance open space in the Los Angeles region. She has participated in the development of state legislation and local and state regulations, including the Stormwater Resources Planning Act (SB 790), the City of Los Angeles Low Impact Development Ordinance, and the County of Los Angeles Rainwater Harvesting Guidelines.

Ms. Drayse has extensive experience working with diverse interests to find consensus-based, cost-effective solutions to urban environmental problems.

Due to her reputation for identifying common interests and breaking through barriers to develop successful partnerships, she has built strong relationships with the region's agency leaders, policymakers, and non-profit organizations. Ms. Drayse has played a leadership role in engaging stakeholders and achieving consensus in successful local planning efforts, including the first Los Angeles Integrated Regional Water Management Plan, the City of Los Angeles Water Integrated Resource Plan, and the subsequent One Water LA 2040 Plan, and the Sun Valley Watershed Management Plan. She has directed strategy and message development for community engagement campaigns that have broadened participation from diverse stakeholders and achieved strong community and political support.

EXPERIENCE

Principal, EW Consulting, Inc.

Ms. Drayse is a Principal at EW Consulting. She advises a variety of clients including water agencies, school districts and non-profit organizations on water-resource related plans, policies, and projects. Highlights include:

Los Angeles Bureau of Sanitation - One Water LA 2040 Plan

- Coordinated with city departments and regional entities including LAUSD to identify barriers and increase opportunities for integration in water resource projects; provided technical review and advice on a variety of planning documents including the South Los Angeles Green Alleys Master Plan, the Los Angeles Mobility Plan and the Los Angeles Basin Stormwater Conservation Study.
- Researched creative funding opportunities including non-traditional partnerships and cap-and-trade funding; provided guidance on development of funding strategies technical memoranda and assisted with grant writing.

Industry Experience

25 years

CERTIFICATIONS

Envision Sustainability Professional, (2017)

Affiliations

California Urban Water Conservation Council, Board Member (2005-2013)

Council for Watershed Health, Board President (2008-2010), Board Member (2004-Present)

Los Angeles Basin Water Augmentation Study, Technical Advisory Committee Member (2002 – Present)

Southern California Water Dialogue, Steering Committee Member (2011-2013)

Upper Los Angeles River Integrated Regional Water Management Plan Steering Committee Member (2008-2013)

Education

California State University, Dominguez Hills
B.A., Interdisciplinary Studies (1998)
Summa Cum Laude
Focus of Major: Environmental Studies





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- Task lead for the public engagement strategies and marketing campaigns designed to maximize stakeholder participation and satisfaction. Tasks include managing development of community engagement and communications plans, stakeholder facilitation, developing communications, and preparing briefing documents, website content, progress reports and marketing materials.
- As task lead for policies and programs, worked with community stakeholders, business and non-profit leaders, City departments and regional agencies to develop the Plan's draft policies and programs and identify future research opportunities.

Urban Greening Plan for Inglewood and Lennox

- Managed the completion of an Urban Greening Plan for the communities of Inglewood and Lennox. Tasks included working with project partners TreePeople, Social Justice Learning Institute and SWA Architects to engage community members and jurisdictional entities in the plan development process. The assembled stakeholder group created plan goals; identified community priorities; developed site selection criteria; identified potential sites for a variety of greening practices; and determined the appropriate best management practices (BMPs) to apply to the sites.
- Responsible for project management, plan drafting, coordinating with jurisdictional agencies, reviewing concept plans and cost estimates for selected sites, identifying potential implementation partners and funding opportunities and preparing materials to meet state grant reporting requirements.

Santa Monica Unified School District

- Worked with Santa Monica-Malibu Unified School District, the City of Santa Monica and Heal the Bay to develop the concept design for a storm water capture project and watershed education garden and authored the grant that resulted in a \$621,000 award from the State Water Resources Control Board.

Director, Natural Urban Systems Group, TreePeople, Beverly Hills, CA

TreePeople is a nationally-recognized leader in developing innovative solutions to urban environmental issues. Ms. Drayse led the organization's urban infrastructure and water-related programs, participated in strategic planning, and managed staff and department budgets. Responsibilities included:

- Directed research and planning efforts, policy initiatives, and program and project development with the goal of cost-effectively increasing local water supply, improving water quality, enhancing habitat and open space, and engaging citizens in the process.
- Secured funding, managed state and federal grants and foundation awards, negotiated agreements, and provided construction management services for multi-benefit storm water capture and water conservation demonstration projects. To share lessons learned, directed the creation of "Rainwater as a Resource," a publication that documents the implementation process, successes, and pitfalls of three demonstration projects.
- Represented the organization in regional water and watershed management planning efforts, and technical and advisory committees including Los Angeles Basin Water Augmentation Study, the Metropolitan Water District's Stormwater/Urban Runoff Technical Workgroup, and the County of Los Angeles Sediment Management Advisory Working Group.
- Organized and facilitated collaborative design workshops (charrettes) to develop integrated and efficient project designs for agency clients.
- Managed a unique partnership between TreePeople and the Los Angeles Department of Water and Power (LADWP) to advance common goals. The partnership evaluated the agency's systems to identify opportunities for storm water capture in its capital improvement programs, designed and implemented a co-branded pilot rain garden incentive program for LADWP customers, and developed the scope for a storm water capture master plan.



PROPOSAL FOR GRANT WRITING CONSULTING SERVICES

As requested, included below is all hourly rates by JRC Team member.

FEE Schedule	
JRC Team, Qualifications and Role	Hourly Rate
John Robinson, Principal Project Manager	\$150/hour
Eliza Jane Whitman, P.E., LEED AP, ENV SP QA/QC and Technical Writer	\$150/hour
Rebecca Drayse, ENV SP Grant Writer	\$125/hour



SECTION 4.0 – CURRENT AND PRIOR CLIENTS

The following provides a summary of grants and loans we have applied for, obtained and managed in the last 10-12 years:

Agency	Projects	Funding Agency	Value
Central Basin MWD	Title XVI Funding for Recycled Water Program	USBR	\$25 million
City of Monterey Park	Proposition 84 – Centralized Groundwater Treatment Project	SWRCB	\$4 million
City of Signal Hill	Proposition 13 – Recycled Water Feasibility Study	SWRCB	\$75,000
Crescenta Valley Water District	Proposition 84 – Well No. 2 and Related Facilities Project	SWRCB	\$700,000
Foothill Municipal Water District	Proposition 84 – Recycled Water Satellite Project	SWRCB	\$2 million
Inland Empire Utilities Agency	Title XVI Funding for Recycled Water Program	USBR	\$80 million
La Puente Valley County Water District	Proposition 84 – Recycled Water Project	SWRCB	\$400,000
Long Beach Water Department	Proposition 1 - Well Head Treatment	SWRCB	Pending
Long Beach Water Department	WaterSMART – AMI Funding	USBR	Pending
Long Beach Water Department	Proposition 13 – Recycled Water Feasibility Study	SWRCB	\$75,000
San Gabriel Valley MWD	Proposition 13 – Recycled Water Feasibility Study	SWRCB	\$75,000
Upper San Gabriel Valley MWD	Recycled Water Program	SWRCB and USBR	\$45 million
West Basin MWD	Title XVI Funding for Recycled Water Program	USBR	\$25 million
West Basin MWD	WaterSMART – Desalination Program	USBR	\$103,000
Total			\$182 million



Recycled Water Program, Upper San Gabriel Valley MWD, Monrovia, CA

Responsibilities for the Upper San Gabriel Valley Municipal Water District overall Recycled Water Program began with assisting the District to implement a multi-million dollar program by coordinating with USBOR, for their Demonstration project which was originally 30,000 AFY but now is closer 10,000 AFY. JRC assisted with the development of the Title XVI funding. This project was to move 10,000 AFY of recycled water from the County Sanitation District's San Jose Creek Plant to be used for groundwater spreading (recharge) and river discharge in a portion of the District.



The 2nd recycled water project was for recycled water pipelines, pump stations and a reservoir and was funded by an application prepared and submitted by JRC for a Clean Water SRF loan applications for the **\$27.3 million**. This CWSRF supported the Phase 1B recycled water program within the City of West Covina. We prepared the CWSRF application, coordinated meetings with SWRCB DFA staff in Sacramento for Upper District Executive Management and Board and responded to SWRCB DFA staff comments on the general, technical,

financial and environmental packages. During this complex process, we were able to provide continuous coordination with both SWRCB DFA project manager and Upper District's in order to obtain approvals. This project was completed in March 2015.

The 3rd project was to obtain DWR Proposition 84 IRWMP funding for three members of Upper District: Rose Hills, La Puente Valley County Water District and San Gabriel Valley Water District. Each has a recycled water project that total over 700 acre-feet per year and would eliminate groundwater pumping for all three organizations. JRC attended the local steering committees, leadership committees, prepared the grant application, assisted Los Angeles County Department of Public Works with coordination with DWR and have been managing Upper District's portion of the program for approximately 3 years. Currently one project is completed and operating, the 2nd project is completed and waiting for connection to recycled water supply and the 3rd project has completed the design. Funding obtained was approximately \$2.5 million.



Reference:

Contact: Mr. Thomas A. Love, PE, General Manager
Telephone (626) 443-2297; Email: tom@usgvmwd.org
Address: 602 E. Huntington Blvd. Suite B, Monrovia, CA 91016



DWR Proposition 84 Grant, Recycled Water Project, Foothill Municipal Water District, La Canada Flintridge, CA



JRC prepared and obtained a Department of Water Resources Proposition 84 grant for \$1.48M. JRC coordinated with the application consultant and Foothill MWD staff to develop all sections of the application and complete the review of the application before submittal to the DWR. JRC made all the presentations to the Greater Los Angeles Steering Committee for the application. The project was an innovative plan to capture, treat and recycle local sewage water, storm water and irrigation runoff for groundwater percolation (recharge). The project aimed to help increase local water source reliability while decreasing FMWD need for imported water. The Project was to be funded 50-percent from DWR Proposition

84 Round 2 funding. The Project is to connect to a 18-inch sanitary sewer pipeline owned and operated by Los Angeles Sanitation District for the raw supply then a 300,000 gallons per day Membrane Bioreactor (MBR) treatment plant is planned to be placed at the La Canada United Methodist Church which will be discharged into a groundwater infiltration gallery underneath athletic fields at La Canada High School.

Reference:

Contact: Ms. Nina Jazmadarian, General Manager
Telephone (818) 790-4036; Email: nina.jaz@fmwd.com
Address: 4536 Hampton Road, La Canada Flintridge, CA 91011

City of San Fernando - Grant Advisory & Preparation

JRC was hired by the City of San Fernando to advise on a strategy for seeking grant funding to implement its drinking water infrastructure, groundwater treatment and storm water capture and recharge. Through grant research and assistance, JRC is currently looking into details of the City's CIP to obtain a Drinking Water SRF,

due to their Disadvantage Area Community status the interest of a loan would be "forgiven" and working with staff to review the water utilities rates to create a long term financial plan in order to refund the loan once obtained. JRC has identified the SWRCB Proposition 1 Groundwater Grant Program as a grant source for Well 7 nitrate removal planning.



Reference:

Contact: Mr. Yazdan (Yaz) Emrani
Telephone (818) 898-1237; Email: yemrani@sfcity.org
Address: 117 Macneil Street, San Fernando, CA 91340



As-Needed Grant Writing Support Services, Long Beach Water Department, Long Beach, CA

JRC as a subconsultant to Engineering Solutions Services (ESS) has been selected to provide grant identification, writing and compliance services for Long Beach Water Department. JRC started by identifying potential grants then prepared a USBR WaterSMART Water and Energy Grant application for grant funding for Automated Meter Infrastructure Improvements. JRC wrote the Letter of Support for LBWD staff to present and obtain from stakeholders and internal City of Long Beach supporters of the grant. JRC provided language for the resolution that was required as a part of the grant. The grant request was for \$1.0M.



JRC prepared a 2nd grant application which was for the West Coast Basin Well 1 Project which was through the USBR WaterSMART Drought Resiliency Project Grant. JRC assisted with the responding to comments on the submittal from USBR by providing project information. JRC wrote the Letter of Support for LBWD staff to present and obtain from stakeholders and internal City of Long Beach supporters of the grant. JRC provided language for the resolution that was required as a part of the grant. The grant request was for approximately \$750,000.

In the process, JRC was able to identify over **\$20 million** in other grant funding opportunities for recycled water, master plan, water distribution and sewer collection systems for Long Beach Water Department.

Reference:

Contact: Mr. Dean Wang, Water Conservation Specialist
Telephone: (562) 570-2311; Email: dean.wang@lbwater.org
Address: 1800 E. Wardlow Road, Long Beach, CA 90807

Grant Writing Support Services, Crescenta Valley Water District, La Crescenta, CA

JRC provided a review of CVWD's proposed CIP and unfunded list of projects and provided a comprehensive strategy to obtain grant funding for the CVWD's community.



CVWD approval of the recommended strategy resulted in JRC pursuing three (3) grant application packages included DWR Proposition 84 IRWMP grant for groundwater treatment (successful for \$700,000), DWR Proposition 1 grant for groundwater capture, treatment then recharge (Pending the Proposed Solicitation Package release) and Federal Emergency Management Agency (FEMA) grant funds for the design and/or construction of a roadway repair at Edmund #2 and Pickens Reservoirs due to the Station Fire.

Reference:

Contact: Mr. David Gould, District Engineer
Telephone (818) 236-4119; Email: dgould@cvwd.com
Address: 2700 Foothill Blvd., La Crescenta, CA 91214



H. SUBCONTRACTORS

SUBCONTRACTORS RELEVANT PROJECTS:

CITY OF LOS ANGELES – ONE WATER LA

EWC has been serving as an in-house consultant and Owner's Representative to the City of LA for this groundbreaking effort managed by LASAN's Wastewater Engineering Services Division. EWC staff is working side-by-side with LASAN staff and assisting in the management of the Consultant team's work. Currently, Phase 2 is in the planning phase for 19 tasks. EWC is providing significant leadership and assistance for key components: wastewater and storm water facilities plan; communications and public engagement; recycled water, LA River study, climate resiliency for water infrastructure; funding and grant opportunities; and leading the development of recommended policies and programs. EWC staff has often been the representative to the mayor's office in meetings, represented the One Water LA team to other departments, regional agencies, and the public, and worked with all levels, from GM and Executive management and down. Staff has learned much over the last few years understanding the complexities of the City's inner working in Public Works. In addition, EWC provides mentoring and guidance to in-house staff as senior and experienced professionals. EWC reviews the Consultants' work, as well as technical reports and planning documents from multiple city departments and regional agencies to identify opportunities and provide recommendations on how to better integrate storm water capture, water conservation, use of recycled water and additional water management strategies. Documents reviewed include: Department of City Planning RE: Code LA, and Mobility Plans, Los Angeles Basin Stormwater Conservation Study, and the South Los Angeles Green Alleys Master Plan. The EWC team has assisted the City in increasing stakeholder diversity and participation during the Plan's development. EWC has provided strategic guidance on stakeholder engagement efforts including meeting planning, facilitation and on-going communications. Funding and grant writing has already been part of the effort. The EWC team has worked with city staff in determining specific projects and programs for Proposition 1 funding. However, the team has gone beyond that and looked at other opportunities for public private partnerships. The funding effort consists of evaluating and identifying new revenue streams and funding strategies. This includes city departments and regional agencies. EWC also played a key role in Phase 1 which provided the direction and tone of the work to be accomplished in Phase 2. EWC was responsible for creating the Steering committee made up of 19 City departments and regional agencies. Tasks included development of Phase 1's Guiding Principles, determination of One Water LA plan components, the level of coordination with City departments and staff, single and joint departmental projects, interaction with stakeholders, and funding strategies for project implementation related to water. The goal and purpose of the vision, objectives, and guiding principles was to develop a framework in which to collaborate with all departments, regional entities, and stakeholders in the City to organize and manage a comprehensive plan. Phase 1 was a major effort comprised of fostering integration and inclusiveness throughout the City.

TREEPEOPLE – URBAN GREENING PLAN FOR INGLEWOOD AND LENNOX

EWC served as project manager to complete an Urban Greening Plan for Inglewood and Lennox. EWC coordinated with projects partners TreePeople, and the Social Justice Learning Institute to work with local stakeholders to create the plan's goals and identify community priorities; develop site selection criteria and identify potential sites for a variety of greening practices; and determine the appropriate best management



practices (BMPs) to apply to the sites. EWC was responsible for the plan's draft document, coordinating with jurisdictional agencies, review of concept plans and cost estimates for selected sites and identifying potential implementation partners and funding opportunities. Grant funding was provided by the State of California Strategic Growth Council Urban Greening and Sustainable Communities Planning Grant Program, under the authority of the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84)

CITY OF LA – ENHANCED WATERSHED MANAGEMENT PLANS (EWMP)

With other strategic partners, EWC facilitated solutions for providing cost effective efforts for watersheds, storm water planning and MS4 compliance, and energy planning and audits. EWC completed work on two of the City of LA's EWMPs for the City of LA and LA County's water quality requirements for storm water. Activities included outreach facilitation between City staff, Consultants, and the public, as well as cost estimating, technical planning, BMP layout, and document review.

CITY OF LA – STORMWATER CAPTURE MASTER PLAN

EWC served as Technical Advisor for a non-profit organization, providing input and review of contractual responsibilities, design criteria, modeling results, and technical advice for this important City storm water effort. Policy, technical and financial review was provided.

SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT- DROUGHT RESPONSE SW CAPTURE

EWC led the concept design development process a for storm water capture and watershed education project for Will Rogers Elementary School in Santa Monica, CA. The team coordinated with School District and City of Santa Monica staff to develop project concept plan, cost estimates, maintenance requirements and monitoring protocols, and educational and community outreach opportunities. A State Water Resources Control Board Drought Response Outreach for Schools (DROPS) grant was completed for the \$1M project that resulted in a \$621,000 grant award.

WATER ALLIANCE – WATER-ENERGY COLLABORATION GUIDEBOOK

This project involved working with numerous water agencies in southern California to assess opportunities for energy efficiency projects relating energy and water. An in-depth survey was completed by EWC of over 15 water agencies and utilities to obtain input and an understanding of operations and decision-making approaches. The result was a guidebook for water agencies.

SO. CAL GAS – EMBEDDED ENERGY AND NATURAL GAS CONSUMPTION IN WATER SYSTEMS

Computational tool developed to compute the embedded natural gas and energy consumption in water within Southern California Gas' service area. Natural gas consumption, regulatory requirements, codes, and standards were analyzed, including GHG and AB 32, for water conveyance, treatment, recycled water production, distribution, and transportation at the largest water and wastewater agencies in Southern CA. The energy intensity was determined for the water use cycle by agency. Interviews with top management was conducted to determine current and future goals and objectives related to energy consumption.



SECTION 5.0 – STATEMENT REGARDING JRC PROJECT TEAM AVAILABILITY

John Robinson has reviewed the Request for Proposals for Grant Writing Consulting Services dated July 3, 2018 and the JRC Team will be available to proceed with the scope of services outline on or about September 3, 2018.

Availability Chart	
Name & Designation	Availability starting on September 3, 2018
John Robinson, Project Manager	65%
Eliza Jane Whitman, PE, QA/QC	50%
Rebecca Drayse, ENV SP - Grant Preparer	60%

- Grant Identification Two week from Notice to Proceed (approximately 09/14/18)
- Grant Funding Research Four weeks from Notice to Proceed (approximately 09/28/18) depending on BCVWD's staff availability for the kick-off meeting. Needs to be finished before the start of the new Federal fiscal year (10/01/2018-09/30/2019).
- On-Call Grant Research JRC can provide a schedule when this issue occurs but can be completed within the month a new area/project has been identified.
- Grant Development JRC will present a schedule (both internal and external) for each grant development effort for BCVWD's approval. Not all grants have deadlines but most for DWR, SWRCB and all Federal grants have specific deadlines that have to be adhered or grant application is rejected.
- Monthly Reports Monthly reports will be provided with JRC's invoices approximately on the 1st of the month but at the time of award can modify the schedule to support BCVWD's staff with staff letters for the Board.





SECTION 6. FEE PROPOSAL

Please refer to the separate sealed envelope which provides a not-to-exceed cost estimate adequate to cover the scope of services outlined in the Request for Proposal for Grant Writing Consulting Services dated July 3, 2018.



ATTACHMENT 1 EXAMPLE OF GRANT APPLICATION



Long Beach Water

Exceptional Water · Exceptional Service

Automated Metering Infrastructure (AMI) Three-Year Installation Project

WaterSMART: Water and Energy Efficiency Grants for FY2018

Prepared For:

Bureau of Reclamation
Financial Assistance Support Section
Attn: Mr. Darren Olson
dolson@usbr.gov
Denver, Federal Center
Building 67, Room 152
Sixth Avenue and Kipling Street
Denver, CO 80225

Submitted By:

Long Beach Water Department
1800 Wardlow Road
Long Beach, CA 90807
Christopher J. Garner, General Manager
Chris.Garner@lbwater.org
562-570-2300

May 10, 2018

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SECTION 1: TECHNICAL PROPOSAL

A. Executive Summary

Date: May 10, 2018

City: Long Beach

County: Los Angeles County

State: California

Applicant Name: Long Beach Water Department

Project Length of Time: 36 months

Estimated Completion Date: April 30, 2021

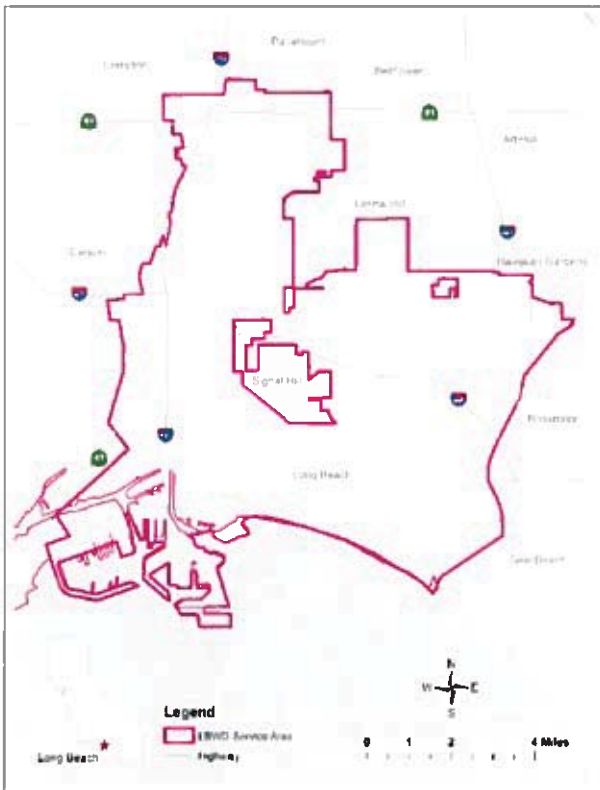
Located on a Federal Facility: No

To meet water demands, the Long Beach Water Department (LBWD) currently exercises all its pumping rights to the Central Groundwater Basin and supplements the remaining demand by purchasing costly imported water from the Metropolitan Water District of Southern California (MWD). Over the past few decades, water conservation efforts have proven to be effective in offsetting the need to purchase imported water and develop new water supplies. To further increase LBWD water supply reliability and support water conservation and management efforts, LBWD proposes to replace its existing 89,750 residential, commercial, and industrial meters with Advanced Metering Infrastructure (AMI), which will allow meters to be read remotely and in near real-time from a central location through a fixed communications network. This funding will support the LBWD staff installation of 11,397 meters with AMI. The remaining 78,353 meters will be installed by an independent contractor. This funding will be allocated to accomplish various project activities involving AMI replacement, facilities construction, materials and equipment (registers, meters, meter boxes, lids), as well as implementation of the Meter Data Management System (MDMS), an interactive web portal, and leak detection technologies. This water conservation project will result in quantifiable water savings and support broader water reliability benefits by providing the following:

- Estimated water savings of 3,796 acre-feet per year
- Associated energy savings of 92,023,516 kilowatt-hours (kWh) per year
- Streamlined water conservation measures through increased speed and data accuracy
- Reduced time, labor, cost, energy, and Greenhouse Gas emissions compared to the existing metering system, which requires personnel to physically drive to and manually read each meter
- Increased water reliability by offsetting the need to purchase expensive imported water or develop costly new local groundwater or recycled water supplies
- Modernized and increased dependability of the City's aging water infrastructure by embrace of new smart meter technologies
- Proactive customer service and increased customer awareness of water consumption
- Improved efficiency of meter reading operations
- Capacity for immediate water leakage detection, which can reduce energy consumption and water waste.

B. Background Data

Figure 1: LBWD Service Area



LBWD is responsible for managing all water supply within the City of Long Beach. LBWD’s water service area covers approximately 50 square miles (see Figure 1). According to the 2015 Urban Water Management Plan, LBWD owns, operates, and maintains 31 active groundwater wells, 907 miles of water mains, 6,501 fire hydrants, and 750 miles of sanitary sewer lines. This entire infrastructure is used to provide water service to 89,750 active customer accounts, which include: 60,000 single-family homes, 14,800 duplexes, 96,900 apartment and condominium units, 1,100 dedicated landscape irrigation accounts, and 6,600 commercial, industrial and government accounts. Today, 12,197 active customer accounts are in what are known as SB 535 Disadvantaged Communities. These are communities designated by the California Environmental Protection Agency as disadvantaged based on the guidelines set forth in California State Senate Bill 535 (2012) and

State Assembly Bill 32 (2006). LBWD has no agricultural accounts.

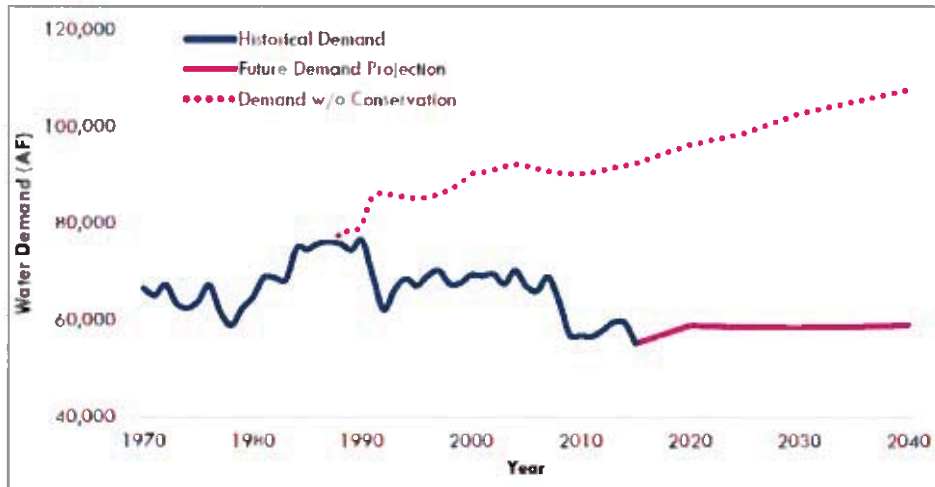
LBWD currently receives its potable water supply from two sources: imported water through the MWD, and groundwater from the Central Groundwater Basin, which underlies the northwestern portion of the City. MWD imports water to Southern California from the Colorado River and runoff from the western slopes of the northern Sierra Nevada Mountains.

Water conservation and recycled water supplies also act as water supply sources for LBWD because they directly offset the need to purchase imported water and pump groundwater. During a water shortage, short-term water conservation measures essentially provide LBWD with an emergency water “supply” to compensate for reductions in wet-water supplies; very similar to purchasing expensive spot-market supplies during water shortages or investing in some other type of shortage-year supplies. Water conservation efforts have reduced the per capita water use in Long Beach from a high of 175 gallons per capita per day (GPCD) in 1984, to 111 GPCD in 2014. The drought and mandatory water restrictions in 2015 lowered demand even further to just 102 GPCD. Water conservation efforts reduce the City’s dependence on its imported water supply (Figure 2). In addition, the City’s recycled water distribution system has vastly expanded its customer base and now supplies more than 120 service connections, compared to previously serving just one City park in the 1980s. LBWD recycled water customers

include public and private irrigation customers, such as parks, schools, golf courses, cemeteries, and nurseries. The recycled water is also used by THUMS, a consortium of oil companies, which uses the recycled water to re-pressurize offshore oil-bearing strata in order to prevent land subsidence.

LBWD purchases 46% of the City's water supply from MWD and supplies 43% of the City's water from groundwater in the Central Groundwater Basin. The remaining 11% of the City's water supply is recycled water. According to the LBWD's 2015 Urban

Figure 2: Conservation Reduces Dependence on Imported Water Supply



Water Management Plan, the City used 32,693 acre-feet of water from local groundwater production, and 35,100 acre-feet of water delivered from MWD in 2015. The total water usage was 76,983 acre-feet. The most significant factors altering water use between 2015 and 2040 will be the increase in water demand from the multi-family sector and the decrease in water use attributable to water conservation efforts. The multi-family sector is expected to increase from 15,517 acre-feet in 2015 to 20,562 acre-feet in 2040. The total water demand is expected to increase from 55,206 acre-feet in 2015 to 59,106 acre-feet in 2040.

LBWD has the rights to pump 32,693 acre-feet per year of groundwater from the Central Basin Aquifer. In addition, LBWD has rights to pump 0.7 acre-feet per year from the West Coast Basin Aquifer that underlies the southeast portion of the City, although this right is currently not being exercised. LBWD total water demand is currently close to the minimum 100 gallons per capita per day (GPCD) allocation guaranteed in the MWD Water Supply Allocation Plan (WSAP). MWD WSAP, which is state law, entitles LBWD to a "preferential right" of MWD supplies in an amount that is greater than LBWD's projected need for those supplies. LBWD's current water supply from groundwater production in the Central Groundwater Basin is limited and MWD has considered the potential impacts climate change may have on the quantity of imported water available; Therefore, LBWD hopes to help increase the reliability of the City's water supply through implementation of Advanced Metering Infrastructure (AMI). This water conservation project will address the potential shortfalls in the City's water supply by directly improving water conservation and management efforts.

The City's Energy Resources Department provides natural gas utility service to 500,000 customers in Long Beach and Signal Hill, delivered through more than 1,800 miles of gas

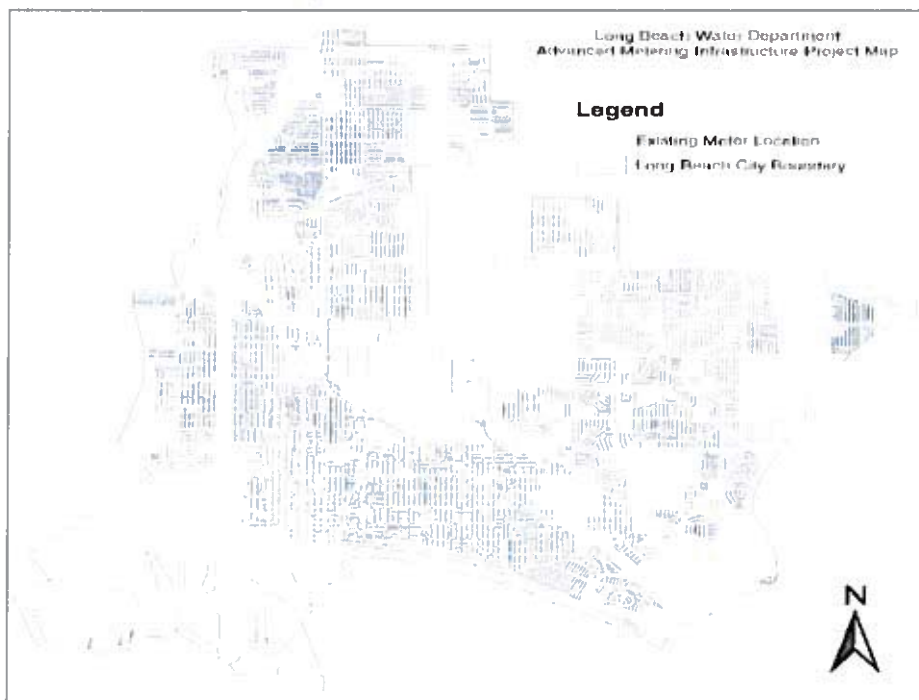
pipelines. The City is currently in the process of implementing a Smart Gas Metering Program for gas utilities, which is similar to this project’s AMI system for water meters. Electrical energy is primarily provided by Southern California Edison Company. With the implementation of this AMI project, there will be significant energy savings from reduction in water leakages and reduction in the need for additional imported water pumping and distribution. This project will also produce energy savings from reduced vehicle miles traveled generated from the existing metering system, in which employees have to physically drive to each of the 89,750 meter locations every month to manually read the data.

LBWD had a partnership with the United States Bureau of Reclamation and the Los Angeles Department of Water & Power, and together operated the country’s largest seawater desalination research facility for exploring the feasibility of the “Long Beach Method” which could reduce desalination energy requirements by 20 to 30 percent. Currently, the desalination facility is not active and is not a cost-effective option for water supply reliability due to high energy costs, but it may become a more relevant water resource asset in the future.

C. Project Location

The AMI project area is located in the City of Long Beach, California, which is directly adjacent to the City of Carson on the west. The project latitude is {33°46’6” N} and longitude is {118°11’44” W}. This project involves replacement of the existing municipal metering system within LBWD’s water service area (See Figure 1). Figure 3 shows the AMI project map with existing meter locations within the City. This map is also included as Appendix 2.

Figure 3: AMI Project with Existing Meter Locations



D. Technical Project Description

This project is a water conservation project that will directly improve the City's water management, conservation, and water supply reliability efforts. Currently, meter-reading personnel must physically drive to each of the 89,750 metered locations within the City to manually read water meters each month. This method is inefficient because it requires excessive time, labor, vehicle maintenance costs, and Greenhouse Gas emissions from the vehicle miles traveled. In this proposed project, the City's existing water metering system will be replaced with Advanced Metering Infrastructure (AMI), which will provide data in near-real-time, as well as allow meters to be read remotely from a central location through a radio-frequency-based fixed communications network. Implementation of AMI will improve water resource management, improve customer and City communication and proactivity, streamline water conservation measures, and modernize the City's existing water infrastructure through advanced technologies.

On behalf of LBWD, UtiliWorks Consulting, LLC developed an AMI/MDM Assessment and Strategic Roadmap Report for this project. Of the 89,750 residential, commercial, and industrial meters within LBWD's service area, 35,382 of these meters are more than 13 years old and are expected to be replaced with AMI. The remaining 54,368 are expected to be replaced with radio and new AMI compatible registers for retrofits. Concrete and steel meter boxes and lids that are not compatible with AMI are also expected to be replaced with AMI-compatible composite materials. In conjunction with the AMI system, a Meter Data Management System (MDMS) is expected to be implemented, which will be responsible for AMI data cleansing, calculating, providing data persistency, and disseminating metered consumption data. As a companion product to MDMS, the overall system will be connected to an interactive web portal to allow customers to view their water consumption and changes in rate structure to target any water wasters.

Implementation of this project is expected to be completed within three years. This project will be conducted in phases to track the effectiveness of the implementation and how it meets the pre-established acceptance criteria. A proof-of-concept phase involving approximately 1,000 water meters will occur from May 2018 through April 2019. The independent contractor deployment of AMI is expected to begin in May 2019 and be completed by July 2020 while the LBWD staff portion will wait for approval of this grant by USBR, which we anticipate to be March 2019, and will be completed by April 2021.

The purpose of this project is to increase water conservation through leak detection, education, and improved communications between LBWD and its customers. An interactive web portal for customers detailing water consumption data and cost information, coupled with the customers'



ethical motivation to conserve water and implementation of economic incentives to meet targeted consumption rates, will modify customer behavior and attitudes toward water use. The resulting water savings are estimated to be 3,796 acre-feet per year, with an associated energy savings of 92,023,516 kilowatt-hours (kWh) per year. In addition to savings in water usage and energy consumption, this project will significantly reduce LBWD’s carbon footprint based on vehicle miles travelled.

E. Evaluation Criteria

E.1 Evaluation Criterion A — Quantifiable Water Savings

All applicants should be sure to address the following:

Describe the amount of estimated water savings. For projects that conserve water, please state the estimated amount of water expected to be conserved (in acre-feet per year) as a direct result of this project.

As a direct result of updating the City’s existing water metering system to AMI, the City’s conservation estimate is 3,796 acre-feet per year.

Describe current losses: Please explain where the water that will be conserved is currently going (e.g., back to the stream, spilled at the end of the ditch, seeping into the ground)?

Conserved water will help supplement the City’s finite water supply from groundwater production in the Central Groundwater Basin, as well as help reduce the City’s dependence on expensive imported water purchased from MWD.

Describe the support/documentation of estimated water savings: Please provide sufficient detail supporting how the estimate was determined, including all supporting calculations. Note: projects that do not provide sufficient supporting detail/calculations may not receive credit under this section. Please be sure to consider the questions associated with your project type (listed below) when determining the estimated water savings, along with the necessary support needed for a full review of your proposal. In addition, please note that the use of visual observations alone to calculate water savings, without additional documentation/data, are not sufficient to receive credit under this section. Further, the water savings must be the result of reducing or eliminating a current, ongoing loss, not the result of an expected future loss.

LBWD’s water supply averaged 76,983 acre-feet from all sources (imported water, local groundwater and recycled water) from 2010 to 2015. All imported and local groundwater is used for potable water. Water conserved by this project will reduce imported water from the Colorado River Aqueduct.

Installation of AMI meters reduce water loss due to leakage and encourages conservation. To estimate the amount of water lost annually to leaks, a documented average leakage rate for typical homes was used. The Water Research Foundation’s “California Single-Family Water Use Efficiency Study” (2016) documents an average leakage rate of 30.7 gallons per household per day for a California study group from 2005. This equates to 11,200 gallons per year, or 0.0343 acre-feet per year per household. Leakage sources are typically valves (faucets, water bibs, etc.), broken or cracked pipes, hot water heaters, and irrigation systems. Leakage either soaks into the ground (broken or cracked pipes, water bibs) or goes into drains and the wastewater system. In addition, LBWD has determined with the proposed Project in place, individual accounts which consume higher amounts of water than allotted in LBWD’s lower rate tiers can save 10% annually by receiving an early warning that they are approaching the highest rate tier. By dividing the savings from those accounts by the total number of accounts, the savings was calculated by LBWD to be an additional 0.008 acre-foot per meter per year. This brings the total savings to 0.0423 acre-feet per year per AMI meter. Conserved water will reduce LBWD’s amount of imported water.

With the installation of 89,750 new AMI meters in three years, an annual average savings of about 3,796 acre-feet per year:

- $89,750 \text{ meters} \times 0.0423 \text{ acre-feet/meter} = 3,796 \text{ acre-feet/year}$.

Actual water savings will be verified by comparing historical data for water usage prior to implementation of the AMI meters system.

Please address the following questions according to the type of infrastructure improvement you are proposing for funding. See Appendix A: Benefit Quantification and Performance Measure Guidance for additional guidance on quantifying water savings.

(2) Municipal Metering: Municipal metering projects can provide water savings when individual user meters are installed where none exist to allow for unit or tiered pricing, when existing individual user meters are replaced with advanced metering infrastructure (AMI) meters, and when new meters are installed within a distribution system to assist with leakage reduction. To receive credit for water savings for a municipal metering project, an applicant must provide a detailed description of the method used to estimate savings, including references to documented savings from similar previously implemented projects. Applicants proposing municipal metering projects should address the following:

- a. How has the estimated average annual water savings that will result from the project been determined? Please provide all relevant calculations, assumptions, and supporting data.*

See the above for estimated average annual water savings that are expected from the project. Actual water savings will be verified by comparing historical data for water usage prior to implementation of the AMI meters system.

b. How have current distribution system losses and/or the potential for reductions in water use by individual users been determined?

Every AMI user, residential, commercial, and industrial alike, has the potential to save 0.0423 acre-feet in water use per meter.

c. For installing individual water user meters, refer to studies in the region or in the applicant's service area that are relevant to water use patterns and the potential for reducing such use. In the absence of such studies, please explain in detail how expected water use reductions have been estimated and the basis for the estimations.

LBWD maintains numerous planning documents addressing water shortages and conservation alternatives including:

- An Annual Water Loss Audit Report (State required, SOR included)
- Urban Water Management Plan (State approved water conservation plan)
- Water Surplus and Drought Management Plan (MWD)
- Water Shortage Contingency Plan
- Utiliworks' AMI/MDM Assessment and Strategic Roadmap Report (May 2016)
- DWR California Single-Family Water Use Efficiency Study

Some planning documents, such as the Urban Water Management Plan, can be found online. Two significant resources are the UWMP, at <http://www.lbwater.org/UWMP> and the Water Shortage Contingency Plan at <http://www.lbwater.org/ConservationShortagePlan>.

The previously mentioned planning documents all cite conservation as the simplest, most cost-effective way to remedy, or at least postpone, myriad resource management issues. This project is informed by the more than 85 years of work LBWD has done to deliver precious water in the semi-arid southwest. The lack of local supplies and the difficulties associated with imported supplies has motivated LBWD to construct and operate one of the most efficient water delivery systems in California. The installation of smart meters furthers this effort. This proposed Project conserves water through education, real time feedback to residential water users, and financial incentives.

d. If installing distribution main meters will result in conserved water, please provide support for this determination (including, but not limited to leakage studies, previous leakage reduction projects, etc.). Please provide details underlying any assumptions being made in support of



water savings estimates (e.g., how leakage will be reduced once identified with improved meter data).

LBWD does not have distribution main meters. The AMI meters will replace 89,750 active meter customer accounts, which include: 60,000 single-family homes, 14,800 duplexes, 96,900 apartment and condominium units, 1,100 dedicated landscape irrigation accounts, and 6,600 commercial, industrial, and government accounts.

e. What types (manufacturer and model) of devices will be installed and what quantity of each?

The AMI radio endpoints installed will be the Sensus SmartPoint® 520M pit set module. The manufacturers and models for all other products will be selected through a competitive bid process.

f. How will actual water savings be verified upon completion of the project?

Actual water savings will be verified upon project completion by comparing historical water usage data prior to implementation of the AMI system, with water usage data after implementation.

E.1.2. Evaluation Criterion B – Water Supply Reliability

Up to 18 points may be awarded under this criterion. This criterion prioritizes projects that address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflicts in the region.

Please address how the project will increase water supply reliability. Proposals that will address more significant water supply shortfalls benefitting multiple sectors and multiple water users, will be prioritized. General water supply reliability benefits (e.g., proposals that will increase resiliency to drought) will also be considered. Please provide sufficient explanation of the project benefits and their significance. These benefits may include, but are not limited to, the following:

This project will increase water supply reliability by allowing the City and customers within the service area to efficiently manage and monitor water usage through an interactive web portal. The AMI system will streamline water conservation management efforts to support the reliability of the City’s water supply. Implementation of leak detection technologies will also help preserve the City’s valuable water supply by ensuring that water leakages are identified and addressed immediately.

Does the project promote and encourage collaboration among parties in a way that helps increase the reliability of the water supply?

Yes, in addition to the AMI system, this project will involve implementation of an interactive web portal where customers can view their water consumption data, water conservation tips, and associated water pricing. This tool will increase customer awareness of water usage and facilitate communications between the City and its customers, thereby encouraging collaboration to increase water conservation. This collaboration will reduce dependency on expensive imported water from MWD and the limited groundwater from the Central Groundwater Basin and in turn, increase reliability of the City's current water supplies.

Is there widespread support for the project?

Yes, AMI technologies have proven to be an effective metering system for various cities.

What is the significance of the collaboration/support?

This project directly affects water customers within the service area because it will allow them to view their water usage and receive alerts and notifications through an interactive web portal. In addition, the City can use this tool to help educate the public on water conservation issues.

Is the possibility of future water conservation improvements by other water users enhanced by completion of this project?

Implementation of AMI allows the City, as well as customers, to monitor water usage, system leaks, and water waste. Therefore, this project will be able to streamline future water conservation measures and policies in the City, as well as improve the ability to address any leaks immediately when they are detected in order to prevent water waste. Water conservation efforts offset the need to purchase expensive imported water or the need to develop costly new local groundwater or recycled water supplies.

Will the project make water available to address a specific water reliability concern? Please address:

Explain and provide detail of the specific issue(s) in the area that is impacting water reliability, such as shortages due to drought, increased demand, or reduced deliveries.

Southern California has experienced several significant droughts and water shortages since the 1970s, which has resulted in significant decreases in water usage. According to the 2015 UWMP, the total reduction from 2007 through 2015 was an incredible 22%. This project will



support water reliability during times of drought and help prepare for projected increases in water demands.

Describe where the conserved water will go/how it will be used. Will the project directly address a heightened competition for finite water supplies and over-allocation (e.g., population growth)? Will it be left in the river system?

Conserved water will help supplement the City's finite water supply from groundwater production in the Central Groundwater Basin, as well as reduce the City's dependence on expensive imported water purchased from MWD.

Describe how the project will address the water reliability concern?

Implementation of AMI allows LBWD to detect and address water leaks in the system in an efficient and timely manner to prevent water waste. It will also help conserve water by allowing customers and the City to monitor water usage consumption and alert customers if there is excessive usage.

Will the project help to prevent a water-related crisis or conflict? Is there frequently tension or litigation over water in the basin?

This project is not planned to prevent any water-related crises or conflicts.

Provide a description of the mechanism that will be used, if necessary, to put the conserved water to the intended use.

Not applicable.

Describe the roles of any partners in the process. Please attach any relevant supporting documents.

Not applicable.

Indicate the quantity of conserved water that will be used for the intended purpose.

LBWD estimates with the installation of 89,750 new AMI meters in three years, an annual average savings of about 3,796 acre-feet per year will be achieved because of this project.

Will the project benefit Indian tribes?

No. LBWD's service area includes no tribal lands.

Will the project benefit rural or economically disadvantaged communities?

Yes, all meters within the service area will be updated, including all economically disadvantaged communities within the service area. This project will support reliability of water supplies, which will minimize needs to increase water rates to all customers, including economically disadvantaged communities, when water shortages occur.

Will the project benefit species (e.g., federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance)? Please describe the relationship of the species to the water supply, and whether the species is adversely affected by a Reclamation project.

No.

Will the project address water supply reliability in other ways not described above?

No.

E.1.3. Evaluation Criterion C — Implementing Hydropower

This criterion is not applicable to this project.

E.1.4. Evaluation Criterion D — Complementing On-Farm Irrigation Improvements

This criterion is not applicable to this project.

E.1.5. Evaluation Criterion E — Department of Interior Priorities

Up to 10 points may be awarded based on the extent that the proposal demonstrates that the project supports the Department of the Interior priorities. Please address those priorities that are applicable to your project. It is not necessary to address priorities that are not applicable to your project. A project will not necessarily receive more points simply because multiple priorities are addressed. Points will be allocated based on the degree to which the project supports one or more of the priorities listed, and whether the connection to the priority(ies) is well supported in the proposal.

1. Creating a conservation stewardship legacy second only to Teddy Roosevelt

- a. *Utilize science to identify best practices to manage land and water resources and adapt to changes in the environment;*

This project involves advanced smart meter technologies that provide water-consumption data in near-real time and allows for remote meter-reading from a central location through a radio-frequency based fixed communications network. This technology can help the City streamline water conservation and water supply management measures and adapt to changes in the environment.

- b. *Examine land use planning processes and land use designations that govern public use and access;*
- c. *Revise and streamline the environmental and regulatory review process while maintaining environmental standards.*
- d. *Review DOI water storage, transportation, and distribution systems to identify opportunities to resolve conflicts and expand capacity;*
- e. *Foster relationships with conservation organizations advocating for balanced stewardship and use of public lands;*
- f. *Identify and implement initiatives to expand access to DOI lands for hunting and fishing;*
- g. *Shift the balance towards providing greater public access to public lands over restrictions to access.*

2. Utilizing our natural resources

- a. *Ensure American Energy is available to meet our security and economic needs;*

This project will involve significant energy savings that can help meet security and economic needs. The anticipated energy savings associated with this project are based on 89,750 AMI installed and would reach 92,023,516 kilowatt-hours (kWh) per year. The energy savings will result from reductions in vehicle miles traveled and reductions in purchased imported water supplies.

- b. *Ensure access to mineral resources, especially the critical and rare earth minerals needed for scientific, technological, or military applications;*
- c. *Refocus timber programs to embrace the entire 'healthy forests' lifecycle;*
- d. *Manage competition for grazing resources.*

3. Restoring trust with local communities

- a. *Be a better neighbor with those closest to our resources by improving dialogue and relationships with persons and entities bordering our lands;*
- b. *Expand the lines of communication with Governors, state natural resource offices, Fish and Wildlife offices, water authorities, county commissioners, Tribes, and local communities.*

4. Striking a regulatory balance

- a. *Reduce the administrative and regulatory burden imposed on U.S. industry and the public;*



b. Ensure that Endangered Species Act decisions are based on strong science and thorough analysis.

5. Modernizing our infrastructure

a. Support the White House Public/Private Partnership Initiative to modernize U.S. infrastructure;

Implementation of AMI will modernize the City’s aging water infrastructure by replacing antiquated manual-read meters, as well as aging meter boxes and lids. This project embraces advanced smart meter technologies and modernizes City procedures.

b. Remove impediments to infrastructure development and facilitate private sector efforts to construct infrastructure projects serving American needs;

c. Prioritize DOI infrastructure needs to highlight:

Construction of infrastructure; Cyclical maintenance; Deferred maintenance.

This AMI project highlights construction of infrastructure by replacing aging manual read meters with advanced smart meters. These meters will decrease cyclical maintenance requirements by automating and updating the metering system so that water leaks and system discrepancies can be identified and addressed immediately. This project will also defer annual meter replacement and meter maintenance spending for faulty meters by installing new AMI ready meters with long-term warranties.

E.1.6. Evaluation Criterion F — Implementation and Results

Points may be awarded for proposals with planning efforts that provide support for the proposed project.

E.1.6.1. Subcriterion F.1 — Project Planning

Does the applicant have a Water Conservation Plan and/or System Optimization Review (SOR) in place? Please self-certify, or provide copies of these plans where appropriate, to verify that such a plan is in place.

Provide the following information regarding project planning:

- (1) Identify any district-wide, or system-wide, planning that provides support for the proposed project. This could include a Water Conservation Plan, SOR, Drought Contingency Plan or other planning efforts done to determine the priority of this project in relation to other potential projects.*

LBWD maintains numerous planning documents addressing water shortages, water management strategies, and water conservation goals including the following:



- Water Conservation and Water Supply Shortage Plan
- 2015 Urban Water Management Plan (UWMP)
- AMI/MDM Assessment and Strategic Roadmap Report (May 24, 2016)
- Drought Contingency Plan
- Los Angeles Gateway Integrated Regional Water Management Plan
- LBWD 2017-2018 Capital Improvement Program (CIP)

(2) Describe how the project conforms to and meets the goals of any applicable planning efforts and identify any aspect of the project that implements a feature of an existing water plan(s).

LBWD’s robust 2017-2018 Capital Improvement Program and 2015 Urban Water Management Plan (UWMP) are designed to address current and future water conservation goals. The City of Long Beach Board of Water Commissioners has adopted values to support the LBWD mission, including effective communication within LBWD and the community at large, and responsible support of water conservation activities. This project will support these values through its interactive web portal which provides City attained information to customers, facilitates communication and water conservation actions between the City and customers, and creates potential for education on water conservation. In addition, according to the AMI/MDM Assessment and Strategic Roadmap Report, UtiliWorks has identified opportunities for improvement regarding the City’s water conservation program, including improving abilities to measure the effectiveness of individual programs and presentations of an easy to interpret measurement of water to the customer enables them to better participate in the water conservation efforts. This AMI project will directly address these improvement opportunities through its real-time water consumption data and interactive web tool.

The estimated Project schedule is provided below in Table 1.

Table 1: LBWD Estimated AMI Project Schedule

Estimated AMI Project Schedule		
Phase	Phase Start	Phase Finish
Application Preparation	April 1, 2018	May 10, 2018
Application Review	May 10, 2018	September 30, 2018
Project Implementation	March 31, 2019	April 30, 2021

E.1.6.2. Subcriterion F.2 — Performance Measures

Points may be awarded based on the description and development of performance measures to quantify actual project benefits upon completion of the project.



Provide a brief summary describing the performance measure that will be used to quantify actual benefits upon completion of the project (e.g., water saved or better managed, energy generated or saved). For more information calculating performance measure, see Appendix A: Benefit Quantification and Performance Measure Guidance.

LBWD proposes to use the following performance measures to quantify the benefits of the AMI system upon completion of the project:

Performance Measure No. 1: Quantifiable Water Savings

LBWD is required to conduct a water audit and produce an annual report. These reports will serve as the baseline for quantifying water savings. Detailed records of system improvements will be documented in a Project file. These records will be analyzed routinely with a summary analysis entered as a component of future water audit reports. A Final Project Implementation Report will be submitted to Reclamation to verify post-Project benefits. The post-Project benefit objective for Performance Measure No. 1. is 3,796 acre-feet of potable water saved annually through implementation of the Project, consisting of the installation of 89,750 AMI meters.

Performance Measure No. 2: Improved Water Management

The Final Project Implementation Report will contain a section entitled Improved Water Management. A portion of the Project journal will be dedicated to documenting general management improvements. This information will similarly be included in the annual audit report. The post-Project benefit objective for Performance Measure No. A.2. is potable water savings of 3,796 acre-feet per year.

Performance Measure No. 3: Implementing Energy Efficiency in Water Management

The Final Project Implementation Report will contain a section entitled Increased Energy Efficiency in Water Management. The post-Project benefit objective for Performance Measure No. 3 is 92,023,516 kWh per year as a result of 3,796 AFY reduction in potable water use.

E.1.7. Evaluation Criterion G — Nexus to Reclamation Project Activities

Is the proposed project connected to Reclamation project activities? If so, how? Please consider the following:

Does the applicant receive Reclamation project water?

Reclamation's WaterSMART Program focuses in part on the uses of technology to balance future water supply and demand needs throughout California and the western United States. The proposed Project demonstrates the opportunities for significant water and energy conservation through remote sensing, state-of-the-art software, and systems integration. Water conserved is directly related to the CALFED Bay-Delta Program which is a major ongoing



Reclamation activity. LBWD has and continues to have a close working relationship with the Lower Colorado Regional and Southern California offices.

Is the project on Reclamation project lands or involving Reclamation facilities?

The Project focuses on municipal water delivery and distribution and does not directly involve Reclamation project lands or facilities.

Is the project in the same basin as a Reclamation project or activity?

There are numerous Reclamation projects and activities in the Central and West Coast Basins including the ongoing Basin Study, a collaborative effort by Reclamation and the Water Replenishment District and the development of the GRIP project by WRD (of which LBWD is a member agency) as a large part of the potable water supply is based on groundwater management.

Will the proposed work contribute water to a basin where a Reclamation project is located?

LBWD receives water from the Colorado River Aqueduct. The Project will contribute 3,756 AF per year to the Colorado River Aqueduct.

Will the project benefit any tribe(s)?

The Project will not help Reclamation meet trust responsibilities to Tribes.

E.1.8. Evaluation Criterion H — Additional Non-Federal Funding

Table 2: Percentage of Non-Federal Funding

Percentage of Non-Federal Funding		
Non-Federal Funding Amount	Total Project Cost	Non-Federal Funding Percent
\$3,867,570	\$4,867,570	79.46%

SECTION 2: PROJECT BUDGET

Standard Form 424 Budget Information C

Submitted separately with all other relevant SF-424 forms.

A. Funding Plan and Letters of Commitment

The total project cost is estimated at \$4,867,570 over three years. The WaterSMART Grant Funding Group II request is for \$1,000,000. LBWD has authorized financing for the remaining \$3,867,570 needed to complete this project.

LBWD will finance all Project costs not funded by Reclamation. The funding plan anticipates that WaterSMART Grant funds will be used to purchase equipment as outlined below in Table 5's Budget Proposal. The majority of LBWD's commitment to funding is through labor to install approximately 11,400 pieces of equipment as well as the purchasing of the remaining materials and supplies.

Non-Reclamation funding will be provided solely by LBWD and therefore letters of commitment from third parties are not required.

Project Costs

- (1) It is the intention of LBWD to fund the deployment of AMI for all 89,750 meters throughout the service area, including the 11,397 meters for this project, through debt financing. The annual debt service will be paid for through the LBWD Water and Sewer enterprise funds, which are supported through rate revenue. This project is included in the LBWD budget.
- (2) No costs incurred before the anticipated Project start date are included in the Project budget.
- (3) There are no funding partners associated with the proposed Project.
- (4) There are no funding requests from other Federal partners. All local funds will come from rate payers. No other Federal or State funds will be used.
- (5) LBWD has numerous funding requests working at various levels. Those requests are independent of the proposed Project and will not affect or influence Reclamation's commitment to this Project should it receive funding.

Table 3: Summary of Non-Federal and Federal Funding Sources

Summary of Non-Federal and Federal Funding Sources	
Funding Sources	Funding Amount
Non-Federal Entities	
1. Long Beach Water Department	\$4,842,991
2. Long Beach Water Department (in-kind contribution)	\$24,579
<i>Non-Federal Subtotal:</i>	\$4,867,570
Other Federal Entities	
1. None	\$0
<i>Other Federal Subtotal:</i>	\$0
<i>Requested Reclamation Funding:</i>	\$1,000,000
Total Project Funding:	\$5,867,570

B. Budget Proposal

Table 4: Percentage of Cost by Funding Source

Funding Sources		
Funding sources	Percent of total project cost	Total cost by source
Recipient funding	82.96%	\$ 4,867,570
Reclamation funding	17.04%	\$ 1,000,000
Other Federal funding	0.00%	\$ 0
Totals	100.00%	\$ 5,867,570

Budget Proposal

Table 5: Summary of Proposed Budget

Budget Proposal Summary				
Budget and Item Description	Computation			Total Cost
	\$/Unit	Quantity	Unit	
Salaries and Wages				\$575,185
Meter Installer - Temporary	\$26.03	22,097	hour	\$575,185
Fringe Benefits				\$189,811
Meter Installers - Temporary	\$8.59	22,097	hour	\$189,811
Travel				\$0
None	\$0			\$0
Equipment				\$4,077,995
Registers for Meters	\$50	1358	each	\$67,900
AMI Meter Replacements	\$192.44	10,130	each	\$1,949,465
AMI Meter Box Replacements	\$100	6,970	each	\$697,000
Lid Replacements	\$48.28	10,539	each	\$508,855
End points	\$75	11,397	each	\$854,775
Supplies and Materials				\$0
None	\$0			\$0
Contractual/Construction				\$0
None	\$0			\$0
Environmental and Regulatory Compliance				\$0
Notice of Exemption	\$0			\$0
Other Costs				\$0
None	\$0			\$0
Total Direct Costs				\$4,842,991
Indirect Costs - 0.51%				\$24,579
Dean Wang - Project Manager for LBWD	\$39.39	624	hour	\$24,579
Total Indirect Costs				\$24,579
Total Project Costs				\$4,867,570

C. Budget Narrative

Salaries and Wages

Key personnel are listed in Table 6, and they are anticipated to be temporary employees. The salaries for these employees are not anticipated to be escalated it will be established within the

contract with the temporary employees that the set hourly rate shown below is for the duration (March 2019 – April 2021) of the project.

Table 6: Key Personnel – March 2019 through April 2021

Job Description	Status	Salary (annual)	Hourly Rate	Hours Budgeted	Percent of Time
Meter Installer	Temporary Employee	\$54,142	\$26.03	2080	100
Meter Installer	Temporary Employee	\$54,142	\$26.03	2080	100
Meter Installer	Temporary Employee	\$54,142	\$26.03	2080	100
Meter Installer	Temporary Employee	\$54,142	\$26.03	2080	100
Meter Installer	Temporary Employee	\$54,142	\$26.03	2080	100

Fringe Benefits

Fringe Benefits are included in Table 5's, Budget Proposal summary.

Travel

Travel is not included in the budget proposal

Equipment

Registers for retrofits, AMI meters to be replaced, meter boxes to be replaced, lid replacements and endpoints are included in this item. The cost estimate for materials and supplies is based on quotes provided to LBWD from the independent contractor providing the equipment but not installing the equipment.

Supplies and Materials

Materials and supplies are not included in the budget proposal.

Contractual/Construction

While LBWD is hiring an independent Project Management consultant to run the AMI program, these contractual services for this consultant are not included in the budget proposal as the efforts will begin before the potential award of the contract.

Environmental and Regulatory Compliance Costs

The Project is categorically exempt from the provisions of CEQA. A Notice of Exemption has been filed with the County of Los Angeles. These costs are considered minimal and therefore not included in the budget.

Reporting

LBWD is hiring an independent Project Management consultant to run the AMI program who will provide regular reports to the LBWD Project Manager, these services by the consultant are not included in the budget proposal as the efforts will begin before the potential award of the contract. LBWD Project Manager will be reporting to LBWD upper and executive management as well as completing the reports required by Reclamation.

Other Expenses

There are no other expenses.

Indirect Costs

These costs are included in Table 5, the Budget Proposal summary.

Total Costs

The total cost of the project is included in Table 5, the Budget Proposal summary.

SECTION 3: ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE

To allow Reclamation to assess the probable environmental and cultural resources impacts and costs associated with each application, all applicants must respond to the following list of questions focusing on the NEPA, ESA, and NHPA requirements. Please answer the following questions to the best of your knowledge. If any question is not applicable to the project, please explain why. The application should include the answers to:

The project has been evaluated for both CEQA and NEPA compliance and it has been determined that the project is a Notice of Exemption for CEQA. A Notice of Exemption, attached as Appendix 3, has been filed for this project as it falls under the categorical exemptions identified by the State Resources Agency as defined in the CEQA Guidelines (14 CCR Section 15300-15331). It has been determined that the project may have a significant effect on the environment. For CEQA we refer to Article 6. Negative Declaration Process of Sections 15070 to 15075 (Title 14. California Code of Regulations Chapter 3. Guidelines for Implementation of the California Environmental Quality Act):

“A public agency shall prepare or have prepared a proposed negative declaration or mitigated negative declaration for a project subject to CEQA when: (a) The initial study shows that there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment, or; (b) The initial study identifies potentially significant effects, but: (1) Revisions in the project plans or proposals made by, or agreed to by the applicant before a proposed mitigated negative declaration and initial study are released for public review would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur, and; (2) There is no substantial evidence, in light of the whole record before the agency, that the project as revised may have a significant effect on the environment.”

Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

The project is not expected to involve earth-disturbing work or otherwise affect the surrounding environment as there will not be any excavation, only replacement of existing meters and meter vault covers.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area?

There are no known species listed as a Federal threatened or endangered species in the project area.

Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States?" If so, please describe and estimate any impacts the proposed project may have.

Yes, within the LBWD service area, there are two wetlands (Dominguez Gap Wetlands, Los Cerritos Wetlands), as well as two surface water bodies that flow through portions of the City (Los Angeles River, San Gabriel River). However, this project only involves meter replacement and will not have any impacts on wetlands or surface water bodies. In fact, this project will allow the City to detect system leaks and monitor water consumption data, which can then be used to support water quality efforts.

When was the water delivery system constructed?

The LBWD was founded in 1911 and incorporated as a MWD member agency since 1931. LBWD has been diligently replacing potable water infrastructure in order to provide safe and reliable potable water to LBWD's customers.

Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

The proposed project will not result in any modification of individual features of an irrigation system such as headgates, canals, or flumes. Only residential and business customer water meters fall within the service area, and the project will replace those meters with AMI and smart meter technologies.

Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.

There are no buildings, structures, or features in the proposed project area that are listed or eligible for listing on the National Register of Historic Places within this project area.

Are there any known archeological sites in the proposed project area?



There are no known archeological sites in the proposed project area.

Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?

No. In fact, the proposed project will have a highly positive effect on all residents of the City of Long Beach and its surrounding areas including low income, disadvantaged and minority populations. The project will aid in water conservation measures and thereby decrease dependence on water imported from the State Water Project (SWP) and Colorado Aqueduct at a cost higher than local sourcing. This strategy can help limit water rate increases during shortages.

Will the proposed project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?

No, the project will not have any impacts on sacred sites or tribal lands as there are not sacred sites or tribal lands within the City of Long Beach.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

The proposed project will not contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species.



SECTION 4: REQUIRED PERMITS OR APPROVALS

LBWD staff will coordinate with the City of Long Beach staff (i.e. Department of Public Works) but no permits or approvals are anticipated to be required in order to implement the Project.



SECTION 5: LETTERS OF SUPPORT

Per Reclamation’s application guidelines in Section D.2.2.8. Letters of Support, all statements of support from interested stakeholders are included in Appendix 4.

SECTION 6: OFFICIAL RESOLUTION

The Long Beach Water Department (LBWD) has scheduled the following draft Resolution for approval on May 10, 2018. The LBWD will submit the required, adopted Resolution to the Bureau of Reclamation within the specified timeframe.

DRAFT

RESOLUTION NO. 2018 - __

**A RESOLUTION OF THE BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH
APPROVING THE APPLICATION FOR GRANT FUNDS FROM THE BUREAU OF RECLAMATION
WATERSMART: WATER AND ENERGY EFFICIENCY GRANTS FOR
FISCAL YEAR 2018**

WHEREAS, the United States Department of the Interior has provided funds for the WaterSMART: Water and Energy Efficiency Grants for Fiscal Year 2018 program; and

WHEREAS, the Board of Water Commissioners of the City of Long Beach desires to submit an application for grant funds from said program; and

WHEREAS, the Bureau of Reclamation has been delegated the responsibility for the administration of this grant program and establishing necessary procedures; and

WHEREAS, said procedures established by the Bureau of Reclamation require the applicant to certify by resolution the identity of the official with legal authority to enter into an agreement; that the appropriate official or governing body has reviewed and supports the application submitted; the capability of the applicant to provide the amount of funding and/or in-kind contributions specified in the application funding plan; and that the applicant will work with the Bureau of Reclamation to meet established deadlines or entering into a cooperative agreement; and

WHEREAS, the applicant will enter into a cooperative agreement or grant agreement with the Bureau of Reclamation to complete the project(s) if awarded grant funds.

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH HEREBY:

- 1. Appoints the General Manager, or his designee, to act as agent with legal authority to enter into the grant agreement, conduct all negotiations, execute and submit all documents**



including, but not limited to, applications, agreements, payment requests and any other grant required correspondence which may be necessary for the completion of the grant program; and

- 2. Certifies that the Board of Water Commissioners of the City of Long Beach has reviewed and supports the proposed application; and*
- 3. Certifies that the City of Long Beach has sufficient funds available to provide the amount of funding specified in the funding plan as matching funds/in-kind contributions; and*
- 4. Certifies that the City of Long Beach will work with the Bureau of Reclamation to meet established deadlines for entering into a cooperative agreement.*

Introduced, approved, and adopted this 10th day of May 2018.

The Secretary of the Board of Water Commissioners shall certify to the passage of this Resolution and cause a copy of the Resolution to be published pursuant to Government Code Section 6061. This Resolution shall take into effect thirty (30) days after the Secretary's certification.

I hereby certify that this Resolution was adopted by the Board of Water Commissioner of the City of Long Beach at its meeting on _____, 2018 by the following vote:

Ayes: Commissioners: _____

Noes: Commissioners: _____

Absent: Commissioners: _____

*Secretary
Board of Water Commissioners*



APPENDIX 1: PROOF OF SAM REGISTRATION

SAM
SYSTEM FOR AWARD MANAGEMENT

Username: deanywang
Forgot Username?

Password: [Redacted]
Forgot Password?

Log In
Create an Account

HOME SEARCH RECORDS DATA ACCESS CHECK STATUS ABOUT HELP

Entity Dashboard

- Entity Overview
- Entity Registration
 - Core Data
 - Assertions
 - Reps & Certs
 - POCs
- Exclusions
 - Active Exclusions
 - Inactive Exclusions
 - Excluded Family Members

RETURN TO SEARCH

Entity Overview

LONG BEACH, CITY OF
DUNS: 161168257 CAGE Code: 04QL0
Status: Active
Expiration Date: 05/31/2018
Purpose of Registration: All Awards

1800 E WARDLOW RD
LONG BEACH, CA, 90807-4931
UNITED STATES

Entity Registration Summary

Name: LONG BEACH, CITY OF
Doing Business As: WATER DEPARTMENT
Business Type: US Local Government
Last Updated By: Sokhalay Hong
Registration Status: Active
Activation Date: 05/31/2017
Expiration Date: 05/31/2018

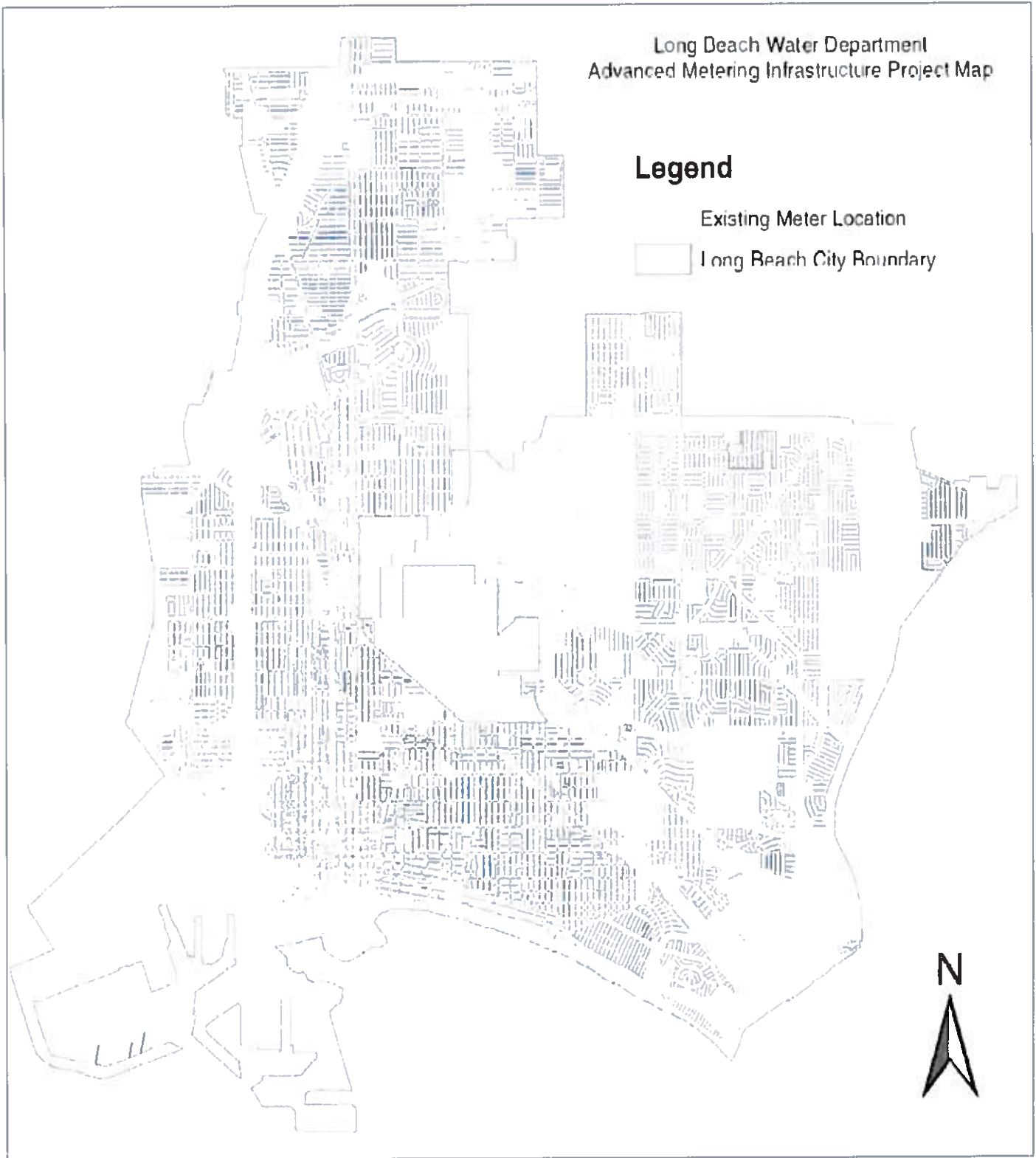
Exclusion Summary

Active Exclusion Records? No

The Long Beach Water Department is an agency of the City of Long Beach. LBWD will renew SAM registration in May 2018 after the submission date for this grant application package.



APPENDIX 2: MAP OF PROJECT AREA





APPENDIX 3: NOTICE OF EXEMPTION FOR CEQA



NOTICE of EXEMPTION from CEQA

DEPARTMENT OF DEVELOPMENT SERVICES
333 W OCEAN BLVD, 5TH FLOOR, LONG BEACH, CA 90802
(562) 570-6194 Fax (562) 570-6068
ldris@longbeach.gov

TO: Office of Planning & Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

FROM: Department of Development Services
333 W Ocean Blvd, 5th Floor
Long Beach, CA 90802

L.A. County Clerk
Environmental Filings (20)
12400 E Imperial Hwy, 2nd Floor, Room 2001
Norwalk, CA 90650

2017 108537

FILED
Apr 28 2017

Categorical Exemption CE: 17-102

Project Location/Address: Multiple locations throughout Long Beach

Project/Activity Description: Replacement of existing water meters with meters that have advanced reading technology capabilities

Public Agency Approving Project: City of Long Beach, Los Angeles County, California

Applicant Name: Long Beach Water Department

Mailing Address: 1800 E Wardlow Rd Long Beach, CA 90807

Phone Number: 562-570-2311

Applicant Signature:

BELOW THIS LINE FOR STATE USE ONLY

Application Number: _____ Planner's Initials: _____

Required Permits: _____

THE ABOVE PROJECT HAS BEEN FOUND TO BE EXEMPT FROM CEQA IN ACCORDANCE WITH STATE GUIDELINES SECTION 15302 Class 2 Replacement or Reconstruction

Statement of support for this finding: Replacement of existing water meters

Contact Person: Craig Chalcraft

Contact Phone: 562-570-6365

Signature:

Date: 4/17/17

THIS NOTICE WAS POSTED

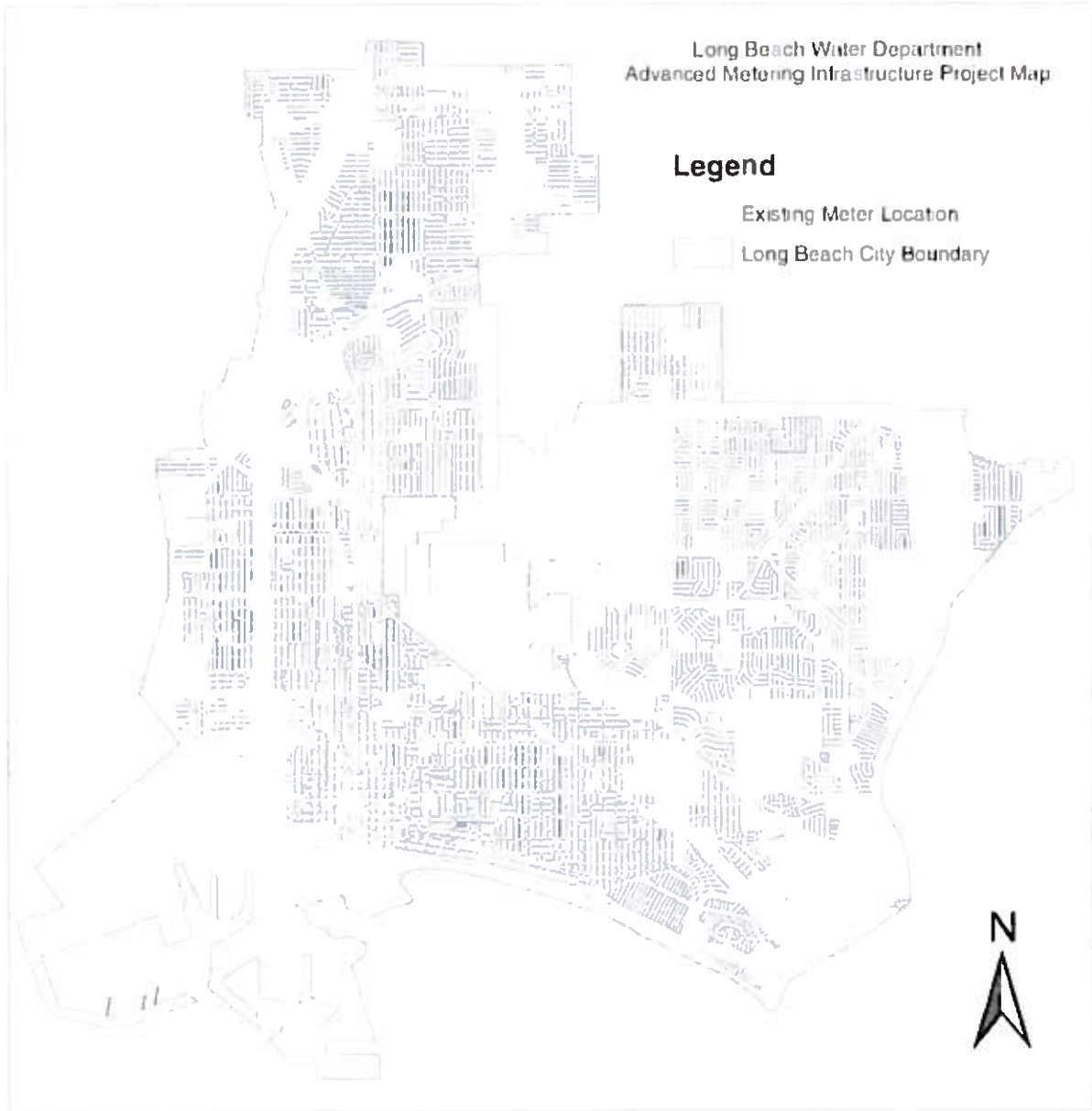
ON April 28 2017

UNTIL May 30 2017

REGISTRAR-RECORDER/COUNTY CLERK

2017 108537
FILED
Apr 20 2017

Seal of the Registrar - American Land Registry
[Small text below seal]



APPENDIX 4: LETTERS OF SUPPORT



MAYOR ROBERT GARCIA
CITY OF LONG BEACH

April 24, 2018

Chris Garner, General Manager
Long Beach Water Department
1800 E. Wardlow Road
Long Beach, CA 90807

Dear Chris,

On behalf of the City of Long Beach, I am pleased to support the Long Beach Water Department's (LBWD) application to secure Bureau of Reclamation WaterSMART Water and Energy Efficiency Program funding to install an Advanced Metering Infrastructure (AMI) Project.

Long Beach is the seventh most populated city in California, and the 39th most populous in the nation, and LBWD has served the nearly half a million residents and businesses for over a century. Long Beach is home to the second busiest port in the nation, a thriving downtown with a dynamic cultural scene, multiple tourist attractions, an award-winning parks department, a local unified school district with 84 schools, and both a two-campus city college and a state university—all distributed through 60 diverse residential neighborhoods and 17 historic districts over 52 square miles on the Southern California coast. Our regional and citywide economic growth and stability rely on continued wise stewardship of our resources, particularly water.

That is why LBWD's application to the WaterSMART Water and Energy Efficiency Program is so critical for our community. By implementing AMI technology, LBWD will create smart, water-saving solutions through technological advancement that conserves the region's precious water resources. The AMI Project will provide LBWD with near real-time water consumption data and improved water management tools to better manage the water system. It will also allow customers to immediately address issues such as water leakage or overuse, thereby reducing water waste and improving water efficiency.

The City of Long Beach recognizes the importance of Southern California water retail agencies such as LBWD, which continue to strive for more efficiency with water supplies. This project will help position LBWD to create a regional model of deploying technological advancements in water management practices that translates into real water and energy savings.

If you have any questions about my support, please do not hesitate to contact my office.

Sincerely,



Mayor Robert Garcia
City of Long Beach

562.576.6801 | mayor@longbeach.gov | @LongBeachMayor
333 West Ocean Blvd., Long Beach, California 90802



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

April 30, 2018

Mr. Josh German, Program Coordinator
Water Resources Planning Division
U.S. Department of the Interior
Bureau of Reclamation
P.O. Box 25007, MS 84-51000
Denver, Colorado 80225

RE: Letter of Support for Long Beach Water Department Advanced Metering Infrastructure Project

Dear Mr. German,

The Metropolitan Water District of Southern California supports the Long Beach Water Department (LBWD) proposal for an Advanced Metering Infrastructure (AMI) project. This project will use proven technology to increase conservation and improve water management. We urge your support for LBWD's application to secure Bureau of Reclamation WaterSMART Water and Energy Efficiency Program funding.

By implementing AMI technology, LBWD will be at the forefront of water management to conserve the region's water resources. The AMI Project will provide LBWD with near real-time water consumption data and improved water management tools to better manage the water system. AMI will also allow customers to immediately address issues such as water leakage or overuse, thereby reducing water waste and improving water efficiency.

Long Beach is one of Metropolitan's 26 public member agencies that together serve 19 million people. LBWD is widely recognized as a leader in conservation and has a successful history of using technology and outreach to lower per capita water use within the seventh most populated city in California. Through regular collaboration among our member agencies, the implementation strategies and knowledge that LBWD gains from this project will be shared across a region with over 300 retail water agencies.

Metropolitan and its member agencies are striving to make conservation a way of life in Southern California and more efficiently use both imported and local water supplies. AMI is a highly effective demand management tool that will contribute to this goal. We appreciate your thorough review of LBWD's proposal and the local and regional benefits it offers.

Sincerely,

Deven Upadhyay
Assistant General Manager and Chief Operating Officer



CALIFORNIA STATE UNIVERSITY, LONG BEACH

PHYSICAL PLANNING & FACILITIES MANAGEMENT

Mr. Josh German, Program Coordinator
Water Resources Planning Division
U.S. Department of the Interior
Bureau of Reclamation
P.O. Box 25007, MS 84-51000
Denver, Colorado 80225

May 2, 2018

On behalf of the department of Physical Planning & Facilities Management at California State University, Long Beach (CSULB), I am writing to express support and to request your support for the Long Beach Water Department (LBWD) application to secure Bureau of Reclamation WaterSMART Water and Energy Efficiency Program funding to install an Advanced Metering Infrastructure (AMI) Project.

By implementing AMI technology, LBWD will create "smart" water saving solutions through technological advancement that conserves the region's precious water resources. The AMI Project will provide LBWD with near real-time water consumption data and improved water management tools to better manage the water system. AMI will also allow customers to immediately address issues such as water leakage or overuse, thereby reducing water waste and improving water efficiency.

CSULB recognizes the importance of Southern California water retail agencies, such as LBWD, continuing to strive for more efficiency with water supplies. This project will help position LBWD to create a regional model of deploying technological advancements in water management practices that translates into real water and energy savings.

Long Beach is the seventh most populated city in California, and the 39th most populous in the nation, and LBWD has served the nearly half a million residents and businesses for over a century. Long Beach is home to the second busiest port in the nation, a thriving downtown with a dynamic cultural scene, multiple tourist attractions, an award-winning parks department, a local unified school district with 84 schools, both a two-campus city college and a state university distributed through 60 diverse residential neighborhoods and 17 historic districts over 52 square miles on the Southern California coast. Long Beach is young, vibrant and diverse, with a median age of 33 years old and 25 percent of our residents under the age of 18. Both our regional and city-wide economic growth and stability relies on continued wise stewardship of our resources, particularly water.

LBWD is an important partner to the university, and has worked collaboratively to advance water conservation and efficiency goals and engage with our campus community in a variety of meaningful and constructive ways. We are happy to have this opportunity to provide this letter of support and thank you for your kind consideration of this request for support of the LBWD application for WaterSMART Water and Energy Efficiency Program Funding to help conserve resources in Southern California.

Sincerely,



Tony Malagrino

Interim Associate Vice President



Confirmation

Thank you for submitting your grant application package via Grants.gov. Your application is currently being processed by the Grants.gov system. Once your submission has been processed, Grants.gov will send email messages to advise you of the progress of your application through the system. Over the next 24 to 48 hours, you should receive two emails. The first will confirm receipt of your application by the Grants.gov system, and the second will indicate that the application has either been successfully validated by the system prior to transmission to the grantor agency or has been rejected due to errors.

Please do not hit the back button on your browser.

If your application is successfully validated and subsequently retrieved by the grantor agency from the Grants.gov system, you will receive an additional email. This email may be delivered several days or weeks from the date of submission, depending on when the grantor agency retrieves it.

You may also monitor the processing status of your submission within the Grants.gov system by clicking on the "Track My Application" link listed at the end of this form.

Note: Once the grantor agency has retrieved your application from Grants.gov, you will need to contact them directly for any subsequent status updates. Grants.gov does not participate in making any award decisions.

IMPORTANT NOTICE: If you do not receive a receipt confirmation and either a validation confirmation or a rejection email message within 48 hours, please contact us. The Grants.gov Contact Center can be reached by email at support@grants.gov, or by telephone at 1-800-518-4726. Always include your Grants.gov tracking number in all correspondence. The tracking numbers issued by Grants.gov look like GRANTXXXXXXXXX.

If you have questions please contact the Grants.gov Contact Center: support@grants.gov
1-800-518-4726 24 hours a day, 7 days a week. Closed on federal holidays.

The following application tracking information was generated by the system:

Grants.gov Tracking Number: GRANT12623115

Applicant DUNS: 16-116-8257

Submitter's Name: Dean Wang

CFDA Number: 15.507

CFDA Description: Water SMART (Sustaining and Manage America's Resources for Tomorrow)

Funding Opportunity Number: BOR-DO-18-F006

Funding Opportunity Description: WaterSMART Grants: Water and Energy Efficiency Grants for Fiscal Year 2018

Agency Name: Bureau of Reclamation

Application Name of this Submission: LBWD AMI

Date/Time of Receipt: May 07, 2018 07:24:49 PM EDT

TRACK MY APPLICATION – To check the status of this application, please click the link below:

https://apply07.grants.gov/apply/spoExit.jsp?p=web/grants/applicants/track-my-application.html&tracking_num=GRANT12623115

It is suggested you Save and/or Print this response for your records.

Proposal for

Grant Writing Consulting Services



Michael Baker
INTERNATIONAL

We Make A Difference



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Section A Methodology/Approach

Task 1: Comprehensive Review of District's Need

A. Review CIP

Over the last two decades, granting agencies have demonstrated an increasing preference for funding programs and projects that will generate multiple benefits. Therefore, the first step in the process is to map and review the District's Capital Improvement Program to identify projects that may be combined. Our planners and engineers will meet with various department heads to assess what smaller or single-purpose projects could effectively be combined into a larger and/or multipurpose project. For those projects that may be combined, Michael Baker's team will draft a description, conceptual drawing, and revised cost estimate.

B. Assess Strengths and Weaknesses of Past Submittals

Michael Baker will gather a list of all grant applications submitted by the District in the past five years. Based on input from District staff and grant agency staff, we will identify the strengths of the applications, and any opportunities for improvement.

Task 2: Identify, Maintain and Update Intel on Grant Funding Programs

Michael Baker will conduct research to identify grant resources and compile a list of grant programs suited to the needs of the District. The District identified a sampling of general areas for funding needs and priorities including:

- Infrastructure Development and Maintenance
- Recycled/Non-Potable Water
- Storm Water
- Water Conservation Initiatives
- Watershed Restoration
- GIS Geographic Information System
- Raw Water and Recycled Water Recharge Projects
- Storm Water Capture Projects

We will review and provide information about potential grant and loan opportunities. A sample of programs include the following:

- State Water Resources Control Board – Proposition 1 Safe Drinking Water Grant Program
- State Water Resources Control Board – Proposition 1 Ground Water Quality Funding Program
- State Water Resources Control Board – Proposition 1 Safe Drinking Water Loan Program
- State Water Resources Control Board – Proposition 1 Technical Assistance
- State Water Resources Control Board - Clean Water State Revolving Fund (CWSRF) program
- State Water Resources Control Board - Drinking Water State Revolving Fund (DWRSF) program
- State Department of Water Resources– Proposition 1 CalConserve Water Use Efficiency Revolving Loan Program
- Proposition 68 (The Clean Water and Parks Act) - the recently passed \$4.1 Billion bond measure for natural resources, state parks and water projects. Water is allocated over \$1.27 billion including flood protection, groundwater recharge, safe drinking water, and water recycling.



- U.S. Department of Agriculture - Rural Utilities Service
- U.S. Department of Agriculture - Water & Waste Disposal Loan & Grant Program
- U.S. Department of Commerce - Economic Development Administration Public Works and Economic Development Program
- U.S. Department of Housing and Urban Development - Community Development Block Grants Program
- U.S. Environmental Protection Agency - Water Infrastructure Finance and Innovation Act
- Ford Foundation
- Rockefeller Foundation
- Walton Family Foundation
- California Water Foundation

Task 3: Match Project to Grant Funds

A. Grant Guidebook and Updates

We will prepare a grant guidebook in an Excel format to be used by District staff. The guidebook will be populated with information about the District's capital improvement projects and possible grant funding programs. The tool may be used by Michael Baker and District staff to identify priority projects that meet grant eligibility requirements, including cost, type of program or infrastructure, availability of local match, and construction preparedness. Michael Baker will also or alternatively provide legislative updates or funding availability reports. An example is the current funding implementation of Senate Bill 1, The Road Repair and Accountability Act of 2017. Several funding programs for cities are available with different guidelines being developed by Caltrans and the California Transportation Commission for distribution of the state revenue.

B. Advice

Based on knowledge about granting programs, the District's needs, characteristics of the District, and characteristics about the project, Michael Baker will review opportunities with the District and advise whether or not to proceed. If the District decides to pursue and to conduct grant writing internally, Michael Baker staff will review draft proposals for quality as well as alignment to the goals of the grant program.

Task 4: Grant Writing

A. Compile Data

A critical component of successful grant applications is data and the ability to communicate about demographic, social, educational, economic, and public health and safety characteristics. Oftentimes grant writers will struggle with compiling data during the grant writing process. Michael Baker will prepare a Data Book with data and sources for locating up-to-date information. For some grant programs, demonstration of community support is paramount. To achieve this, Michael Baker offers a range of community outreach services including, but not limited to, demonstration projects, surveys, crowd-sourced information, and public workshops.



B. Form Grant Writing Team

The first step of the grant writing process is to identify a team of people who will collaborate on preparation of materials. The team includes a grant lead, an associate-level grant writer, technical experts, and a lead person from the District.

The grant lead is a senior level Michael Baker planner or engineer who is responsible for drafting the Grant Application Preparation Plan (GAPP), hosting regular status meetings during the writing process, coordinating quality control, making adjustments as needed to ensure the grant application is submitted on time, and overseeing the work of the associate-level grant writer to ensure resources are committed as needed. The associate-level grant writer is responsible for preparing the application narrative and exhibits. Acquisition of signatures and letters of support may also be the responsibility of the associate-level grant writer at the request of the District. Technical experts are responsible for contributing content for required exhibits and assisting with quality control.

C. Prepare Grant Application Preparation Plan

A GAPP is a master guidance document to support coordination of all components of a complete grant submittal. The GAPP includes a list of all requirements, the name of the person responsible for each component, the schedule, background information, and more. During this step, the grant lead will meet with District staff to go over project details relevant to the application. Such details include timeline, cost, matching funds, strategy for letters of support, and approvals as required from the District Board. If all components of project preparedness are not complete, such as CEQA, the grant lead will provide guidance to District staff as needed.

D. Grant Writing

Michael Baker will be responsible for grant writing with input from District staff. The first step is to deliver an application outline for review and confirmation by District staff. The second step includes revising the outline based on input from the District and preparing a complete draft. The third step involves quality control, delivery of the completed draft application to the District lead, final edits, grant submittal, and delivery of copies to the District.

E. Exhibits and Ancillary Services

Michael Baker's grant lead will work with District staff to prepare accurate and informative documents to meet eligibility requirements and develop complete grant applications. Michael Baker technical team members will prepare exhibits on an a la carte basis or as part of a complete grant application. Exhibits may include maps, charts, concept plans, preliminary engineering, photos, videos, and more. Additionally, the project manager or grant lead will be available to attend meetings and make presentations before District staff and District Council, as agreed upon in the scope for each task order.

Task 5: Post-Submittal Activities

Once grant applications are submitted, Michael Baker will remain available to assist the District.

A. Report Preparation

Michael Baker will, at the request of the District, assist the District with the preparation and submittal of post-award reports that are required under the terms of the grant. Such reports may include labor and other financial reports that require extensive amounts of time by the District's project manager. We will



maintain a database of grant activity and reporting requirements and milestones. To facilitate report preparation, Michael Baker may provide advice or training to District staff, create systems for data collection, and support through the auditing process as may occur from time to time.

B. Debrief

Regardless of whether a grant application is successful, we recommend requesting a debrief with the granting agencies. Michael Baker will coordinate and participate in one debrief for each grant application along with the District lead. In addition, we will draft questions for the debrief, including those regarding future rounds of funding, emergent legislation, and upcoming funding opportunities.

Task 6: Contract and Project Management

For each task order from the District, Michael Baker will prepare an estimated schedule and not-to-exceed cost to perform each service requested. Once a task order has been signed, the project manager will oversee each task order and ensure we stay on budget, within scope, and on schedule. We will work with the District project manager on the preferred billing method, as granting agencies have their own distinct tendencies during the application and post award phases, such as level of technical input to the application, securement of endorsements, communication with the granting agency, and reporting templates following award. These steps affect how project costs are incurred. Possible methods for managing costs include an hourly basis with a not to exceed amount, lump sum per grant or per time interval (quarterly, annual), milestone billing (completion of grant, submission of grant, post award administration, meetings, etc.), or a blend of these. Each has their respective pros and cons, and we are willing to work with the District on a preferred method. For purposes of the proposal and meeting the District's RFP, a cost per year is provided for District budgeting.



Section B District Involvement / Role

As described in the methodology/approach, our steps in identifying and preparing the grant application are outlined, beginning with meeting with District staff to review project needs, to working with staff on providing technical data requirements for the grant application, and ending with conducting a debrief of the application process. Key to coordinating this effort is our responsibility for drafting the Grant Application Preparation Plan (GAPP), a master guidance document to support coordination of all components of a complete grant submittal. The GAPP includes a list of all requirements, the name of the person responsible for each component, the schedule, background information, and more. During this step, the grant lead will meet with District staff to go over project details relevant to the application. Such details include timeline, cost, matching funds, strategy for letters of support, and approvals as required from the District Board.

District staff play an integral role in the success of grants. While we understand the demands placed on staff in their daily responsibilities, internal knowledge and expertise of the water infrastructure needs is critical to accurately explain to the grantor agencies why the District should receive the grant. The grant application typically must demonstrate specific requirements such as detailed project description, impacts to the community, projected benefits, cost, and financing. Michael Baker will lead the effort on defining and completing the application technical requirements, we will also rely, to a degree, on District staff for additional insight on technical data expertise and available documents as needed. We intend to prepare grant applications in close coordination with the District.

Our approach described in the prior section identifies where District involvement will likely be needed. They include the following areas:

- We will work with the District to identify a lead contact at the District to provide the gateway to District data and resources.
- We will review the District's Capital Improvement Program to identify projects that may be combined. Our planners and engineers will meet with various department heads to assess what smaller or single-purpose projects could effectively be combined into a larger and/or multipurpose project.
- We will identify the strengths and weaknesses of past District grant applications, and any opportunities for improvement based on input from District staff and grant agency staff.
- We will review and provide information to the District for input about potential grant and loan opportunities that could meet the District's area priorities for funding needs.
- We will prepare a grant guidebook for District staff's use with information about the District's capital improvement projects and possible grant funding programs. District input on the guidebook would be requested.
- We will review grant opportunities with the District and advise whether or not to proceed. The District helps make the go/no decision.
- District staff will review and confirm the data prepared for the grant application.
- We will assist District staff with submittal of the grant application.
- We will conduct a debrief with District staff regardless of the outcome of the grant process to develop greater efficiencies and coordinated effort for future opportunities.



Section C Statement of Qualifications

1. Professional Qualifications

Michael Baker is a recognized leader in providing engineering, development, intelligence, and technology solutions with global reach and mobility. This includes a full range of services geared toward infrastructure development spanning public finance, engineering, transportation, geographic information technology, planning, and municipal services. We attribute our success to our focus on understanding and meeting our clients’ needs in the most efficient and creative manner possible. No matter what the assignment, Michael Baker operates as an extension of staff to ensure a team approach in identifying effective strategies for resolving project challenges. With office locations throughout Northern and Southern California, we offer a local perspective enhanced by our broad experience to help clients achieve a successful outcome. Southern California offices providing project support are located in Carlsbad, San Diego, Santa Ana, Long Beach, Ontario, Los Angeles, Temecula, and Palm Desert.

Our staff for grant writing consulting services includes specialists in municipal finance, traffic engineering, planning, land development, and environmental. These staff members are technical experts in various capital and infrastructure project disciplines, enhancing our capabilities to identify, prepare, and administer grant applications and awards and ensuring that we remain on the forefront of infrastructure funding opportunities. Our personnel operate as an extension of city staff to respond directly to the requirements of the municipalities we serve. Michael Baker staff has secured more than \$15 million in grant funds for its clients over the past several years.

1.a. Previous Funded Grants

Grant Writing for EMWD’s Cottonwood Avenue Recycled Pipeline (West) | Perris, CA

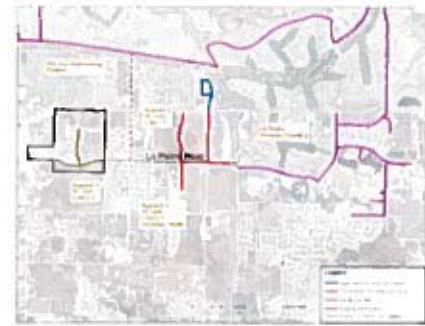
The objective of this project was to prepare, apply, and submit a grant request for Eastern Municipal Water District (EMWD) through the State Water Resource Control Board Clean Water State Revolving Fund (CWSRF) – Water Recycling Funding (Prop 1). This grant was specifically written for the Cottonwood Avenue Recycled Pipeline (West) facility.

A specific report was prepared as part of this grant using recommended pipelines proposed in EMWD’s Recycled Water Facilities Plan. The report outlined the beneficial retrofit of constructing the Cottonwood Recycled Pipeline in order to bridge the recycled water system to end users and converting irrigation demands off of domestic water. The estimated project costs were totaled to \$2 million.

Client
Eastern Municipal Water District (EMWD) 2270 Trumble Road P.O. Box 8300 Perris, CA 92572-8300 Ms. Bonnie Wright 951-928-3777
Funding Source
Clean Water State Revolving Fund
Amount Requested
\$1,000,000
Amount Funded
\$1,000,000



The process included the application through the state’s online Financial Assistance Application Submittal Tool (FAAST) to submit a grant request. The FAAST application included several tabbed sections that were hyperlinked to various documents. The specific tabs consisted of: “General Information”, “Funding”, and “Attachments”. Design of the pipeline commenced during the grant processing. The approved grant allowed EMWD to continue into construction. Construction of the recycled pipeline was finalized in May 2018.



Grant Writing for EMWD’s La Piedra Recycled Pipeline Expansion Project | Riverside County, CA

The objective of this project was to prepare, apply, and submit a grant request for Eastern Municipal Water District (EMWD) through the State Water Resource Control Board Clean Water State Revolving Fund (CWSRF) – Water Recycling Funding (Prop 1). This grant was specifically written for three distinct recycled water pipeline segments along La Piedra Road in the City of Menifee.

A specific report was prepared as part of this grant using recommended pipelines proposed in EMWD’s Recycled Water Facilities Plan. The report outlined the beneficial retrofit of constructing the La Piedra Recycled Pipeline Segments in order to bridge the recycled water system to end users and converting irrigation demands off of domestic water. The estimated project costs were totaled to approximately \$1.8 million.

The process included the application through the state’s online Financial Assistance Application Submittal Tool (FAAST) to submit a grant request. The FAAST application included several tabbed sections that were hyperlinked to various documents. The specific tabs consisted of: “General Information”, “Funding”, and “Attachments”. Design of the pipeline commenced during the grant processing. The approved grant allowed EMWD to continue into construction. Construction of the recycled pipeline segments were finalized in November 2017.

Client

Eastern Municipal Water District
(EMWD)
2270 Trumble Road
P.O. Box 8300
Perris, CA 92572-8300
Ms. Bonnie Wright
951-928-3777

Funding Source

Clean Water State Revolving Fund

Amount Requested

\$900,000

Amount Funded





San Luis Obispo APCD Strategic Growth Council/Prop. 84 Planning Grant Assistance | California

Michael Baker collaborated with the San Luis Obispo Air Pollution Control District (APCD) and the cities of Arroyo Grande, Atascadero, Grover Beach, Morro Bay, Paso Robles, and Pismo Beach to prepare and submit a joint planning grant application to the Strategic Growth Council (SGC). The joint application was submitted to the SGC's Focus Area # 3: Regional Planning Activities with Multiple Partners to support collaboration between cities to develop or implement regional plans that meet the intent of SB 732, including the preparation of countywide Climate Action plans. Michael Baker provided application assistance, including assistance framing the project scope of work for maximum competitiveness based on program objectives, priority considerations, and evaluation criteria; completion of a draft application (including required attachments) for review by APCD and City staff; coordination with APCD and City staff to obtain required documents and information necessary to complete the application; and production and submission of the application on or before the application deadline.

Client

San Luis Obispo County Air Pollution Control District
3433 Roberto Court
San Luis Obispo, California 93401

Funding Source

SGC Transformative Climate Communities Program

Amount Requested

\$250,000

Amount Funded

\$250,000

Civil Engineering, Environmental Engineering and Construction Management Services Agreement | Prince George's County, Maryland

Michael Baker assisted the county's department of environmental services in acquiring grants to support the department's goals. Michael Baker's services included data collection and analysis, identification and vetting of grant opportunities, coordination with potential funding sources, grant opportunity tracking, development of grant writing resources, and grant proposal production.

Kickoff Meeting and White Paper

In a kickoff meeting, Michael Baker met with the county's task manager to establish the initial protocols for the project and the parameters for the types of grants to be pursued. These parameters included the minimum size of the grants, the grant preparation and review process, cost share requirements for the grants, the services and resources that were to be funded by the grants, grant reporting requirements, opportunities for multi-year and multi-award funding, previous history between the county and funding agency, and the funding agencies' financial health and reputation.

Client

Prince Georges County Government
County Administration Building
14741 Governor Oden Bowie Drive
Upper Marlboro, Maryland 20772-3050

Funding Source

Chesapeake Bay Stewardship Fund;
Maryland Smart Energy Communities Grant

Amount Requested

\$200,000

\$100,000

Amount Funded

\$200,000

\$100,000



Michael Baker prepared and distributed meeting minutes that described the protocols and a white paper describing the characteristics of the grants to be pursued; the county's approval process; and the management, tracking, and execution process for grants that are awarded.

Identification and Vetting of Grant Opportunities

Based on the process and desired grant characteristics described in the white paper, Michael Baker worked with the county to identify the available grant opportunities that met the characteristics. Michael Baker reviewed the awards that had been granted to the county in the past to identify government and nonprofit grant organizations and grant opportunities that matched the county's needs. Michael Baker recommended grant resources and grant opportunities to pursue and worked with the county to refine the list.

Agency Coordination

Michael Baker met with potential grant sources to identify their preferences and requirements for grant submissions. The agencies included the Maryland Departments of the Environment, Maryland Department of Natural Resources, Maryland Emergency Management Agency, U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, U.S. Geological Society, National Fish and Wildlife Foundation, National Oceanic and Atmospheric Administration, National Science Foundation, and the Federal Emergency Management Agency.

Following the interviews, Michael Baker prepared a summary of findings and used the summary to update the white paper with descriptions of the grant sources and grant opportunities, how the opportunities meet county needs, and key requirements for the preparation of successful grant proposals and the execution of successful grant-funded projects.

Grant Opportunity Tracking

Michael Baker developed a tracking system of the funding resources and grant opportunities, including advertising schedules and grant requirements. Michael Baker worked with the county to identify teaming partners to develop grant concepts and to identify the funding needs and sources of the required county match.

Based on a list of planned projects that was provided by the county, Michael Baker identified opportunities for the funding of the projects and tracked the projects for potential grant opportunities.

Grant Writing Preparation and Development

Michael Baker identified the technical specialists who could best prepare and write the proposal for each grant opportunity. For each grant, Michael Baker prepared a responsibility matrix and schedule that included grant requirements; grant outline and page limits; Michael Baker, teaming partners, and county staff responsibilities; grant production schedule; draft organization chart; schedule of coordination meetings; graphical support; required forms; and schedule for proposal printing and delivery. Specific grant applications included the Maryland Smart Energy Communities Grant, Maryland CoastSmart Communities Grant, and the National Fish and Wildlife Foundation Chesapeake Bay Stewardship Fund Implementation Grant.



Grant Tracking and Reporting

Michael Baker tracked some of the active grants that were awarded to the county, including status updates and required reports, and provided updates regarding grants that were not meeting schedules, budgets, or quality of content.

Watershed Planning, Grant Writing, Design, Permitting, Construction Services, and Water Quality Monitoring | Albemarle, North Carolina

Since 2004, Michael Baker has been implementing a holistic watershed approach to identify, prioritize, and develop flood control and water quality projects. The city has historically experienced severe flooding and surface water quality problems. The city sustained \$1.6 million in property damage from Hurricane Danny in 1997. In addition, the State of North Carolina placed Little Long Creek on the Section 303(d) list for impaired waters in 1998. Michael Baker's water resources services have included the following projects:

Client

City of Albemarle, North Carolina
PO Box 190
Albemarle, North Carolina 28002-190

Funding Source

Clean Water Management Trust Fund

Amount Requested

\$700,000

Amount Funded

\$700,000

The Little Long Creek Watershed Improvement Project

Michael Baker completed a stream assessment and comprehensive hydrologic, hydraulic, and water quality modeling for a 32-square mile watershed. Michael Baker identified 54 potential stream restoration and stormwater best management practice (BMP) sites, and then prioritized them, based on a detailed cost-benefit analysis.

Clean Water Management Trust Fund (CWMTF) Grant Writing

Michael Baker wrote a grant application to the CWMTF seeking funds for the highest-priority site identified in the planning project. Funding was awarded for the Don Montgomery Park constructed wetland site in February 2008.

Don Montgomery Park Constructed Wetland

Michael Baker designed a constructed wetland, which involved draining a 95-acre commercial and residential watershed. The wetland will improve water quality and ecological function of Little Long Creek, while providing an environmental education opportunity for the citizens of Albemarle. Michael Baker completed the design in January 2009 and began construction management services in June 2009.

Water Quality Monitoring Plan

A CWMTF grant requirement is the implementation of a stormwater monitoring plan. Michael Baker wrote a water quality monitoring plan (WQMP) for the city to use as technical guidance for writing annual water quality reports for the CWMTF. The WQMP follows protocols outlined by the U.S. Environmental Protection Agency and the North Carolina Division of Water Quality for project management, data collection, analysis, and reporting.

Value-Added

Michael Baker leveraged funding from the North Carolina Clean Water Management Trust Fund for the construction of a constructed wetland. This funding agency only funds 67 percent of the total project



cost and Michael Baker was able to create in-kind services that the city performed in lieu of matching with cash. The city would have not been able to fund its portion of the project with cash, so this approach was vital to the completion of the project.

Grants the District Would Qualify For

A sample of potential grant funding the District would qualify for. These would be vetted by Michael Baker for applicability to specific priority infrastructure needs of the District.

- State Water Resources Control Board – Proposition 1 Safe Drinking Water Grant Program
- State Water Resources Control Board – Proposition 1 Ground Water Quality Funding Program
- State Water Resources Control Board – Proposition 1 Safe Drinking Water Loan Program
- State Water Resources Control Board – Proposition 1 Technical Assistance
- State Water Resources Control Board - Clean Water State Revolving Fund (CWSRF) program
- State Water Resources Control Board - Drinking Water State Revolving Fund (DWRSF) program
- State Department of Water Resources– Proposition 1 CalConserve Water Use Efficiency Revolving Loan Program
- Proposition 68 (The Clean Water and Parks Act) - the recently passed \$4.1 Billion bond measure for natural resources, state parks and water projects. Water is allocated over \$1.27 billion including flood protection, groundwater recharge, safe drinking water, and water recycling.
- U.S. Department of Agriculture - Rural Utilities Service
- U.S. Department of Agriculture - Water & Waste Disposal Loan & Grant Program
- U.S. Department of Commerce - Economic Development Administration Public Works and Economic Development Program
- U.S. Department of Housing and Urban Development - Community Development Block Grants Program
- U.S. Environmental Protection Agency - Water Infrastructure Finance and Innovation Act
- Ford Foundation
- Rockefeller Foundation
- Walton Family Foundation
- California Water Foundation

1.b. Example of Grant Application

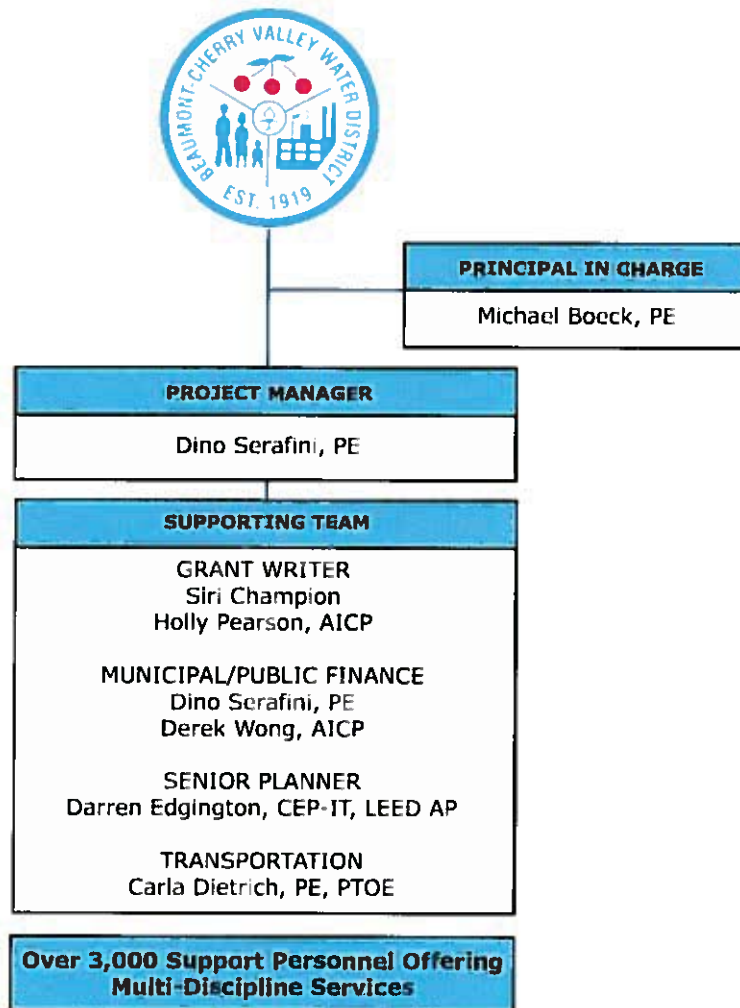
An example of a successfully funded grant application is supplied in the Appendix of this proposal.



2. Project Team

Michael Baker International, a global leader in engineering, planning, and municipal consulting services, has been partnering with communities since 1940 to solve their most complex infrastructure challenges with a legacy of expertise, experience, innovation, and integrity. Supported by more than 6,000 employees in 90 offices worldwide, we provide a comprehensive range of innovative services and solutions to support federal, state, and municipal government agencies as well as a wide range of private development and other commercial partners. Michael Baker is the 13th largest transportation consultant in the United States, and our international presence allows us to provide services to clients around the world.

Organization Chart





3. Resumes

Dino Serafini, PE | Project Manager

Mr. Serafini has over three decades of public infrastructure planning, financing, design, and construction management experience in California working with city, county, school district, military, and private clients. He has facilitated the formation of several special financing districts that were specifically created to finance and maintain facilities serving both new communities and redevelopment projects. Mr. Serafini has extensive experience in the development of public facilities financing plans, cost estimates, phasing plans, threshold criteria, and the financial implications of land development policies.

Experience

Wastewater Treatment Plant Financing, California. City of Williams. Project Engineer. Assessment Engineer. The City's proposed wastewater treatment plant was estimated to cost \$27.3 million and would result in cleaner water discharge, bringing the City into compliance with federal and state clean water regulations as well as serving existing agricultural, commercial, industrial, and residential users and accommodating future growth. Michael Baker's Municipal Finance Group provided all assessment engineering and Proposition 218 ballot services for Assessment District 2007-1. In addition, Michael Baker created guidelines and policies for establishing community facility districts to fund services and debt financing.

Proposition 1 Storm Water Grant Program. County of San Mateo. Grant Writer. Responsible for completing recent grant application for Belmont Creek Watershed Restoration and Flood Management project. Coordinated with County resources to prepare technical grant application including meeting all State Coastal Conservancy Proposition 1 Grant Program Guidelines. Grant writing encompassed detailing the need for the project, goals and objectives, scope of work, work products, measuring success, budget and schedule. Maps, graphics, and permits were provided. The grant application is currently being reviewed by the grantor agency.

Cost Allocation Review & Sewer Rate Study, Arizona. Town of Winkelman. Project Engineer. Responsible for developing cost of providing wastewater treatment services, estimating annual revenue requirements, and allocating cost to rate payer classes. Michael Baker reviewed and revised sewer user charges, determined connection fees, and evaluated rate options for recovering costs from the Town of Hayden. At the study's conclusion, Michael Baker provided an estimated value of the sewer system, a review and update of the sewer ordinance, and a sewer rate study. Michael Baker also managed the project to connect the town's sewer system with the Town of Winkelman's sewer system and treatment plant.

Imperial Water & Sewer Rate Study, California. City of Imperial. Project Engineer. Responsible for developing the cost of providing water and wastewater treatment, collection and disposal services, developing revenue requirements, and recommended water and sewer rates. Michael Baker prepared a utility rate study for Imperial, to determine (1) water user rates based on the actual costs of providing water supply, treatment, and distribution services to the City's customers and fund future capital infrastructure needs; and (2) wastewater system collection and treatment costs and rates necessary to support such costs. Michael Baker completed a report of the costs and billing rates for water and wastewater services; identified and analyzed current and future costs of providing utility

Years with Michael Baker: 12
Years with Other Firms: 10

Degrees

Graduate Studies, Civil Engineering, San Diego State University

M.A., 1978, Environmental Policy and Management, University of California, Riverside

B.S., 1976, Resource Economics, University of California, Riverside

Licenses/Certifications

Professional Engineer - Civil, California, 1993. C051164

Hourly Rate to be Charged

\$170.00



services; established cost of service/determined revenue requirements and rate structures; prepared rate recommendations; and prepared and submitted a draft report.

Twain Harte CSD Water and Sewer Rates Study, California. Flint Strategies. Project Engineer. Responsible for cost of service analysis and revenue requirements for wastewater operations. Recommended updated sewer rates. The district's comprehensive strategic planning effort included evaluation of its revenue requirements and long-term capital needs for its water and sewer enterprises. As a subconsultant to Flint Strategies, Michael Baker completed an assessment and analysis of the district's rate structure to determine if the current rate schedules can support the water and wastewater infrastructure investments required to maintain services to its approximately 2,600 customers.

Chula Vista PFFP/FIA for Otay Ranch Villages 8 West and 9, California. City of Chula Vista. Project Manager. Responsible for writing and editing all sections of the PFFP and preparing the Fiscal Impact Analysis. Michael Baker prepared public facilities finance plans (PFFP) and fiscal impact analyses for the Otay Ranch Village 8 West and Village 9 development projects. The purpose of the PFFP is to identify the means of financing the construction and acquisition of the roadways, parks, water and sewerage infrastructure, libraries, fire stations, schools, and other public facilities. Michael Baker performed an analysis of all potential funding sources for providing the public improvements needed for new development, including impact mitigation fees, infrastructure financing districts, special tax districts, and other funding sources.

Economic/Fiscal Impact/Utility Rate Analysis, Arizona. Town of Hayden. Project Engineer. Responsible for developing cost of providing wastewater treatment services, estimating annual revenue requirements, and allocating costs to rate-payer classes. Michael Baker prepared an economic/fiscal analysis of proposed sewer system improvements; a rate study/cash flow analysis to determine revenue requirements to cover the town's sewer collection, transmission, and treatment costs; and interagency agreements for joint capital, operating and maintenance costs for wastewater treatment. Michael Baker also updated the town's sewer ordinance to reflect the new rate structure.



Michael Boeck, PE | Principal In Charge

Mr. Boeck provides design engineering for water and wastewater projects that include domestic and recycled water and sewer pipelines, lift stations, booster pump stations, water reservoirs, and pressure reducing stations. Mr. Boeck provides corrosion design using galvanic or impressed current cathodic protection systems. He is also experienced in conducting soils resistivity surveys, and in the preparation of detailed plans for the construction of cathodic protection facilities for pipelines and steel tanks.

Experience

La Piedra Recycled Pipeline Expansion Project Grant Writing, Riverside County, California. *Eastern Municipal Water Dist.* Project Manager. Provided management duties for the grant writing for funding a recycled water pipeline facility in the City of Menifee. Michael Baker was tasked with preparing, applying, and submitting a grant request for the client through the State Water Resource Control Board Clean Water State Revolving Fund (CWSRF) – Water Recycling Funding (Prop 1). This grant was specifically written for three distinct recycled water pipeline segments along La Piedra Road in the City of Menifee.

Cottonwood Avenue Recycled Pipeline Grant Writing, Riverside County, California. *Eastern Municipal Water Dist.* Project Manager. Provided engineering and design duties for the development of the recycled water pipeline in the City of San Jacinto. Michael Baker was tasked with preparing, applying, and submitting a grant request for the client through the State Water Resource Control Board Clean Water State Revolving Fund (CWSRF) – Water Recycling Funding (Prop 1). This grant was specifically written for the Cottonwood Avenue Recycled Pipeline (West) facility.

Recycled Water Feasibility Study and Reverse Osmosis Water Treatment Plant, California State Polytechnic University, Pomona, California. *Cal Poly Pomona Foundation, Inc.* Civil Engineer. Responsible for civil engineering. Michael Baker provided planning, feasibility study, preliminary and final design, cost estimating, environmental permitting, grant application assistance, construction management and start-up assistance for a new one-million-gallons-per-day brackish groundwater reverse osmosis (RO) water treatment plant (WTP). The project is located on Perry's Island, a prominent site visible at the main entry to the university campus. The project required review and approval by an architectural review committee for building aesthetic requirements and was designed to conform to LEED® Silver targets. Michael Baker was the lead consultant for well water quality analysis and design and completed the initial detailed design drawings for grant application within 15 days using a large project team over a holiday period. The project won ASCE's Riverside/San Bernardino County Branch 2015 Outstanding Private Section Civil Engineering Project Award.

Big Bear Lake Department of Water and Power 2010 and 2011 Pipeline Replacement Project (City of Big Bear Lake and Surrounding Communities, California). Michael Baker prepared design plans and specifications for the replacement of approximately 30,000 linear feet of distribution pipeline within the residential streets in the City of Big Bear Lake. The focus of the replacement was to increase existing pipeline diameters to handle fire flow events and to replace aging and deficient infrastructure. Timely completion of the project was necessary due to grant funding from USDA. The project had unique issues such as replacing pipelines within a new alignment corridor in narrow, curved, and steep roadways that were already crowded with existing utilities.

Years with Michael Baker: 18

Years with Other Firms: 4

Degrees

B.S., 1996, Environmental Engineering,
University of California, Riverside

Coursework, 0, Environmental
Engineering, University of California,
Riverside

Licenses/Certifications

Professional Engineer - Civil, California,
2003, 66417

Professional Engineer - Civil, Nevada,
2007, 19027

Hourly Rates to be Charged

\$230.00



Siri Champion | Grant Writer

Ms. Champion is a senior planner at Michael Baker International with experience managing special projects including the preparation of plans to address active transportation, sustainability, renewable energy, open space, and community development, tourism, and health, wellness, and recreation. She accumulated experience worked across public, private, nonprofit and academic sectors where she has taught, conducted, built partnerships, secured grant funding, and worked as both a current and long-range planner. Key accomplishments include attracting unprecedented rates of public participation, securing over a million grant-funded dollars for active transportation, conservation, and sustainable community planning, developing policies for and managing special events in public spaces, and serving as a trusted liaison for diverse stakeholder populations. Ms. Champion's passion is for helping communities sustainably manage fiscal, natural, cultural, and social resources by leveraging intergenerational participation and developing cross-sectoral partnerships.

Years with Michael Baker: 3

Years with Other Firms: 15

Degrees

M.A., 2008, Urban Planning, University of Southern California

B.A., 2000, Geography and Urban Planning, Macalester College

Hourly Rates to be Charged

\$159.00

Experience

City of Big Bear Lake On-Call. *City of Big Bear Lake.* Project Manager. Responsible for grant writing to support implementation of an Active Transportation Plan. Helped the City of Big Bear Lake acquire approximately \$2.5 million dollars for pedestrian and bicycle infrastructure improvements.

Renewable Energy Value-Added Evaluation and Augmentation Leadership Initiative. *San Bernardino County.* Negotiated grant contract and refined scope of project with California Energy Commission. The purpose of the project was to evaluate existing market conditions and revise the County of San Bernardino General Plan Renewable Energy Element to address market-based challenges and opportunities for increasing both distributed and industrial-scale solar photovoltaic and wind energy generation.

Templeton - Atascadero Pathway (TAP). *San Luis Obispo Council of Governments.* Senior Planner. Responsible for writing successful Active Transportation Program grant application. The proposed Class I multi-use path is located in San Luis Obispo County in an undeveloped area that spans the Paso Robles River between the cities of Templeton and Atascadero. The trail will connect Vineyard Drive at S Main St and the Anza Trail in Atascadero.

Station Area Plan EIR, Merced, California. *City of Merced.* Outreach Leader. Responsible for leading community engagement including the coordination and delivery of two public workshops and providing stakeholder advisory committee support to the prime consultant. As a subconsultant to Mott McDonald, Michael Baker is providing planning and environmental services to the City of Merced to complete a Station Area Plan based on a grant from the California High-Speed Rail Authority.

Partnership for Renewable Energy & Conservation. *San Bernardino County.* Managed development of a Renewable Energy Element for the General Plan. Consulted with diverse and vocal constituency and facilitated discussion about context-sensitive renewable energy development that seeks balance between goals of residents, developers, and County leaders. In addition, managed the California Energy Commission grant that funded the work effort.

Previous Work History - City of Big Bear Lake, Associate Planner, 2008-2014. Responsibilities included long-range and current planning, grant writing, grant and project management, community outreach and facilitation, policy writing, GIS administration, permit software implementation and user support.



Holly Pearson, AICP | Grant Writer

Ms. Pearson is an urban planner specializing in creating sustainable, livable, inclusive communities. Ms. Pearson has experience working in urban and community planning with local governments and NGOs in the United States, Canada and Latin America. Her expertise includes long-range planning, current planning, urban sustainability policy, and community-based planning. Her areas of expertise include: aligning land use and transportation to reduce environmental impacts of cities; developing and enacting policies related to urban sustainability; developing and implementing specific plans and area plans; zoning code amendments, general plan amendments; social and economic equity in land use planning; designing innovative strategies for community outreach and public participation; and grant writing, grant management and reporting.

Experience

City Manager’s Office. City of Elk Grove. Wrote successful grant application for \$300,000 for the California Department of Transportation’s (Caltrans) 2018 SB1 Adaptation Planning Grants program, to fund the preparation of a Mobility Resilience Plan for the City of Elk Grove. The purpose of the Mobility Resilience Plan is to develop responses to climate change impacts on the city’s transportation system.

Planning and Zoning Division. City of Oakland. Contributed to successful application for \$2 million TIGER (Transportation Investments Generating Economic Recovery) II Planning Grant from the U.S. Department of Transportation and Department of Housing & Urban Development. The grant funded the preparation of the West Oakland Specific Plan and an infrastructure and utilities plan for the Oakland Army Base Redevelopment Area. Served as project staff for West Oakland Specific Plan following award of grant.

Grant Writing Support and Grant Management. City and County of San Francisco, Recreation and Park Department. Contributed to successful grant applications for park planning and capital projects for park construction. Grants received include an Urban Greening for Sustainable Communities grant (\$599,809) from the California Natural Resources Agency for construction of Noe Valley Town Square, and a San Francisco Bay Area Conservancy Grant (\$500,000) from the California State Coastal Conservancy for a conceptual park plan for the 900 Innes Avenue property. Served as staff planner for both projects before and after award of grant funds.

Grant Writing and Grant Management. Ecocity Builders. Primary author for successful grant application to U.S. Department of State (\$221,375). Grant funded the Urbinsight project focused on mapping and education for community resilience and sustainability in secondary cities in Latin America (Cuzco, Peru and Medellín, Colombia). Lead staff for grant management and reporting for a previously awarded grant from the Organization of American States’ Sustainable Cities in the Americas funding program.

Urbinsight: Geospatial Mapping and Education for Community Sustainability in Latin American Cities. Ecocity Builders. Program Manager. Developed and launched implementation of community-based planning and mapping initiative aimed at improving urban governance and sustainability in Lima and Cuzco, Peru and Medellín, Colombia. Developed partnerships with government agencies, academic institutions, and community organizations in partner cities. Prepared successful project funding proposal and wrote grant progress reports to the U.S. Department of State and the Organization of American States.

Years with Michael Baker: 1

Years with Other Firms: 11

Degrees

M.A., Community and Regional Planning,
University of British Columbia

B.A., Environmental Studies, The Evergreen
State College

Licenses/Certifications

American Institute of Certified Planners,
2009, 023373

Hourly Rates to be Charged

\$150.00



Derek Wong, AICP | Municipal / Public Finance

Mr. Wong has several years of project management and consulting experience specializing in transportation and infrastructure financing of public facilities. He has managed complex engagements that require the identification and analysis of revenues and costs for local and regional projects and programs, including for the transportation and development communities. He has developed various revenue strategies and funding mechanisms that involve consensus building with local community stakeholders and governing boards to bridge funding shortfalls in operations and with capital facilities. Mr. Wong also conducts organizational performance audits of regional planning agencies and provides recommendations for process improvement and compliance with state law. He has taught seminars on public financial management to planning and finance professionals throughout California, with coursework including revenue strategies and financial planning techniques. His work focuses on project management, infrastructure financing, fiscal and economic analysis, and user and impact fees.

Years with Michael Baker: 13
Years with Other Firms: 10

Degrees

M.B.A., 1995, Economics/Business,
California State Polytechnic University,
San Luis Obispo

B.S., 1993, Environmental Analysis and
Planning, University of California, Davis

Licenses/Certifications

American Institute of Certified Planners,
California, 2001, 016553

Hourly Rates to be Charged

\$150.00

Experience

Transit Oriented Development Grant Application. *City of Palmdale.* Assist in preparing TOD grant application to fund a multi-modal downtown circulation plan. Coordinate details of the grant application with city staff.

Transit Cost Allocation Study. *San Bernardino Associated Governments.* Managed the development of indirect labor cost rates for general and administrative cost allocations for a major transportation provider. The allocations are factored into the calculation of billable hourly rates that could be applied to government grants, fees, federal reimbursements, and other billings. Also developed a modal cost allocation plan that spreads indirect and direct cost among transit service modes using performance statistics as the basis for the allocation.

Development Impact Fee Study. *City of Willows.* Prepared a nexus analysis for updating the City's development impact fees. Reviewed future land uses, service standards, and demographic forecasts. Developed new fee categories for public infrastructure financing including transportation, public safety, wastewater, and library.

Supplemental Environmental Impact Report for the Santana Ranch Specific Plan, California. *San Benito County.* Analyst. Responsible for peer review of fiscal impact analysis. Michael Baker prepared the Supplemental Environmental Impact Report for the Santana Ranch Specific Plan proposal, assessing project impacts such as including traffic, biology, water resources, air quality, noise, and project aesthetics. The Specific Plan included 1,092 dwelling units, a neighborhood commercial district, a mixed-use area, parks, and an elementary school.

Municipal Service Review. *Sutter County.* Managed the finance review component of the municipal service review. Analyzed the financial capacity and budget parameters of cities and special districts. Developed findings related to each agency's current financial condition and ability to fund capital facilities and operations and maintenance.

Fiscal Impact Analysis. *Butte County.* Managed a fiscal analysis for development proposed by local developer interests. The fiscal impacts determined the County's and special districts' services cost and the new revenues that are expected to be generated over the 20-year period from residential, neighborhood retail, and industrial land uses.



Darren Edgington, CEP-IT, LEED AP | Senior Planner

Mr. Edgington has many years of experience in the planning field with his involvement on numerous land use planning and environmental compliance projects. His primary responsibilities at Michael Baker include the management of projects and staff, and preparing Environmental and Planning studies for public and private sector clients in compliance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). Mr. Edgington has broad experience conducting research, analysis, and writing of environmental documentation for a variety of projects involving infrastructure, transportation, water and wastewater facilities, commercial and residential development. Using his experience and understanding of environmental constraints, Mr. Edgington incorporates the results from client/applicant information, site visits and complex technical documents to substantiate conclusions in environmental compliance documentation. Mr. Edgington has also been involved in preparing environmental documentation for a range of highly controversial projects subject to scrutiny by the general public, environmental organizations, and public agencies.

Years with Michael Baker: 21
Years with Other Firms: 8

Degrees

Certificate, 2000, Urban Planning and Development, University of California, San Diego

B.A., 1988, Art/Graphic Design, San Diego State University

Licenses/Certifications

LEED Accredited Professional BD+C, California, 2009, 10130203

Certified Environmental Professional In Training, 2015

Hourly Rates to be Charged

\$ 160.00

Experience

Recycled Water Feasibility Study and Reverse Osmosis Water Treatment Plant, California State Polytechnic University, Pomona, California. *Cal Poly Pomona Foundation, Inc.* Environmental Planner. Responsible for environmental planning. Michael Baker provided planning, feasibility study, preliminary and final design, cost estimating, environmental permitting, grant application assistance, construction management and start-up assistance for a new one-million-gallons-per-day brackish groundwater reverse osmosis (RO) water treatment plant (WTP). The project is located on Perry’s Island, a prominent site visible at the main entry to the university campus. The project required review and approval by an architectural review committee for building aesthetic requirements and was designed to conform to LEED® Silver targets. Michael Baker was the lead consultant for well water quality analysis and design and completed the initial detailed design drawings for grant application within 15 days using a large project team over a holiday period. The project won ASCE’s Riverside/San Bernardino County Branch 2015 Outstanding Private Section Civil Engineering Project Award.

Full-Scale Desalination Facility - Feasibility Study, Los Angeles County, California. *West Basin Municipal Water District.* Environmental Planner. Responsible for environmental planning. Michael Baker provided engineering, environmental, and regulatory permitting expertise related to the client’s overall desalination program, including full-scale desalination plant feasibility and siting studies. Work efforts included regulatory permitting and site constraints assessments for an El Segundo site (co-located with NRG’s El Segundo Generating Station), conceptual studies for additional alternative sites, and technical support on lease negotiations with potential site owners.

Golden State Water Company On-Call Environmental Services, Statewide, California. *Golden State Water Company.* Environmental Planner. Provided CEQA compliance support on an “on-call” basis for numerous existing and proposed water facilities for Golden State Water Company. Michael Baker has provided a variety of civil engineering, design, and environmental services under on-call and project-specific contracts. In addition to construction management and in-house engineering staff support, Michael Baker has provided a wide range of California Environmental Quality Act and National Environmental Policy Act compliance and regulatory permitting services, including Phase I environmental site assessments, peer review of environmental documents, initial studies and mitigated negative declarations, and permitting services.



Carla Dietrich, PE, PTOE | Transportation

Ms. Dietrich is experienced in traffic engineering and transportation planning studies. She has served as a traffic task manager on various projects including conceptual engineering studies, corridor studies, feasibility studies, interchange justification reports, and traffic analysis in support of environmental documents. Ms. Dietrich is knowledgeable in the areas of traffic signalization, safety, complete streets, access management, bicycle and pedestrian design, and context sensitive solutions. Her technical expertise includes crash analysis, traffic simulation, capacity analysis including roundabouts and coordinated signal systems, queuing analysis, and trip generation analysis.

Experience

Woodside Avenue Drainage Flood Control Improvement Study, Lakeside, California. San Diego County. Traffic Engineer. Provided traffic engineering support. Michael Baker provided preliminary and final design services for a new drainage system in the Lakeside community. Project recommendations included extending the existing flood control channel 165-feet; after a diversion structure directed low flows to a water quality basin; capture flows with a 1,185-foot-long, double 10-foot by 10-foot reinforced concrete box (RCB) culvert to convey them safely under Woodside Avenue; convey remaining flows under S.R. 67 downstream of Woodside Avenue with one barrel of the culvert ending at a headwall and an existing triple 6-foot by 3-foot RCB culvert; and convey flows to the San Diego River by extending the second barrel of the culvert under the freeway. Michael Baker also assisted the county in securing FEMA Pre-Disaster Mitigation (PDM) Grant Program funding.

Lemon Grove Main Street Promenade, Lemon Grove, California. KTU+A. Traffic Engineer. Provided traffic analysis including the development of Synchro traffic analysis model. Michael Baker prepared preliminary engineering and design plans and performed an environmental analysis for an extension of the recently constructed Main Street Promenade within and along the existing public rights-of-way. Funded through a grant by the San Diego Association of Governments (SANDAG) Smart Growth Incentive Program (SGIP), the project is expected to enliven the corridor by providing a place that serves the recreational, convenience, and social activities of the city and enhances pedestrians' and bicyclists' experience.

N-358R10, Multimodal Public Transportation Open-End Agreement, Statewide, Pennsylvania. Pennsylvania Department of Transportation, Central Office. Transportation Engineer. Provided documentation review. Michael Baker provided services for public transportation planning throughout the state under an open-end agreement for multimodal public transportation planning. Services included planning, architecture and engineering design, design management, financial assessments, quality assurance and quality control, policy development, construction management and inspection, agency coordination, budget and schedule monitoring, and grant administration services.

Years with Michael Baker: 20
Years with Other Firms: 1

Degrees

B.S. 1997, Civil and Environmental Engineering, Carnegie Mellon University

Licenses/Certifications

Professional Engineer, Pennsylvania, 2004, PE070655

Professional Traffic Operations Engineer, 2008, 2468

Professional Engineer, Louisiana, 2010, 35480

Hourly Rates to be Charged

\$150.00



4. List of References

Client Name / Address	Client Contact Phone / E-Mail	Types of Service Performed
Eastern Municipal Water District 2270 Trumble Road Perris, CA 92572	Ms. Bonnie Wright 951-928-3777 wrightb@emwd.org	Grant Writing Assistance Water Resources Engineering
City of Elk Grove 8401 Laguna Palms Way Elk Grove, CA 95758	Mr. Christopher Jordan 916-478-2222 cjordan@elkgrovecity.org	Grant Writing Assistance
San Luis Obispo Council of Governments 1114 Marsh Street San Luis Obispo, CA 93401	Mr. John DiNunzio 805-781-5764 jdinunzio@slocog.org	Grant Writing Assistance
City of San Francisco 1 Dr Carlton B Goodlett Pl San Francisco, CA 94102	Ms. Toni Moran 415-581-2555 toni.moran@sfgov.org	Grant Writing Assistance

5. Availability

The proposed project team is available to assist the District immediately with grant writing. Principal-In-Charge, Michael Boeck, PE, and Project Manager, Dino Serafini, PE, are available to meet with the District and will take lead in assigning staff roles to fulfill the scope of work that are dependent on the type of grant requirements for each grant opportunity.

A tentative schedule for completing grant availability research, grant applications, and deliverables is highly dependent on each grant program which vary. Grant availability research will be an on-going effort that we will track including funding cycles and anticipated release of Notice of Funding Opportunity (NOFA) and grant application. We will strategize with the District as we learn about potential grant opportunities, workshops, guidelines, etc. On a general level, once released, grant applications are open for about a 2-3 month period for submittal. To be properly positioned for grant funding, we will work with the District to identify early those grants that would have more success and relate to the priority needs. This will focus our and the District's efforts on preparing for grants well ahead of the open release. Primary deliverable will be the completed and vetted grant application for submittal to the grantor agency by the District with project team assistance. Our methodology identifies the steps during and in pre- and post- award timeframe in grant application and administration.



Section D District's Professional Services Agreement

Michael Baker is willing to accept the Sample Agreement without any modifications.



APPENDIX - 1.b. Example of Grant Application

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised April 2015)

General Instructions

<input checked="" type="checkbox"/> New Project					Date:	8/1/17
District	EA	Project ID	PPNO	MPO ID	TCRP No.	
05			1843	11300001586		
County	Route/Corridor	PM Bk	PM Ahd	Project Sponsor/Lead Agency		
SLO	101					
				MPO	Element	
				SLOCOG	Local Assistance	
Project Manager/Contact		Phone		E-mail Address		
Elizabeth Kavanaugh		805/781-4089		ekavanaugh@co.slo.ca.us		
Project Title						
Templeton - Atascadero Pathway						
Location, Project Limits, Description, Scope of Work						<input type="checkbox"/> See page 2
A class 1 multi use path designed to extend from the community of Templeton to the City of Atascadero in a pinch point area between Highway 101, Union Pacific Railroad tracks and the Salinas River. The pathway will start at Vineyard Drive in Templeton and the Anza Trail near N. Ferrocarril Road in Atascadero. There is no non vehicle connection between these two communities. This pathway will fill this need with a 5,300 foot pathway including 350' of sidewalk, 350 bike lane 4,950 feet of class one pathway, retaining walls to a 70 foot railroad underpass, 220 foot bridge with bridge ramps and Iron fencing.						
<input type="checkbox"/> Includes ADA Improvements			<input checked="" type="checkbox"/> Includes Bike/Ped Improvements			
Component		Implementing Agency				
PA&ED		County of San Luis Obispo				
PS&E		County of San Luis Obispo				
Right of Way		County of San Luis Obispo				
Construction		County of San Luis Obispo				
Purpose and Need						<input type="checkbox"/> See page 2
The only way between these communities is Highway 101. This problem is compounded by the fact that Templeton School District boundaries include some of Atascadero. A student, pedestrian or bicyclist has to travel along Highway 101, the railroad tracks, or the Salinas River to get to school or the neighboring community. Each option is dangerous. The Salinas River has a large homeless population and illegal and highspeed off-highway vehicle use. The railroad tracks in this area are especially dangerous because of limited site lines due to curves in the tracks to the north and south. Train trips along this train track is expected to nearly double in the future. Finally walking along Highway 101 is very dangerous.						
Project Benefits						<input type="checkbox"/> See page 2
This project will provide a safe non-vehicle pathway in a very dangerous one mile between two communities where there currently is not one. This pathway will give people a choice to walk or bike between these communities where the only option now is to travel along Highway 101. This pathway can decrease traffic in the area and its related greenhouse gas.						
<input checked="" type="checkbox"/> Supports Sustainable Communities Strategy (SCS) Goals			<input checked="" type="checkbox"/> Reduces Greenhouse Gas Emissions			
Project Milestone						Proposed
Project Study Report Approved						
Begin Environmental (PA&ED) Phase						08/20/15
Circulate Draft Environmental Document				Document Type	ND/CE	09/30/17
Draft Project Report						
End Environmental Phase (PA&ED Milestone)						12/31/17
Begin Design (PS&E) Phase						03/31/15
End Design Phase (Ready to List for Advertisement Milestone)						12/31/18
Begin Right of Way Phase						01/01/18
End Right of Way Phase (Right of Way Certification Milestone)						06/30/20
Begin Construction Phase (Contract Award Milestone)						08/01/20
End Construction Phase (Construction Contract Acceptance Milestone)						06/30/21
Begin Closeout Phase						06/30/21
End Closeout Phase (Closeout Report)						09/30/21

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PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised April 2015)

Date: 8/1/17

District 05	County SLO	Route 101	EA	Project ID	PPNO 1843	TCRP No.
Project Title: Templeton - Atascadero Pathway						

Component	Prior	Proposed Total Project Cost (\$1,000s)						Total	Notes
		16/17	17/18	18/19	19/20	20/21	21/22+		
E&P (PA&ED)	260							260	
PS&E	300							300	
R/W SUP (CT)									
CON SUP (CT)									
R/W					120			120	
CON						5,168		5,168	
TOTAL	560				120	5,168		5,848	

Fund No. 1:	Public Facilities Fees								Program Code
		Proposed Funding (\$1,000s)							Parks Public Facilities Fees
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	60							60	San Luis Obispo County
PS&E	60							60	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL	120							120	

Fund No. 2:	CMAQ/TE								Program Code
		Proposed Funding (\$1,000s)							CMAQ/TE
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	200							200	SLOCOG
PS&E	240							240	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON						2,000		2,000	
TOTAL	440					2,000		2,440	

Fund No. 3:	ATP								Program Code
		Proposed Funding (\$1,000s)							20.30 720
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)									Caltrans ATP Augmentation
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W					120			120	
CON						3,168		3,168	
TOTAL					120	3,168		3,288	

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised April 2015)

Date: 8/1/17

District	County	Route	EA	Project ID	PPNO	TCRP No.
05	SLO	101			1843	
Project Title: Templeton - Atascadero Pathway						

Fund No. 8:									Program Code	
		Proposed Funding (\$1,000s)								
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency	
E&P (PA&ED)										
PS&E										
R/W SUP (CT)										
CON SUP (CT)										
R/W										
CON										
TOTAL										

Fund No. 9:									Program Code	
		Proposed Funding (\$1,000s)								
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency	
E&P (PA&ED)										
PS&E										
R/W SUP (CT)										
CON SUP (CT)										
R/W										
CON										
TOTAL										

Fund No. 10:									Program Code	
		Proposed Funding (\$1,000s)								
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency	
E&P (PA&ED)										
PS&E										
R/W SUP (CT)										
CON SUP (CT)										
R/W										
CON										
TOTAL										



COUNTY OF SAN LUIS OBISPO
Department of Public Works
Wade Horton, *Director*

July 31, 2017

Susan Bransen, Executive Director
California Transportation Commission
1120 N. Street, Mail Station 52
Sacramento, CA 95814

Dear Ms. Bransen:

Enclosed please find the 2017 Active Transportation Program (ATP) Augmentation application for San Luis Obispo County's Templeton to Atascadero Path project. The scope of this request includes funding for acquiring trail easements and partial funding of construction of a multi-use trail that will close a one mile gap between the communities of Templeton and Atascadero. This small but complex gap, once closed, will provide the only pedestrian and bicycle pathway between these two communities' and their school districts. This project will improve a dangerous pinch point where bicyclist and pedestrian's only options are; to travel along Highway 101's shoulder or the adjacent railroad tracks.

We anticipate both NEPA and CEQA be completed by the end of this year, with finished construction drawings in by the end 2018. Right of Way (ROW) documents will be started early in 2018, completed by August 2020. Most of the pathway will be completed in the County's Main Street ROW. Finally, construction will begin late in 2020, finishing late in 2021. The scope of this ATP funding request is for the ROW acquisition costs and construction. San Luis Obispo Council of Governments has committed matching funding, in the amount of \$2,000,000 for this ATP application.

This letter shall serve as confirmation that the Templeton to Atascadero Connect Path can be delivered in FY 2020-21, consistent with the Project Programming Request, and that the project is still fully funded with the same matching funding as the original Cycle 3 ATP application.

Sincerely,

A handwritten signature in blue ink that reads "Dave Flynn".

DAVE FLYNN
Deputy Director

File: WBS 320056 (New)

Atascadero to Templeton 2017 ATP Augmentation Authorization Letter 7.31.17.df.taw



**COUNTY OF SAN LUIS OBISPO
PARKS AND RECREATION DEPARTMENT**

Nick Franco Director

Templeton To Atascadero Path ATP Application Update

This pathway will provide a safe non-vehicle route between Templeton and Atascadero where there currently is none. Today a pedestrian or bicyclist traveling between these two communities must choose between three options: Highway 101's shoulder, along Union Pacific Railroad tracks, or in the Salinas River. These options are unsafe and/or illegal and the danger is increasing. This area of the Salinas River is an illegal access point for high speed off-highway vehicle use, an activity that is increasing in popularity. The railroad tracks, in this area, have curves both to the north and south. These poor site lines increase the danger of a pedestrian/bicyclist being hit by a train. This is compounded by Union Pacific Railroad's plans to nearly double the use of these train tracks in the future. The final option pedestrian or bicyclist must choose from to travel from one community to the other is walking or bicycling on Highway 101 alongside high traffic volume at speeds of 65 plus miles an hour. There is no protective barrier on the highway at this location. The need for a safe pedestrian/bicycle path at this location is compounded by the fact that Templeton Unified School District boundary includes part of Atascadero and this area is the only non-vehicular route for these students to get to school.

San Luis Obispo Council of Governments has committed matching funds of \$2,000,000 for this ATP application (see attached letter). This significant local match is because the Templeton to Atascadero Path is the region's top priority bike and pedestrian project. It will serve as a pedestrian and bicycle path connecting two communities where there is not one today. The path closes a one mile pinch point between the bike lanes in Templeton and a Class One trail segment of the De Anza trail in Atascadero. This path will encourage walking and biking between these communities, replacing vehicle trips which will minimize the production of green-house gas. Most of all, this project will solve a significant safety concern in our County.

This path has made significant progress since the 2016 ATP application. Engineering and design has moved forward. Construction plans with Union Pacific Railroad are near completion of 60% design plans for the railroad underpass. Other elements of the path are at 60% of design/engineering. The National Environmental Policy Act (NEPA) review is nearly complete. We have received letters of concurrence from both the National Marine Fisheries Service and US Fish and Wildlife Service. A draft Initial Study for a Mitigated Negative Declaration and supporting studies have been completed and are under review by the County's Environmental Division to meet the California Environmental Quality Act requirements (CEQA). Both NEPA and CEQA will be completed by the end of 2017.

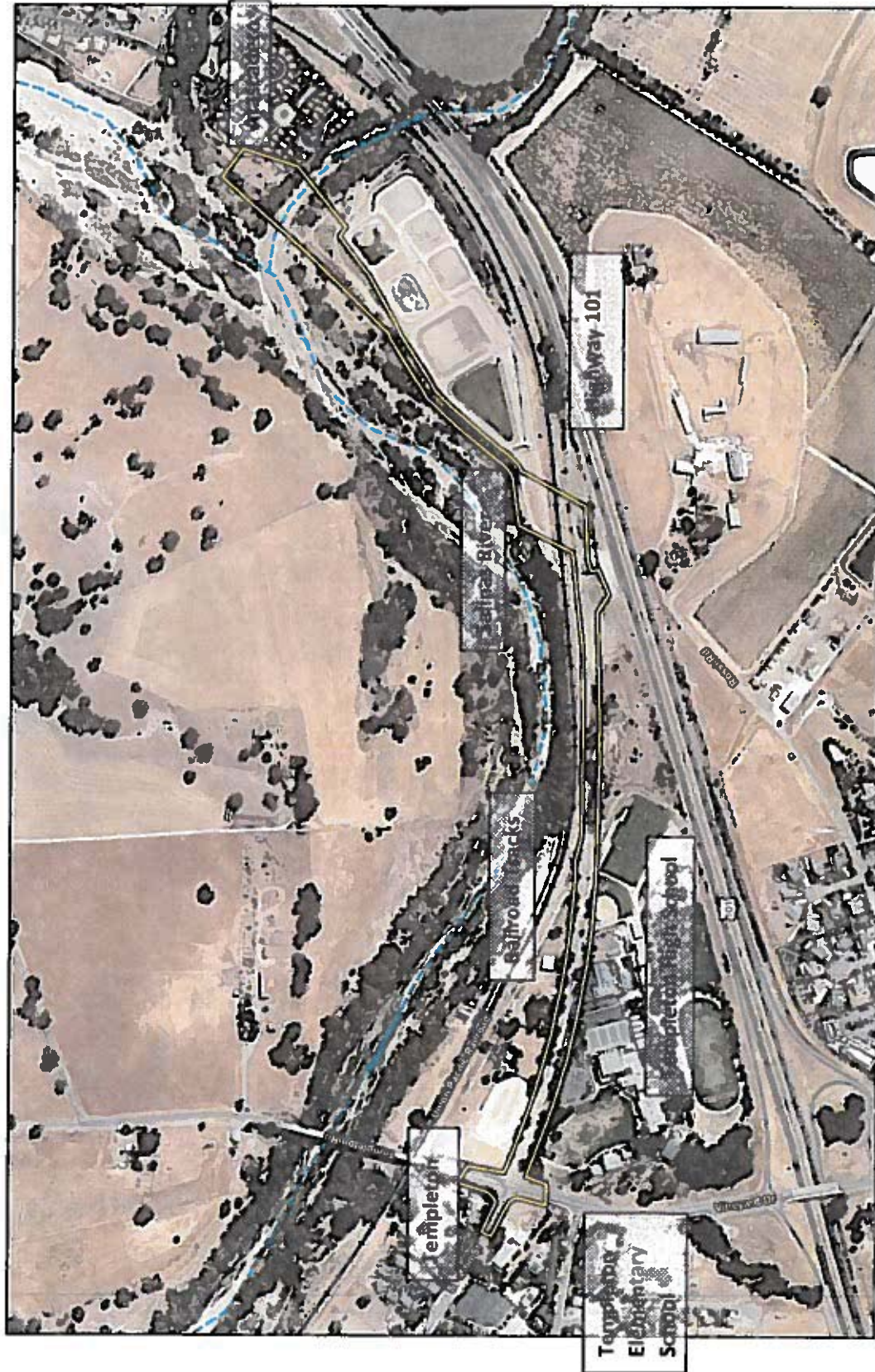
Right-of-Way (ROW) phase is expected to start January 2018. It is anticipated that the ROW phase for this project will be completed by mid- 2020. Meeting the design/engineering requirements for the Union Pacific Railroad underpass is the biggest step in ensuring the railroad will allow the path under their tracks. All other property owners required to offer easements for this path are government entities who have been willing partners since the inception of the path's plan: County of San Luis Obispo- Public Works Department, Templeton Community Service District, the City of Atascadero (see letter of support from the Community Development Director) and Caltrans. Caltrans has supported this project since it ranked very high on the round 3 of SHOPPTEA in 2001. Construction is anticipated to begin mid-year 2020 and the completed trail can be expected by June of 2021.

County of San Luis Obispo Parks and Recreation

1144 Monterey Street, Ste. A | San Luis Obispo, CA 93408 | (P) 805-781-5930

www.slocountyparks.org

Templeton to Atascadero Path





CONNECTING COMMUNITIES
ARROYO GRANDE ATASCADERO GROVER BEACH
MORRO BAY PASO ROBLES PISMO BEACH
SAN LUIS OBISPO SAN LUIS OBISPO COUNTY

July 25, 2017

Susan Bransen, Executive Director
California Transportation Commission
1120 N. Street, Mail Station 52
Sacramento, CA 95814

RE: Funding Commitment - Templeton-Atascadero Pathway —ATP Cycle 3 Augmentation

For over 15 years, the San Luis Obispo Council of Governments (SLOCOG) has worked closely with SLO County in the development of the North County "Missing Link."

This project proposes a multi-use path adjacent to US 101 connecting the communities of Atascadero and Templeton. Currently the only bike and pedestrian access is on the shoulder of US 101, a freeway on this segment. For this reason this project is our region's top priority bike and pedestrian project.

While the barriers at this location, a 220ft bridge over Paso Creek and a 70ft Railroad undercrossing along the Anza Historic Trail are short in length, the effect of the physical constraints extends well beyond the project site and has had a very broad impact on the accessibility, usability and connectivity between communities.

At one point, Caltrans HQ staff supported this project as it ranked very high on the round 3 of SHOPP-TEA in June 2001 TEA list. This project was #B-11 on Caltrans HQ's June 2000 list, but it was just below the funding line. The cumulative rate of inflation since that time is nearly \$2M or 30% and represents the opportunity cost which we are regionally prepared to absorb for the Cycle 3 Augmentation round only.

SLOCOG stands by our commitment of June 1st 2016 of \$2 million in FY20/21 for construction phase through the State Transportation Improvement Program (STIP) and/or Congestion Management Air Quality (CMAQ) Program(s).

Don't hesitate to contact me or my staff John DiNunzio (805) 781-5764 jdinunzio@slocog.org for additional information.

Ronald DeCarli, Executive Director
San Luis Obispo Council of Governments
1114 Marsh Street
San Luis Obispo, CA 93401

North Coast

North County

Central County

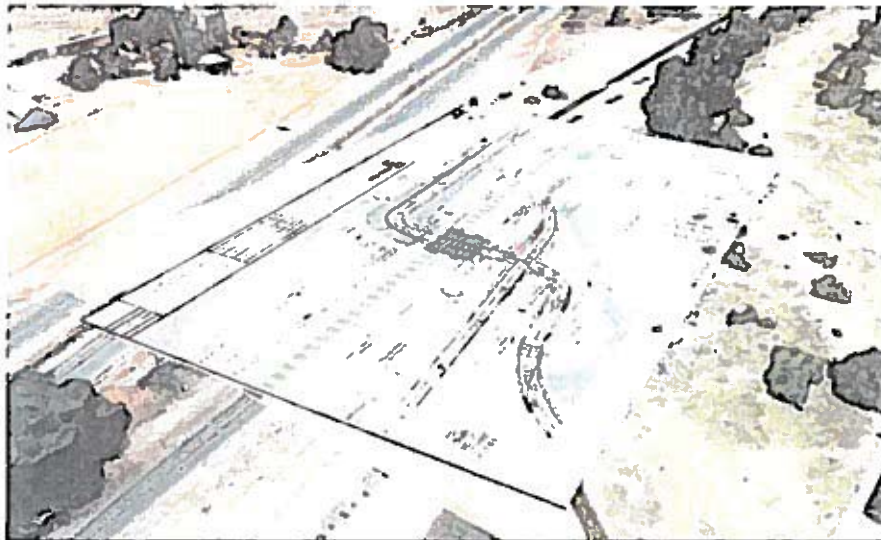
South County

East County

SLO COUNTY

RTP ID# NTH-AT1-1001

TEMPLETON – ATASCADERO CONNECTOR “MISSING LINK”



VER. 8/2017





Copies to: Corres File Staff John

CITY OF ATASCADERO

July 21, 2017

Mr. Ron De Carli
SLOCOG
1114 Marsh Street
San Luis Obispo, CA 93401

Dear Mr. De Carli;

The City of Atascadero strongly supports the completion of the Templeton – Atascadero Connector of the Salinas River multi-use path. The “Missing Link” is a vital piece of infrastructure necessary to move toward the City’s long term vision of expanding the De Anza Trail for the entire length of the City and beyond. Atascadero General Plan Circulation Element Program 2.1.5 states “Access, protection, and expansion of the historic De Anza Trail is a high priority.” Program 2.1.8 states “A pedestrian and bicycle connection between Atascadero and Templeton shall be coordinated with SLOCOG, San Luis Obispo County and Caltrans.” We are committed to providing a pedestrian, cycling and equestrian path connecting all the communities along the Salinas River.

Largely thanks to Atascadero Mutual Water Company, residents and visitors in Atascadero can currently travel the De Anza Trail from just south of Highway 41 approximately 4 miles to the northern extent of the City. The City actively pursues opportunities to extend the trail within our boundaries and new subdivisions adjacent to the Salinas River are required to provide public access to the trail.

I urge you to facilitate grant funding for this worthy project. The City eagerly anticipates continued collaboration in extending the De Anza/Salinas River Trail throughout the North County.

Sincerely,

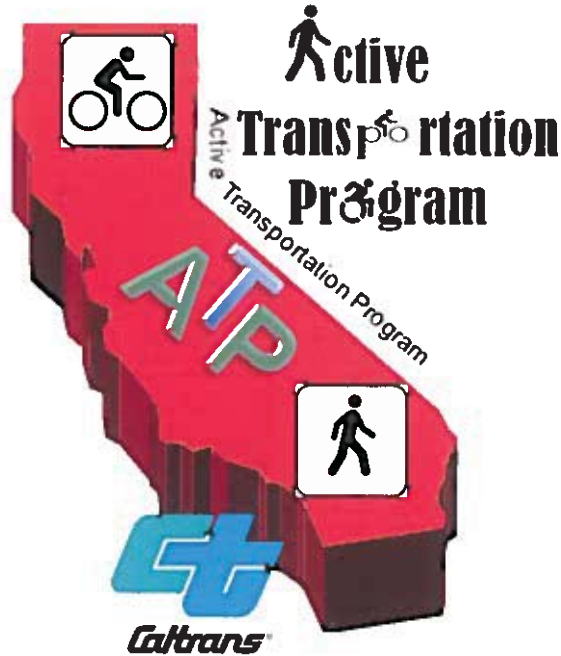
Phil Dunsmore, AICP
Director, Community Development

JUL 24 2017



ACTIVE TRANSPORTATION PROGRAM

IMPLEMENTING AGENCY: San Luis Obispo County



PROJECT APPLICATION NO.:

PROJECT NAME: Templeton - Atascadero Pathway (TAP)

PROJECT DESCRIPTION: The TAP is comprised of approximately 5,300' of improvements including construction of 350' of sidewalk, 350' of bike lanes (on both sides of the street), 4,900' of multi-use path, retaining walls, an undercrossing, a bridge, and ramps to connect to an existing trail.

PROJECT LOCATION: The proposed Class I multi-use path will be located in San Luis Obispo County in an undeveloped area that spans the Paso Robles River between the cities of Templeton and Atascadero. The trail will connect Vineyard Drive at S Main St and the Anza Trail in Atascadero.

ATP FUNDED COMPONENTS							
Infrastructure				CON	Non-Infrastructure	Plan	
PA&ED	PS&E	R/W					
\$ -	\$ -	\$ 120	\$ 3,168	\$ -	\$ -		
FY -	FY -	FY 19/20	FY 20/21	FY -	FY -		

PROJECT FUNDING INFORMATION (1,000s)							
Total Project \$	Total ATP \$	Total Non-ATP \$	Past ATP \$	Leveraging \$	Matching \$	Non-Participating \$	Future Local \$
5,848	3,288	2,560	-	2,560	2,000	-	-

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Submit

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ADA Notice

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Application Part 1: Applicant Information

Implementing Agency: This agency must enter into a Master Agreement with Caltrans and will be financially and contractually responsible for the delivery of the project within all pertinent Federal and State funding requirements, including being responsible and accountable for the use and expenditure of program funds. This agency is responsible for the accuracy of the technical information provided in the application and is required to sign the application.

IMPLEMENTING AGENCY'S NAME:

San Luis Obispo County

IMPLEMENTING AGENCY'S ADDRESS

1087 Santa Rosa Street	San Luis Obispo	CA	93408
------------------------	-----------------	----	-------

CITY

ZIP CODE

IMPLEMENTING AGENCY'S CONTACT PERSON:

Elizabeth Kavanaugh	Park and Trail Planner
---------------------	------------------------

CONTACT PERSON'S TITLE:

CONTACT PERSON'S PHONE NUMBER:

805-781-4089	ekavanaugh@co.slo.ca.us
--------------	-------------------------

CONTACT PERSON'S EMAIL ADDRESS :

Applicants have the opportunity to insert a project picture, agency seal, or other image on the cover page. If you would like to do this, attach the image (*.jpg, *.bmp, *.png, etc) by clicking in the box.

MASTER AGREEMENTS (MAs):

Does the Implementing Agency currently have a MA with Caltrans? Yes No

Implementing Agency's Federal Caltrans MA number 05-5949R

Implementing Agency's State Caltrans MA number 00322S

* Implementing Agencies that do not currently have a MA with Caltrans, must be able to meet the requirements and enter into an MA with Caltrans prior to funds allocation. The MA approval process can take 6 to 12 months to complete and there is no guarantee the agency will meet the requirements necessary for the State to enter into a MA with the agency. Delays could also result in a failure to meeting the CTC Allocation timeline requirements and the loss of ATP funding.

Project Partnering Agency:

The "Project Partnering Agency" is defined as an agency, other than Implementing Agency, that will assume the responsibility for the ongoing operations and maintenance of the improved facility. The Implementing Agency must: 1) ensure the Partnering Agency agrees to assume responsibility for the ongoing operations and maintenance of the improved facility, 2) provide documentation of the agreement (e.g., letter of intent) as part of the project application, and 3) ensure a copy of the Memorandum of Understanding or Interagency Agreement between the parties is submitted with the first request for allocation. For these projects, the Project Partnering Agency's information shall be provided below.

Based on the definition above, does this project have a partnering agency? Yes No



Application Part 2: General Project Information

PROJECT NAME: (Max of 10 Words) (To be used in the CTC project list)

Words Remaining:

Templeton - Atascadero Pathway (TAP)

SUMMARY OF PROJECT SCOPE: (Max of 200 Words)

(Summary of the Existing Condition, Project Scope, the Expected Benefits)

Words Remaining:

The TAP is a proposed Class I multi-use path designed to extend from the community of Templeton to the City of Atascadero in an area generally between Highway 101 and the Salinas River. Currently, there are disjointed pathways between the communities, and there are no cohesive links between the towns with the exception of Highway 101, a motorized route. This lack of connectivity forces cyclists to use existing roadways carrying significant traffic and results in no direct connection for pedestrians. As a result, cyclists and pedestrians have created informal social trails using railroad tracks and dirt paths to make this connection.

The new connector is proposed to be a paved trail that will generally run north parallel to, but be separated from, Highway 101. Once completed, the TAP will offer a non-motorized connection between Templeton and Atascadero creating access to key community destinations including two schools, residential communities, places of employment, and community assets such as farmers markets. As an extension of the Anza Trail, the TAP will also provide increased recreational opportunities for residents of both communities.

PROJECT DESCRIPTION: (Max of 50 Words)

Words Remaining:

The TAP is comprised of approximately 5,300' of improvements including construction of 350' of sidewalk, 350' of bike lanes (on both sides of the street), 4,900' of multi-use path, retaining walls, an undercrossing, a bridge, and ramps to connect to an existing trail.

PROJECT LOCATION: (Max of 50 Words)

Words Remaining:

The proposed Class I multi-use path will be located in San Luis Obispo County in an undeveloped area that spans the Paso Robles River between the cities of Templeton and Atascadero. The trail will connect Vineyard Drive at S Main St and the Anza Trail in Atascadero.

In addition to the Location Description provided, attach a location map to the application. The location needs to show the project boundaries in relation to the Implementing Agency's boundaries.

Part 2 - Project Location.pdf

Project Coordinates: (latitude/longitude in decimal format) Lat. 35.535450 N /long. 120.710708 W

Congressional District(s):

State Senate District(s):

State Assembly District(s):

Caltrans District:

County:

MPO:

RTPA:

Urbanized Zone Area (UZA) Population:

Past Projects: Within the last 10 years, has there been any previous State or Federal ATP, SRTS, SR2S, BTA or other ped/bike funding awards for a project(s) that are adjacent to or overlap the limits of project scope of this application?

Yes No If yes, how many previous awards? 1

Project Number	Past Project Funding	Funded Amount \$	Project Type	Type of overlap/connection with past projects (select only one which matches the best)
22300000053	OTHER - RTPA/MPO Funding	\$7,170,000	Infrastructure (I)	Previous ATP project phase funded



Application Part 3: Project Type

PROJECT TYPE: (Use the drop down menu to select Combination (I/NI), Infrastructure (I), Non-Infrastructure (NI), or Plan.

Infrastructure (I)

Indicate any of the following plans that your agency currently has: (Check all that apply)

- Bicycle Plan
 Pedestrian Plan
 Safe Routes to School Plan
 Active Transportation Plan

PROJECT SUB-TYPE (check all Project Sub-Types that apply):

- Bicycle Transportation** % of Project 50 %
 Pedestrian Transportation % of Project 50 %
 Safe Routes to School (Also fill out Bicycle and Pedestrian Sub-Type information above)

For a project to qualify for Safe Routes to School designation, the project must directly increase safety and convenience for public school students to walk and/or bike to school. Safe Routes to Schools infrastructure projects must be located within two miles of a public school or within the vicinity of a public school bus stop and the students must be the intended beneficiaries of the project. Other than traffic education and enforcement activities, non-infrastructure projects do not have a location restriction.

Projects with Safe Routes to School elements must fill out "School and Student Details" later in this application. As a condition of receiving funding, projects with Safe Routes to School Elements must commit to completing additional before and after student surveys as defined in the Caltrans Active Transportation Guidelines (LAPG Chapter 22).

How many schools does the project impact/serve: 3

For each school benefited by the project: 1) Fill in the school and student information; and 2) Include the required attachment information.

School Name: Templeton Middle School
 School Address: 925 Old County Road, Templeton, CA 93465
 District Name: Templeton Unified School District
 District Address: 960 Old County Road, Templeton, CA 93465
 Co.-Dist.-School Code: _____
 School Type: 0

Project improvements maximum distance from school 1.0 mile

Total student enrollment:	<u> 538 </u>
Total # of students that currently walk or bike to school:	<u> 44 </u>
Approximate # of students living along route proposed for improvement:	<u> </u>
Projected # of students that will walk/bike to school after the project:	<u> 53 </u>
Percentage of students eligible for free or reduced meal programs**	<u> 19 % </u>

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

Attach the following: A) a map which clearly shows: 1) the student enrollment area, 2) the locations and limits of the proposed project improvements; and B) the contact information/person for the school, and a short statement of support combined with the signature of the school official.

Part 3-1.Atas Unified.pdf



School Name: Templeton Elementary School
 School Address: 215 8th Street, Templeton, CA 93456
 District Name: Templeton Unified School District
 District Address: 960 Old County Road, Templeton, CA 93465
 Co.-Dist.-School Code: _____
 School Type: 0

Project improvements maximum distance from school 1.0 mile

Total student enrollment:	<u>546</u>
Total # of students that currently walk or bike to school:	<u>29</u>
Approximate # of students living along route proposed for improvement:	<u>35</u>
Projected # of students that will walk/bike to school after the project:	<u>39 %</u>
Percentage of students eligible for free or reduced meal programs**	<u>39 %</u>

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

Attach the following: A) a map which clearly shows: 1) the student enrollment area, 2) the locations and limits of the proposed project improvements; and B) the contact information/person for the school, and a short statement of support combined with the signature of the school official.

Part 3-2. Atas Unified.pdf

School Name: Templeton High School
 School Address: 1200 S Main Street, Templeton, CA 93456
 District Name: Templeton Unified School District
 District Address: 960 Old County Road, Templeton, CA 93465
 Co.-Dist.-School Code: _____
 School Type: 1

Project improvements maximum distance from school 1.0 mile

Total student enrollment:	<u>761</u>
Total # of students that currently walk or bike to school:	<u>117</u>
Approximate # of students living along route proposed for improvement:	<u>12</u>
Projected # of students that will walk/bike to school after the project:	<u>140</u>
Percentage of students eligible for free or reduced meal programs**	<u>19 %</u>

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

Attach the following: A) a map which clearly shows: 1) the student enrollment area, 2) the locations and limits of the proposed project improvements; and B) the contact information/person for the school, and a short statement of support combined with the signature of the school official.

Part 3-3. Templeton HS_Templeton Atascadero Connector ATP LOS.pdf

Trails (Multi-use and Recreational): (Also fill out Bicycle and Pedestrian Sub-Type information above)

Trails Projects constructing multi-purpose trails are generally eligible in the Active Transportation Program. If the applicant believes all or part of their project meets the federal requirements of the Recreational Trails Program they are encouraged to seek a determination from the California Department of Parks and Recreation on the eligibility of their project to compete for this funding. This is optional but recommended because some trails projects may compete better under this funding program.

For all trails projects:

Do you feel a portion of your project is eligible for federal Recreational Trail funding? Yes No



Application Part 4: Project Details

INFRASTRUCTURE TYPE (Only Intended for Infrastructure Projects)

Note: When quantifying the amount of Active Transportation improvements proposed by the project, **do not double-count the improvements** that benefit both Bicyclists and Pedestrians (i.e. new RRFB/Signal should only show as a Pedestrian or Bicycle Improvement).

Bicycle Improvements

What % of the BICYCLE related project cost are going towards closing a "Gap" in infrastructure? 100 %
 (As opposed to cost going towards "improving" existing bicycle infrastructure: i.e. Class 2 to Class 4)

New Bike Lanes/Routes	Class 1: _____ Linear Feet	Class 2: <u>350</u> Linear Feet
	Class 3: _____ Linear Feet	Class 4: _____ Linear Feet
Signalized Intersections:	New Bike Boxes: _____ Number	Timing Improvements: _____ Number
Un-Signalized Intersections:	New RRFB/Signal: _____ Number	Crossing-Surface Improvements: _____ Number
Mid-Block Crossing:	New RRFB/Signal: _____ Number	Crossing-Surface Improvements: _____ Number
Lighting:	Intersection: _____ Number	Roadway Segments: _____ Linear Feet
Bike Share Program:	New Station: _____ Number	New Bikes: _____ Number
Bike Racks/Lockers:	New Racks: _____ Number	New Secured Lockers: _____ Number
Other Bicycle Improvements:	#1: _____ #:	#2: _____ #:

Pedestrian Improvements

What % of the PEDESTRIAN related project cost are going towards closing a "Gap" in infrastructure? 100 %
 (As opposed to cost going towards "improving" existing pedestrian infrastructure)

Sidewalks:	New (4' to 8' wide): <u>350</u> Linear Feet	New (over 8' wide): _____ Linear Feet
	Widen Existing: _____ Linear Feet	Reconstruct/Enhance Existing: _____ Linear Feet
	New Barrier Protected (Barrier, parking, functional-planter, etc.): _____ Linear Feet	
ADA Ramp Improvements:	New Ramp (none exist): _____ Number	Reconstruct Ramp to Standard: _____ Number
Signalized Intersections:	New Crosswalk: _____ Number	Enhance Existing Crosswalk: _____ Number
	Ped-Heads: _____ Number	Shorten Crossing: _____ Number
	Timing Improvements: _____ Number	
Un-Signalized Intersections:	New Traffic Signal: _____ Number	New Roundabout: _____ Number
	New RRFB/Signal: _____ Number	Crossing-Surface Improvements: <u>1</u> Number
	Shorten Crossing: _____ Number	
Mid-Block Crossing:	New RRFB/Signal: _____ Number	Crossing-Surface Improvements: _____ Number
Lighting:	Intersection: _____ Number	Roadway Segments: _____ Linear Feet
Pedestrian Amenities:	Benches: _____ Number	Trash Cans: _____ Number
	Shade Trees: _____ Number	Shade Tree Type: _____
Other Ped Improvements:	#1: _____ #:	#2: _____ #:

Multi-use Trail Improvements

Class 1 Trails:	New (8' or less wide): _____ Linear Feet	New (over 8' wide): <u>4,900</u> Linear Feet
	Widen/Reconstruct Existing: _____ Linear Feet	
Non-Class 1 Trails:	New: _____ Linear Feet	Widen/Reconstruct Existing: _____ Linear Feet
Other Trail Improvements:	#1: Bridge crossing creek # <u>400</u>	#2: Railroad bridge undercrossing # <u>70</u>

Vehicular-Roadway Traffic-Calming Improvements



Right of Way (R/W) Impacts (Check all that apply)

- Project is 100% within the Implementing Agency's R/W (or within their control at the time of this application submittal).
- Project will likely require R/W and/or easements from private owners or will require utility relocations from 'non-public' utility companies.

The federal R/W process involving private property acquisitions and/or private utility relocations can often take 18 to 24 months. The project schedule in the application for R/W needs to reflect the necessary time to complete the federal R/W process.

- Project will likely require R/W, Easements, encroachment and/or approval involving Governmental, Environmental, or Railroad owner's property.

**See the application instructions for more details on the required coordination and documentation from these agencies.*

Attach a letter of support or neutrality from each separate agency. Combine all letters in one pdf attachment.

Part 3 - Templeton CSD.pdf



Application Part 5: Project Schedule

- NOTES:** 1) Per CTC Guidelines, all project applications must be submitted with the expectation of receiving federal funding and therefore the schedule below must account for the extra time needed for federal project delivery requirements and approvals, including a NEPA environmental clearance and for each CTC allocation there must also be a Notice to Proceed with Federally Reimbursable work
- 2) Prior to estimating the durations of the project delivery tasks (below), applicants are highly encouraged to review the appropriate chapters of the Local Assistance Procedures Manual and work closely with District Local Assistance Staff.
- 3) The proposed CTC allocation dates must be between July 1, 2019 and June 30, 2021 to be consistent with the available ATP funds for Cycle 3.

INFRASTRUCTURE PROJECTS:

PA&ED Project Delivery Phase:

Will ATP funds be used in this phase of the project? Yes No

Expected or Past Start Date for PA&ED activities:

8/1/2015

Time to complete the separate CEQA & NEPA studies/approvals:

14 months (See note #2, above)

Expected or Past Completion Date for the PA&ED Phase:

9/24/2016

* Applications showing the PA&ED phase as complete, must include/attach the signature pages for the CEQA and NEPA documents, which include project descriptions covering the full scope.

Ghost Attachment.pdf

PS&E Project Delivery Phase:

Will ATP funds be used in this phase of the project? Yes No

Expected or Past Start Date for PS&E activities:

8/31/2015

Time to complete the final Plans, Specification & Estimate:

28 months

Expected or Past Completion Date for the PS&E Phase:

12/17/2017

* Applications showing the PS&E phase as complete, must include/attach the signed & Stamped Title Sheet for the plans and approval page of the specifications.

Ghost Attachment.pdf

Right of Way Project Delivery Phase:

Will ATP funds be used in this phase of the project? Yes No

Proposed CTC "R/W Allocation" Date:

7/1/2019

Notice to Proceed with Federally Reimbursable ATP Work:

8/30/2019

Expected or Past Start Date for R/W activities:

9/2/2019

Time to complete the R/W Engineering, Acquisition, and Utilities:

12 months

Expected or Past Completion Date for the R/W Phase:

8/27/2020

* PS&E and Right of Way phases can be allocated at the same CTC meeting.

* Applications showing the R/W phase as complete, must include/attach the Caltrans approved R/W Certification.

Ghost Attachment.pdf

Construction Project Delivery Phase:

Will ATP funds be used in this phase of the project? Yes No

Proposed CTC "CON Allocation" Date:

9/1/2020

Notice to Proceed with Federally Reimbursable ATP Work:

10/31/2020

Expected Start Date for Construction activities:

10/31/2020

Time to complete the Construction activities:

9 months

Expected or Past Completion Date for the CON Phase:

7/28/2021

Proposed Dates for "Before" and "After" Counts (As required by the CTC and Caltrans guidelines):

Expected Date for "Before" counts (Ideally, within 12 months of the beginning of the Construction Activities)

10/1/2020

Expected Date for "After" counts (Ideally, at least 6 months after the end of all Construction Activities)

1/15/2022



Application Part 6: Project Funding

(1,000s)

Project Phase	Total Project Costs	Total ATP Funding	ATP Allocation Year *	Total Non-ATP Funding **	Non-Participating Funding	"Prior" ATP Funding	Leveraging Funding	Matching Funding *** (for federal \$)	Future Local Identified Funding
PA&ED	240	-		240	-	-	240	-	-
PS&E	320	-		320	-	-	320	-	-
RW	120	120	19/20	-	-	-	-	-	-
CON	5,168	3,168	20/21	2,000	-	-	2,000	2,000	-
NI-CON	-	-		-	-	-	-	-	-
TOTAL	5,848	3,288		2,560	-	-	2,560	2,000	-

* The CTC Allocation-Year is calculated based on the information entered into the "Project Schedule" section.

** Applicants must ensure that the "Total Non-ATP Funding" values show in this table match the overall Non-ATP Funding values they enter into Page 2 of the PPR (later in this form)

*** For programming purposes, applicants, are asked to identify the portion of the Leveraging Funding that meets the requirements to be used as match for new Federal ATP funding.

ATP FUNDING TYPE REQUESTED:

Per the CTC Guidelines, all ATP projects must be eligible to receive federal funding. Most ATP projects will receive federal funding, however, it is the intent of the Commission to consolidate the allocation of federal funds to as few projects as practicable. Therefore, the smallest projects may be granted State Funding from the State Highway Account (SHA) for all or part of the project. Agencies with projects under \$1M, especially ones being implemented by agencies who are not familiar with the federal funding process, are encouraged to request State funding.

Do you believe your project warrants receiving state-only funding? Yes No

ATP PROJECT PROGRAMMING REQUEST (PPR):

Using the Project Schedule, Project Funding, and General Project information provided, this electronic form has automatically prepared the following PPR pages. Applicants must review the information in the PPR to confirm it matches their expectations.



Exhibit 22-G Project Programming Request (PPR)

Date 6/15/2016

Project Information:

Project Title:	Templeton - Atascadero Pathway (TAP)				
District	County	Route	EA	Project ID	PPNO
5	San Luis Obispo				

Funding Information:

DO NOT FILL IN ANY SHADED AREAS

Proposed Total Project Cost (\$1,000s)									Notes:
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	
E&P (PA&ED)	240	0	0	0	0	0	0	240	
PS&E	320	0	0	0	0	0	0	320	
R/W	0	0	0	0	120	0	0	120	
CON	0	0	0	0	0	5,168	0	5,168	
TOTAL	560	0	0	0	120	5,168	0	5,848	

ATP Funds Infrastructure Cycle 3									Program Code
Proposed Funding Allocation (\$1,000s)									20 30.720
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	Caltrans
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	120	0	0	120	
CON	0	0	0	0	0	3,168	0	3,168	
TOTAL	0	0	0	0	120	3,168	0	3,288	

ATP Funds Non-Infrastructure Cycle 3									Program Code
Proposed Funding Allocation (\$1,000s)									20 30.720
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	Caltrans
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	

ATP Funds Plan Cycle 3									Program Code
Proposed Funding Allocation (\$1,000s)									20 30.720
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	Caltrans
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	

ATP Funds Previous Cycle									Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	Caltrans
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	



Exhibit 22-G Project Programming Request (PPR)

Date: 6/15/2016

Project Information:

Project Title:	Templeton - Atascadero Pathway (TAP)				
District	County	Route	EA	Project ID	PPNO
5	San Luis Obispo				

Summary of Non-ATP Funding

The Non-ATP funding shown on this page must match the values in the Project Funding table.

Fund No. 2:	Local Funds								Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	240	0	0	0	0	0	0	240	
PS&E	320	0	0	0	0	0	0	320	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	560	0	0	0	0	0	0	560	

Fund No. 3:	CMAQ/Potential Local Measure								Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	2,000	0	2,000	
TOTAL	0	0	0	0	0	2,000	0	2,000	

Fund No. 4:									Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	

Fund No. 5:									Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	

Fund No. 6:									Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	

Fund No. 7:									Program Code
Proposed Funding Allocation (\$1,000s)									
Component	Prior	16/17	17/18	18/19	19/20	20/21	21/22+	Total	Funding Agency
E&P (PA&ED)	0	0	0	0	0	0	0	0	
PS&E	0	0	0	0	0	0	0	0	Notes:
R/W	0	0	0	0	0	0	0	0	
CON	0	0	0	0	0	0	0	0	
TOTAL	0	0	0	0	0	0	0	0	



Application Part 7: Application Questions

Screening Criteria

The following Screening Criteria are requirements for applications to be considered for ATP funding. Failure to demonstrate a project meets these criteria will result in the disqualification of the application.

1. Demonstrated fiscal needs of the applicant:

- Is all or part of the project currently (or has it ever been) formally programmed in an RTPA, MPO and/or Caltrans funding program? Yes No
- Are any elements of the proposed project directly or indirectly related to the intended improvements of a past or future development or capital improvement project? Yes No
- Are adjacent properties undeveloped or under-developed where standard "conditions of development" could be placed on future adjacent redevelopment to construct the proposed project improvements? Yes No

2. Consistency with an adopted regional transportation plan:

- Is the project consistent with the relevant adopted regional transportation plan that has been developed and updated pursuant to Government Code Section 65080? Yes No

If "Yes", the applicant must provide that portion of Regional Transportation Plan showing that the proposed project is consistent. Attach a copy of ONLY the following elements of the plan: cover page and pages linking the proposed project to the plan. Highlighted and/or mark the attachment to clearly identify the connection.

Templeton Atascadero Connector - RTP Reference Material.pdf

Note: Projects not providing proof will be disqualified and not be evaluated.



Part B: Narrative Questions

Detailed Instructions for Question #1

QUESTION #1

DISADVANTAGED COMMUNITIES (0-10 POINTS)

This project does not qualify as a Disadvantaged Community.

A. Map of Project Boundaries, Access and Destination (0 points): Required

Provide a scaled map showing the boundaries of the proposed project/program/plan, the geographic boundaries of the disadvantaged community, and disadvantaged community access point(s) and destinations that the project/program/plan is benefiting.

Q1 - DAC Boundaries Map.pdf

B. Identification of Disadvantaged Community: (0 points)

Select one of the following 4 options. Must provide information for all Census Tract/Block Group/Place # that the project affects.

- Median Household Income
- CalEnviroScreen
- Free or Reduced Priced School Meals - Applications using this measure must demonstrate how the project benefits the school students in the project area.
- Other

Select Option: Other

Other

- Projects located within Federally Recognized Tribal Lands (typically within the boundaries of a Reservation or Rancheria?)

Yes No

- If a project applicant believes a project benefits a disadvantaged community but the project does not meet the aforementioned criteria due to a lack of accurate Census data or CalEnviroScreen data that represents a small neighborhood or unincorporated area, the applicant must submit for consideration a quantitative assessment to demonstrate that the community's median household income is at or below 80% of that state median household income. (Max of 200 Words)

Words Remaining: 23

The TAP is located proximate to three residential communities. The first is Templeton to the north. The second is Atascadero to the south. For these two communities residents live in permanent homes and are represented in US Census data. While the median household income for these two communities is higher than 80% of the state median household income, this is not true for the third community.

The map attached to Sub-question A illustrates the disadvantaged community, which is comprised of unsheltered homeless. Homelessness makes up an important portion of the population in the San Luis Obispo North County. Among the four San Luis Obispo County regions, the North County region experienced the largest increase between the 2013 and 2015 Point-in-Time count (466 individuals in 2013 and 629 individuals in 2015)(Applied Survey Research, San Luis Obispo County Homeless Census, 2015). Based on the County's most recent homeless census 72% of those living in North County were unsheltered and living in areas near the railroad tracks and riverbed that run through the project area.

- Regional definitions of disadvantaged communities as adopted in a Regional Transportation Plan (RTP) by an MPO or RTPA per obligations with Title VI of the Federal Civil Rights Act of 1964, such as "environmental justice communities" or "communities of concern," may be used in lieu of the options identified above. Applicant must provide section of the RTP referenced. (Max of 200 Words)

Words Remaining:

C. Direct Benefit: (0 - 4 points)

1. Explain how the project/program/plan closes a gap, provides connections to, or addresses a deficiency in an active transportation network or meets an important community need. (Max of 50 Words)

Words Remaining: 0

The survey referenced in the previous question found that 20% of homeless have no access to motorized transportation, but many have access to bikes, which they use for essential services, training, and job interviews. Without the proposed dedicated route, bicyclists are forced to ride on US 101, a hazardous corridor.

ATP CYCLE 3 APPLICATION FORM

DLA-001 (NEW 4/2016)

v1.3



Templeton - Atascadero Pathway (TAP)

2. Explain how the disadvantaged community residents will have physical access to the project/program/plan.

(Max of 50 Words)

Words Remaining: 1

Homeless people will have direct physical access to the project. They will be able to travel freely from any point along the TAP to Templeton, Atascadero, and to places further south where the disadvantaged community residents seek supportive services at places like Prado Day Center and DSS field offices.

3. Illustrate how the project was requested or supported by the disadvantaged community residents.

(Max of 50 Words)

Words Remaining: 9

Homeless members of the community are disenfranchised and concerned about direct engagement regarding their transportation needs. Laurel Weir of the San Luis Obispo County Department of Social Services was consulted and she advocated for improved non-motorized transportation services for homeless.

D. Project Location: (0 - 2 points)

1. Is your project located within a disadvantaged community? Partially

E. Severity: (0 - 4 points)

a. Auto calculated



Part B: Narrative Questions

Question #2

QUESTION #2

POTENTIAL FOR INCREASED WALKING AND BICYCLING, ESPECIALLY AMONG STUDENTS, INCLUDING THE IDENTIFICATION OF WALKING AND BICYCLING ROUTES TO AND FROM SCHOOLS, TRANSIT FACILITIES, COMMUNITY CENTERS, EMPLOYMENT CENTERS, AND OTHER DESTINATIONS; AND INCLUDING INCREASING AND IMPROVING CONNECTIVITY AND MOBILITY OF NON-MOTORIZED USERS. (0-35 POINTS)

Please provide the following information: (This must be completed to be considered for funding for infrastructure projects)

# of Users	Pedestrian	Bicycle	Date of Counts	Mark here if N/A to project
Current	55	9	6/7/2016	<input type="checkbox"/>
Projected <small>(1 year after completion)</small>	90	50	1/1/2022	<input type="checkbox"/>

Safe Routes to School projects and programs: The following information related to the Safe Routes to School Projects data was already entered in part 3 of the application

School	Total Student Enrollment	Approx # of Students Living Along School Route Proposed	# of Students Currently Walking/Biking to School	Projected # of Students that will walk/bike after project	Net projected Change in Students walking/biking
Templeton Middle School	538		44	53	9
Templeton Elementary School	546		29	35	6
Templeton High School	761	12	117	140	23
Total	1,845	12	190	228	38

Document the methodologies used to establish the current count data. (Max of 200 Words)

Words Remaining: 74

The methodology used to establish the current data count included, field work on a weekday and a weekend in June while school was in session. The methodological approach was built on best practices. The Applicant selected key intersections near the proposed project to most closely represent pedestrian and bicycle use in the area and observations were made in the morning and the afternoon. Direct collection on the proposed trail is not possible because no improved facilities exist currently. The data counts above represents the highest of the two weekday counts at multiple intersections. Weekend counts were also collected and they produced similarly sizable activity.

Attachment J provides detailed information about the collection method as well as additional data representing weekend traffic and patterns throughout the day.

A. Describe the specific active transportation need that the proposed project/plan/program will address. (0-15 points)
 (Max of 500 Words)

Words Remaining: 23

As mentioned previously, no pathway exists where the TAP is proposed. However, field observations (people as well as their tracks) indicate regular use of the project area for traveling between Templeton and Atascadero. Need is most clearly represented by the social pathways that people have created because they are more comfortable traveling where no facility exists than they are traveling along the highway. For some residents like the disadvantaged homeless residents and for youth, independent travel is extremely limited due to lack of vehicle access or lack of a drivers license. The need to connect Templeton and Atascadero is the most critical need because these two communities are interrelated. Given that people demonstrate demand for connections between the two cities, provision of the TAP multi-use trail several additional needs may be met.

- **Avoidance of roadway hazards:** Safety is a top priority for the Templeton Area Advisory Group they recognize that travel along the US 101 is not a desirable path of travel for non-motorized users. The TAP would eliminate the need for bicyclists to use US 101 because it will provide access to the same destinations without having to travel on the highway.

- **Avoidance of flooding and rail hazards:** In current conditions, pedestrians and bicyclists who walk or bike between Templeton and Atascadero using social trails run the risk of being trapped without an exit in the event of flash flooding or unanticipated movement on the railroad tracks. The proposed trail is designed to separate pedestrians from these hazards through construction of a bridge over Paso Robles Creek and an under-crossing below the railroad tracks.

- **Reduction in GHGs:** Travel between the two cities is only possible by motorized vehicles and many people drive as single occupants. By replacing some trips to work, school, social outings and day-to-day errands with trips by bike or foot, the project will contribute to mandated greenhouse gas



reductions.

- Safe Routes to Schools: Although there are two separate school districts for Templeton and Atascadero, enrollment is open and families may choose to send students across Paso Robles creek to attend school. For families that have constrained schedules and/or limited access to vehicles, students must walk along an unimproved path with limited directional guidance (i.e. street signs, paved routes with known beginning and end). The TAP project creates Safe Route to School and offers the myriad of benefits that accompany walking and biking to school.

- Active Recreation: Walking, running, and bicycling is an important part of fitness. Presently, residents in Templeton have no access to the Anza Trail in Atascadero. The TAP is a northern extension of the Anza Trail to tie into the right-of-way network located in Templeton. The new facility will provide access to a new group of users and will also enhance utility of the trail for existing and future trail users.

B. Describe how the proposed project/plan/program will address the active transportation need: (0-20 points)

1. Close a gap?

Yes No

No. of gaps: 1 Total length of gap(s) (feet): 2,957

Gap closure = Construction of a missing segment of an existing facility in order to make that facility continuous.

a. Must provide a map of each gap closure identifying gap and connections.

Q2 - Gap Map.pdf

b. Describe how the project links or connects, or encourages use of existing routes to transportation-related and community identified destinations where an increase in active transportation modes can be realized, including but not limited to: schools, school facilities, transit facilities, community, social service or medical centers, employment centers, high density or affordable housing, regional, State or national trail system, recreational and visitor destinations or other community identified destinations. Specific destination must be identified. (Max of 100 Words)

Words Remaining: **0**

Presently, Anza Trail is used for recreational purposes or connections within Atascadero. Commuters to work, school, and other Templeton destinations are unable to use the trail because it terminates at Paso Robles Creek. On the opposite (north) end of the proposed project area, Main Street in Templeton turns to a dirt path and then a dirt area with no distinct destination. The gap between these two existing pathways is detrimental to pedestrian and bicycle travel between the two communities. By filling in the gap, residents from both communities will have improved access to downtowns, schools, churches, farmers markets and more.

2. Creation of new routes?

Yes No

New route = Construction of a new facility that did not previously exist for non-motorized users that provides a course or way to get from one place to another.

a. Must provide a map of the new route location.

Q2 - New Route Map.pdf

b. Describe the existing route(s) that currently connect the affected transportation related and community identified destinations and why the route(s) are not adequate. (Max of 100 Words)

Words Remaining: **62**

At present, Main Street runs adjacent to Templeton High School. However, pedestrians must walk and bicyclists must ride on the shoulders of the street. With the new improvements, both user groups will have direct connections to designated pathways.

c. Describe how the project links or connects, or encourages use of existing routes to transportation-related and community identified destinations where an increase in active transportation modes can be realized, including but not limited to: schools, school facilities, transit facilities, community, social service or medical centers, employment centers, high density or affordable housing, regional, State or national trail system, recreational and visitor destinations or other community identified destinations. Specific destination must be identified. (Max of 100 Words)

Words Remaining: **58**

The new sidewalk and Class II bicycle lanes will tie into the local network of streets in Templeton. As a result, students and faculty will be able to walk or bike between the school, the downtown shopping area, churches, parks and more.

3. Removal of barrier to mobility?

Yes No

4. Other improvements to routes?

Yes No

5. Plan for increasing biking and walking in the community?

Yes No

6. Encourages and/or educates with the goal of increasing walking or biking in the community?

Yes No



Part B: Narrative Questions

Detailed Instructions for Question #3

QUESTION #3

POTENTIAL FOR REDUCING THE NUMBER AND/OR RATE OR THE RISK OF PEDESTRIAN AND BICYCLIST FATALITIES AND INJURIES, INCLUDING THE IDENTIFICATION OF SAFETY HAZARDS FOR PEDESTRIANS AND BICYCLISTS. (0-25 POINTS)

A. Describe the plan/program influence area or project location's history of collisions resulting in fatalities and injuries to non-motorized users and the source(s) of data used (e.g. collision reports, community observation, surveys, audits). (10 points max)

- The following reported crashes must have all occurred within the project's influence area within the last 5 years (only crashes that the project has a chance to mitigate):

# of Crashes	Pedestrian	Bicycle	Total
Fatalities	0	0	0
Injuries	1	3	4
Total	1	3	4

- Applicant can provide bicycle and pedestrian (only) crash rates in addition to the information required above (Max of 200 Words)

Words Remaining:

The Applicant contacted the California Highway Patrol (CHP) and the San Luis Obispo County Sheriff's Department (SLOCS) to gather traffic collision data for relevant road sections involving pedestrians and bicyclists. SLOCS indicated that the CHP maintains the most thorough collision data pertinent to the Project area and that the SWITRS and TIMS data are the best sources.

The TIMS and SWITRS data results account for all accidents in the past 5 (complete) years within the project influence area. From 2010 through 2014, one pedestrian and three bicycles were involved in a crash and were injured. A collision trend is evident along US 101. The Proposed Project implementation would provide a safe alternative route adjacent to US 101. Primary collision factors included unsafe speed (one crash), automobile right of way (two crashes), and pedestrian violation (one crash).

- Discuss specific accident data. (Max of 200 Words)

Words Remaining:

Collision indicate hazards to pedestrians and bicyclists when the travel along US 101. Non-motorized connectivity between Atascadero, Templeton, and Paso Robles is limited, and for many, the fastest route when commuting between the communities is traveling along or adjacent to US 101. Current non-motorized commuting conditions are forecast to expose more commuters. Without an non-motorized alternatives to US 101, a rise in collisions along the highway may be reasonably expected.

Attach a scaled-map which shows that all documented bicycle and pedestrian collisions/incidents (only) are within the area of influence of the proposed plan, program, or project safety improvements. This data and map should demonstrate how the data illustrates a non-motorized (not vehicular) safety issue.

Question 3 - Map of Collisions.pdf

- Attach a SWITRS or equivalent (i.e. UC Berkeley's TIMS tool) listing of all bicycle and pedestrian crashes (only) shown in the map above and in this application.

Question 3 - List of Collisions.pdf

*Applications that do not have the crash data above OR that prefer to provide additional crash data and/or safety data in a different format can provide this data below. The corresponding methodology used must also be included. Input Data and methodologies here and/or include them via a separate attachment in the field below. (Max of 200 Words)

Words Remaining:



B. Safety Countermeasures (15 points max)

Describe how the project/program/plan will remedy (one or more) potential safety hazards that contribute to pedestrian and/or bicyclist injuries or fatalities (only); Countermeasures must directly address the underlying factors that are contributing to the occurrence of pedestrian and/or bicyclist collisions.

- 1. Reduces speed or volume of motor vehicles in the proximity of non-motorized users? Yes No
- 2. Improves sight distance and visibility between motorized and non-motorized users? Yes No
- 3. Eliminates potential conflict points between motorized and non-motorized users, including creating physical separation between motorized and non-motorized users? Yes No

a. Current conflict point description: (Max of 100 Words) Words Remaining:
 Current points of conflict are along US 101 where bicycles and, less frequently, pedestrians travel adjacent to motorized vehicles traveling highway speeds.

b. Improvement that addresses conflict point: (Max of 100 Words) Words Remaining:
 The TAP will be completely separate facility from US 101 removing all potential for conflict while creating access for pedestrians and bicyclists to the same destinations.

- 4. Improves compliance with local traffic laws for both motorized and non-motorized users? Yes No

a. Which Law: Other If Other, please explain Travel in motorized right-of-way

b. How will the project improve compliance: (Max of 100 Words) Words Remaining:
 While bicyclists may travel on the shoulders of US 101, pedestrians are not allowed. Without an alternative, some pedestrians choose to walk along the highway. By providing a dedicated, safe, and direct alternative, pedestrians (and bicyclists) are more likely to choose the TAP.

- 5. Addresses inadequate vehicular traffic control devices? Yes No

- 6. Addresses inadequate or unsafe bicycle facilities, trails, crosswalks and/or sidewalks? Yes No

a. List bicycle facilities, trails, crosswalks and/or sidewalks that are inadequate: (Max of 100 Words) Words Remaining:
 Presently, the Paso Robles Creek the railroad tracks, and dirt pathways are used as informal trails for pedestrians and bicyclists.

b. How are they inadequate? (Max of 100 Words) Words Remaining:
 The trails are inadequate because they are not improved consistent with best practices for design of pedestrian and bicycle facilities. Footing and tire traction is unsure. There is poor visibility and, due to inconsistent use, provides limited "eyes on the street," a priority of Crime Prevention through Environmental Design. The trails meander and are unmapped. As a result, no directional information guides users from one location to another, and the railroad tracks and Paso Robles Creek present hazards to pedestrians and bicyclists, including potential collisions with trains and flood waters.

c. How does the project address the inadequacies? (Max of 100 Words) Words Remaining:
 The TAP creates a formal, paved facility that will be easy for people to walk and ride, will clearly communicate the path between the two communities, which provides both certainty and increased comfort, and will remove current users from hazards associated with the railroad tracks and the Salinas River.

- 7. Eliminates or reduces behaviors that lead to collisions involving non-motorized users? Yes No

a. List of behaviors: (Max of 100 Words) Words Remaining:
 Although legal, bicycling along US 101 is an unsafe behavior due to the significant speed differential between cars traveling at or above 65 m.p.h. limit and the slow comparative speed of bicyclists.

b. How will the project will eliminate or reduce these behaviors? (Max of 100 Words) Words Remaining:
 The connector will reduce these behaviors because travelers will have an attractive, safe, and comfortable alternative that did not exist previously. As a result, no fast moving cars will pose a threat to bicyclists.

Attach a map to show how these hazards relate to the crashes documented in sub-questions "A". The map from sub-question "A" can be used or a new map can be created.

Question 3 - Map of Collisions and Hazards.pdf

ATP CYCLE 3 APPLICATION FORM

DLA-001 (NEW 4/2016)

v1.3



Plans

Describe how the plan will identify and plan to address hazards identified in the plan area, including the potential for mitigating safety hazards as a prioritization criterion, and/or including countermeasures that address safety hazards. (Max of 200 Words)

Words Remaining: 198

n/a

Non-Infrastructure

Describe how the program educates bicyclists, pedestrians, and/or drivers about safety hazards for pedestrians and bicyclists. Describe how the program encourages this safe behavior. If available, include documentation of effectiveness of similar programs in encouraging safe behavior. (Max of 200 Words)

Words Remaining: 198

n/a

Include, if applicable, a map identifying safety hazards and/or photos of safety hazards. Programs should address safety hazards that have been identified through police reports, collision history, field observations, and/or other verifiable source



Part B: Narrative Questions

Detailed Instructions for Question #4

QUESTION #4

PUBLIC PARTICIPATION and PLANNING (0-10 POINTS)

Describe the community based public participation process that culminated in the project/program proposal or will be utilized as part of the development of a plan.

- A. What is/was the process of defining future policies, goals, investments and designs to prepare for future needs of users of this project? How did the applicant analyze the wide range of alternatives and impacts on the transportation system to influence beneficial outcomes? (3 points max) (Max of 200 words)**

Words Remaining: 11

SLOCOG identifies future policies based on voiced needs within the region. The most comprehensive public outreach to date was carried out during 2014 Salinas River Trail Masterplan which can be found <https://library.slocog.org/PDFS/Planning/SalinasRiverTrail/>. The transportation related needs are gathered through public outreach processes that allow SLOCOG to consider them and include them in the Regional Transportation Plan (RTP). The updated RTP identifies the US 101 North County Vision and Planned Improvements based on the US 101 Corridor Mobility Master Plan. The master plan identified several bike and pedestrian related improvements during the outreach process, many of which are also included in the project lists (RTP, 2014). For example, the Atascadero-to-Templeton Connector shared use path would create a bike and pedestrian travel option between these two communities where no practical route currently exists. The Applicant, also plans for regional and local facilities. As a result of outreach (to incorporated cities, school districts, advocacy groups, and more) and a process of prioritization, the project is the highest ranked Class I/II bikeway facility in the Public Draft of the 2015/2016 County Bikeway Plan.

- B. Who: Describe who was/will be engaged in the identification and development of this project/program/plan (for plans: who will be engaged) and how they were/will be engaged. Describe and provide documentation of the type, extent, and duration of outreach and engagement conducted to relevant stakeholders. (3 points max) (Max of 200 words)**

Words Remaining: 13

SLOCOG initially identified a non-motorized connector trail between Templeton and Atascadero in the 2014 RTP. The 2014 plan was developed in collaboration with SLOCOG's staff, the SLOCOG Board representatives from all seven City Councils and each member of the County Board of Supervisors, the SCS Policy Committee, the Air Pollution Control District (APCD), the Local Agency Formation Commission (LAFCO), the San Luis Obispo Regional Transit Authority (RTA), the California Department of Transportation (Caltrans), and staff representing each jurisdiction of the county along with SLOCOG's Technical and Citizen Advisory Committees, and a wide range of citizen and interest group input.

SLOCOG reviewed materials for every element of the proposed 2014 RTP in over 20 meetings, including the Vision and Planned Transportation Plan with the Citizens and Technical Advisory Committees and conducted 10 public meetings before the SLOCOG Board over 18 months. A proposed project focused web tool that shows project locations and basic information while providing a convenient way for the public to view proposed projects and provide comments on the plan would be utilized. In addition, the Templeton-Atascadero project was adopted in the

- C. What: Describe the feedback received during the stakeholder engagement process and describe how the public participation and planning process has improved the project's overall effectiveness at meeting the purpose and goals of the ATP. (3 points max) (Max of 200 words)**

Words Remaining: 148

Through multiple engagement processes, stakeholders responded with resounding support for the project and the feedback about trail alignment, constraints, destinations and linkages, as well as observations about current use of both US 101 and the social trails. Through engagement, the Applicant confirmed that preliminary concepts were consistent with community needs and desires.

- D. Describe how stakeholders will continue to be engaged in the implementation of the project/program/plan. (1 point max) (Max of 200 words)**

Words Remaining: 130

The SLOCOG employs their website to inform the public about implementation of the RTP as well as the previously mentioned project specific web tool. In addition, appointed and elected officials update constituents through their own outlets. Other Active Transportation Planning implementation activities include education, promotion, and outreach activities which includes an extensive outreach process to youth. These measures raise awareness, improve understanding and build positive attitudes about sustainable transportation choices.



Part B: Narrative Questions

Detailed Instructions for Question #5

QUESTION #5

IMPROVED PUBLIC HEALTH (0-10 POINTS)

- **NOTE: Applicants applying for the disadvantaged community set aside must respond to the below questions with health data specific to the disadvantaged communities. All applicants must cite information specific to project location and targeted users. Failure to do so will result in lost points.**
- A. Describe the health status of the targeted users of the project/program/plan. Describe how you considered health benefits when developing this project or program (for plans: how will you consider health throughout the plan). (5 points max) (Max of 200 words)**

Words Remaining: 7

Local data describes the health of targeted users.

- 1) According to the California Health Interview Survey (CHIS) results for the Gold Coast Region in 2012-2013, only 29.7% engaged in regular walking in the last week, which is almost 3% less than the California State Average.
- 2) According to the 2015 SLOCOG Rideshare Parent Survey, more than 41% of the parents said they never walk and 62% never bike on a regular basis.
- 3) In 2005-2006, the SLO County Public Health Department (PHD) found that 29 percent of local, preschool children, 3-5 years old, were at-risk or overweight.
- 4) According to data from the California Department of Education, in 2005-2006, 32.1 percent of SLO County 5th, 7th, and 9th graders are at risk or overweight and 68.4 percent are not physically fit.

Inactivity and dependence on vehicular travel contributes to persistent health problems and chronic disease. The trail is design to offer active transportation options, access to Farmers Markets, and recreational options so that residents will have attractive facilities where they can increase their levels of activity to parallel other health improvement strategies like improved nutrition.

- B. Describe how you expect your project/proposal/plan to promote healthy communities and provide outreach to the targeted users. (5 points max) (Max of 200 words)**

Words Remaining: 78

The County is exploring various strategies of engagement to promote healthy communities.

First, in partnership with the area schools and active transportation advocates, students, teachers, and families will be invited to participate in "Bike Train" events during which youth (directly) and adults (as volunteers and supporters) will learn how to safely use the new multiuse trail. Similar health festivals on and near the trail provide a festive environment to attract a wide range of participants.

Second, the broader public will learn about progress of the project through press releases, newspaper articles, and social media. The County is also considering a range of events to raise awareness about and enthusiasm for all new active transportation projects planned for construction in the coming years.



Part B: Narrative Questions

Detailed Instructions for Question #6

QUESTION #6

COST EFFECTIVENESS (0-5 POINTS)

A project's cost effectiveness is considered to be the relative costs of the project in comparison to the project's benefits as defined by the purpose and goals of the ATP. This includes the consideration of the safety and mobility benefit in relation to both the total project cost and the funds provided.

Explain why the project is considered to have the highest Benefit to Cost Ratio (B/C) with respect to the ATP purpose and goals of "increased use of active modes of transportation". (5 points max.) (Max of 200 words)

Words Remaining: **65**

The total benefits for the Templeton-Atascadero trail segment were assessed using the BENEFIT-COST ANALYSIS TOOL v1.0 based on information collected during recent site counts and historical collision data. The Total Benefits over a 20 year investment summary analysis are determined to be \$7,653k and total project cost \$5,848k for a Benefit:Cost ratio of 1.3 with Mobility, Safety and Recreation categories providing the most significant itemized benefit from public investment in this project.

Additionally, as the tool utilizes Net Present Benefits \$5,068k and Net Present Cost of Funds Requested \$3,161k the models analysis yields a higher Benefit: Cost Ratio of 1.6. as both ratios indicate greater than 1, the public investment can be considered a reasonable rate-of-return and is therefore justifiable on this basis.



Part B: Narrative Questions

Detailed Instructions for Question #7

QUESTION #7

LEVERAGING OF NON-ATP FUNDS (0-5 POINTS)

A. The application funding plan will show all federal, state and local funding for the project: (5 points max.)

Based on the project funding information provided earlier in the application, the following Leveraging and Matching amounts are designated for this project. Applicants must review and verify these values meet the following criteria:

Leveraging Funds

Non-ATP funds, either already expended by the applicant or funds to be programmed for use on elements within the requested ATP project. This non-ATP funding can only be considered "Leveraging" funding if it goes towards ATP eligible costs.

Matching Funds

The portion of the Leveraging funding that can be used as the local match if Federal ATP funding is programmed. These must be non-federal funds not yet expended and provided by the applicant in a specific project phase.

If these numbers do not match this criteria and/or the applicant's expectations, the numbers inputted earlier need to be revised.

Funding in \$1,000s

PA&ED Phase Project Delivery Costs:

Leveraging Funding:
 Match Funding:

Designate the Funding Type:
 Designate the Funding Type:

PS&E Phase Project Delivery Costs:

Leveraging Funding:
 Match Funding:

Designate the Funding Type:
 Designate the Funding Type:

Right of Way Phase Project Delivery Costs:

Leveraging Funding:
 Match Funding:

Designate the Funding Type:
 Designate the Funding Type:

Construction Phase Project Delivery Costs:

Leveraging Funding:
 Match Funding:

Designate the Funding Type:
 Designate the Funding Type:

NON-INFRASTRUCTURE (NI) AND "PLAN" PROJECTS:

Leveraging Funding:
 Match Funding:

Designate the Funding Type:
 Designate the Funding Type:

OVERALL TOTALS FOR PROJECT/APPLICATION:

Total Project Costs:
 Leveraging Funding:
 Match Funding:

% of Total Project Cost:	<input type="text" value="43.78 %"/>
% of Total Project Cost:	<input type="text" value="34.20 %"/>

Total Points received for "leveraging funding": (Auto-calculated)

Optional: If desired, clarifications can be added to explain the leveraging funding and its intended use on the ATP project.
 (Max of 100 Words)

Words Remaining:

CMAQ funds will be used unless a sales tax measure is successful in November 2016.



Part B: Narrative Questions

Detailed Instructions for Question #8

QUESTION #8

USE OF CALIFORNIA CONSERVATION CORPS (CCC) OR A CERTIFIED COMMUNITY CONSERVATION CORPS (0 or -5 POINTS)

- Applicant has not coordinated with both corps, or Tribal Corps (if applicable) (-5 points)
- Applicant contacted the corps, but does not intend to partner with any corps (-5 points)

Step 1: The applicant must submit the following information via email concurrently to both the CCC AND certified community conservation corps at least 5 days prior to application submittal to Caltrans. The CCC and certified community conservation corps will respond within five (5) business days from receipt of the information.

- Project Title
- Project Description
- Detailed Estimate
- Project Schedule
- Project Map
- Preliminary Plan

Click on the following links for the California Conservation Corps and community conservation corps Representative ATP contact information:

<http://calocalcorps.org/active-transportation-program/>

<http://www.ccc.ca.gov/work/programs/ATP/Pages/ATP%20home.aspx>

The applicant must also attach any email correspondence from the CCC and certified community conservation corps or Tribal corps (if applicable) to the application verifying communication/participation. Failure to attach their email responses will result in a loss of 5 points.

Attach submittal email, response email and any attachment(s) from the CCC:

Q8 - Templeton-Atascadero CCC.pdf

Attach submittal email, response email and any attachment(s) from the certified community conservation corps:

Q8 - Templeton-Atascadero CALC.pdf

Attach submittal email, response email and any attachment(s) from the Tribal corps (if applicable):

Step 2: The applicant has coordinated with the CCC AND with the certified community conservation corps, or the Tribal corps and determined the following: (check appropriate box)

- Applicant intends to utilize the CCC, certified community conservation corps, or the Tribal corps on the following items listed below. (0 points) (Max of 50 Words)
- No corps can participate in the project. (0 points)
- At the time that the application was submitted, the applicant had not received a response from the following corps: (0 points)
- the CCC the community conservation corps the Tribal corps (if applicable)



Part B: Narrative Questions

Detailed Instructions for Question #9

QUESTION #9

APPLICANT'S PERFORMANCE ON PAST ATP FUNDED PROJECTS (0 - 10 points)

For Caltrans use only.



Part C: Application Attachments

Applicants must ensure all data in this part of the application is fully consistent with the other parts of the application. See the Application Instructions and Guidance document for more information and requirements related to Part C.

List of Application Attachments

The following attachment names and order must be maintained for all applications. Depending on the Project Type (I, NI or Plans) some attachments will be intentionally left blank. All non-blank attachments must be identified in hard-copy applications using "tabs" with appropriate letter designations

Application Signature Page (Required for all applications)	Attachment A
Attachment A - Sig Page.pdf	
Engineer's Checklist (Required for Infrastructure & Combo Projects)	Attachment B
Attachment B - Eng Checklist 6-14-16.pdf	
Project Location Map (Required for all applications)	Attachment C
Part 2 - Project Location.pdf	
Project Map/Plans showing existing and proposed conditions (Required for all Infrastructure Projects; Optional for 'Non-Infrastructure' and 'Plan' Projects)	Attachment D
Templeton-Atascadero Preliminary Alignment 20150410.pdf	
Photos of Existing Conditions (Required for all applications)	Attachment E
Attachment E - Existing Conditions.pdf	
Project Estimate (Required for all Infrastructure Projects)	Attachment F
Attachment F - Eng Estimate 6-14-16.pdf	
Non-Infrastructure Work Plan (Form 22-R) (Required for all projects with Non-Infrastructure Elements)	Attachment G
Letters of Support (10 maximum) (Required or recommended for all projects as designated in the instructions) (All letters must be scanned into one document.)	Attachment H
TAP - Letters of Support.pdf	
Exhibit 22-F State Funding	Attachment I
Attachment I - 22-F.pdf	
Additional Attachments (Additional attachments may be included. They should be organized in a way that allows application reviews easy identification and review of the information.) (All additional attachments must be scanned into one document.)	Attachment J



TRANSPORTATION



HOUSING and COMMUNITY



PARKS and RECREATION



WATER



PUBLIC SAFETY



Request for Proposal
for
Grant Writing Consulting Services

Submitted
July 31, 2018

www.californiaconsulting.org

214 Main Street, Suite 102
El Segundo, CA 90245
(323) 728-9002

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COVER LETTER

July 31, 2018

Beaumont – Cherry Valley Water District
Attn: Yolanda Rodriguez
560 Magnolia Avenue
Beaumont, CA 92223

Dear Ms. Rodriguez,

California Consulting is pleased to provide this response to the Request for Proposal for Grant Writing Consulting Services and to introduce our services to the Cherry-Beaumont Valley Water District. Municipalities, School Districts, Nonprofit Organizations, and our Private Sector clients have realized grants are a source of revenue that can be used for targeted projects.

Since inception in 2004, California Consulting has developed an expertise in representing public agencies, private companies, and non-profit organizations. California Consulting has a proven track record of writing successful grant applications, writing over 880 successful grant applications totaling over \$210 million for our clients. California Consulting is the largest grant writing firm in California.

We have secured over \$1.6 billion for our clients since inception through grant writing and governmental affairs efforts combined. California Consulting continues to grow and the majority of our new clients come from referrals from existing clients. We have built this solid reputation by effectively communicating with our clients and working hard for them. Our aggressive, hard-working, and results-oriented style has translated into millions of dollars for our clients. Our grant writers are diligent and stay current on every Federal, State, Private Foundation, and Local grants available on a myriad of different topics and public policy areas. Whether it is water conservation, storm water, watershed restoration, transportation, education, or public safety our grants team locate grant fund sources and successfully write the applications.

The contact person for questions regarding this response is Dan Rodriguez, Director of Operations. He may be reached at (559) 244-0801 or via email at dan@californiaconsulting.org. The person authorized to bind the firm in contract is Steve Samuelian, CEO. He may be reached at (323) 728-9002 or via email at steve@californiaconsulting.org. *We are prepared to begin work on September 3, 2018 with the Beaumont – Cherry Valley Water District and provide tentative schedule for completing the grant availability research, grant applications and deliverable at the needs assessment meeting, if selected.*



Steve Samuelian, CEO

Statement of Qualifications

Founded in 2004, California Consulting has offices in Northern, Central, and Southern California. We currently have approximately over 80 clients statewide consisting of 40 cities, almost 30 school districts, and several nonprofit, and private sector clients that we provide grant writing services to. We have 30 members of our team from Chico in the North, to Los Angeles in the South that provide and maintain client's accounts. California Consulting continues to grow and the majority of our new clients come from referrals from existing clients. We have built this solid reputation by effectively communicating with our clients and working hard for them. California Consulting is the largest grant writing firm in California. We have secured over \$1.6 billion for our clients since inception through grant writing and governmental affairs efforts combined. The California Consulting team boasts over 24 grant writers.

California Consulting is a full service grant writing firm. We are experts in the fields of grant research and identification, preparing comprehensive and concise grant application packages, submitting grants in a timely fashion and follow through after the grant has been submitted to determine the status of the grant. California Consulting subscribes to a wide range of grant sites that allows us to track current and upcoming grants in order to let our client's know what is available and what we recommend would fit their situation. By regularly tracking grant announcements we are able to present these grant opportunities to our clients as soon as they are released.

Through years of experience our grant writers have a proven track record of success and have mastered their skills of identifying, researching, and obtaining funding for significant projects at every level of government. Our aggressive, hard-working, and results-oriented style has translated into millions of dollars for our clients. Our grant writers are diligent and stay current on every Federal, State, and private foundation grant available on a myriad of different topics and public policy areas. We have written over 880 successful grant applications totaling over \$210 million for our clients.

California Consulting is the leader in the grant writing industry. We have set the standard for the following:

- Thorough knowledge of policy and grant writing expertise
- Hands on approach by the CEO, Steve Samuelian, on strategic planning and client care
- Grant advocacy for each client
- Collaborative team approach to grant writing for every client

California Consulting staff is experienced in all facets of grant research, grant writing, and grant management. We have a thorough understanding of our client's needs through open and continual communication. Our grant writers have over 75 years of grant writing experience combined. California Consulting works collaboratively with our clients to create a strategy

identifying funding opportunities that align with the client's needs, whether it's at the Federal, State, or Private Foundation level.

California Consulting works collaboratively with its clients to create a strategy identifying funding opportunities that align with the client's needs, whether it's at the Federal, State or Private Foundation level. California Consulting is committed to the following:

- Identifying client projects and pairing those projects with funding opportunities
- Developing quality grant applications
- Advocating for your grant application during the selection process
- Following up with grant agency to ensure timely fund distribution

California Consulting Staff meets personally with clients to conduct needs assessment at the outset of the contract in order to identify the client goals. We are extensively experienced and very capable of arranging and attending any meetings on behalf of the District. The California Consulting project manager assigned to the District will be the main points of contact. They will meet with the District immediately and continue to meet with District Staff monthly to ensure an accurate and quality work product. As well, California Consulting will submit a monthly report on the first day of each month to the District. This report will outline all activities conducted by California Consulting for the District during the prior month.

Scope of Work

California Consulting is a full service grant writing firm. We are experts in the fields of grant research and identification, preparing comprehensive and concise grant application packages, submitting grants in a timely fashion, and follow through after the grant has been submitted to determine the status of the grant.

California Consulting has a fundamental business philosophy founded on open communication and tailoring the grants we go after to fit the client's needs.

1. **Funding Needs Analysis:** (*In-Depth Meeting with Department Heads to review priorities and funding needs*). We learn about the client at the outset of the contract by conducting an in-depth Needs Assessment at the District. Each client is assigned to a lead Project Manager and they meet with the client regularly and continue dialog with them on an ongoing basis. This relationship building is the key to keeping the grants pursued on target with the client's overall goals.

Sample questions asked during the Needs Assessment:

- A. List and describe any program initiatives or priority projects.
 - B. What needs, projects, or content areas would you like to target for funding? Client can list specific projects or general areas in which you have funding needs.
 - C. List any grants for which you are considering applying or have decided to apply. In addition, please list what kind of grant-writing support would be helpful for each grant.
 - D. List past grants that have been funded.
 - E. List past grant applications you would like to revise and submit again.
- The Client will provide an established point of contact for California Consulting Project Manager to contact regarding the grant.
 - California Consulting will have reasonable access to the required information and documentation required to complete the grant on behalf of the Client.
 - The Client will provide the required information and documentation in a timely manner in order for California Consulting to submit the grant by deadline.
 - California Consulting will provide a monthly report listing the Grant Opportunities we recommend for the Client based on the input from the Staff through ongoing communication.
 - At the discretion of the Client, we will present a report to the District once per quarter, or as often as requested by the Client. The report will provide an update on grants written, grant in progress, and provide the Board Members an opportunity to offer their input on the direction of the grant research and identification conducted.
 - We will provide the Client with monthly reports on grants written, grants in progress, along with upcoming grant opportunities.
 - We will provide training to District Staff in preparation of successful grant proposals and applications.

2. **Grant Funding Research and Identification:** Our Project Managers are experts in grant identification. They conduct thorough research on an ongoing basis. We have several grant related search engine and List Service websites we subscribe to in order to research all current and upcoming Federal, State, and Private Foundation grants. We track current and upcoming grants in order to let our clients know what is available and what we recommend would fit their situation. The Project Manager will assist the Client in deciding which grants fit best with the Client's projects that was identified at the Needs Assessment. The Project Manager will be able to advise the Client on the strength of the Client's project when competing for the grant and will make recommendations based on the Client's budget and ability to meet the grant requirements, as well as any other factors regarding grant agency guidelines. We will focus our grant research and identification in the following areas but not limited to:
- ✓ Infrastructure Development and Maintenance
 - Recycled/Non-Potable Water
 - Storm Water
 - ✓ Water Conservation Initiatives
 - ✓ Watershed Restoration
 - ✓ GIS Geographic Information System
 - ✓ Raw Water and Recycled Water Recharge Projects
 - ✓ Storm Water Capture Projects
3. **Grant Proposal Development:** We will write all sections of the grant application. Once a grant has been identified, we work with staff to interpret guidelines and gather information necessary for a strong proposal and application. We take your thoughts and ideas and turn them into reality. By learning about the Client's history, needs, and how the award will positively impact the Client's project, we are able to communicate that information with a clear and concise grant package to get the agency's attention. When your staff and California Consulting agree to develop a grant proposal, we will develop a checklist and schedule. The checklist and schedule will include what items the Client will be responsible for and a timeline as to when we will need them submitted to our office. The only reason the Client will have to be involved in the grant preparation process is when our Project Managers do not have access to the required information needed. California Consulting retains copies of all grants we have submitted. If a similar grant application was previously approved, we will use this application as a guide when creating the Client's application.

Below is a list of general tasks for our grant process:

- a. Create a task timeline with due dates
- a. Ensure the proposed project meets the grant agency's requirements
- b. Review similar successful grant applications and apply where possible
- c. Collect information on the project
- d. Meet with staff to create an accurate scope of work, budget, timeline, narratives, and cost analysis
- e. Attend pre-proposal conferences, webinars, as necessary
- f. Coordinate with local agencies and organizations as needed when applying for collaborative grants
- g. Obtain letters of support, when necessary

- h. Work with staff to determine if District approval is required for submission and work with staff to prepare staff report for District.*
 - i. Draft proposals and send to staff for review*
 - j. Incorporate staff edits in final drafts*
 - k. Ensure grant application is in the appropriate format with the required number of copies and all other grant requirements are met*
 - l. Submit completed application timely*
 - m. Monitor funding agency until grant awards are announced*
 - n. Obtain agency feedback if grant is not awarded and provide Client with findings and advice on future applications*
4. **Preparation of Grant Application Documentation:** The Project Manager will be responsible for preparing any associated exhibits and presentations related to the grant application being prepared. The Project Manager will prepare any studies required of the grant application. If the study requires the services of a sub-consultant, the Project Manager will assist the Client in developing an RFP/Q in an effort to obtain a qualified sub-consultant for these services. The Project Manager will review and assist the Client in the preparation of plans, specifications, bid documents, and other documents prepared by the Client or other consultants to ensure grant requirements are in compliance.
5. **Grant Review and Approval Process:** California Consulting takes pride in our impeccable grant applications. We have been successful in this area due to our thorough quality assurance measures. Our Grant Managers conduct group meetings with all Project Managers twice each month. In addition, our Grant Managers meet individually with each Project Manager regularly to review each client. These meetings thoroughly discuss the client's needs, what grants are being worked on and what additional grants may be a good fit. The review processes ensures the best quality product prior to final submission.
6. **Timely Submission:** We create a precise timeline to ensure the grant is submitted on time. This timeline not only captures the submission deadline, but establishes internal deadlines in order to obtain the information needed for a quality submissions.
7. **Grant Administration:** Some grants require post award compliance, reporting and administration. California Consulting will prepare required agency reports and submit them by the required due date. We propose that to the extent legally allowed, the Client hire California Consulting as grant administrators when dollars are available from within the grant (at no additional cost to the Client). When grant dollars from the grant are not available for administration, reporting, and evaluation purposes we have the ability to provide these services at an hourly rate.
8. **Progress Reports:** California Consulting will prepare a monthly report for the Client reflecting grants in progress, grants submitted, and grants awarded. This will provide the Client with a clear return on investment. Our staff is more than happy to present this information to the District as requested by the Client. Our Project Managers along with the Statewide Senior Director will participate and attend monthly meetings to report on work and provide updates as required by the Client.

Experience

Since opening the firm, California Consulting has written almost all types of grants available through federal, state, and private foundations. Below is a sampling of some of the grants California Consulting Grant Writers have successfully written and been awarded.

<i>Grant Name</i>	<i>Client Name</i>	<i>Award Amount</i>
Prop 1 Storm Water Grant Program (Round 1)	City of Hermosa Beach	\$3,099,400
CalFire Urban Forest Management & Expansion	City of Carson	\$270,000
Rubberized Asphalt Concrete (RAC) Program	City of Monterey Park	\$66,218
FireSubs Public Safety Grant	City of Vacaville	\$24,806
CalFire Urban & Community Grant Program	City of Maywood	\$201,000
WaterSmart Small scale efficiency	City of Coachella	\$75,000
Caltrans Active Transportation Program (ATP) Cycle 3 Grant	City of Patterson	\$907,000
Rivers and Mountains Conservancy (RMC)	City of Lynwood	\$1,692,575
Pre- Disaster Flood Mitigation Assistance - FEMA	City of Lynwood	\$51,562
CA State Parks Land & Water Conservation Fund (LWCF)	City of Huntington Park	\$650,000
FEMA Staffing for Adequate Fire & Emergency Response (SAFER)	Cosumnes CSD Fire Department	\$1,947,191
CA State Parks/OGALS Land Water Conservation Fund	City of Oakley	\$413,515
HCD Housing Related Parks Program	City of San Fernando	\$193,950
CalTrans Systemic Safety Analysis Report Program	City of Hermosa Beach	\$93,500
HCD Housing Related Parks Program (HCD)	City of Lompoc	\$307,450
HCD Housing Related Parks Program (HCD)	City of Lynwood	\$516,150
OTS Pedestrian/Bicycle Safety Grant	City of Lompoc	\$25,000
DBW Non-Motorized Boat Launching Grant	City of Waterford	\$470,290
FEMA Staffing for Adequate Fire & Emergency Response (SAFER) Grant	City of Upland	\$2,499,627

CalTrans Active Transportation Program (ATP) Cycle 2	City of Rosemead	\$702,000
Caltrans Highway Safety Improvement Program (HSIP) Cycle 7	City of Monterey Park	\$312,160
Caltrans Highway Safety Improvement Program (HSIP) Cycle 7	City of Pismo Beach	\$163,260
CalTrans Active Transportation Program (ATP) Cycle 2 - StanCOG Local Solicitation	City of Patterson	\$594,000
CalFire Urban & Community Forestry Management for GHG Reduction Grant	City of Patterson	\$150,400
CalTrans Active Transportation Program (ATP) Grant Cycle 1	City of Chowchilla	\$550,000
FEMA Assistance to Firefighters Grant (AFG)	City of Orange Cove	\$269,388
Energy Conservation Assistance Act Low Interest Loan	City of Patterson	\$2,876,172
CNRA Prop 84 California River Parkways Grant	City of Waterford	\$1,478,340
CalEMA (CalOES) Law Enforcement Specialized Units Grant	City of Orange Cove	\$536,937
HCD Emergency Housing and Capital Development	City of Delano	\$1,000,000
Sacramento COG Regional/Local for Sunrise Rehab	City of Ranch Cordova	\$1,879,000



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 2

STAFF REPORT

TO: Board of Directors
FROM: Dan Jagers, General Manager
SUBJECT: Update: Bogart Park Lease Agreement

Staff Recommendation

Review and approve the intent of the draft lease assignment and agreement, and direct staff to forward to District legal counsel for review.

Background

At its Regular Meeting on May 8, 2017, the Board of Directors approved a Memorandum of Intent with the Riverside County Regional Park and Open Space District (RCRPOSD) and the Beaumont-Cherry Valley Recreation and Parks District (BCVRPD) to begin discussion of transfer of the current lease of Bogart Park property owned by Beaumont-Cherry Valley Water District (BCVWD) from the RCRPOSD to the BCVRPD.

President Covington, at the Regular Board of Directors meeting on January 10, 2018, appointed Director Hoffman and Director Diaz to a Bogart Park Ad Hoc Committee, along with Director Ramirez as the alternate member. Since appointment, the members have changed due to the resignation of Director Diaz. Director Hoffman and Director Ramirez are now the primary Committee members and President Covington is the alternate. The Committee has made progress in determining the goals of each agency and the route to achieve them.

BCVWD staff identifies that it appears BCVWD's leased land encompasses approximately 229.77 acres of the total Bogart Park lands within the defined park property. The total park area appears to be about 308.02 acres based upon Riverside County Assessor's Parcel land information and the Riverside County owned land associated with the park is about 78.25 acres.

In addition, based upon District staff review of the Bogart Park Assessment Report dated June 16, 2016 prepared by the Riverside County Regional Parks and Open Space District, it appears some land at the north end of Area 4 (Equestrian Area) may be located outside of BCVWD parcels described in the 1931 lease between BCVWD and the County of Riverside.

The Committee met on October 15, 2018 and RCRPOSD expressed Supervisor Marion Ashley's desire to be a part of this project, which would require that certain courses of action and associated Agreements be finalized before the last Riverside County Board of Supervisor's meeting of 2018 on December 18, 2018.

Based upon the October 15, 2018 meeting it has become clear that RCRPOSD and BCVRPD have identified their desired course of action is to work forward with a Lease and Operating Agreement between RCRPOSD and BCVRPD to transition Bogart Park from RCRPOSD to BCVRPD over a three year period. This action would also necessitate the assignment of the



existing BCVWD and Riverside County Lease Agreement for the District owned land from Riverside County to BCVRPD.

Based upon these goals certain activities would need to be completed, reviewed by legal and approved by the District's Legal Counsel no later than BCVWD's November 14, 2018 Regular Board Meeting so that, if desired, the BCVWD Board could take action on the potential assignment of the existing lease agreement at that meeting. The activities that require completion are as follows:

1. Finalize a Lease and Operating Agreement between RCRPOSD and BCVRPD, and the Conveyance Agreement between RCRPOSD and BCVRPD.
2. Finalize an Assignment & Assumption Agreement of the current Lease and Operating Agreement between RCRPOSD and BCVWD to BCVRPD and BCVWD.

In a timeline provided by RCRPOSD, an Assignment & Assumption Agreement for the original BCVWD and County Lease Agreement approval is projected to be included on the Agenda for BCVWD's November 14, 2018 Regular Board meeting in order to meet the County's deadline.

RCRPOSD identifies that once the Lease and Operating Agreement between RCRPOSD and BCVRPD and the Assignment & Assumption Agreement are finalized and approved, BCVWD and BCVRPD would then be able to negotiate a replacement or extension to the reassigned Lease Agreement of BCVWD property without involvement from RCRPOSD.

BCVWD staff identifies the draft agreements should be reviewed at this time by the Board of Directors for general approval of proposed approach and upon review and approval of approach should then be forwarded to District Counsel for review and comment.

Fiscal Impact

To be determined upon finalization of the Lease and Operating Agreement between RCRPOSD and BCVRPD, the Assignment & Assumption Agreement between BCVWD and BCVRPD, and a new Lease Agreement between BCVWD and BCVRPD.

Attachment(s)

- A. Memorandum of Intent
- B. Draft Lease and Operating Agreement between RCRPOSD and BCVRPD, and the Conveyance Agreement between RCRPOSD and BCVRPD
- C. Draft Assignment & Assumption Agreement of the current Lease and Operating Agreement between RCRPOSD and BCVWD to BCVRPD and BCVWD

**MEMORANDUM OF INTENT AMONG THE RIVERSIDE COUNTY REGIONAL
PARK AND OPEN-SPACE DISTRICT, THE BEAUMONT-CHERRY VALLEY
RECREATION AND PARK DISTRICT AND BEAUMONT-CHERRY VALLEY
WATER DISTRICT REGARDING BOGART PARK**

This Memorandum of Intent (“Memorandum”) is made by and among the Riverside County Regional Park and Open-Space District (“Park District”), the Beaumont-Cherry Valley Recreation and Park District (“Recreation District”) and Beaumont-Cherry Valley Water District (“Water District”) (sometimes hereinafter collectively referred to as the “Parties”).

1. **Purpose.** The purpose of this Memorandum is to memorialize efforts among the Parties to develop a transitional plan to transfer operational activity from the Park District to the Recreation District on real property owned by the Parks District and the Water District as described herein and collectively as “Bogart Park”. This Memorandum will at all times remain non-binding, notwithstanding any public, oral or written statements, or other conduct, unless and until the Parties enter into a separate written agreement to proceed with any of the transitional plans identified through this Memorandum process.
2. **Goals.** The Parties’ goals under this Memorandum are to:
 - 2.1. Maximize access to and interaction with the environmental resources;
 - 2.2. Maximize use of Bogart Park for events co-sponsored by the Park District and Recreation District;
 - 2.3. Provide improvements during the transition period that will increase opportunities for a self-sustaining facility;
 - 2.4. Renegotiate lease terms which will transfer the lease from the Parks District to the Recreation District;
 - 2.5. Identify and engage in strategic public-private-partnerships that will enhance the existing Bogart park experience; and
 - 2.6. Establish a timeline to transfer the existing lease.
3. **Background.** On November 3, 2016 the Parks District Advisory Commission (DAC) received and filed an agenda item (12.1-Job Code 2016-8) which recommended that Park District staff continue a dialogue with the Recreation District and the Water District which was built upon previous discussions regarding transfer of a lease. On March 9, 2017 the DAC received and filed

an additional agenda item (12.1- Job Code 2017-04) which recommended creation of a multi-agency agreement. This MOI will serve as the written agreement, describing details regarding the orderly transition of Bogart Park property.

4. **Effect of Memorandum.** This Memorandum is a planning tool prepared by the Parties. The Parties do not make financial commitments by executing this Memorandum or by forming or participating in additional meetings to discuss the orderly transition of various properties.

4.1. This Memorandum is intended solely as an expression of general intent and interest and is to be used for general coordination purposes only. The Parties agree that this Memorandum does not create any formal agreement, obligation, right, duty, or otherwise, to restrict the use of real property or to finance, develop or construct any of recreational projects or related facilities of any kind whatsoever. The Parties have no contractual duties to one another, and the Parties agree and acknowledge that no implied covenants attach to this Memorandum including, but not limited to, the implied covenant of good faith and fair dealing.

4.2. This Memorandum does not prohibit the Parks District from: (i) negotiating with the Parties or other outside interests with respect to uses for and development of Park District land; (ii) entering into formal agreements with the Parties or other outside interest with respect to Park District land and any other subject of this Memorandum; and (iii) propose different or additional terms to those contained in this Memorandum.

4.3. The Parties may unilaterally terminate all activities with the other Parties concerning the subject matter of this Memorandum without liability, and without explanation, cause or reason.

4.4. This Memorandum does not constitute any pre-commitment by any of the Parties' respective future or present boards or councils nor does it commit any specific funding for the potential preferred recreational projects.

4.5. A Party that takes any actions in furtherance of or in reliance on this Memorandum does so at its own cost, expense, and risk.

5. **Implementation.** The Parties acknowledge that the implementation of this MOI is dependent on numerous factors, including but not limited to, approval by their respective

governing boards, environmental permitting, funding for capital construction, funding for operations, maintenance and replacement, partnerships with private sector investment and/or development, safety and security, and other key constraints.

6. **Term.** This Memorandum is effective upon the day and date last signed and executed by the duly authorized representatives of the Parties, and shall be in effect for a period of two (2) years. This Memorandum may be extended for additional two (2) year terms upon mutual agreement of the parties.

7. **Media.** Public information such as press releases, media interviews, public service announcements, marketing and promotional materials concerning the Parties shall be proposed to and approved by unanimous agreement of the Parties.

8. **Exhibits**

8.1. Exhibit A: Map identifying property ownership

8.2. Exhibit B: Existing Lease

8.3. Exhibit C: Bogart Park Assessment Report

(Signature Provisions on following pages)


9. **Signatures.** In witness whereof, the Parties to this Memorandum through their duly authorized representatives have executed this Memorandum on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this Memorandum as set forth herein.

The effective date of this MEMORANDUM is the date of the signature last affixed to this page.




Scott Bangle, General Manager
Riverside County Regional Park and Open-Space District

5/23/17
Date



John Flores, Chair
Beaumont-Cherry Valley Recreation and Park District

6/14/17
Date



Daniel Slawson, President
Beaumont-Cherry Valley Water District

7-12-17
Date

This Lease and Operating Agreement (“Agreement”) is made by and between Riverside County Regional Park & Open-Space District (RivCoParks), a special district in the State of California and the Beaumont Cherry Valley Recreation & Park District (BCVRPD), a special district in the State of California, sometimes jointly referred to herein as the “Parties”, for Bogart Park with reference to the following:

RECITALS

WHEREAS, RivCoParks is the owner of record of approximately 78.25 acres of land identified as Assessor’s Parcel Number 401-210-011 (“Property”) and located at 9600 International Park Road, Cherry Valley, CA 92223 also known as a portion of Bogart Park, which is depicted in Exhibit “A”, attached and incorporated herein by reference;

WHEREAS, the Beaumont Cherry Valley Water District (“District”) is the owner of record of approximately 229.77 acres of land identified as Assessor’s Parcel Numbers 401-180-001 and 401-210-010, which is depicted in Exhibit “A”, attached hereto and incorporated herein by reference (“District’s Property”), also known as a portion of Bogart Park;

WHEREAS, ~~Bogart Park~~ the Property, originally named International Park, was ~~officially~~ dedicated ~~as a park~~ on October 18, 1931, and ~~renamed on May 27, 1957~~, shall be ~~used as a for~~ park ~~or open-space purposes~~;

Commented [BK1]: DAN- Only the County Parks Property must remain a park in perpetuity. I have cleaned this up to only reference the Property, not Bogart Park.

WHEREAS, the Riverside County Parks Department (“County”) is the lessee of District’s Property pursuant to that certain lease dated October 5, 1931, which is set to expire October 5, 2030;

WHEREAS, the County and BCVRPD have ~~consent~~ support of the District to enter into an Assignment & Assumption agreement for County’s remaining lease term of 12 years;

Commented [BK2]: Dan – our assumption is that we would be moving both agreements for approval at the same time. If we don’t believe the Assignment and Assumption Agreement will be done at the same time, we can remove this recital. What if we modify to say “support” instead of consent? The support was provided by way of the MOI Agreement.

WHEREAS, BCVRPD and District ~~are negotiating~~ intend to negotiate a separate long-term lease of District owned land;

Commented [BK3]: Modified to show intention since the negotiation has not yet begun.

Commented [BK4]: DAN’s COMMENT: This negotiation has not begun at this point due to the yet to be defined needs and desires of the BCVWRPD. There may be intent to perform this work item but this activity needs to still be completed

WHEREAS, the residents living within the community around of Beaumont-Cherry Valley are in need of park space and associated services;

WHEREAS, RivCoParks desires to assist in providing a park space and associated services that are in the vital and best interest of the residents of the Beaumont-Cherry Valley area;

WHEREAS, the mission of BCVRPD is to enrich and fulfill the lives of community members by providing parks, park facilities, and recreational programs of outstanding quality;

WHEREAS, the mission of BCVRPD further endeavors to meet the needs of its growing community by acquiring, constructing, improving, maintaining, and operating recreation centers throughout the community;

WHEREAS, BCVRPD desires to provide a park space and associated services that are in the vital and best interest of the residents of the Beaumont-Cherry Valley area;

WHEREAS, these associated services consist of day use visitation for self-directed recreation, camping, fishing, hiking, horseback riding, cycling, special events, and security (“Programs and Services”);

WHEREAS, RivCoParks has acquired furniture, fixtures and equipment (“Equipment”) for Bogart Park Property in support of providing Programs and Services; and

Commented [BK5]: Dan’s comments address in Articles VII and IX.

WHEREAS, the purpose of this Agreement is to outline the terms and conditions by which RivCoParks will assist in providing Programs and Services to the community of Beaumont-Cherry Valley by facilitating the transfer of the Property to BCVRPD, and BCVRPD to provide continued Programs and Services to the community of Beaumont-Cherry Valley;

NOW THEREFORE, the Parties hereby enter into this Agreement and agree to the following:

COVENANTS
ARTICLE I

PROPERTY AND TERM

1.1 Effective Date. The “Effective Date” of this Agreement is the date the Parties sign the Agreement. However, if the Parties sign the Agreement on more than one date, then the last date the Agreement is signed shall be the “Effective Date”.

1.2 Term. The term of this Agreement shall be for a term of three (3) years (“Term”) commencing on the Effective Date as defined in Section 1.1 and expiring 3 years thereafter.

1.3 Acceptance of Property. BCVRPD accepts the Property in an “as-is” and a “where is” condition based solely on BCVRPD’s own studies and investigations on the Effective Date of this Agreement.

ARTICLE II

RENT, TAXES AND UTILITIES

2.1 Rent. BCVRPD shall operate and manage the facilities offered in a manner fully satisfactory to RivCoParks in the reasonable exercise of its discretion during the entire term of this Agreement. BCVRPD shall provide the same or reasonably similar access to amenities and recreation opportunities as RivCoParks provided in RivCoParks’s operation of the Property, and shall maintain a high level of customer service, to the satisfaction of RivCoParks without discrimination and shall operate the Property, and shall provide Programs and Services to the community, all to the satisfaction of RivCoParks without discrimination, in lieu of payment of rent by legal tender for Bogart Park Property.

2.2 Taxes and Assessments. During the term of this Agreement, BCVRPD also agrees to pay, or cause to be paid, all applicable real and personal property taxes, general and special assessments, and other charges of every description as may be levied on or assessed against the Property, improvements to the Property, or personal property owned by BCVRPD and located on or in the Property to the extent that such taxes, assessments and charges are not inconsistent with County’s RivCoParks’s exempt status under the Internal Revenue Code. BCVRPD understands and agrees that it may be subject to a possessory interest tax in accordance with the California Revenue and Taxation Code.

2.3 Utilities. During the term of this Agreement, BCVRPD further agrees to pay, or cause to be paid, all utilities used upon the Property including without limitation including water, gas, heat, light, power, telephone service, refuse collection and removal, security and/or fire alarm monitoring or related fees, and all other services supplied to the Property.

ARTICLE III

USE, MAINTENANCE, COMPLIANCE WITH LAWS, OBLIGATIONS

3.1 Limitations on Use. The Property shall be operated by BCVRPD for the sole purpose of operating a park and related services, including the provisions of Programs and Services, for the community and for the benefit of residents and the general population of the unincorporated community of Cherry Valley and surrounding areas which may include, but is not limited to: day use visitation for self-directed recreation, camping, fishing, hiking, horseback riding, cycling, and special events, security, and Programs and Services as set forth in the Recitals of this Agreement.

3.2 No Liens or Easements. Except for permitted encumbrances, easements, and restrictions approved in writing by RivCoParks, BCVRPD agrees and covenants not to place or allow to be placed any deed of trust, mortgage, or any other type of security lien upon the Property during the term of this Agreement without the written consent of RivCoParks, which consent shall be in RivCoParks's absolute discretion.

3.3 Maintenance of the Property. BCVRPD shall, at its sole cost and expense, maintain, or cause to be maintained, including but not limited to the mechanical, electrical, plumbing, and all operating systems including the parking lot and landscaping in good condition and repair for the purposes in Section 3.1 above and in accordance with all applicable laws, including without limitation such zoning, safety ordinances and laws, environmental regulations, and such rules and regulations hereunder as may be binding upon County. BCVRPD shall be paid according to the payment schedule outlined in Exhibit "B", to assist with the expenses related to maintaining the Property.

Commented [BK6]: Dan requested we include a similar Article in the Assignment & Assumption Agreement however this really should be addressed as an amendment to the original lease or new lease agreement term. We cannot amend the lease with the Assignment & Assumption Agreement.

3.5 Furniture, Fixtures and Equipment. RivCoParks and BCVRPD agree and acknowledge that RivCoParks has provided and installed furniture, fixtures and equipment for the operation of the Property (the "Equipment") as [documented in the 2016 Bogart Park Assessment Report and](#) set forth in Exhibit "C" attached hereto and incorporated herein. BCVRPD shall, at its sole cost and expense, be responsible for all necessary maintenance and repair of the Equipment.

Commented [BK7]: District has requested we ensure no "fixtures or equipment" located on District Property are included on this list to ensure separation of the District from this agreement.

3.6 Compliance with Laws and Restrictions. BCVRPD shall, at its sole cost and expense, obtain any and all necessary permits and shall fully comply with all applicable building and zoning ordinances. BCVRPD further agrees to use the Property in material compliance with all laws now in force or which may hereafter be in force relative to its use and operation of the Property, including without limitation compliance with all federal, state, and local statutes and regulations, as well as all covenants, conditions, and restrictions contained in this Agreement.

3.7 Obligations.

(a) BCVRPD Obligations. BCVRPD shall be obligated to provide Programs and Services to the community and the citizens of Riverside County including but not limited to all programs and services set forth in the Recitals and section 3.1 of this Agreement. General hours of operation are as follows:

Camping: Thursday through Sunday

Day Use: Thursday through Monday, 7 AM to sunset

The above hours are general only and subject to change. Hours may be adjusted to reflect the needs of the community.

(b) Services. BCVRPD shall, at its sole cost and expense, be responsible for all services required to maintain and operate the Property.

Commented [BK8]: Dan requested we include a similar Article in the Assignment & Assumption Agreement however this really should be addressed as an amendment to the original lease or new lease agreement term. We cannot amend the lease with the Assignment & Assumption Agreement. This issue is covered within Amendments #1 and #2 of the original lease agreement (pgs 6-10 of Exhibit A for Assignment & Assumption Agreement).

ARTICLE IV
FINANCING AND CONTRACTING WITH
THIRD PARTIES

4.1 Contracting with Third Parties. BCVRPD, in BCVRPD’s discretion, may enter into agreements and contracts for the purpose of providing services and in connection with the uses required to be performed, as set forth in Section 3.1 above on the Property, except any and all agreements or contracts in which third parties shall be permitted to occupy space in the Property, and such agreements or contracts shall be subject to approval by RivCoParks in RivCoParks’ sole discretion. All such agreements and contracts shall contain provisions necessary to protect RivCoParks, its officers, employees, successors, and assigns from any liability arising out of the operation, maintenance or replacement of any improvements and facilities in the Property as a result of such third parties. Any permit, contract, or other agreement entered into by BCVRPD affecting or related to the Property shall include a provision that gives RivCoParks the right to terminate such permit, contract, or other agreement in the event that this Agreement is terminated early or the Parties do not finalize and complete the Conveyance and defined in section 9.1 below.

4.2 No Assignment or Sublease. BCVRPD shall not assign this Agreement or sublease the Property without the written consent of RivCoParks. Such consent shall be in the sole and absolute discretion of RivCoParks and may be conditioned at the sole and absolute discretion of RivCoParks. ~~—In this event BCVRPD~~ In the event that BCVRPD subleases the Property, BCVRPD shall be required to have a license-sublease agreement executed between the BCVRPD and the other party(ies), and as part of said agreement, require said party(ies) to procure a standard commercial liability policy in the amount of \$1,000,000 naming BCVRPD, and RivCoParks as additional insureds. A copy of this such License-sublease aAgreement shall be provided to RivCoParks for RivCoParks’s review and approval.

ARTICLE V
INSURANCE

5.1 Insurance. Without limiting or diminishing the BCVRPD’s obligation to indemnify or hold RivCoParks harmless as set forth in section 10.1, BCVRPD shall procure and maintain or cause to be maintained, at its sole cost and expense, the following insurance

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coverage's during the term of this Agreement:

(a). Workers' Compensation: If the BCVRPD has employees as defined by the State of California, the BCVRPD shall maintain statutory Workers' Compensation Insurance (Coverage A) as prescribed by the laws of the State of California. Policy shall include Employers' Liability (Coverage B) including Occupational Disease with limits not less than \$1,000,000 per person per accident. The policy shall be endorsed to waive subrogation in favor of RivCoParks, and, if applicable, to provide a Borrowed Servant/Alternate Employer Endorsement.

(b). Commercial General Liability: Commercial General Liability insurance coverage, including but not limited to, premises liability, contractual liability, products and completed operations liability, personal and advertising injury, and cross liability coverage, covering claims which may arise from or out of BCVRPD's performance of its obligations hereunder. Policy shall name RivCoParks, the County of Riverside, its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, Boards of Directors, employees, elected or appointed officials, agents or representatives as Additional Insureds. Policy's limit of liability shall not be less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this Agreement or be no less than two (2) times the occurrence limit.

(c). Vehicle Liability: If vehicles or mobile equipment are used in the performance of the obligations under this Agreement, then BCVRPD shall maintain liability insurance for all owned, non-owned or hired vehicles so used in an amount not less than \$1,000,000 per occurrence combined single limit. If such insurance contains a general aggregate limit, it shall apply separately to this Agreement or be no less than two (2) times the occurrence limit. Policy shall name RivCoParks, the County of Riverside, its Agencies, Districts, Special Districts, and Departments, their respective directors, officers, Board of Supervisors, Boards of Directors, employees, elected or appointed officials, agents or representatives as Additional Insured.

(d). General Insurance Provisions - All lines:

1) Any insurance carrier providing insurance coverage hereunder shall be admitted to the State of California and have an A M BEST rating of not less than A: VIII (A:8) unless such requirements are waived, in writing, by the County of Riverside's Risk Manager. If the County of Riverside's Risk Manager waives a requirement for a particular insurer such waiver is only valid for that specific insurer and only for one policy term.

2) The BCVRPD's insurance carrier(s) must declare its insurance self-insured retentions. If such self-insured retentions exceed \$500,000 per occurrence such retentions shall have the prior written consent of the County of Riverside's Risk Manager before the commencement of operations under this Agreement. Upon notification of self-insured retention unacceptable to RivCoParks, and at the election of the County of Riverside's Risk Manager, BCVRPD's carriers shall either; 1) reduce or eliminate such self-insured retention as respects this Agreement with RivCoParks, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

3) BCVRPD shall cause BCVRPD's insurance carrier(s) to furnish RivCoParks with either 1) a properly executed original Certificate(s) of Insurance and certified original copies of Endorsements effecting coverage as required herein, and 2) if requested to do so orally or in writing by the County of Riverside's Risk Manager, provide original Certified copies of policies including all Endorsements and all attachments thereto, showing such insurance is in full force and effect. Further, said Certificate(s) and policies of insurance shall contain the covenant of the insurance carrier(s) that thirty (30) days written notice shall be given to RivCoParks prior to any material modification, cancellation, expiration or reduction in coverage of such insurance. In the event of a material modification, cancellation, expiration, or reduction in coverage, this Agreement shall terminate forthwith, unless RivCoParks receives, prior to such effective date, another properly executed original Certificate of Insurance and original copies of endorsements or certified original policies, including all endorsements and attachments thereto evidencing coverage's set forth herein and the insurance required herein is in full force and effect. BCVRPD shall not commence operations until RivCoParks has been furnished original Certificate (s) of Insurance and certified original copies of endorsements and if requested,

certified original policies of insurance including all endorsements and any and all other attachments as required in this Section. An individual authorized by the insurance carrier to do so on its behalf shall sign the original endorsements for each policy and the Certificate of Insurance.

4) It is understood and agreed to by the Parties hereto that the BCVRPD's insurance shall be construed as primary insurance, and RivCoParks' insurance and/or deductibles and/or self-insured retention's or self-insured programs shall not be construed as contributory.

5) If, during the term of this Agreement or any extension thereof, there is a material change in the permitted use, RivCoParks reserves the right to adjust the types of insurance required under this Agreement and the monetary limits of liability for the insurance coverage's currently required herein, if in the County Risk Manager's reasonable judgment, the amount or type of insurance carried by the BCVRPD has become inadequate.

6) BCVRPD shall pass down the insurance obligations contained herein to all tiers of BCVRPD's vendors working under this Agreement.

7) The insurance requirements contained in this Agreement may be met with a program(s) of self-insurance acceptable to the County.

8) BCVRPD shall notify RivCoParks of any claim by a third party or any incident or event that may give rise to a claim arising from the performance of this Agreement within ten (10) days of receipt of notice thereof.

ARTICLE VI

DAMAGE OR DESTRUCTON DURING TERM OF AGREEMENT

6.1 Restoration of Property. If during the term of this Agreement, the Property is damaged, whether or not from a risk covered by insurance, and subject to the other provisions of this Agreement regarding termination, RivCoParks shall have the option, but shall not be obligated to make the repairs necessary to restore RivCoParks's owned Property and all the

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improvements thereon, to a condition for occupancy or use comparable to the condition thereof before such damage provided that RivCoParks determines in its sole discretion, that if it is not feasible to do so, RivCoParks shall have the right to terminate this Agreement. Damages to District ~~owned~~ Property shall be restored at the discretion of the District.

ARTICLE VII
DEFAULT AND TERMINATION

7.1 Events of Default. The following events shall be a default by BCVRPD (Event of Default):

(a) Failure of BCVRPD to perform or observe any material provisions or condition of this Agreement, including, but not limited to, compliance with the uses outlined in Section 3.1 as described above;

(b) The subjection of any material right or interest of BCVRPD to attachment, execution, or other levy, or to seizure under legal process which would materially interfere with BCVRPD's ability to comply with the required uses set forth in Section 3.1 above in the Property.

(c) In the event the Property becomes a public nuisance or disturbs the peace and tranquility of the surrounding residents as adjudicated by the final judgment of a court of competent jurisdiction.

7.2 Notice and Right to Cure. Prior to pursuing any remedy for an alleged default of BCVRPD, RivCoParks shall provide written notice of default to BCVRPD. Each notice of default shall specify in detail the alleged "Event of Default" and the intended remedy. BCVRPD shall have thirty (30) days after notice is delivered (see Section 11.3: Notices, below) to cure the alleged default. In the event that any non-monetary default is of such a nature that the same cannot reasonably be cured within the thirty (30) day period described above, then the cure period shall be extended by such further reasonable period (not to exceed an additional 90 days) so long as BCVRPD commences the cure within the thirty (30) day period described above and thereafter diligently prosecutes the cure to completion.

7.3 Remedies. In the event a material default by BCVRPD continues uncured for a period of thirty (30) days following written notice, and unless a longer cure period is provided pursuant to Section 7.2, in addition to the rights and remedies provided by law or equity, County may at its election terminate this Agreement by giving BCVRPD written notice of termination. Upon the giving of notice of termination, all BCVRPD’s rights in the Property and improvements shall terminate. Promptly after notice of termination, BCVRPD shall surrender and vacate the Property and all improvements in good and clean condition.

7.4 Early Termination by BCVRPD. BCVRPD may terminate this Agreement at any time if payment as agreed to in Exhibit “B” is not provided by RivCoParks or for any reason with or without cause by giving written notice to RivCoParks at least one hundred twenty (120) days prior to the effective date of such termination. Upon such termination, BCVRPD must surrender the Property and all improvements and Equipment in good and clean condition.

ARTICLE IIX

ENVIRONMENTAL PROTECTION AND HAZARDOUS WASTE

8.1 Environmental Protection. BCVRPD shall not discharge, dispose of, or permit to escape, any drainage water, non-point source runoff, raw sewage, fuel, or waste of any kind, within or outside the Property that could result in destruction of habitat or the contamination or pollution of said Property. BCVRPD shall at all times comply with all applicable federal, state, and local laws, orders, and regulations, as may be amended with respect to the proper discharge of refuse, garbage, sewage effluent, wastes, storm water runoff, and any and all other pollutants, including soil sediments, and shall cause its employees, agents and other persons or entities under its control to comply fully with such laws, orders, and regulations.

8.2 Hazardous Materials. BCVRPD shall not use or allow anyone else to use the Property to generate, manufacture, refine, transport, treat, store, handle, recycle, release, or dispose of any hazardous material, other than as reasonably necessary for the operation of its operations and activities as contemplated under this Agreement. The term “hazardous material” means any hazardous substance, material, or waste including, but not limited to, those listed in

Commented [BK11]: Dan has requested the lease agreement revert back to the County if this agreement is terminated and there is not a new lease in place with BCVRPD. I think we would need to execute a new lease between District and RivCoParks if that occurred. I’m not sure how we would include that here. Perhaps that could be included in the Assignment & Assumption Agreement?

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49 CFR 172.101 (U.S. Department of Transportation), the Cal/EPA Chemical Lists, or petroleum products and their derivatives. However, this shall not apply to the use of petroleum products and related substances incidental to operation of motorized equipment and vehicles whose operation on the premises is contemplated by this Agreement. BCVRPD shall immediately notify RivCoParks in writing in the event of any release of hazardous material, violation of any environmental law, or actions brought by third parties against BCVRPD alleging environmental damage. BCVRPD shall indemnify and hold RivCoParks harmless from any and all damages of any nature (including payment of attorney fees) related to or arising out of the discharge or release of hazardous materials caused by BCVRPD or any person or entity under its control. RivCoParks represents and warrants to BCVRPD that, to the best of RivCoParks's knowledge, no hazardous material has been generated, manufactured, refined, transported, treated, stored, handled, recycled, released, or disposed of on, under, or about the Property prior to the effective date of this Agreement. In the event that BCVRPD discovers that any hazardous material has been generated, manufactured, refined, transported, treated, stored, handled, recycled, released, or disposed of on, under, or about the Property prior to the effective date of this Agreement, then BCVRPD shall have the right to immediately terminate this Agreement and shall have no remediation responsibility, and RivCoParks shall indemnify, defend and hold harmless BCVRPD from any and all liability of any type related thereto, including attorney's fees.

ARTICLE IX

SURRENDER AND DISPOSITION OF PROPERTY

9.1 Conveyance of Property. Ninety (90) days prior to the expiration of the Agreement, the Parties shall ~~commence finalization and execution of~~execute the donation agreement ("Donation Agreement") in substantially the same form as the ~~as~~-attached ~~as~~-Exhibit "D", and the grant deed ("Grant Deed") in substantially the same form as ~~as~~-the attached ~~as~~ Exhibit "E". The duly executed, delivered, and accepted Donation Agreement and Grant Deed will be collectively referred to as (the "Conveyance").

9.2 Use Restriction. The Donation Agreement and Grant Deed shall both include a ~~use the~~ restriction that states the following: “BCVVPD shall agree to continue to use the Property for park and open-space purposes and shall not convey Property without the consent of a majority of the voters of the BCVVPD at an election called and conducted by the Board of BCVVPD pursuant to Public Resource Code section 5540 unless otherwise permitted by law shall maintain the Property for park and open space purposes.” BCVVPD and RivCoParks hereby declare that it is their express intent that such restriction shall run with the land and shall bind all successors in title to the Property.

9.3 Surrender of Property. In the event that the Conveyance does not occur, and upon the expiration or earlier termination of this Agreement, BCVVPD shall surrender the Property to RivCoParks and all improvements and Equipment in a good and clean condition, subject to reasonable wear and tear.

9.4 Disposition of BCVVPD’s Property upon Termination. Upon the expiration or earlier termination of this Agreement without the occurrence of the Conveyance, any improvements constructed on the Property by BCVVPD (other than trade fixtures or other removable fixtures) shall become the property of RivCoParks at no cost or expense to RivCoParks.

ARTICLE X

INDEMNIFICATION

10.1 Indemnification by BCVVPD. BCVVPD shall defend, indemnify, and hold RivCoParks harmless from, and reimburse RivCoParks for, any loss, cost, expense, liability, or damages of every kind or nature, including but not limited to injury to or death of any person or destruction of property in connection with or in any way related to, the use by BCVVPD or any third party of the Property or any facilities located thereon, except to the extent of the negligent or intentional acts or omissions of, or the breach of this Agreement or violation of applicable laws by, RivCoParks or its officers, directors, employees, agents or contractors, and further excepting any claims arising from the presence, discharge or release of hazardous materials occurring prior to the effective date of this Agreement. In addition, BCVVPD shall defend, indemnify, and hold

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Commented [BK14]: Dan requested we include a similar Article in the Assignment & Assumption Agreement however this really should be addressed as an amendment to the original lease or new lease agreement term. We cannot amend the lease with the Assignment & Assumption Agreement. This issue is covered within Amendments #1 and #2 of the original lease agreement (pgs 6-10 of Exhibit A for Assignment & Assumption Agreement).

RivCoParks harmless from any breach or default in the performance of any obligation to be performed by BCVRPD under this Agreement, any violation of governmental law or regulation, or any intentional misconduct or negligence of BCVRPD, or any officer, agent, employee, guest, or invitee of BCVRPD , regardless of whether such intentional misconduct or negligence was active or passive, and except to the extent of the negligent or intentional acts or omissions of, or the breach of this Agreement or violation of applicable laws by, RivCoParks or its officers, directors, employees, agents or contractors and further excepting any claims arising from the presence, discharge or release of hazardous materials occurring prior to the effective date of this Agreement.

10.2 RivCoParks' Duties: In the event of the occurrence of any event that is an indemnifiable event pursuant to this section, RivCoParks shall notify BCVRPD in writing promptly and, if such event involves the claim of any third person, BCVRPD shall assume all expenses with respect to, the defense, settlement, adjustment, or compromise of any claim, provided that RivCoParks may, if it so desires, employ counsel at its own expense to assist in the handling of such claim, and BCVRPD shall obtain the prior written approval of RivCoParks, which shall not be unreasonably withheld, before entering into any settlement, adjustment or compromise of such claim. BCVRPD shall reimburse RivCoParks or any third party (including officers, directors, and employees of RivCoParks) for any reasonable legal expenses and costs incurred in connection with or in enforcing the indemnity herein provided.

10.3 Survival of Indemnification Requirements. All indemnification obligations hereunder shall survive the expiration or earlier termination of this Agreement.

ARTICLE XI

MISCELLANEOUS PROVISIONS

11.1 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

11.2 Severability. Each section and provision of this Agreement is severable from each other provision. In the event that any one or more of the provisions contained in this Agreement shall be invalid, illegal or unenforceable in any respect, the validity, legality, and enforceability

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of the remaining provisions contained in this Agreement shall not in any way be affected or impaired thereby. To the extent permitted by applicable law, each party to this Agreement waives any provision of law that renders any provision of this Agreement invalid, illegal, or unenforceable in any respect. In the event any provision of this Agreement shall be held invalid, illegal, or unenforceable, the parties shall use all reasonable efforts to substitute a valid, legal, and enforceable provision that implements the purposes and intent of this Agreement.

11.2 No Third Party Beneficiaries. This Agreement is made and entered into for the sole protection and benefit for the parties hereto. No other person or entity shall have any right of action based upon the provisions of this Agreement.

11.3 Notices. All notices, requests, demands, waivers, consents, and other communications hereunder shall be in writing and shall be either transmitted by facsimile machine, hand-delivered, sent by certified mail, or delivered by a regionally or nationally recognized overnight courier service, freight prepaid, and shall be deemed to have been duly given and to have become effective upon receipt, directed to the parties at the following addresses (or at such other address as shall be given in writing by a party hereto):

If to RivCoParks, addressed to: Regional Park & Open-Space District
County of Riverside
4600 Crestmore Road
Riverside, CA 92509
ATTN: Assistant Parks Director - Parks

If to BCVRPD, addressed to: Duane Burk
General Manager
Beaumont-Cherry Valley Recreation & Park District
390 W. Oak Valley Parkway
Beaumont, CA 92223

11.4 Entire Agreement. This Agreement and those documents incorporated herein by reference or attached: (i) constitutes the entire Agreement, supersedes all other prior Agreements and understandings, both written and oral, among the parties, or any of them, with respect to the subject matter of this Agreement; (ii) is not intended to confer upon any person other than the parties to this Agreement any rights or remedies under this Agreement.

11.5 Additional Documents. In addition to the documents and instruments to be delivered as provided in this Agreement, each of the parties shall, from time to time at the request of the other party, execute and deliver to the other party such other documents and shall take such other actions as may be reasonably required to carry out more effectively the terms of this Agreement.

11.6 Jurisdiction and Venue. This Agreement shall be governed and construed in accordance with the laws of the State of California. RivCoParks and BCVRPD agree that the Agreement has been entered into at Riverside County, California, and that if any action or proceeding is commenced to enforce or interpret this Agreement, venue shall be filed in the Superior Court for the state of California, in Riverside, California.

11.7 Attorney's Fees. In the event of any litigation between RivCo-Parks and BCVRPD to enforce any of the provisions of this Agreement or any right of either party hereto, Parties will be responsible for paying their own costs and expenses, including attorney's fees.

11.8 Relationship to the County and BCVRPD. Nothing contained herein shall be deemed or construed as creating the relationship of principal and agent or of partnership or of joint venture by the parties hereto, it being understood and agreed that no provision contained in this Agreement nor any acts of the parties hereto shall be deemed to create any relationship other than the relationship of RivCoParks and BCVRPD. BCVRPD is an Independent Contractor.

11.9 Binding on Successors. The terms, covenants, and Agreements contained herein shall bind and inure to the benefit of RivCoParks, BCVRPD, and each of their successors and permitted assigns.

11.10 Amendment. This Agreement shall not be modified or amended without the written consent of both BCVRPD and RivCoParks incorporated in a written amendment to the Agreement.

11.11 Waiver. Failure by a party to insist upon the strict performance of any of the provisions of this Agreement by the other party, or the failure by a party to exercise its rights upon the default of the other party, shall not constitute a waiver of such party's rights to insist and demand strict compliance by the other party with the terms of this Agreement thereafter.

11.12 Authority to Execute. The persons executing this Agreement or exhibits attached hereto on behalf of the parties to this Agreement hereby warrant and represent that they have the authority to bind the respective parties to this Agreement to the performance of its obligations herein.

DRAFT

IN WITNESS WHEREOF, the parties hereto have caused their duly authorized representatives to execute this Agreement.

COUNTY

RIVERSIDE COUNTY REGIONAL
PARK AND OPEN-SPACE DISTRICT

Signature: _____

Chairman, Board of Directors

Dated: _____

ATTEST:

Kecia Harper-Ihem
Clerk of the Board

By: _____
Deputy

(Seal)

APPROVED AS TO FORM:

Gregory P. Priamos
County Counsel

By: _____
Wesley Stanfield
Deputy County Counsel

BCVRPD

BEAUMONT
CHERRY VALLEY RECREATION &
PARK DISTRICT

Signature: _____

Dated: _____

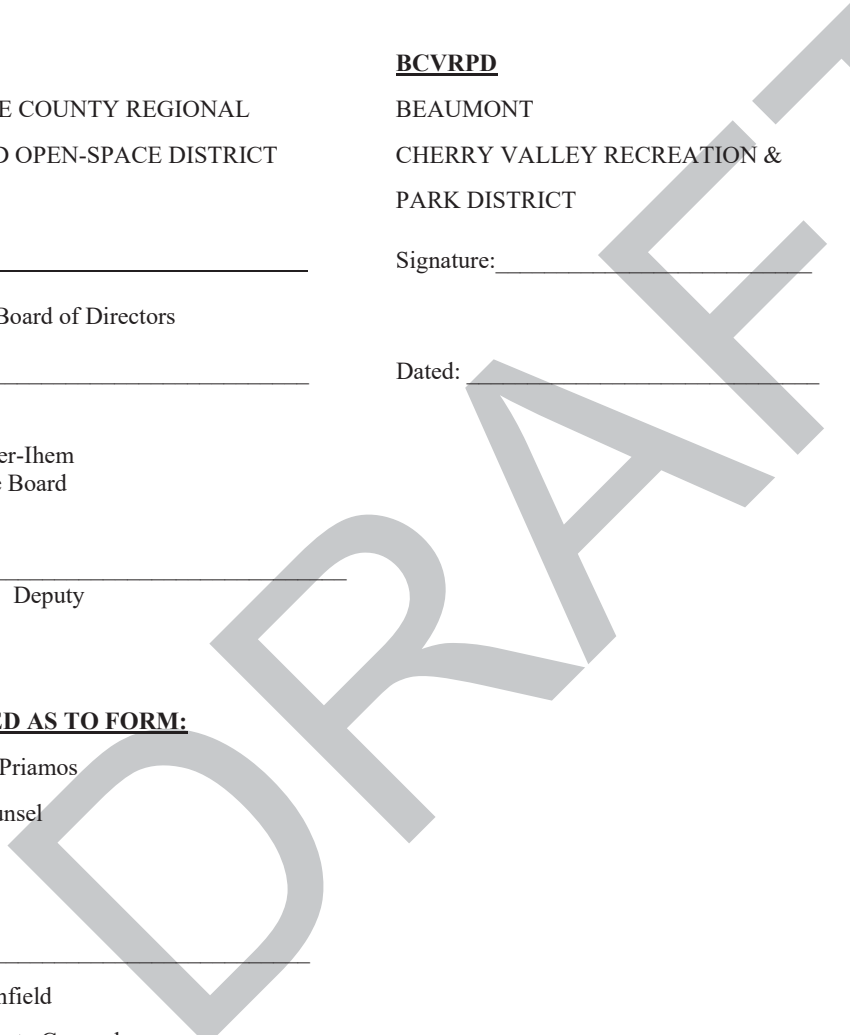
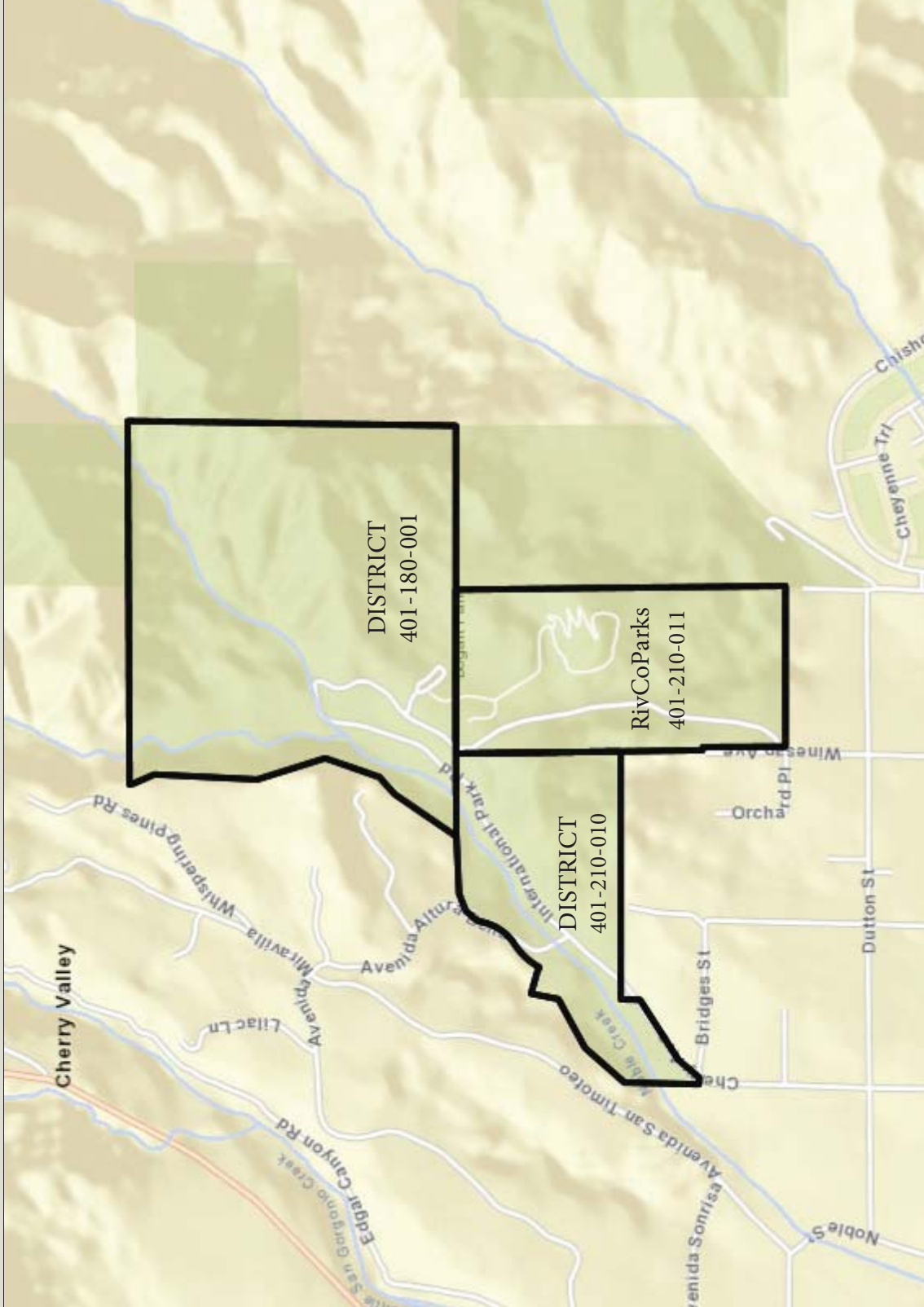


Exhibit A

Bogart Park Lease & Operating Agreement



- Legend**
- Blueline Streams
 - City Areas
 - World Street Map

IMPORTANT Maps and data are to be used for reference purposes only. Map features are approximate, and are not necessarily accurate to surveying or engineering standards. The County of Riverside makes no warranty or guarantee as to the content (the source is often third party), accuracy, timeliness, or completeness of any of the data provided, and assumes no legal responsibility for the information contained on this map. Any use of this product with respect to accuracy and precision shall be the sole responsibility of the user.

Notes
401-210-011; 401-210-010; 401-180-001



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EXHIBIT "B"

Payment Schedule:

Year 1: January 1, 2019 \$100,000

Year 2: January 1, 2020 \$100,000

Year 3: January 1, 2021 \$100,000

DRAFT

Physical Assessment

Bogart Park can be divided into four major areas based on their respective programmatic uses:

1) Entrance - the gateway for vehicular and pedestrian, and the paths for the horse trail and mountain bike trail are on the south end of this area. The connection to International Park Drive, and the road that leads through the site leading to two parking lots before splitting off towards the campsites or day use area.

2) Day Use Area - the right fork in the road turns south and heads towards the area designated for day use activities. This open space has several designated group areas, a full parking lot, playground structure, and a pond.

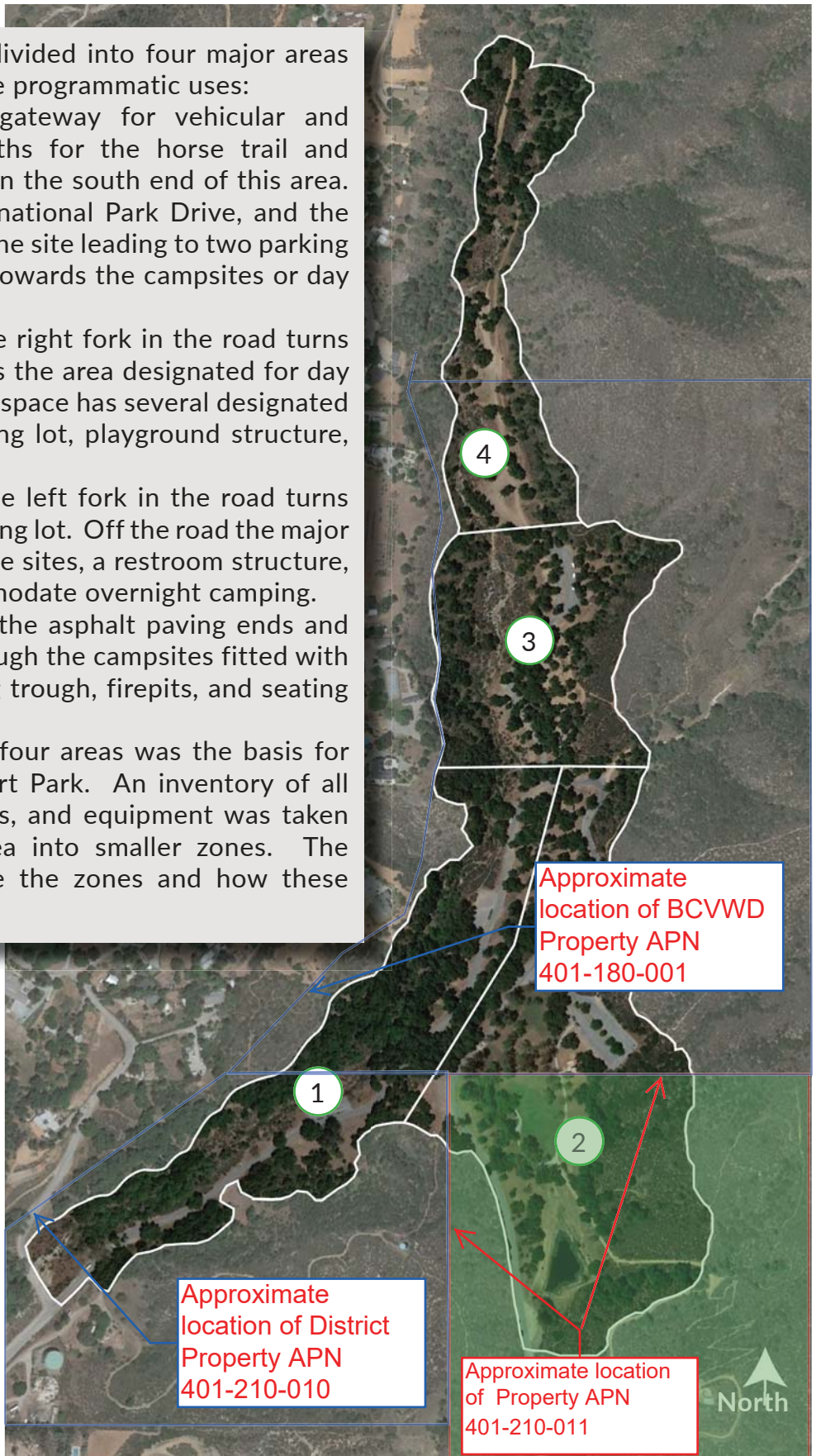
3) Camping Area - the left fork in the road turns north and leads to a parking lot. Off the road the major camping area has multiple sites, a restroom structure, and amenities to accommodate overnight camping.

4) Equestrian Area - the asphalt paving ends and the dirt road beings through the campsites fitted with horse corrals, a watering trough, firepits, and seating areas.

Distinguishing these four areas was the basis for the assessment of Bogart Park. An inventory of all site amenities, structures, and equipment was taken dividing each major area into smaller zones. The following pages indicate the zones and how these areas were divided.

- ① **Entrance**
- ② **Day Use Area**
- ③ **Camping Area**
- ④ **Equestrian Area**

Note: Equipment subject to the Lease & Operating Agreement is located on Property in a portion of Area 2.



Assessment Summary

In order to create a uniform method of assessing the physical amenities of Bogart Park, a numeric scale (1-5) was developed to assign a condition to each individual amenity:

- 5 - New, zero imperfections
- 4 - Like new, received recent repair/maintenance
- 3 - Acceptable condition, functional with no safety hazards
- 2 - Unacceptable, may be functional but in need of maintenance
- 1 - Hazardous, in need of immediate repair, at risk of safety hazards

Using this criteria, each item within Bogart Park was assessed and organized into the different physical location (Entrance, Day Use, Camping, Equestrian) and then again into the different zones within each area (Appendix D-G).

In the assessment of the amenities condition in Bogart Park, most are in acceptable or like new condition. The problems that have been identified with the amenities that are in need of repair are minor maintenance; however other features and areas have more severe environmental problems with erosion control and sediment deposition (on sidewalks, drives, and in parking lots).

The entrance and entry drive area does not have many amenities. The equipment is in acceptable condition, and while the parking lots along the main drive do have some sediment deposition, they are still functional.

The Day Use Area boasts the most physical amenities of any of the areas, most of which are in good condition. Most of the picnic tables are not mounted to the ground, and have migrated into groups throughout the day use areas leaving the barbecue pits isolated. The playground equipment is in good condition and the pond and its surroundings add an additional enhancement to the amenities surrounding them.

While the Camping Area provides a rural camping experience, the amenities provided are in good condition. For the most part, each campsite provides a fire pit, a picnic table, and a barbecue pit.

Similar to the Camping Area, the Equestrian area offers horse-centric amenities including a watering trough, hitching posts, and horse corrals. With one exception, all of the horse corrals are in good condition and the campsites offer the same amenities as the Camping Area.



AREA 2

Property and District Property (See Page 1 map herein for division)
Existing Equipment located on Property.



Approximate division of Property and District Property (401-210-011 to South of line)

Areas 1-7 (approximate): Equipment located within Property.

- 1 Bogart Park Rear Gate
 - Vehicular Gates
 - Fencing
 - Pedestrian Entry
 - Horse Entry/Trail
 - Roads
- 2 Park Pond
 - Vehicular Gates
 - Fencing
 - Pedestrian Entry
 - Horse Entry/Trail
 - Roads
- 3 Pond Bridge Area
 - Pond Bridge
 - Trails
 - Amenities
- 4 Day Use Parking
 - Parking Lot
 - Signage
 - Amenities
 - Bollards
 - Horseshoe Pits

- 5 Restroom
 - Restroom Bldg
 - Garden Wall
 - Amenities
- 6 Picnic Areas
 - Picnic Tables
 - Trash Receptacles
 - BBQ Pits
 - Water Fountains

- 7 Playground
 - Playground Equipment
 - Picnic Tables
 - Trash Receptacles
 - BBQ Pits
 - Water Fountains

- 8 Day Use Large Parking Lot
 - Parking Lot
 - Signage
 - Amenities
 - Bollards

- 9 Large Group Area A
 - Shade Structures
 - Picnic Tables
 - Trash Receptacles
 - Activity Stations
 - BBQ Pits
 - Restroom Building
 - Stairs
 - Garden Walls
 - Electrical

Areas 8 and 9 (approximate): Equipment located within District Property.

DONATION AGREEMENT

THIS DONATION AGREEMENT ("**Agreement**") is made this ____ day of _____, 2018 by and between the RIVERSIDE COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT, a park and open-space district created pursuant to the California Public Resources Code, Division 5, Chapter 3, Article 3, ("**Donor**") and the BEAUMONT-CHERRY VALLEY RECREATION & PARK DISTRICT, a special district in the State of California, ("**BCVRPD**"). Donor and BCVRPD are sometimes individually referred to as "Party" and collectively as "**Parties.**"

RECITALS

WHEREAS, Donor is the owner of certain real property located in Riverside County, State of California, consisting of approximately 78.25 acres of land identified as Assessor's Parcel Number 401-210-011 ("Property") and located at 9600 International Park Road, Cherry Valley, CA 92223 also known as a portion of Bogart Park, and as depicted on Exhibit A, attached hereto and by this reference incorporated herein (the "**Property**");

WHEREAS, BCVRPD desires to acquire the interests in the Property for the purpose of operating and maintaining it as Bogart Park which is maintained as a public park and open-space within Riverside County.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the above facts and for the covenants and agreements contained herein, BCVRPD and Donor agree as follows:

1. Dedication of Property. Donor shall offer to dedicate the Property to Parks and Parks shall accept the offer of dedication of the Property, or interest therein, upon the terms and conditions set forth in this Agreement. The Property shall be conveyed to BCVRPD on January 1, 2022 ("**Date of Transfer**"), by execution and delivery of a grant deed in the form attached hereto as Exhibit "B", and incorporated herein by reference. BCVRPD shall pay the cost of recording the deed, and any title policy it elects to purchase.

2. BCVRPD shall agree to continue to use the Property for park and open-space purposes and shall not convey the Property without the consent of a majority of the voters of the BCVRPD District at an election called and conducted by the Board of BCVRPD pursuant to Public Resource Code section 5540, or unless otherwise permitted by law.

3. Obligations of Donor.

3.1. Fee Interest. Upon acceptance by BCVRPD, Donor shall convey, assign and transfer its fee interest in the Property to BCVRPD, subject to all matters of record or which would be determined based on a survey or inspection

of the Property. BVCRPD obligation to accept the Property shall be subject to BCVRPD's determination that the condition of the Property is acceptable to it, in BCVRPD's sole discretion.

3.2. Representations and Warranties of Donor. Donor represents and warrants to BCVRPD that:

3.2.1. No Other Agreements, Undertakings or Tenancies. Donor will not enter into any agreements or undertake any new obligations prior to Close of Escrow which will in any way burden, encumber or otherwise affect the Property without the prior written consent of BCVRPD, except as may be required to maintain the Property; and

3.2.2. Disclosure. Donor has disclosed to BCVRPD all information, records, and studies in Donor's possession in connection with the Property, including any reports or studies concerning Hazardous Substances. Donor does not make any representation or warranty regarding the contents or findings of such materials.

3.2.3 Notice of Changes. Donor shall promptly notify BCVRPD of any facts that would cause any of the representations contained in this Agreement to be untrue as of the Close of Escrow. If BCVRPD reasonably concludes that a fact materially and adversely affects the Property, BCVRPD shall have the option, as its sole remedy, to terminate this Agreement by delivering written notice to Donor and Escrow Agent. If BCVRPD terminates this Agreement pursuant to this Section, Escrow Agent shall cancel the Escrow.

4. Real Estate Taxes, Bonds, and Assessments. To the extent that property taxes are assessed against the Property, real property taxes and assessments shall be prorated as of the Closing Date based on the most current real property tax bill available. Donor may seek reimbursement from the Riverside County Tax Assessor's office for any property taxes that have been paid by it, since it is exempt from payment of such taxes. BCVRPD further agrees to cooperate with Donor to provide any necessary information to the Assessor's office in connection with such request for refund.

5. Possession. Possession of the Property shall be delivered to BCVRPD at the Date of Transfer.

6. Acceptance. The acceptance of the Property by BCVRPD and the Date of Transfer are subject to the satisfaction of the following prior to execution of this Agreement:

(i) BCVRPD's approval of the condition of the Property and title to the Property;

(ii) The representations and warranties of Donor set forth in in this Agreement shall be true and accurate as of the Date of Transfer;

(iii) Donor's timely performance of all obligations under this Agreement;

(iv) No adverse material change shall have occurred with respect to the condition of the Property.

7. As used in this Agreement, notice includes but is not limited to, the communication of any notice, request, demand, approval, statement, report, acceptance, consent, waiver and appointment. All notices must be in writing. Notice is given either (i) when delivered in person to the person or company intended named below, (ii) when personally delivered; or (iii) when sent via reputable overnight courier (such as Federal Express), addressed by name and addressed to the party or persons intended, as follows:

To Donor: Riverside County Regional Park and Open Space District
Attn: Kyla Brown, Assistant Parks Director
4600 Crestmore Road
Riverside, CA 92509

Phone: (951) 955-4310

With copy to: Office of County Counsel
Attn: Synthia M. Gunzel, Chief Deputy County Counsel
3960 Orange Street, Suite 500
Riverside, CA 92501
Phone: (951) 955-6300

To BCVRPD: Beaumont Cherry Valley Recreation & Park District
Attn: Duane Burk, General Manager
390 W. Oak Valley Parkway
Beaumont, CA 92223

Notices shall be deemed effective upon receipt or rejection only. Either party may change its address for notice by giving notice of the change of address in accordance with the terms of this section.

8. Amendment. This Agreement shall not be changed, modified or amended except upon the written consent of the Parties hereto.

9. Entire Agreement. This Agreement is the result of negotiations between the Parties and is intended by the Parties to be a final expression of their understanding with respect to the matters herein contained. This Agreement supersedes any and all other prior agreements and understandings, oral or written,

in connection therewith. No provision contained herein shall be construed against BCVRPD solely because it prepared this Agreement in its executed form.

10. Binding Effect on Donor. This Agreement is not binding on Donor until Donor's board of directors has adopted a resolution approving the transaction contemplated hereby.

11. Binding Effect on BCVRPD This Agreement is not binding until approved and executed by the Chairman of the Board of Directors of BCVRPD.

12. No Obligation to Return Property. Notwithstanding any other provision of this Agreement or any other agreement between any of the Parties hereto, once the Property is conveyed to and accepted by BCVRPD, BCVRPD shall have no obligation to return the Property to the Donor under any circumstances, except in the sole and exclusive discretion of BCVRPD.

13. Form 8283 Pursuant to BCVRPD's Policies and Procedures for Execution of IRS Form 8283 for Bargain Sales and Donations, BCVRPD agrees to cooperate with Donor to acknowledge receipt of the donation of the Property by signing Internal Revenue Form 8283 (Non-Cash Charitable Contributions and any other tax-related forms or documents reasonably requested by Donor and to return any such forms to Donor within thirty business (30) days after BCVRPD' receipt of such forms from Donor. Notwithstanding the foregoing, BCVRPD makes no representation or warranty to Donor regarding the tax attributes of this transaction, nor shall BCVRPD endorse or otherwise acknowledge any valuation of the Property for tax purposes, it being understood that the Donor has obtained its own appraisals and tax advice for such purposes.

14. Counterparts. This Agreement may be executed in one or more counterparts. Each shall be deemed an original and all, taken together, shall constitute one and the same instrument.

14. Authority. Subject to the terms and conditions herein, each individual executing this Agreement on behalf of his or her respective party represents and warrants that he or she is duly authorized to execute and deliver this Agreement on behalf of said entity in accordance with the governing documents of such entity, and that upon full execution and delivery this Agreement is binding upon said entity in accordance with its terms.

[Signatures on the following pages]

IN THE WITNESS THEREOF, the Parties have caused this Agreement to be executed by their duly-authorized representatives on the date and year set forth below.

Date: _____, 2018

BCVRPD:

BEAUMONT-CHERRY VALLEY
RECREATION & PARK DISTRICT, a
special district in the State of California

By: _____
Its: President

APPROVED AS TO FORM:

By: _____

Date: _____, 2018

PARKS:

RIVERSIDE COUNTY REGIONAL PARK
AND OPEN SPACE DISTRICT, a park
and open-space district created pursuant
to the California Public Resources Code,
Division 5, Chapter 3, Article 3

By: _____
Name: _____
Its: _____

APPROVED AS TO FORM:
Gregory P. Priamos, County Counsel

By: _____

Deputy County Counsel

EXHIBIT "A"

[Attached]

All that certain real property in the County of Riverside, State of California, more particularly described as follows:

APN: 401-210-011

NEED TO ADD SURVEY DESCRIPTION HERE.

**RECORDING REQUESTED BY AND
WHEN RECORDED MAIL TO:**

Beaumont Cherry Valley Recreation
& Park District
390 W. Oak Valley Parkway
Attn: Duane Burk, General Manager
Phone: (951) 845-9555

SPACE ABOVE THIS LINE FOR RECORDER'S USE

The Undersigned Grantor(s) Declare(s):
DOCUMENTARY TRANSFER TAX \$ _____

[] computed on full value of property conveyed, OR
[]

[] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale,
[]

[] unincorporated area; [] City of _____
[]

GRANT DEED

RIVERSIDE COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT, a park and open-space district created pursuant to the California Public Resources Code, Division 5, Chapter 3, Article 3, (“**Grantor**”),

Does hereby grant to

BEAUMONT-CHERRY VALLEY RECREATION & PARK DISTRICT, a special district in the State of California,

all that certain real property in the County of Riverside, State of California, described on Exhibit “A”, attached hereto and incorporated herein by reference (“**Property**”).

SUCH CONVEYANCE IS MADE SUBJECT TO ALL MATTERS OF RECORD OR WHICH WOULD BE DISCOVERED BY A SURVEY OR INSPECTION OF THE PROPERTY, AND THE FOLLOWING RESTRICTIONS, WHICH SHALL BE BINDING ON GRANTEE AND ALL SUCCESSORS AND ASSIGNS OF GRANTEE:

The Property shall be used for park and open-space purposes and shall not be conveyed without the consent of a majority of the voters of the BCVRPD District at an election called and conducted by the Board of BCVRPD pursuant to Public Resource Code section 5540, or unless otherwise permitted by law.

EXHIBIT "A"

LEGAL DESCRIPTION

All that certain real property in the County of Riverside, State of California, more particularly described as follows:

APN: 401-210-011

NEED TO ADD LEGAL SURVEY DESCRIPTION HERE.

ASSIGNMENT AND ASSUMPTION AGREEMENT

THIS ASSIGNMENT AND ASSUMPTION AGREEMENT (“Assignment”) entered into this _____ day of _____, 20____ (“Effective Date”) by and between County of Riverside, a political subdivision of the State of California (“Assignor”), and the Beaumont Cherry Valley Recreation and Parks District, a special district in the State of California (“Assignee”). ASSIGNOR, and ASSIGNEE are sometimes referred to herein individually as a Party and collectively as the Parties.

RECITALS

WHEREAS, the Assignor and Beaumont Cherry Valley Water District (“District”) entered into that certain Lease Agreement dated October 5, 1931 (“Original Lease”) and that certain First Amendment to Lease dated May 19, 1998 (“First Amendment”) and that certain Second Amendment to Lease dated August 26, 2003 whereby the Parties agreed to terms and conditions for the use and operation of Assessor Parcel Numbers 401-210-010 and 401-180-001, located at 9600 Cherry Ave, Cherry Valley, California (hereinafter collectively the Original Lease, First Amendment, and Second Amendment are collectively referred to as the “Lease”), which is attached as Exhibit “A”, incorporated herein by reference; and

WHEREAS, Assignor desires to assign to the Assignee and the Assignee desires to assume from the Assignor all of Assignor’s rights, benefits, duties, responsibilities and obligations in the Lease;

WHEREAS, on August 7, 2018 the District issued a Memorandum regarding the Bogart Park Land Lease Agreement Review – Parcel Description Analysis clarifying the Park boundaries and assessor parcel numbers associated with the Original Lease, which is attached as Exhibit “B”, and incorporated herein by reference;

WHEREAS, Assignee and the Riverside County Regional Park & Open-Space District (“RivCoParks”) are entering into a separate Lease & Operating Agreement for management of RivCo Parks owned APN 401-210-011, a copy of which is attached as Exhibit “C”;

WHEREAS, Assignor and Assignee agree and acknowledge that certain furniture, fixtures and equipment exist for the operation of the Lease property (the “Equipment”) as documented in the 2016 Bogart Park Assessment Report and set forth in Exhibit “D” attached hereto and incorporated herein, and further that Assignee shall, at its sole cost and expense, be responsible for all necessary maintenance and, repair of the Equipment.

WHEREAS, on January 1, 1975, the Beaumont Water District officially adopted the name Beaumont-Cherry Valley Water District, which is attached as Exhibit “E”, and incorporated herein by reference;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor and the Assignee hereby agree as follows:

1. Assignment and Assumption. Assignor hereby unconditionally and irrevocably assigns, grants, and transfers all rights, benefits, duties, responsibilities and obligations in and to the Lease to Assignee. The Assignee hereby accepts and assumes all of Assignor’s rights, benefits, duties, responsibilities and obligations under the Lease attached as Exhibit “A” and shall be bound by all the terms and conditions thereof.

2. Effective Date. The Effective Date of this Agreement shall be the date upon which this Assignment is fully executed by Assignee and Assignor. In the event that this Assignment is not fully executed, then this Assignment and Assumption Agreement shall be null and void.
3. Successors-In-Interests and Assigns. The Agreement shall be binding upon and inure to the benefit Assignor and Assignee, and to their respective successors-in-interests and assigns.
4. Authority of Parties. Each person signing this Agreement represents and warrants that he or she has the proper authority to bind the Party on whose behalf he or she signs this Agreement.
5. Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original but all of which shall together constitute one and the same instrument.
6. Complete Agreement. This Agreement and all exhibits referred to in this Agreement is intended by the parties to be the final expression of their agreement with respect to the subject matter hereof, and is intended as the complete and exclusive statement of the terms of the assignment between the parties. This Agreement supersedes any prior understandings between the parties, whether oral or written.

[Signature Provisions on Following Pages]

IN WITNESS WHEREOF, the parties have executed this Agreement as of the dates set forth below.

ASSIGNOR:
County of Riverside, a political subdivision
of the State of California

ASSIGNEE:
Beaumont Cherry Valley Recreation
and Parks District

By: _____
Signing Authority
Title

By: _____
Duane Burk
General Manager

Dated: _____

Dated: _____

APPROVED AS TO FORM:
Gregory P. Priamos
County Counsel

By: _____
Wesley Stanfield
Deputy County Counsel

CONSENT OF DISTRICT

District hereby consents to the above Assignment and to the agreement by Assignee to assume all the rights, benefits, duties, responsibilities and obligations as set forth in the Lease, and release Assignors from all duties and obligations under the Lease. District acknowledges Assignee as the new party to the Lease to be operative upon the Effective Date of this Assignment.

Beaumont Cherry Valley Water District

By: _____
Signing Authority Name
Title

Dated: _____

EXHIBIT A

“LEASE”
Consisting of:

Lease of Bogart Park

And

First Amendment to Lease with Bogart Park

And

Second Amendment to Lease with Bogart Park

DRAFT

Exhibit A

LEASE

1 THIS AGREEMENT, made this 5th day of October, 1931 by and
2 between the Beaumont Irrigation District, an irrigation district
3 duly organized and existing under provisions of an act of the
4 Legislature of the State of California, as approved March 31, 1897,
5 and the acts amendatory and supplementary thereto, FIRST PARTY,
6 hereinafter termed "Lessor", and the County of Riverside, State of
7 California, SECOND PARTY, hereinafter termed "Lessee",
8

9 WITNESSETH: That the said Party of the First Part does,
10 by these presents, demise and lease unto the said Party of the
11 Second Part, for a term of ninety-nine years from the date hereof
12 that certain real property located in Riverside County, State of
13 California, the location thereof being shown in red on the blue-
14 print map attached hereto and made a part hereof, together with
15 the appurtenances thereto appertaining, and more particularly des-
16 cribed as follows, to-wit:

17 ~~Undivided one half ($\frac{1}{2}$) of the South half ($S\frac{1}{2}$) of the~~
18 ~~N. E. $\frac{1}{4}$ and the W $\frac{1}{2}$ of the S. E. $\frac{1}{4}$ of Section 14, T. 2S.,~~
19 ~~R. 1W., S. B. B. & M., Riverside County, California, con-~~
20 ~~taining 160.0 acres, more or less.~~ *J.S.*
E.D.

21 The N.E. $\frac{1}{4}$ of Section 23, T. 2S., R. 1W., S. B. B. & M.,
22 Riverside County, California, containing 160.0 acres, more
23 or less. All that part of the N.W. $\frac{1}{4}$ of Sec. 23, T. 2S.,
24 R. 1W., S. B. B. & M., Riverside County, California, not
25 contained in the map of the Subdivision La Mesa Miravella
26 as recorded in the Recorder's Office of Riverside County,
27 California, in Book 6 of Maps at Page 79, containing 25.0
28 acres, more or less.

29 The E. $\frac{1}{2}$ of the N. E. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$ of Sec. 23, T. 2S.,
30 R. 1W., S. B. B. & M., Riverside County, California, con-
31 taining 20 acres, more or less.

32 All that part of the W. $\frac{1}{2}$ of the N.E. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$, the
N.W. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$ of the N.W. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$
of Section 23, T. 2S., R. 1W., S. B. B. & M., Riverside County,
California, not contained in the map of the Subdivision of La
Mesa Miravilla, recorded in the Recorder's Office of Riverside
County, California, in Book 6 of Maps at Page 79, and except-
ing therefrom 0.82 acres conveyed by deed to M. L. Davidson
dated November 5th, 1918, containing 49.58 acres, more or less.

The several parcels of land as hereinbefore described comprise
~~160.0~~ acres, more or less.

254.58

1 This agreement is made on the following terms and con-
2 ditions:

3 FIRST. The premises hereby let by the Lessor are to be
4 used specifically by the Lessee for public park purposes and not
5 otherwise.

6 SECOND. The Lessee hereby acknowledges the title of the
7 Lessor in and to the said described premises and agrees never to
8 assail or resist said title, other than as limited by this agree-
9 ment.

10 THIRD. The Lessee shall not assign or transfer this agree-
11 ment, in whole or in part, or permit any other person to use the
12 right or privilege hereby given without the written consent of the
13 Lessor first had and obtained.

14 FOURTH. The Lessee will fully pay for all materials joined
15 or affixed to said premises by or upon the authority of said Lessee,
16 and pay in full all persons that perform labor upon said premises
17 for the said Lessee and will not permit or suffer any Mechanic's
18 Liens or Materialmen's Liens of any kind or nature to be enforced
19 against said premises for any work done or materials furnished
20 thereon at the Lessee's instance or request.

21 FIFTH. The Lessor hereby agrees that the heretofore des-
22 cribed lands shall be in full charge and care coming under direct
23 supervision of the County Board of Supervisors of Riverside County,
24 California, the same being the Lessee, so long as the same are main-
25 tained and used for public park purposes, subject to water right
26 reservations, reservations for the development of water, the laying
27 and maintaining of water lines either above or beneath the soil
28 surface and such other necessary works as pertain to waterworks,
29 together with the further reservation of all mineral and mining
30 rights on or attaching to said premises.

31 SIXTH. The Lessee hereby agrees to use said premises here-
32 by let during the term of said lease for public park purposes only

1 and further agrees that the said First Party, its employees or
2 agents, shall at all times have free entrance and access to said
3 premises for the purpose of doing any and all necessary labor,
4 work, or things in connection with the reservations herein reser-
5 ved by the said First Party.

6 SEVENTH. It is hereby understood and agreed by and between
7 the said Lessor and Lessee that the said Lessee shall have the right
8 and authority to erect and/or construct any improvements, buildings,
9 or structures which the said Lessee may desire and which are inci-
10 dental and reasonable to the occupancy of said premises for public
11 park purposes so long as said Lessee does not create or permit to
12 exist a condition of waste upon said premises and so long as said
13 improvements, buildings or structures do not interfere with the
14 maintenance and operation of the water rights and mineral rights
15 herein reserved by the said First Party. And it is further under-
16 stood by and between the said Lessor and the said Lessee that the
17 said Lessee during the term of this lease shall keep and protect
18 the said Lessor free from any damage or loss as the result of the
19 occupancy of the said Lessee of the devised premises for public
20 park purposes.

21 EIGHTH. The terms and conditions of this agreement shall
22 inure to the benefit of and be binding upon the heirs, executors,
23 administrators, successors and assigns of the parties hereto, ex-
24 cept that in case any court of competent jurisdiction adjudges
25 that the making of this lease was in excess of the legal rights of
26 the Beaumont Irrigation District so to do then in that event the
27 Lessor may without liability cancel such lease or for any violation
28 of the covenants or conditions may terminate the estate hereby cre-
29 ated and granted to the said Lessee with the further understanding
30 that in the event of such termination as herein provided for the
31 said Lessee shall have the right thereupon to remove from said
32 premises any buildings or structures placed thereupon by the said

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Lessee and in so doing the said Lessee shall save and protect the
said Lessor from any damages in the removal thereof.

BEAUMONT IRRIGATION DISTRICT

By *E. Morcos*
President

ATTEST *Shatt*
Secretary

COUNTY OF RIVERSIDE

By *J. C. Farnham*
Chairman of the Board of
Supervisors of Riverside
County, California.

*Approved
as to form
James C. Farnham
District Attorney*

304
A



April 28, 1998

FROM: Parks Director

SUBJECT: AMENDMENT TO BOGART PARK LEASE - Supervisorial District III

RECOMMENDED MOTION: That the Board of Supervisors approve the first Amendment to the lease between the County and Beaumont-Cherry Valley Water District for Bogart Park.

INFORMATION: The County currently leases certain real property from Beaumont-Cherry Valley Water District ("District") which property is used for recreational purposes as Bogart County Park.

The lease agreement was executed in 1931 for a term of 99 years. The District's insurance carrier would like to update and amend the agreement to add a risk transfer provision that requires the County to indemnify and hold the Beaumont-Cherry Valley Water District harmless for acts committed by County. The County is also required to obtain a policy of general liability insurance of not less than \$1 million. The new indemnification and insurance provisions are mutual.

(Continued)

COUNTY COUNSEL

MAY 04 1998

By: *Andrea V. Weber*

FINANCIAL DATA: NOT APPLICABLE

CURRENT YEAR COST \$

ANNUAL COST: \$

NET COUNTY COST -0-

IN CURRENT YEAR BUDGET: YES ___ NO ___

BUDGET ADJUSTMENT: YES ___ NO ___ FOR FY: _____

SOURCE OF FUNDS:

C.A.O. RECOMMENDATION:

APPROVE

J. [Signature]

Executive Officer Signature

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Mullen, seconded by Supervisor Wilson and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Venable, Wilson and Mullen
Noes: None
Absent: None
Date: May 19, 1998
xc: Parks, Co.Co., Auditor

Gerald A. Maloney
Clerk of the Board
By: *M. [Signature]*
Deputy

3.26

Department Recommendation: Policy Policy
 Consent Consent
Per Executive Office:

FIRST AMENDMENT TO BOGART PARK LEASE

The parties hereto have previously made and entered into a lease of certain real property situated generally in the County of Riverside, State of California, known as Bogart Park. The Beaumont-Cherry Valley Water District, an irrigation district duly organized and existing under provision of an act of the Legislature of the State of California, is the Lessor in said Lease and the County of Riverside, a political subdivision of the State of California, is Lessee thereunder.

Lessor and Lessee hereby amend the Bogart Park Lease as follows:

NINTH-Indemnification, Lessor

To the fullest extent permitted by law, Lessor shall indemnify and hold harmless the Lessee and its officers, directors, employees, or volunteers from and against all claims, liability, damages, losses and expenses (including attorney's fees and costs of defense) for injury or damage to persons or property arising out of or in any way connected with the ownership, condition, use, occupancy or the exercise by Lessor of any of the rights granted herein, of the described lands without limitation, except for the sole negligence or willful misconduct of the Lessee. Lessee shall not be liable to Lessor for damage or injury done to any of the facilities placed on the premises by Lessor, including any of Lessor's property, used in connection with its operations thereon. Lessor's obligation to indemnify shall not be restricted to insurance proceeds.

TENTH-Indemnification, Lessee

To the fullest extent permitted by law, Lessee shall indemnify and hold harmless the Lessor and its officers, directors, employees, or volunteers from and against all claims, liability, damages, losses and expenses (including attorney's fees and costs of defense) for injury or damage to persons or property arising out of or in any way connected with the condition, use, occupancy or the exercise

is imposed, \$2 million. Lessee's officers, directors, employees and volunteers shall be included as additional insureds for the liabilities assumed in paragraph ten. Lessee, its officers, directors, employees or volunteers shall be named as additional insureds using the ISO CG 2026 or equivalent additional insured endorsement.

BEAUMONT-CHERRY VALLEY
WATER DISTRICT (Lessor)

By: Peter A. Grimes
Peter A. Grimes, Interim Presiding Officer

ATTEST: Jo Ellen Seick
Jo Ellen Seick,
Secretary

COUNTY OF RIVERSIDE (Lessee)

By: John F. Tavaglione
Chairman, Board of Supervisors
JOHN F. TAVAGLIONE
CHAIRMAN OF THE BOARD OF SUPERVISORS

ATTEST: MAY 19 1998

GERALD A. MALONEY
Clerk of the Board

By: Samuel Long
Deputy

FORM APPROVED
COUNTY COUNSEL

MAY 04 1998
BY: Jordan V. Wood

[SEAL]

f:\jmlattach2\138

5/19/98 3.26

157
SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



FROM: Parks Department

SUBMITTAL DATE: July 15, 2003

SUBJECT: SECOND AMENDMENT TO BOGART LEASE – District V

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve the attached Second Amendment to Lease between the County of Riverside and Beaumont-Cherry Valley Water District for Bogart Park;
2. Authorize the Chairman to execute four (4) copies of the Second Amendment;
3. Direct the Clerk of the Board to return four (4) copies of the amendment to the Parks Department for further processing; and
4. Authorize the Parks Director to execute and administer same in accordance with its terms and conditions.

BACKGROUND: The County currently leases certain real property from the Beaumont-Cherry Valley Water District (BCVWD) ("District") for recreational purposes at Bogart County Park. The Lease Agreement was executed in 1931 for a term of 99 years. On May 19, 1998, M.O. 3.26, your honorable Board approved the First Amendment to the Bogart Lease to add a risk transfer provision that required the County to indemnify and hold the BCVWD harmless for acts committed by the County.

(continued on page 2)

386- Second Amendment to Bogart Lease

Attachment: Second Amendment to Lease

BOG-10, Co. Co.

Paul Frandsen

Paul Frandsen, Parks Director

FINANCIAL DATA: Not applicable

CURRENT YEAR COST \$

ANNUAL COST: \$

NET COUNTY COST \$

IN CURRENT YEAR BUDGET: \$

BUDGET ADJUSTMENT FY: \$

SOURCE OF FUNDS:

C.E.O. RECOMMENDATION:

APPROVE

County Executive Office Signature

S. Duggan

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Wilson, seconded by Supervisor Tavaglione and duly carried by unanimous vote, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Buster, Tavaglione, Venable and Wilson

Noes: None

Absent: Ashley

Date: August 26, 2003

xc: Parks, Co.Co., Auditor

Nancy Romero
Clerk to the Board

By *[Signature]*
Deputy

Per Executive Office:
Prev. Agn. ref.

Dist. V

AGENDA NO.

7 20

1
2 **SECOND AMENDMENT TO BOGART PARK LEASE**

3 **HOLD HARMLESS AND INDEMNIFICATION**

4 **(Terms and Conditions Ninth and Tenth)**

5 The parties hereto have previously made and entered into a lease of certain real
6 property situated generally in the County of Riverside, State of California, known as
7 Bogart Park. The Beaumont-Cherry Valley Water District, an irrigation district duly
8 organized and existing under provisions of an act of the Legislature of the State of
9 California, is the Lessor in said Lease and the County of Riverside, a political
10 subdivision of the State of California, is Lessee thereunder.

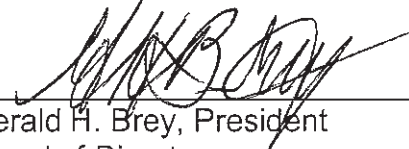
11 Lessor and Lessee hereby amend the Bogart Park Lease terms and conditions
12 Ninth and Tenth as follows:


13 Beaumont-Cherry Valley Water District, its directors, officers, employees and
14 representatives (collectively hereinafter: "District") shall indemnify and hold harmless
15 the County of Riverside, its agencies, Districts, Special Districts and Departments, their
16 respective directors, officers, Board of Supervisors, elected and appointed officials,
17 employees, agents and representatives (collectively hereinafter: "County") from any
18 liability whatsoever, including but not limited to property damage, bodily injury or death
19 of any person, that arises out of the District's operation of, maintenance, repair or
20 replacement, and/or transportation to or from the District's facilities of equipment located
21 on the property leased by the District to the County, commonly known as Bogart Park.
22 District shall defend, at its sole expense, all claims, actions, proceedings and suits, in
23 law or in equity, and shall pay all costs and fees including but not limited to attorney
24 fees, cost of investigation, settlements or awards, arising out of the District's operation
25 of, maintenance, repair or replacement, and/or transportation to or from the District's
26 facilities of equipment at Bogart Park.

27 The County shall indemnify and hold harmless the District from any liability
28 whatsoever, including but not limited to property damage, bodily injury or death of any

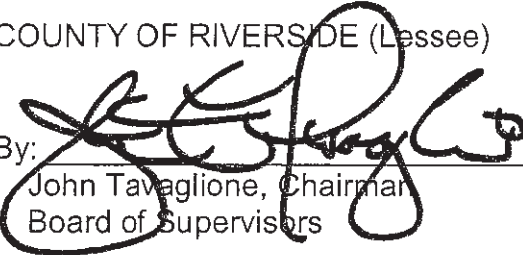
1 Dated: AUG 26 2003

BEAUMONT-CHERRY VALLEY
WATER DISTRICT (Lessor)

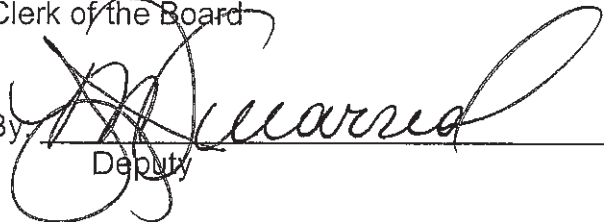
By: 
Gerald H. Brey, President
Board of Directors

6
7 ATTEST: 
8 C. J. Butcher, Secretary


9 COUNTY OF RIVERSIDE (Lessee)

10
11 By: 
12 John Tavaglione, Chairman
13 Board of Supervisors

14 ATTEST:
15 Nancy Romero
16 Clerk of the Board

17 By: 
18 Deputy

FORM APPROVED
COUNTY COUNSEL

AUG 18 2003
BY 
ASSISTANT COUNTY COUNSEL

26 wordocs/Att-386 2nd Amendment Bogart Lease

stach 8/2003



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 3

STAFF REPORT

TO: Board of Directors
FROM: Dan Jagers, General Manager
SUBJECT: Discussion and Consideration Regarding the Draft 2018 Imported Water Rate Analysis for the San Gorgonio Pass Water Agency

Staff Recommendation

Approve correspondence addressed to the Board of Directors of the San Gorgonio Pass Water Agency.

Background

The San Gorgonio Pass Water Agency (SGPWA) is the regional State Water Contractor currently serving BCVWD, Yucaipa Valley Water District, and the City of Banning. BCVWD obtains imported water from the SGPWA to serve its ratepayers and to recharge the adjudicated Beaumont Basin.

On January 16, 2018, the San Gorgonio Pass Water Agency (SGPWA) Board authorized staff to contract with David Taussig & Associates (Consultant) to perform a water nexus study and begin work on adoption of a new water rate. On March 1, 2018 the SGPWA conducted a Water Rate Workshop to provide information about the process and receive input from the public about issues related to adjustments in the imported water rate.

On September 13, 2018, the SGPWA presented the preliminary results of a water rate model developed by the Consultant. The proposed rates were discussed at the October 2, 2018 Special Meeting of the BCVWD Board of Directors. Mr. Jeff Davis, General Manager of the SGPWA, assured the Board that the rate captures only those costs directly associated with procuring and delivering water supplies. Regarding capacity fees, Mr. Davis noted that the law does not allow SGPWA to set a developer fee on its own; it must cooperate with BCVWD, and the other public agencies they serve, to do so therefore it cannot yet be determined whether there will or will not be a capacity fee.

Summary

At its October 16, 2018 meeting, the Yucaipa Valley Water District presented similar information, and approved correspondence to the SGPWA detailing a number of requests to facilitate the imported water rate process. These requests are well communicated and reflective of similar beliefs and questions of BCVWD staff. BCVWD Staff requests the Board review and approve a letter detailing the same or similar requests, as reflected in Attachment A.

Fiscal Impact

Existing Customers



These are direct, pass-through rates from the SGPWA, which result in changes to customer bills at an existing rate of \$0.46 per 100 cubic feet (ccf). With an average BCVWD connection using 19,770 gallons (26.43 ccf) per month, the current SGPWA pass-through results in a monthly charge of \$12.16. Table A shows the impact to the typical customer bill:

Table A					
SGPWA Proposed Scenario	Unit Cost per AF	Unit Pass-Through Cost (\$/ccf)	Average Cost / Connection / month	\$ Increase	% Increase
Current Rate	\$317	\$0.46	\$12.16	\$0.00	0%
Gradually Increasing Rate, 100% Nickel Water in Capacity Fee	\$417	\$0.957	\$25.29	\$13.13	108%
Gradually Increasing Rate, 0% Nickel Water in Capacity Fee	\$689	\$1.58	\$41.76	\$16.47	243%

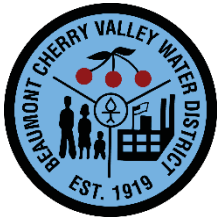
New development

Depending on the final imported water rate and associated potential capacity fee adopted by the SGPWA, new development will most likely also be impacted by the significant increase in the proposed rate adjustment and/or capacity fee. The impact from these figures will hopefully resolve as the SGPWA's rate and capacity fee activities move forward.

Attachments

Proposed correspondence addressed to the San Geronimo Pass Water Agency

Prepared by: Lynda Kerney, Administrative Assistant and Mark Swanson, Senior Engineer



Beaumont-Cherry Valley Water District

560 Magnolia Avenue • Beaumont, CA 92223
Phone (951) 845-9581 Fax (951) 845-0159
email: info@bcvwd.org

www.bcvwd.org

October 26, 2018

Board of Directors

David Hoffman
Division 5

John Covington
Division 4

Daniel Slawson
Division 3

Lona Williams
Division 2

Andy Ramirez
Division 1

San Geronio Pass Water Agency Board of Directors
C/O: Mr. Jeff Davis, PE, General Manager
San Geronio Pass Water Agency
1210 Beaumont Avenue
Beaumont, CA 92223

SUBJECT: Suggestions for the Review, Study and Evaluation of a Proposed Imported Water Rate Adjustment by the SGPWA

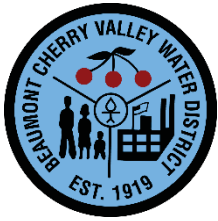
Dear Members of the Board:

The imported water rate model developed by consultant David Taussig and Associates as presented to the SGPWA Board of Directors on September 13, 2018 identified six preliminary scenarios that indicated an imported water rate charge from \$317 per acre-foot to a minimum of \$417 per acre-foot and a maximum of \$689 per acre-foot. The Beaumont-Cherry Valley Water District has some serious concerns regarding this matter.

The current SGPWA imported water rate results in a unit pass through cost of \$0.46 per 100 cubic feet (ccf) for BCVWD customers. Based on a typical monthly water consumption of 19,770 gallons (26.43 ccf) per month, this rate results in a monthly pass through charge of \$12.16. Implementation of one of the six proposed scenarios presented by David Taussig and Associates will increase the monthly imported water component (pass-through) to customers by 108 to 243 percent between 2019 and 2021, a drastic increase for any household to absorb. This increase would also substantially affect schools, parks, and other high-volume users. Depending on the water rate scenario, there may also be an annual rate increase of 12% for the potential increase in power costs.

The Board of Directors of the Beaumont-Cherry Valley Water District has the following requests:

- The imported water rate spreadsheet by David Taussig and Associates should be expanded to include actual data from calendar years 2012 – 2016 to illustrate the trends in prior revenue and expenses.
- The Taussig spreadsheet should be expanded to include estimated revenues and expenses for calendar years 2022 through 2025, inclusive.
- Based on the attached calculation of cost for the Nickel Water Purchase between the SGPWA and the Antelope Valley-East Kern Water Agency, future revenues of the SGPWA need to be sufficient to fund the approximately \$58 million obligation created by this agreement. The SGPWA Board of Directors should consider shifting or spreading the new financial obligation beyond the term of the agreement to reduce the immediate impact of this cost on imported water rates. This concept would require an extension of the imported water rate spreadsheet through 2046 to show the impact on imported water rates when the initial term of the Nickel Water Purchase Agreement concludes.



Beaumont-Cherry Valley Water District

560 Magnolia Avenue • Beaumont, CA 92223

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Board of Directors

David Hoffman
Division 5

John Covington
Division 4

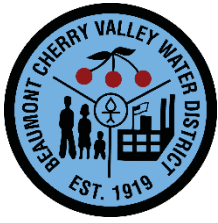
Daniel Slawson
Division 3

Lona Williams
Division 2

Andy Ramirez
Division 1

- Incorporating the aforementioned, an updated imported water rate spreadsheet should be prepared and distributed at least one week in advance of the next imported water rate workshop.
- The Beaumont-Cherry Valley Water District will need to provide noticing of the proposed adjustment to our customers in compliance with Proposition 218. The SGPWA should consider conducting future workshop meetings and voting on the proposed imported water rate adjustment after notices have been provided to customers impacted by the proposed water rate adjustment. This schedule provides an opportunity for SGPWA staff to explain the proposed changes directly to the customers and property owners.
- The SGPWA should consider implementing the first increase in water rates six (6) months after adoption of the proposed water rate(s) to allow retail water agencies sufficient time to implement new imported water rates.
- Each year, the SGPWA Board of Directors should conduct a review of the imported water rate spreadsheet to determine if yearly updates to the actual revenue/expenses and the five-year forecast will require an imported water rate adjustment in future years.
- In addition to financial reviews, the SGPWA Board of Directions should use the imported water rate spreadsheet to study the financial impact on imported water rates prior to executing future purchase agreements for additional water supplies.
- The SGPWA should consider setting a permanent wheeling rate based solely on the “State Water Project Delivery Costs” to allow your customers to secure additional sources of supplemental water for the region.
- The SGPWA should identify affects of current and future water portfolio costs and pump/wheeling rates for the items listed hereafter. Those affects should include analysis of potential upcoming capacity fee structures and their interaction with the rate offsets.
 1. Nickel Water (1,700 acre feet)
 2. San Bernardino Valley Municipal Water District (up to 5,000 acre feet – anticipated average of about 2,000 acre feet) purchase and wheeling cost
 3. Ventura or other agency side deals (possibly 6,000 acre feet at 2020 declining to 2,500 acre feet at 2040) purchase and wheeling cost
 4. Sites Reservoir project and wheeling cost
 5. Cal Water Fix project and wheeling cost
 6. Cal Water Fix side deals project and wheeling cost

We thank you in advance for your consideration of the suggestions above.



Beaumont-Cherry Valley Water District

560 Magnolia Avenue • Beaumont, CA 92223
Phone (951) 845-9581 Fax (951) 845-0159
email: info@bcvwd.org

www.bcvwd.org

Sincerely,

BEAUMONT-CHERRY VALLEY BOARD OF DIRECTORS

Board of Directors

David Hoffman
Division 5

John Covington
Division 4

Daniel Slawson
Division 3

Lona Williams
Division 2

Andy Ramirez
Division 1

John Covington, President

Andy Ramirez, Vice President

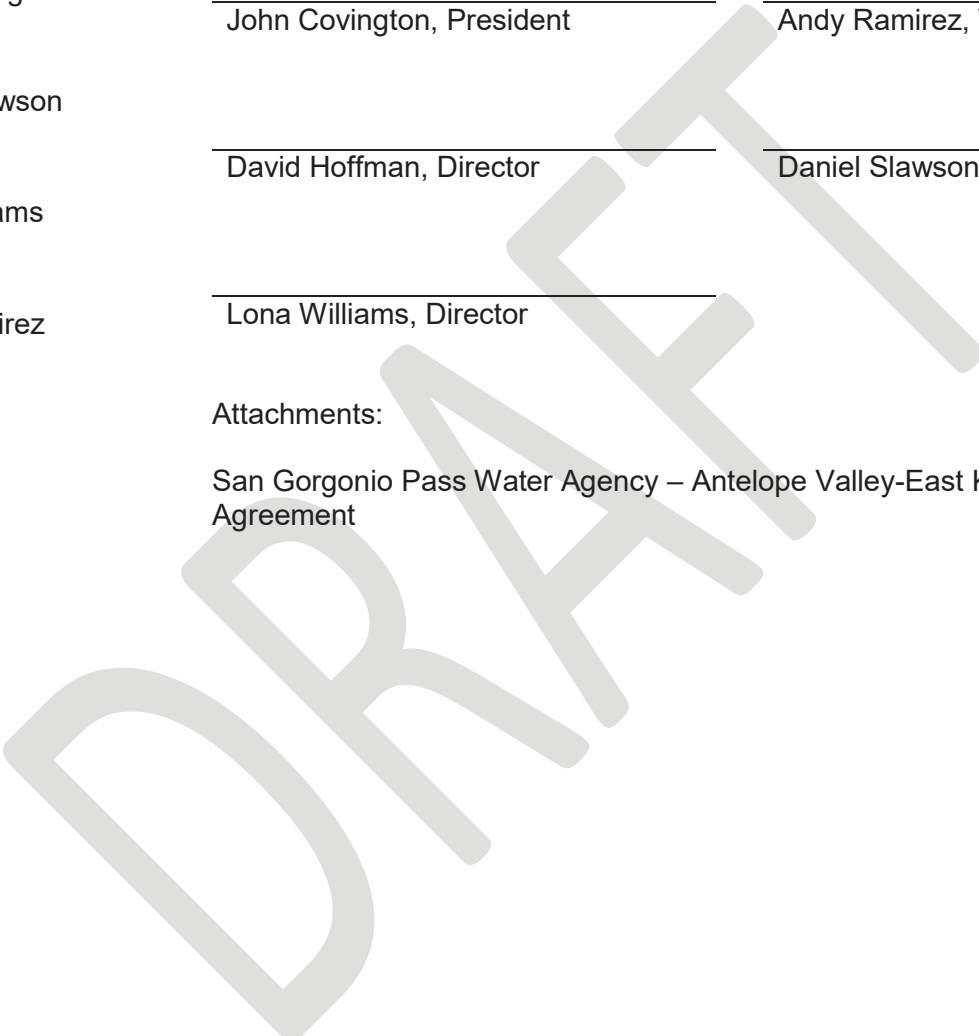
David Hoffman, Director

Daniel Slawson, Director

Lona Williams, Director

Attachments:

San Geronio Pass Water Agency – Antelope Valley-East Kern Water Agency Agreement



San Geronimo Pass Water Agency - Antelope Valley - East Kern Water Agency Agreement
SGPWA Board Meeting - June 19, 2017

Year	Escalation Factor		Agreement		>3% or CPI		SMP		Quantity of Water (AF)	Total Cost	Cost per Acre Foot
	Escalation Rate	Contract Year	3.0%	Nickel-DMB Payment	3.0%	Replenishment	Administrative	Fixed Cost per Acre Foot			
2017		1		716	300		5	1,021	247	2,155,600	1,268
2018		2		737	309		5	1,051	254	2,220,013	1,306
2019		3		760	318		5	1,083	262	2,286,358	1,345
2020		4		782	328		5	1,115	270	2,354,694	1,385
2021		5		806	338		5	1,149	278	2,425,080	1,427
2022		6		830	348		5	1,183	286	2,497,577	1,469
2023		7		855	358		5	1,218	295	2,572,250	1,513
2024		8		881	369		5	1,255	304	2,649,162	1,558
2025		9		907	380		5	1,292	313	2,728,382	1,605
2026		10		934	391		5	1,331	322	2,809,979	1,653
2027		11		962	403		5	1,370	332	2,894,023	1,702
2028		12		991	415		5	1,411	342	2,980,589	1,753
2029		13		1,021	428		5	1,454	352	3,069,751	1,806
2030		14		1,051	441		5	1,497	363	3,161,589	1,860
2031		15		1,083	454		5	1,542	374	3,256,181	1,915
2032		16		1,116	467		5	1,588	385	3,353,612	1,973
2033		17		1,149	481		5	1,635	396	3,453,965	2,032
2034		18		1,183	496		5	1,684	408	3,557,329	2,093
2035		19		1,219	511		5	1,735	421	3,663,794	2,155
2036		20		1,256	526		5	1,787	433	3,773,453	2,220
										57,863,381	

Total Agreement Cost



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 4

STAFF REPORT

TO: Board of Directors
FROM: Dan Jagers, General Manager
SUBJECT: **Water Re-use 2x2 Committee Update and BCVWD implementation status**

Staff Recommendation

No recommendation. Information only.

Background

At a BCVWD Board meeting on August 8, 2018, President Covington appointed Director Hoffman and Director Slawson to a Water Re-Use 2x2 Committee, with Director Ramirez as the alternate, to coordinate with District staff, two members of the Beaumont City Council and City of Beaumont staff in order to prepare for BCVWD to receive and distribute recycled water when it is available from the City of Beaumont. The City indicated that recycled water would be available to the District in March 2020.

The Water Re-Use 2x2 Committee met for the first time on Wednesday, October 17, 2018 and discussed the following:

1. "City of Beaumont/BCVWD Ad Hoc Recycled Water Committee Status Report No.1," dated August 23, 2018; written by Joe Reichenberger, PE.
2. Recycled Water Implementation Schedule – In order for BCVWD to be prepared to receive Recycled Water by the City of Beaumont's goal of March 2020, BCVWD will be on a very compacted schedule to build a Recycled Water Booster Station (or implement a temporary Booster Station), train employees and educate customers, train site supervisors, perform shut down testing, map facilities and apply for and be issued approval for necessary permits, all of which have associated costs.
3. Booster Station Facilities Preliminary Schedule – A Recycled Water Booster Station and Storage Tank (or conversion of the City's existing secondary clarifiers to recycled water storage), in addition to connecting pipelines, must be constructed on or near the Wastewater Treatment Plant site in order to deliver said water to BCVWD's system. The construction schedule for said facilities will also be compacted and have costs associated with the project. These costs could range from \$2.1 million without a building or wall to \$3.4 million with a building and wall.

District staff anticipates that the 2x2 Committee will address the following topics in the coming months:

1. Creation of a Draft MOU between the City and the District for consideration by both the City Council and BCVWD's Board.
2. Recycled Water Conveyance Facilities
 - a. The City will produce Title 22 Compliant recycled water and will need to convey it to a mutually agreed upon point(s) of connection.



- b. Said point(s) of connection will need to be determined and appropriately equipped.
3. Recycled Water Rates
 - a. District staff understands that the cost for the City to produce recycled water necessary to meet their NPDES Discharge Permit and Basin objective requirements is a part of the recently adopted sewer fees.
 - b. A separate rate will need to be determined to cover the cost to convey the recycled water from the City's on-site facilities to the District's point(s) of connection.
 4. On-site WWTP storage
 5. Booster Station
 - a. Upon receipt of the recycled water, the District will need to boost said water to the District's existing 2800 pressure zone and possibly, to the District's proposed 2600 pressure zone.
 6. Permitting (Title 22) for the WWTP and the District recycled water system.
 - a. The City will need to acquire permits for the WWTP for the production of the Title 22 recycled water.
 - b. The City will need to file a Wastewater Change Petition with the State Water Resources Control Board.
 - c. The District will need to acquire Division of Drinking Water permits for the distribution of the recycled water.

The Committee has agreed to meet again on November 8, 2018 at 5 p.m. at the City of Beaumont's offices.

Fiscal Impact

Unknown at this time.

Attached

1. City of Beaumont/BCVWD Ad Hoc Recycled Water Committee Status Report No. 1
2. Recycled Water implementation schedule
3. Booster Station Facilities preliminary schedule

Report Prepared by Erica Gonzales, Administrative Assistant



Beaumont Cherry Valley Water District

560 Magnolia Avenue

Beaumont, CA 92223

951-845-9581

www.bcvwd.org

DATE: August 23, 2018
TO: Dan Jagers, General Manager
FROM: Joe Reichenberger PE, Senior Engineer
SUBJECT: City of Beaumont/BCVWD Ad Hoc Recycled Water Committee
Status Report No. 1

DRAFT FOR REVIEW AND DISCUSSION WITH COB

The Board of Directors of the Beaumont Cherry Valley Water District (BCVWD) and the City Council of the City of Beaumont (City) have formed an ad hoc Committee (Committee) for the purpose of coordinating the production and distribution of recycled water in the City of Beaumont. The City has committed to the Regional Water Quality Control Board (RWQCB) to have the City's Wastewater Treatment Plant (WWTP) operational and producing recycled water by March 1, 2020. This Status Report No. 1 was prepared by BCVWD staff to inform the Committee members of current project status and the next steps to full implementation of the recycled water program.

Project Benefits

The recycled water project benefits both the City and BCVWD. In 2004 the City and the San Timoteo Watershed Management Authority (STWMA), of which BCVWD and others were members, saw the need to maximize local water resources, including recycled water, to ensure a reliable water supply for the increasing demands of the area. The City and STWMA worked with the RWQCB to modify the Beaumont Management Zone (essentially the Beaumont Groundwater Basin) water quality objectives to allow recycled water to be used. The RWQCB amended the Basin Plan and established less stringent water quality objectives (called "maximum benefit objectives" to allow recycled water to be used for the maximum benefit of the people of the State. The "benefit" was the reduction in the need for imported water. In exchange the City and STWMA made commitments; one of those commitments was to install desalting facilities when required by the RWQCB.

STWMA was disbanded a few years later which required the RWQCB to again amend the Basin Plan in 2014 to include revised maximum benefit commitments from the City, BCVWD, and others. The RWQCB also revised the City's National Pollutant Discharge Elimination System (NPDES) permit in July 2015 which had the March 1, 2020 date for compliance, which includes the recycled water use. If the City is not in compliance the RWQCB will impose the non-degradation water quality objectives which will mean additional desalting and higher operating costs for wastewater treatment.

BCVWD, the City, and the Region benefits through maximizing local water resources thereby reducing the need for imported water. As the area grows, demands will increase, but so will the amount of recycled water. BCVWD, based on meter records from new housing projects, annual potable water use is about 0.546 acre-feet/year/Equivalent Dwelling Unit (AFY/EDU). This includes an allowance for commercial, industrial, and institutional demands associated with the new EDUs. The wastewater generated by each new EDU is 0.25 AFY/EDU. In other words, about 46% of the water used in a new house is recovered as recycled water.

Limitations on the Amount of Recycled Water Available

The City has been discharging treated effluent to Cooper's Creek since 1929, when the first plant was put in service. Over time, the effluent provided water for riparian habitat, including habitat for federally listed species. As part of environmental investigations conducted in 2007 or so, BCVWD, STWMA, and others met with officials from the State and federal Fish and Wildlife Service to discuss the habitat issue. It was agreed that 1.8 million gallons/day (mgd) would remain in Cooper's Creek to maintain habitat. Flow in excess of the 1.8 mgd is available for recycling. The City will need to file a "change petition" with the State Division of Water Rights, as discussed later in this status report. This issue will be a point of discussion.

BCVWD's Non-potable Water System

BCVWD has about 44 miles of non-potable water transmission and distribution piping already "in the ground and operating" within the City of Beaumont ranging in size from 8-in to 24-in diameter. BCVWD's system is termed a non-potable water system rather than a "recycled water" system because various types or blends of water are, or can be, in the existing system, including non-potable groundwater, potable water; screened, but otherwise untreated, imported State Project Water (SPW), and Title 22 recycled water from the City of Beaumont. At the present time (2018) only non-potable groundwater and potable water supply the non-potable system.

BCVWD set up the non-potable water system in a series of pressure zones, wherein the pressure zone "number" or designation is the nominal operating hydraulic grade line (HGL) of the zone. BCVWD currently has a 2 MG above ground steel tank at a nominal operating HGL of 2800 ft, mean sea level, City of Beaumont Datum, (2800 Zone Tank), located at the District's groundwater recharge facility, east of Beaumont Ave., just south of Cherry Valley Blvd. The tank bottom is at El. 2795; overflow is at El. 2811. Space and piping have been provided to add a second 2 MG tank next to the existing tank in the future when demands are projected to increase. The existing tank has a potable water make-up connection, through an air gap, and a connection to BCVWD's pipeline from San Gorgonio Pass Water Agency's (SGPWA's) turnout on the State Water Project's East Branch Extension. The tank is designed to overflow to the recharge basins and where it would percolate in the event of an accidental overflow. This possible occurrence should be included in BCVWD's recycled water permit.

BCVWD's non-potable water demand in year 2017 was 1,612 acre-ft/year (AFY) through about 332 connections; the average non-potable water demand for the period 2006-2017 was 1,609 AFY, or 1.4 million gallons per day (mgd). Winter average day demands are about 25% of the

annual average; summer peak demands are about 2.5 times the annual average. The City of Beaumont is the largest user on the non-potable water system. At this time, non-potable water is not served to any of the local golf courses, even though BCVWD has turnouts in place to serve water to Tukwet Canyon and Oak Valley Greens Golf Courses. About 80 to 85%% of the non-potable water is served in the 2800 Zone.

In addition to the 2800 Zone, BCVWD has three other pressure zones planned; all are located south of I-10. The non-potable water system south of I-10 is currently served from BCVWD's potable water system through reduced pressure backflow devices. The non-potable water system south of I-10 is isolated from the 2800 Zone non-potable system. This will change in the future when recycled water is available and/or when BCVWD installs planned motorized strainers on the imported water supply to the 2800 Zone Tank.

BCVWD is in the process of completing a Non-potable Water Master Plan to identify facility needs (piping, pumping and storage) from current needs to build-out. The Master Plan only envisions using recycled water in the City and should be complete as soon as facilities to receive the City's recycled water are finalized.

BCVWD's non-potable water demands at build-out were projected in the Master Plan to be 3,710 AFY, not including any golf course demands. This projected demand may be overstated since it was based on older landscaping requirements and water use projections before the current water efficiency regulations and ordinances were in place. For example, the irrigation of turf in street medians with potable water or with recycled water systems, installed after January 2018, will be prohibited after 2025, unless there is some functional or recreational benefit. This regulation will reduce the amount of non-potable water used by some, yet-to-be determined, amount. BCVWD anticipates the City and Home Owner Associations (HOAs) will re-landscape these median and common areas with drought tolerant, low water using plantings.

BCVWD estimated that the wastewater flow from the City of Beaumont at buildout, (90,600 people), will be about 6.8 mgd based on 75 gallons per capita per day (gpcd), dry weather flow, including commercial, institutional, and industrial (CII) contributions. Recent legislation signed by the Governor, (AB 1668/SB 606), establishes 55 gpcd as the standard for indoor residential water use (effective immediately). Beginning January 1, 2025, the indoor residential water use standard will drop to 52.5 gpcd and will drop further to 50 gpcd by January 1, 2030. A rough analysis by BCVWD staff, based on water consumption in BCVWD's 2015 Urban Water Management Plan (UWMP), indicates the CII contribution to the City's wastewater is about 16 gpcd, (rounded to 15 gpcd). Based on this, the per capita wastewater flow in Beaumont, including CII, will be 70 gpcd effective immediately, reducing to 67.5 gpcd by January 1, 2025, and then to 65 gpcd by January 1, 2030 and beyond.

This will reduce the amount of wastewater flow to about 5.9 mgd at build-out assuming 90,600 people in the City. Deducting the 1.8 mgd for required environmental mitigation flow to Cooper's Creek (discussed above), about 4.1 mgd (4,600 AFY) could be available for reuse. Deducting another 10% for brine discharge and other losses, and assuming only half of the effluent will be processed through the desalting system, about 4,130 AFY could be available for reuse. This is more than the current Master Plan projected build-out landscape recycled water requirement of 3,710 AFY, not including the golf courses. As stated previously, the 3,710 AFY

projection is likely overstated considering the recent water conservation legislation regarding street medians etc. Any unused recycled water could be used on the golf courses as a supplement to the golf courses' well supply or could be recharged to the Beaumont Basin as part of an indirect potable reuse (IPR) project. Some additional treatment may be needed for IPR depending on the quality and quantity recharged and the regulations in place at the time.

However, this analysis assumes a uniform annual demand. During the winter/spring months there will be more recycled water available than can be applied to the landscaped areas. Some of this recycled water could be used on the golf courses; some could be recharged. Recharging may require more advanced treatment. During the summer and early fall months, there will not be enough recycled water available to meet demands, so other sources of water will be needed. This could include screened, imported SPW and/or non-potable groundwater.

Steps to Implementation

The following steps or actions needed for BCVWD to be able to use the City's recycled water. The numbering does not necessarily indicate a priority, however.

1. City of Beaumont to apply for and secure "Change Petition" approval from SWRCB Division of Water Rights. An aspect of the Change Petition is the operational strategy relative to the control and management of the 1.8 mgd environmental mitigation flow.
2. Agreement between BCVWD and City of Beaumont
3. Finalizing the location and design requirements for the facilities at the City's WWTP to pump the recycled water into BCVWD's system, including "balancing storage."
4. Complete the detailed design and commissioning for the pumping and 2600 Zone storage facilities if installed initially.
5. Finalize an agreement between the City and BCVWD relative to recycled water "hand-off."
6. Apply for SRF/WRFPP low interest loan/grant.
7. Preparation of BCVWD's Title 22 Engineering Report for Recycled Water Use for Landscape Irrigation and Other Approved Uses.
8. Obtaining plans and maps of each reuse site and location of sprinklers, control valves, hose quick-connects, drinking fountains, lunch/food areas, etc. Field verify with GPS.
9. Obtain plans for all recycled water main installations.
10. Develop plans for signage of reuse areas.
11. Application for General Order Water Reclamation Permit by BCVWD from Division of Drinking Water (DDW) and the RWQCB.
12. Cross-connection testing for all recycled water users by BCVWD.
13. Finalization, review and adoption of regulations for recycled water use by BCVWD.
14. Informational Workshops with BCVWD Non-potable Water Customers
15. User designation of their Site Supervisors for each reuse site and training of each Site Supervisor
16. BCVWD Recycled Water Staff Training
17. BCVWD to Develop Recycled Water User Agreement

1. *Apply for and Secure Change Petition from SWRCB Division of Water Rights (City of Beaumont)*

The City's wastewater inflow follows a typical diurnal curve and varies throughout the day as shown in Figure 1 below, taken from the City's Title 22 Engineering Report, July 2016 by Aqua/Albert Webb. The final effluent flow curve will be similar, unless there is significant storage in the membrane bioreactor process units to equalize or attenuate the flow. Figure 1 also shows the 1.8 mgd environmental mitigation flow requirement discussed above.

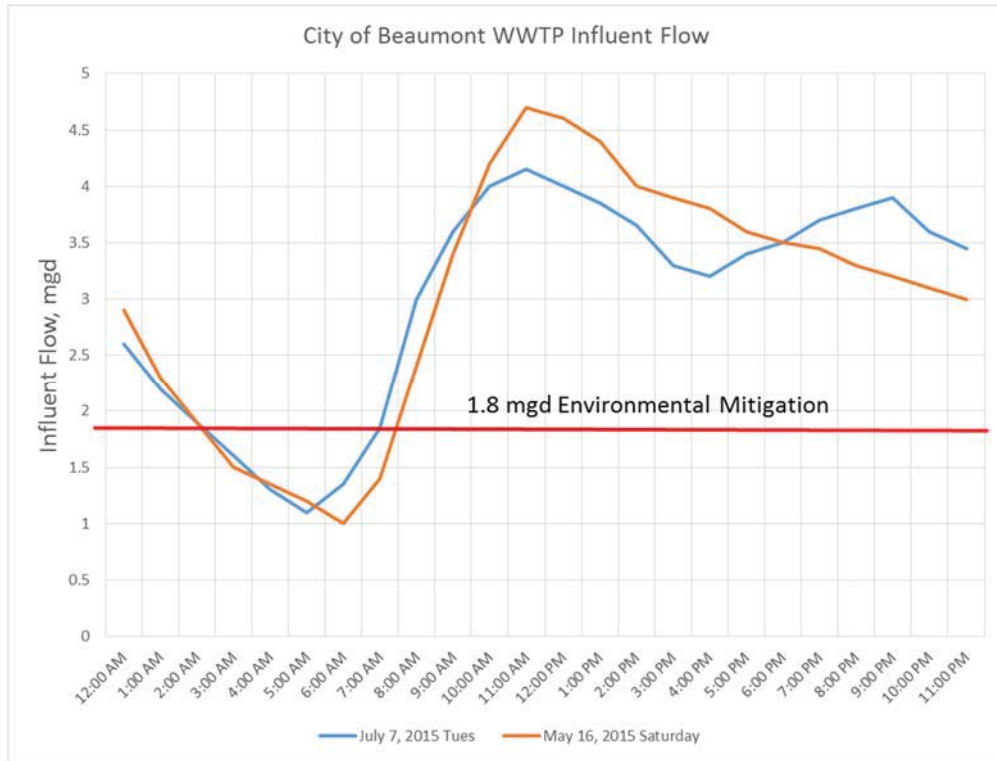


Figure 1
City of Beaumont Influent Wastewater Hydrograph

Note that during the early morning hours the mitigation flow rate is greater than the influent flow. When the City discusses the Change Petition with the Division of Water Rights and Fish and Wildlife, the control and management of this flow will need to be addressed.

- Will flows less than 1.8 mgd be approved for short periods of time during the day?
- Is 1.8 mgd a minimum flow? If so, the City will need to store some water during high flow periods to “fill in.” It may be possible to take recycled water from BCVWD’s pressurized distribution system storage to “fill in,” but this would not be energy efficient. Furthermore if the recycled water is chlorinated for water quality purposes, the chlorine will need to be removed.
- Are flows less than 1.8 mgd acceptable as long as the “shortfall” is made up later in the day when flows are greater?

This can only be addressed by the City through the Change Petition Process; BCVWD staff will provide assistance if requested.

2. Agreement between BCVWD and City of Beaumont

The City and BCVWD will need to develop an agreement for recycled water which would define the point of delivery, responsibilities of the parties for meeting permit requirements, costs to be borne by each party, responsibilities, accounting and invoicing format, SCADA interconnections, etc.

It might be beneficial for accounting purposes to have a separate SCE power service to the Booster Pumping Stations to better isolate the power costs. This should be identified early so that the electrical service requirements can be incorporated into the design of the pump stations. Separate accounts should be developed to properly track operations labor and benefits, chemical costs, maintenance and repair costs, and other direct related costs. etc.

In late 2017 BCVWD provided the City with a draft Memorandum of Understanding (MOU) for the use of the City of Beaumont’s Recycled Water. This MOU identified some principles which should be included in a final agreement.

3. Finalizing the location and design requirements for the facilities at the City’s WWTP to pump the recycled water into BCVWD’s system, including “balancing storage.”

Figure 2 shows a possible recycled water supply and distribution facility schematic which integrates the City’s plan to repurpose the existing secondary clarifiers for recycled water storage. BCVWD is unsure how the repurposed clarifiers will integrate into the effluent reuse system hydraulically and has made the assumption that a low lift-transfer pump station may be needed to lift the water into the repurposed secondary clarifiers. Depending on the hydraulics, this low-lift, transfer pump station may not be necessary.

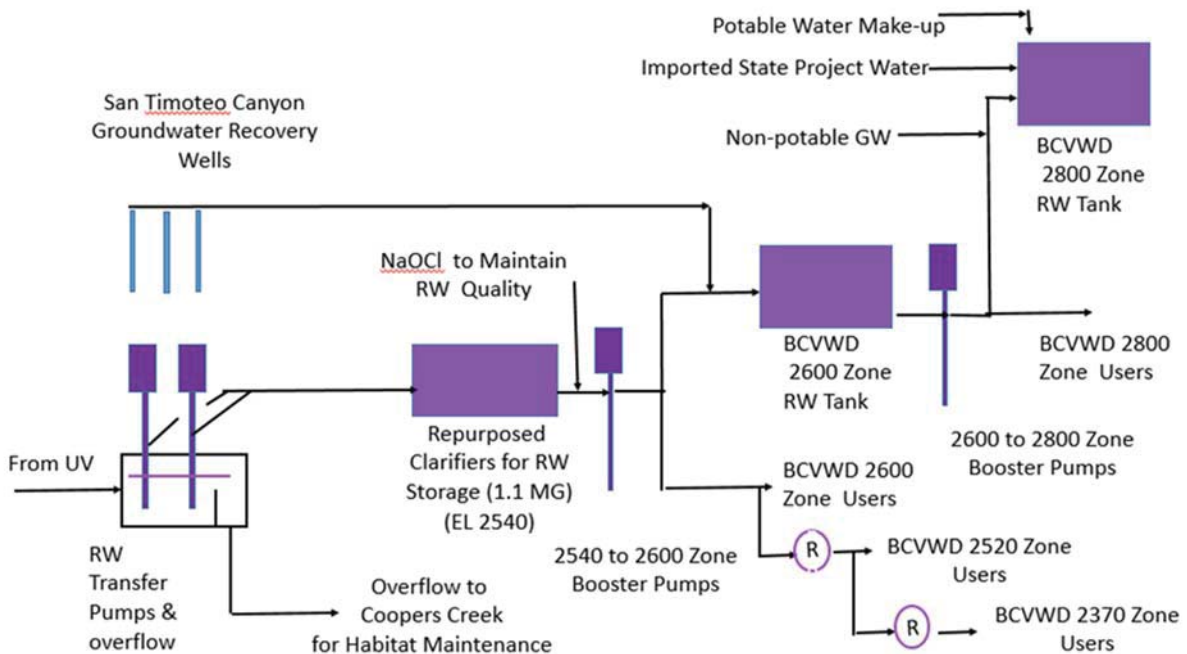


Figure 2
BCVWD Potential Recycled Water Supply and Distribution System Schematic

In addition to the equalization storage provided by the repurposed clarifiers, a booster pump station should be constructed on the wastewater treatment plant site to lift the recycled water from the repurposed clarifiers into a proposed 2600 Zone Non-potable Tank as shown in Figure 2. There are several options for the phasing and location of the 2600 Zone Non-potable Tank; this is discussed later in this status report. The City and BCVWD should collaborate on the location for this pump station.

The 2600 Zone Non-potable Tank will supply non-potable water to the 2600 Non-potable Pressure Zone, which lies south of I-10 and west of the City's WWTP. The 2600 Zone serves Tournament Hills, Fairway Canyon, Heartland, and Hidden Canyon developments, as well as future developments in the City south and west of the wastewater treatment plant, including Legacy Highlands (The Preserve) and Jack Rabbit Trail. The 2600 Zone could also supply Tukwet Canyon Golf Course as piping exists to serve the golf course.

Since most of the non-potable water demand is in the 2800 Zone, recycled water would also need to be boosted from the 2600 Zone to the 2800 Zone system. This would require a second set of booster pumps as shown in Figure 2. This 2600 to 2800 Zone Booster Pump Station should also be located on the City's WWTP site.

The 2600 to 2800 Zone Booster Pumps would connect to an existing 24-in, 2800 Zone transmission main, in Fourth St., which extends from Viele St. westward to the end of the existing ProLogis Development.

As an alternative the 2600 to 2800 Zone Booster Pumps could connect to an existing 30-in, 2800 Zone transmission main, in Viele St. on the east side of the wastewater treatment plant site. At one point it was believed the main recycled water pipeline from the wastewater treatment plant site would extend eastward toward the 30-in transmission main in Viele St. That may no longer be possible considering the gravity sewer trunk mains which enter the wastewater treatment plant site in this area and run parallel with Cooper's Creek. However, BCVWD believes this option should be explored, since there is an existing tee in the 30-in non-potable pipeline in Viele St.

Figure 2 also shows that water from the proposed San Timoteo Canyon Groundwater Recovery Wells could be pumped into the 2600 Zone system. This groundwater recovery system is described later in this memo but will not be installed initially.

Figure 2 shows the introduction of sodium hypochlorite (NaOCl, liquid bleach) into the recycled water as it enters the non-potable water distribution system. This is not needed for disinfection but for water quality purposes. Based on BCVWD staff's experience with other recycled water systems, BCVWD believes it is appropriate to maintain a chlorine residual in the recycled water distribution system to ensure preservation of the high quality treated water produced by the wastewater treatment plant and minimization of potential musty odors which might otherwise occur as a result of residence time in the pipelines. Sodium hypochlorite can be fed into the suction side of the booster pumps.

The concept plan described above and shown in Figure 2 has some elements to be resolved:

Location of the on-site WWTP recycled water booster pump stations

BCVWD understands that space may be limited at the WWTP site for the two booster pump stations described above. The two pump stations can be combined into a single dual-zone booster pump station have one set of pumps discharging into the 2600 Zone and another set discharging into the 2800 Zone. This would be very cost effective as the dual system can share common facilities, such as electrical service, etc.

Consideration may be given to constructing a reinforced concrete platform/partial cover over the clarifiers and installing vertical turbine pumps on the platform/partial cover.

Equalization Storage Requirements

Storage analysis using the average of the diurnal curves presented previously in Figure 1 was prepared by BCVWD as part of the preparation of the Non-potable Water Master Plan to determine the amount of equalization storage is needed at the City’s WWTP. This would be the volume required for the repurposed clarifiers. The storage analysis was based on the following:

- 1.8 mgd of environmental mitigation flow would be discharged to Cooper’s Creek; during the early morning hours it was assumed that mitigation flow less than 1.8 mgd was acceptable for short periods of time.
- No pumping into the non-potable water system during the peak power periods in summer (noon to 6 pm) to keep power costs to a minimum
- A 20% emergency reserve was included.

Table 1 shows the amount of equalization storage (MG) at the City of Beaumont’s WWTP based on the assumptions above.

**Table1
Non-potable Water Equalization Storage Requirements at City of Beaumont WWTP**

	2020	2025	2030	2035	2040	2045	Build-out
Equalization Storage Required, MG	0.82	0.96	1.12	1.31	1.49	1.66	2.14

As can be seen in Table 1, the repurposed clarifiers at 1.1 MG storage will be adequate until 2030. At that time addition storage can be provided or additional pumping capacity.

Recycled Water Pumping Station Requirements

Table 2 shows the non-potable water pump station requirements at the City of Beaumont’s WWTP based on the following assumptions:

- 1.8 mgd of environmental mitigation flow would be discharged to Cooper’s Creek; during the early morning hours it was assumed that mitigation flow less than 1.8 mgd was acceptable for short periods of time.
- No pumping into the non-potable water system during the peak power periods in summer (noon to 6 pm) to keep power costs to a minimum.
- Pumping to the 2600 Zone: Static = 60 ft, TDH = 100 ft (to be verified)
- Pumping from 2600 Zone to 2800 Zone: Static = 210 ft, TDH = 240 ft (to be verified)
- Pumping to the 2800 Zone: Static = 270 ft, TDH 320 ft (to be verified)
- Pump efficiency = 0.70, Vertical Turbine, Can Type, Pumps

- The same pumping rates are assumed in whether pumping from repurposed clarifiers to 2600 Zone or from repurposed clarifiers to 2800 Zone or from 2600 Zone to 2800 Zone. This is to ensure there is adequate pumping capacity should the 2600 Zone be at minimum demand and there is storage capacity in the 2800 Zone.
- The pumping rates in the later years may be conservative since there may be some reduction in wastewater flow and hence recycled water production due to indoor water conservation, new high efficiency appliances, water-efficient plumbing fixtures, etc.

**Table2
Non-potable Water Booster Pumping Requirements at City of Beaumont WWTP**

	2020	2025	2030	2035	2040	2045	Build-out
Total Pumping Capacity to Pump Recycled Water from City of Beaumont WWTP to BCVWD Non-Potable Water System							
Total Pumping Capacity, gpm	1,370	1,740	2,147	2,600	3,056	3,472	4,630
Pump Type	Vertical Turbine, Constant Speed, Can Type						
Pumping from Repurposed Clarifiers to 2600 Zone							
No. of Pumps	2		3			4	
Design Point, Each Pump	1750 gpm, 100 ft, 75 HP						
Pumping from 2600 Zone to 2800 Zone							
No. of Pumps	2		3			4	
Design Point, Each Pump	1750 gpm, 240 ft, 200 HP						
Pumping from Repurposed Clarifiers to 2800 Zone							
No. of Pumps	2		3			4	
Design Point, Each Pump	1750 gpm, 320 ft, 250 HP						

Location of Recycled Water Storage Facilities

Figure 3 shows the existing and master planned, non-potable water facilities near the wastewater treatment plant and in the southwest portion of Beaumont. A 2600 Pressure Zone pipeline has been recently extended south from Oak Valley Parkway southward through the Heartlands Project to the south end of Potrero Blvd in the vicinity of Hwy 60 where the Potrero Interchange is currently under construction. BCVWD has plans for the installation of potable and non-potable pipelines in the interchange bridge section and the extension of the 2600 Zone non-potable transmission main in the future Potrero Blvd. extension. This will need to be coordinated with the current construction.

BCVWD has tentative plans for a total of about 3 MG of storage in the 2600 Zone. There are two potential locations for the 2600 Zone Tank(s) shown in the schematic in Figure 2 (shown on a previous page): at the treatment plant site or on the Legacy Highlands (The Preserve) site. However, it appears the timing for the Legacy Highlands (The Preserve) Project is still a number of years away.

There are two options to consider:

- **Option 1 – Temporarily Boost from WWTP to 2800 Zone Until Legacy Highlands Develops:** Install booster pumps at the wastewater treatment plant to boost from the repurposed clarifiers directly into the 2800 Zone pipeline on Fourth Street; serve the 2600 Zone and lower pressure zones through pressure regulators from the 2800 Zone until the Legacy Highlands (The Preserve) Project develops. At that time a 2600 Zone tank can be constructed in the Legacy Highlands Development. At that same time, BCVWD would extend a new 2600 Zone non-potable water pipeline in Fourth St., from the Potrero Interchange area, eastward, parallel to the existing 2800 Zone non-potable pipeline, to the vicinity of the wastewater treatment plant. A second booster pump station would be constructed at the wastewater treatment plant to boost recycled water from the repurposed clarifiers into the 2600 Zone once the Legacy Highlands, 2600 Zone, tank was completed.

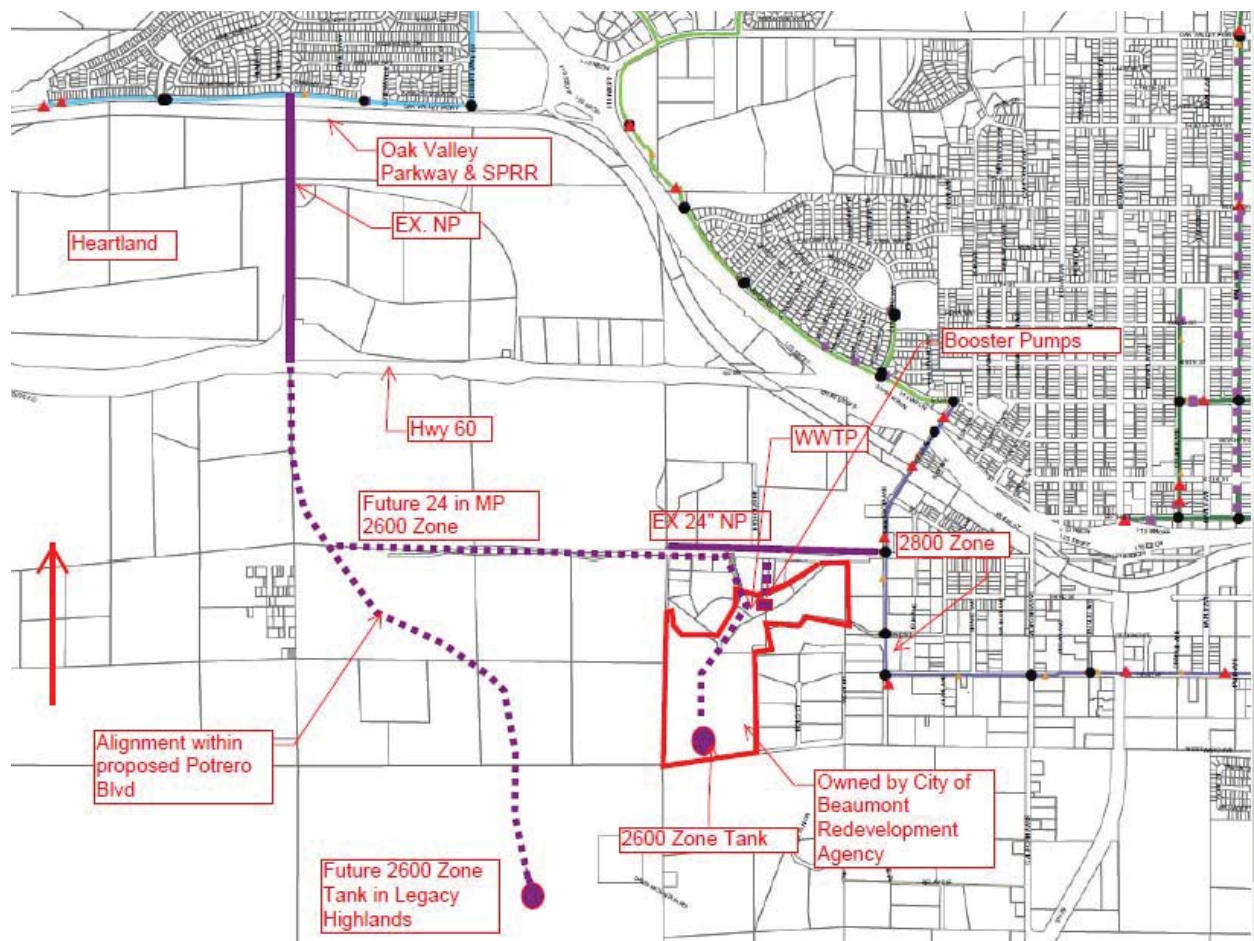


Figure 3
Existing and Master Planned Non-potable Water System Facilities
in Southwest Beaumont

- Option 2A-- Construct a 2600 Zone Tank Initially at the City's WWTP:** Install two sets of booster pumps, (Dual Zone Booster Station), at the wastewater treatment plant; one set of pumps would boost into the 2600 Zone tank from the repurposed clarifiers; the other set of pumps would boost from the 2600 Zone Tank inlet-outlet pipeline to the 2800 Zone. BCVWD would extend a new 2600 Zone non-potable water pipeline in Fourth St., parallel to the existing 2800 Zone non-potable pipeline, to the vicinity of the wastewater treatment plant and connect to the 2600 Zone tank, similar to the configuration described above for Option 1.

Figure 4 shows a suggested layout of the non-potable water system with the 2600 Zone tank on the City's wastewater treatment plant site (Option 2A). The site of the 2600 Zone tank, shown in Figure 4, is owned by the City of Beaumont Redevelopment Agency. The approximate boundary of the City-owned property is shown along with possible pipeline alignments.



Figure 4
Tentative Plan for Non-potable Water Facilities at
City of Beaumont Wastewater Treatment Plant

Figure 4 shows the location of a 2 MG 2600 Zone Non-potable Water Tank. (A 1.5 MG is the minimum size recommended). The location was determined from a rough topographic analysis of the site using Google Earth. A tentative bottom elevation of 2570 is proposed. (The 2570 contour is shown on Figure 4.) Grading a suitable pad will be required and significant fill will be needed. The feasibility of this needs to be investigated geotechnically. The proposed tank will be steel, anchored to a circular concrete foundation or concrete ring foundation as recommended by the geotechnical engineering consultant. If this location is acceptable to the City, additional studies should be conducted to refine the grading and obtain preliminary geotechnical information.

Figure 4 shows a 30-in/24-in diameter 2600 Zone Tank inlet-outlet pipeline extending from the 2600 Zone tank to Fourth St. where it will connect to a proposed 24-in diameter, 2600 Zone pipeline, in Fourth St. extending to Potrero Blvd. The pipeline would have to cross Cooper's Creek either through a pipe bridge or bore and jack. A permit from California Fish and Wildlife will be needed for this crossing. This pipeline would serve Hidden Canyon, Heartland, Tournament Hills, Fairway Canyon and ultimately Legacy Highlands and possibly Jack Rabbit Trail.

Figure 4 also shows a 30-in diameter branch pipeline from the 2600 Zone Tank inlet/outlet pipeline to the Dual Zone Booster Pump Station. One set of pumps would pump from the repurposed clarifiers to the 2600 Zone Tank; the second set would pump from the 2600 Zone Tank to 2800 Zone Tank. The 30-in discharge from the 2600 Zone to 2800 Zone (Dual Zone) Booster Pump Set would extend to and connect to the existing 24-in diameter, 2800 Zone, non-potable pipeline in Fourth St.

It should be pointed out that the facility and pipeline locations are only suggested and can be changed to meet site conditions. These suggestions form a starting point for discussions.

- **2600 Tank Site at WWTP Not Available (Option 2B).** In the event the 2600 Zone Tank Site at the City's WWTP shown in Figure 4 is not available for any reason, the City's recycled water could be boosted from the repurposed clarifiers directly into the 2800 Zone Non-potable pipeline in Fourth St. The 2600 and lower non-potable water pressure zones would be served through pressure regulators from the 2800 Zone until a site for a 2600 Zone Tank is available in the Legacy Highlands (The Preserve) development. This operation would result in some increased energy costs to boost the water to the 2800 Zone and then breaking pressure to the 2600 Zone, (200 ft of head). Considering about 300 AFY is used in the 2600 Zone and lower pressure zones, operating in this way would result in increased energy costs estimated to be about \$15,600 per year.

In addition, not having a 2600 Zone Tank may cause a delay in the implementation of the San Timoteo Canyon Groundwater Recovery Well Project, (described below), as it will require pumping this water up to the 2800 Zone and then releasing it through pressure regulators. This is not desirable because most of this recovered groundwater would be used in the 2600 Zone and lower pressure zones.

A decision on the feasibility of the 2600 Zone Tank on the City's WWTP site affects the design of the recycled water boosters and must be made early to meet the project on-line deadline of March 1, 2020.

- **San Timoteo Canyon Groundwater Recovery Wells.** BCVWD has a plan to install recovery wells in San Timoteo Canyon to recover groundwater and supplement the non-potable water system during the summer when non-potable water demand exceeds the supply of recycled water from the City. Without the San Timoteo wells, groundwater from the Beaumont Basin or screen imported State Project Water (SPW) will be needed as a supplement. Figure 5 shows a conceptual plan of BCVWD's San Timoteo Canyon Groundwater Recovery Wells (STCGRW). The project consists of a series of shallow wells along San Timoteo Creek pumping into a common collector pipe which leads to a small storage tank along Oak Valley Parkway. From the small storage tank, the water will be boosted into the adjacent 2520 Zone and 2600 Non-potable Pressure Zones. The extraction wells are outside of the Adjudicated Beaumont Groundwater Basin. There is evidence from the Beaumont Basin Watermaster that groundwater is likely "leaking out" of the Beaumont Basin into the San Timoteo Groundwater Basin.

This is over and above the amount historically leaking out, i.e., before BCVWD's recharge at Noble Creek. The extraction wells could recover this water.

The amount of subsurface water has increased above historic conditions due to construction of the Tukwet Canyon Golf Course, Fairway Canyon, and Tournament Hills developments. Return flows from landscape and golf course irrigation is percolating downward and moving subsurface toward San Timoteo Canyon. In addition, the increased impervious areas resulting from development is increasing the surface runoff into San Timoteo Creek, further recharging the San Timoteo Groundwater Basin with this additional flow. BCVWD believes this subsurface water can be captured and introduced into the non-potable water system and reused, especially for summer-time, non-potable system peaking activities.

The City of Beaumont has been discharging treated wastewater into Cooper's Creek, a tributary of San Timoteo Creek, for decades. The treated effluent maintains a habitat in Cooper's Creek and, whatever is not used by the vegetation, percolates. The City is required to maintain a flow of 1.8 mgd as habitat mitigation. BCVWD believes this mitigation water may be a candidate to be captured with shallow wells once it percolates and no longer supports habitat. This captured water can be introduced into the non-potable water system as well. Additional studies and investigations will be needed to evaluate the feasibility and economics of the STCGRW.

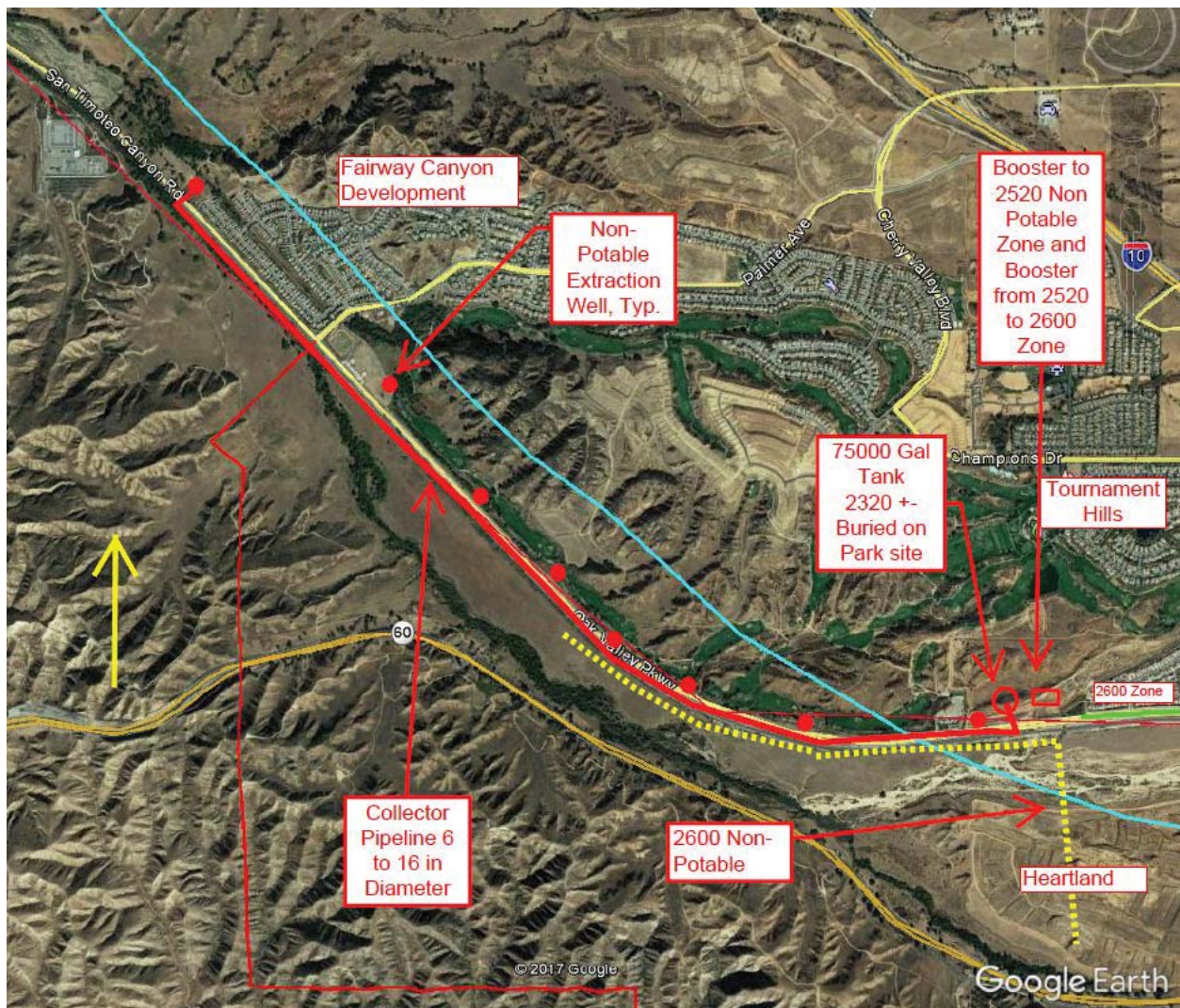


Figure 5
San Timoteo Groundwater Recovery System

4. *Complete the detailed design and commissioning for the pumping facilities and any needed 2600 Zone Storage Tank*

BCVWD will undertake the design of the booster pumping facilities, the hypochlorination facilities, and the initial 2600 Zone Storage Tank on the City Property if Option 2A is selected. The design time is estimated to be 12 months with a minimum of 12 to 16 months for construction. At this point it will be very difficult to meet the March 1, 2020 operational date for the non-potable water system.

5. *Apply for SRF/WRFP low interest loan/grant*

There is money available for a low interest loan from the State Revolving Fund (SRF) and possibly funding from the Water Recycling Funding Program (WRFP). The loan interest is 1% for water recycling projects and 1.8% for other wastewater projects. The pumping station and storage and connecting pipelines are eligible for this funding in BCVWD and the City want to pursue it. BCVWD did submit a facilities plan to the SWRCB for recycled water facilities; and in

August 2014, the SWRCB approved the facilities plan. This Facilities Plan was for a pump station, piping and pressure regulating stations to take recycled water from Yucaipa Valley Water District (YVWD). Since that time YVWD has determined that there is presently no surplus recycled water available for BCVWD. At the time the Facilities Plan was going through the approval process, including a pumping station for City of Beaumont Recycled Water was discussed and the SWRCB indicated that an amendment to the Facilities Plan Report could be made. It might be worth discussing the options and timing with the SWRCB to determine if it is still possible to obtain funding. A decision on this would need to be made quickly.

6. Preparation of BCVWD's Title 22 Engineering Report for Recycled Water Use for Landscape Irrigation and Other Approved Uses

BCVWD has a draft Title 22 Engineering Report for Recycled Water Use for Landscape Irrigation and Other Approved Uses that was prepared by an engineering firm in 2006. This report will need to be updated and resubmitted with the latest maps, regulations, etc. This Title 22 Engineering Report would not address indirect potable reuse (IPR) through groundwater recharge. A separate engineering report and additional hydrogeologic studies are likely to be required before significant amounts of recycled water are recharged at BCVWD's groundwater recharge facility.

For the most part, the landscape irrigation systems are owned and operated by Home Owners Associations (HOAs), the City, and the Beaumont Unified School District. These irrigate common areas, street medians, City parks, and school playgrounds. K-hov has some landscape irrigation of the front lawns of individual residences. This will require some discussion with the SWRCB, DDW to ensure the Title 22 Report addresses these locations.

7. Obtaining plans and maps of each reuse site and location of sprinklers, control valves, hose quick-connects, drinking fountains, lunch/food areas, etc. Field verify with GPS.

One of the requirements for BCVWD's Title 22 Engineering Report is up-to-date maps showing the irrigation connections and irrigated area, location of the meters, irrigation plans of each non-potable water customer showing the location of the sprinkler heads, on-site piping, backflow prevention devices, drinking fountains and lunch tables, if any, and proposed location for the recycled water used signage. BCVWD intends to use GPS in conjunction with their GIS system to present this information. Some information may need to be collected from individual users.

8. Obtain plans for all recycled water main installations.

BCVWD has a GIS system which shows the location of the potable water and non-potable water transmission and distribution piping and the location of all meters. Detailed plans and profiles exist from most of the new non-potable water system and some of the newer potable water systems. However, there are locations where non-potable water pipelines parallel older potable water pipelines. The GIS system is accurate, but will need to be field verified. BCVWD intends on submitting the GIS system maps as part of the Title 22 Engineering Report. The process of preparing the maps will need to be discussed with the DDW before proceeding.

9. Develop plans for signage of reuse areas.

Each reuse site will need to have signage indicating recycled water is used on the site. BCVWD will develop the “artwork” and “wording” for the signage. The sign placement is shown on the landscape plans in the Title 22 Engineering Report and will be coordinated with each user. All storage tanks, valve and meter boxes, above ground piping, etc. will need appropriate labeling. For the most part the on-site non-potable water irrigation systems comply with the requirements, but this will need to be field verified.

10. Application for General Order Water Reclamation Permit by BCVWD from Division of Drinking Water (DDW) and the RWQCB.

BCVWD will need to apply for a General Order Water Reclamation Permit from the SWRCB and DDW (SWRCB Order WQ-2016-0068 DDW). This is a blanket permit which covers recycled water use for all approved uses except groundwater recharge (Indirect Potable Reuse). The permit allows BCVWD to administer the addition of new users without having to make a formal amendment to BCVWD’s Title 22 Engineering Report. Once BCVWD has the approval, BCVWD can add users and simply provide the data for the new user to the DDW. Key to securing the Water Reclamation Permit is the Title 22 Engineering Report. BCVWD will need to file a Notice of Intent (NOI) to the Santa Ana RWQCB and submit the Title 22 Engineering Report to the San Diego Office of DDW. Because BCVWD’s service area actually covers two Regional Boards, (Colorado River and Santa Ana), it has been suggested that the application (NOI) be filed with the SWRCB in Sacramento. This should be discussed with the Regional Boards early to identify if this is the correct process.

A technical report has to be submitted with the NOI covering specific requirements; for the most part these would be covered in the Title 22 Engineering Report. Once approved, the SWRCB will issue a Notice of Applicability (NOA), i.e., the General Order is “applicable” in this case.

There are some monthly and annual reporting requirements.

11. Cross-connection testing for all recycled water users by BCVWD.

BCVWD has prepared a cross-connection testing plan which was approved by DDW. Because it was submitted and approved several years ago, BCVWD will resubmit it to DDW to ensure it includes their latest requirements. BCVWD has developed a sequenced program for cross-connection testing but testing cannot be completed too far ahead of the time that the non-potable (recycled) water system is to be on-line. There are about 330 - 340 sites which have to be tested – so about 3 or 4 per day will need to be tested, considering a 4 day work week and 26 weeks, allowed by DDW, to complete the work.

12. Finalization, review and adoption of regulations for recycled water use by BCVWD.

BCVWD has completed a draft of the regulations for recycled water use in BCVWD’s service area. These will need another internal review and formal review and approval by the Division of Drinking Water (DDW). Once approved, the rules will be submitted to the District’s Board of Directors for adoption. The recycled water rules will then be incorporated into the District’s Rules and Regulations for Water Service.

13. Informational Workshops with BCVWD Non-potable Water Customers

BCVWD will need to set up a series on Informational Workshops with each non-potable water user to inform them about the change over to recycled water and the implications of this change over which includes, providing BCVWD with irrigation system plans (if any exist), identification of a site supervisor, the training of the designated site supervisor and other staff persons in the operation requirements of their on-site system, the cross-connection testing program and requirements, the importance of not making changes to the piping system without BCVWD's approval, the inspections and monitoring requirements, and the requirement to post the recycled water use permit regulations. Each user will need to execute a recycled water use agreement and be aware of BCVWD's Rules and Regulations.

14. User designation of their Site Supervisors for each reuse site and training of each Site Supervisor

Each recycled water user will have to designate a Site Supervisor who will be responsible for the operation and monitoring of the on-site system. The Site Supervisor will need to attend a Site Supervisor Training Program.

15. BCVWD Recycled Water Staff Training

BCVWD's Lead Water Recycling Coordinator will need to attend the appropriate training sessions to operate recycled water systems. The Coordinator, in conjunction with other BCVWD staff, should develop Site Supervisor Training programs to be able to train Site Supervisors at BCVWD instead of having them go elsewhere. BCVWD may consider working with YVWD and perhaps Eastern MWD to develop a regional "rotating" program to minimize travel. Ultimately the City of Banning could be included.

16. BCVWD to Develop Recycled Water User Agreement

BCVWD will need to develop a Recycled Water User Agreement, using examples from YVWD and Eastern MWD and others. This will need to be adopted by the BCVWD Board of Directors.

BEAUMONT-CHERRY VALLEY WATER DISTRICT WWTP and RECYCLED WATER IMPLEMENTATION SCHEDULE

ID	Task Name	Duration	Start	Finish	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
1																							
2	City of Beaumont Treatment Plant and Recycled Water Tasks	392 days?	Mon 10/1/18	Tue 3/31/20																			
3	CoB Apply and Secure Change Permit from Div Water Rights	328 days	Mon 10/1/18	Wed 1/1/20																			
4	Construct COB WWTP Expansion from 4.0 MGD to 6.0 MGD	377 days?	Mon 10/22/18	Tue 3/31/20																			
5	Construct Brine Line Phase 1 (COB to Riv. Co. Limits)	377 days?	Mon 10/22/18	Tue 3/31/20																			
6	Construct Brine Line Phase 2 (Riv. Co. Limits to San Bernardino)	377 days?	Mon 10/22/18	Tue 3/31/20																			
7	Location and Design Requirements for Pumping Storage	46 days?	Mon 10/1/18	Mon 12/3/18																			
8	Construction of Pumping Storage	326 days?	Tue 12/4/18	Tue 3/3/20																			
9																							
10	City of Beaumont and BCVWD Combined Tasks	285 days?	Mon 10/1/18	Fri 11/1/19																			
11	Agreement between BCVWD and CoB	110 days?	Mon 10/1/18	Fri 3/1/19																			
12	Apply for SRF/WRF Low Interest Loan	138 days?	Mon 10/1/18	Tue 10/1/19																			
13	Apply for General Order Water Reclamation Permit	110 days?	Mon 6/3/19	Fri 11/1/19																			
14																							
15	BCVWD Recycled Water Tasks	603 days	Mon 10/1/18	Wed 1/20/21																			
16	BCVWD Recycled Water Staff Training	195 days	Mon 10/1/18	Fri 6/28/19																			
17	Informational Workshops for BCVWD Non-potable Customers	66 days	Mon 6/3/19	Mon 9/2/19																			
18	Finalize BCVWD Recycled Water Use Regs	135 days	Mon 6/3/19	Fri 12/6/19																			
19	Site Supervisor Designation and Training	155 days	Mon 4/29/19	Fri 11/29/19																			
20	Develop Recycled Water User Agreements	90 days	Mon 12/31/18	Fri 5/3/19																			
21	Obtain Use Area Maps and Field Verify	133 days	Tue 10/2/18	Thu 4/4/19																			
22	Obtain Potable and Non-potable Water Main Maps and Field Verify	325 days	Mon 10/1/18	Fri 12/27/19																			
23	Cross Connection Testing of Use Areas	131 days	Mon 9/2/19	Mon 3/2/20																			
24	Develop Plans for Recycled Water Use Area Signage	45 days	Mon 3/4/19	Fri 5/3/19																			
25	Prepare BCVWD Title 22 Engineering Report	180 days	Mon 10/1/18	Fri 6/7/19																			
26																							
27	Recycled Water Booster Station Design/Bid/Construction	588 days	Mon 10/22/18	Wed 1/20/21																			
28	Design of Pumping Facilities	209 days	Mon 10/22/18	Thu 8/8/19																			
29	Bid of Pumping Facilities	50 days	Fri 8/9/19	Thu 10/17/19																			
30	Constructoin of Pumping Facilities	328 days	Mon 10/21/19	Wed 1/20/21																			

BEAUMONT-CHERRY VALLEY WATER DISTRICT

RECYCLED WATER BOOSTER STATION DESIGN-BID-BUILD SCHEDULE (WITH BUILDING)

ID	Task Name	Duration	Start	Finish
1				
2	RECYCLED WATER BOOSTER STATION	624 days?	Fri 8/31/18	Wed 1/20/21
3	PROJECT DESIGN PHASE	246 days?	Fri 8/31/18	Fri 8/9/19
4	DESIGN-PRELIMINARY DESIGN	96 days	Mon 10/22/18	Mon 3/4/19
10	DESIGN-PROJECT DESIGN	176 days?	Fri 8/31/18	Fri 5/3/19
22	DESIGN-FINAL DESIGN	70 days	Mon 5/6/19	Fri 8/9/19
30	PROJECT BID PHASE SERVICES	50 days?	Mon 8/12/19	Fri 10/18/19
35	PROJECT CONSTRUCTION PHASE	328 days	Mon 10/21/19	Wed 1/20/21
36	GENERAL CONSTRUCTION	1 day	Mon 10/21/19	Mon 10/21/19
38	SUBMITTALS	261 days	Tue 10/22/19	Tue 10/20/20
82	CONSTRUCTION-GENERAL CONSTRUCTION ACTIVITIES	95 days	Tue 10/22/19	Mon 3/2/20
87	CONSTRUCTION-SITE IMPROVEMENTS	279 days	Wed 11/6/19	Mon 11/30/20
90	CONSTRUCTION-SITE WORK	307 days	Thu 10/24/19	Fri 12/25/20
110	CONSTRUCTION-BUILDING CONSTRUCT	195 days	Thu 4/23/20	Wed 1/20/21
138	CONSTRUCTION-BUILDING/SITE EQUIP. & ELECTRICAL	67 days	Mon 8/24/20	Tue 11/24/20
152	CONSTRUCTION-PROJECT TESTING AND COMPLETION	32 days	Wed 11/25/20	Thu 1/7/21

3, 2018 | Qtr-4, 2018 | Nov-Dec | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec | Qtr 1, 2019 | Qtr 2, 2019 | Qtr 3, 2019 | Qtr 4, 2019 | Qtr 1, 2020 | Qtr 2, 2020 | Qtr 3, 2020 | Qtr 4, 2020 | Qtr 1, 2021 | Qtr 2, 2021 | Aug, Sep, Oct, Nov, Dec | Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec

Project: RW Booster Station De
 Date: Wed 10/17/18

Task: Milestone

Project Summary: Inactive Task

Manual Task: Manual Summary Rollup

Start-only: Start-only

Finish-only: Finish-only

External Tasks: External Tasks

External Milestone: External Milestone

Deadline: Deadline

Progress: Progress

Manual Progress: Manual Progress



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 5

STAFF REPORT

TO: Board of Directors
FROM: Dan Jagers, General Manager
SUBJECT: **Update: East Branch Extension Noble Creek Turnout Upgrade Status Report**

Staff Recommendation

No recommendation.

Background

This Staff Report serves to provide an update regarding the District's existing East Branch Extension Turnout capacity upgrade from 20 cubic-feet-per-second (CFS) to 34 CFS.

Background:

At this time, the San Geronio Pass Water Agency (SGPWA) has received plan and specification approval from the State of California Department of Water Resources for the upgrade of the Noble Creek Turnout on the East Branch Extension, which provides water to the District's Noble Creek Recharge Facilities, Phase 1 and 2. The SGPWA has also prepared Contract Documents and has advertised the Upgrade Project for Bid. The proposed project provides an upgrade to the existing facilities to increase capacity from 20 CFS facility to 34 CFS.

On May 16, 2016, the District requested, in writing, that the SGPWA expand the existing BCVWD connection to the East Branch Extension (EBX) located at Noble Creek and Orchard Street from 20 CFS to 34 CFS. Said letter also requested that the SGPWA quantify the upgrades required to achieve a maximum flow rate of 34 CFS and provide the estimated costs associated with said work.

The SGPWA provided the District a Technical Memorandum dated July 27, 2016 on October 17, 2016 prepared by the SGPWA's consulting Engineer, Armstrong & Brooks Consulting Engineers related to the Noble Creek EBX – Turnout and Control Facilities Hydraulic Capacity Evaluation and Upgrades.

The Technical Memorandum analyzed a number of scenarios for the requested upgrade and set forth the cost associated with those upgrades. However, only one of the presented scenarios (Scenario 4) achieved the flow rate requirement of 34 CFS requested in the District's May 16, 2016 letter. Scenario 4 also included an estimated construction cost of \$162,000.

District Staff has prepared the attached Figure 1 and Figure 2 to help the Board visualize the existing connection configuration (Figure 1) and the proposed connection configuration (Figure 2) related to the turn out upgrades.



It is imperative that the District move forward with the upgrades to the Noble Creek turnout to maximize the opportunity to provide water BCVWD and it's rate payers, as well as, future drought proofing activities through conjunctive use of the Beaumont Groundwater Basin.

To understand the importance in completing the proposed turnout upgrades, between the date of October 17, 2016 when the Technical Memorandum was received by the District from the SGPWA and October 16, 2018, the District has lost the opportunity for recharge at the higher flow rate for approximately 730 days. Based on the District's desired 14 CFS flow rate increase (20 CFS to 34 CFS) this lost opportunity equates to a recharge capacity loss of approximately 9,290 acre feet of water annually.

At this time, District Staff has reviewed the approved construction documents (Specifications and Drawings) provided by the SGPWA and has prepared a revised construction cost estimate (attached) for discussion with the Board. It should be noted that actual construction bid results will be known subsequent to the SGPWA bid opening on October 31, 2018.

The purpose of Staff's preliminary cost estimate is to bring to the Board's attention that Staff believes the original engineer's estimate presented in the Technical Memorandum was significantly lower than the actual cost of the facilities. Some factors that add to the increased cost include the addition of facilities to the project which include a new meter vault and a new valve vault. Staff believes the actual construction and engineering services cost may increase the project cost from the amount previously identified to the Board in October of \$243,000 which was authorized by the Board at the November 14, 2016 Board meeting. Staff's preliminary construction and engineering cost estimate, derived from actual signed construction drawings, is \$424,640 based upon District's Staff's review of the SGPWA Construction Documents and associated engineering services billing and proposals provided by the SGPWA.

The original estimate of project costs presented to the Board on November 9, 2016 is set forth in Table 1 below, and a revised summary of estimated costs updated for current project components is set forth in Table 2 as well as the attached project cost estimate prepared by District Staff.

**TABLE 1
2016 ESTIMATED CONSTRUCTION, ENGINEERING, AND CONSTRUCTION COSTS
FOR PROPOSED NOBLE CREEK EBX TURNOUT UPGRADES**

ITEM	DESCRIPTION	ESTIMATED COST
1	Scenario 4 Upgrade (per A&B Technical Memorandum)	\$162,000
2	Engineering/Construction Administration Cost (25%)	\$40,500
Subtotal Construction & Eng. /Admin.		\$202,500
3	Contingencies (20%)	\$40,500
Total Construction/Eng. /Admin. /Contingencies		\$243,000



**TABLE 2
2018 ESTIMATED CONSTRUCTION, ENGINEERING, AND CONSTRUCTION COSTS
FOR PROPOSED NOBLE CREEK EBX TURNOUT UPGRADES**

ITEM	DESCRIPTION	ESTIMATED COST
1	Noble East Branch Extension Upgrade Engineering Estimate (per final signed Contract Documents)	\$300,000
2	Construction Contingencies Cost (10%)	\$30,000
Subtotal Construction Activities.		\$330,000
3	Previously Completed SGPWA Eng./Legal/CEQA/DWR	\$35,640
4	Ongoing Estimated SGPWA Eng./Legal/CEQA/DWR	\$54,000
5	Ongoing BCVWD Estimated Admin. & Legal	\$5,000
Subtotal – Eng./Legal/CEQA/Admin./Contingencies		\$94,640
Total Construction/Eng./Admin./Contingencies		\$424,640

Staff anticipates final project bid results will be available in the first week of November and Staff should be able to present final results at the District’s November 14th Board Meeting for Board consideration, review and authorization. Staff has also updated the attached preliminary construction schedule to reflect the anticipated early construction schedule.

Fiscal Impact:

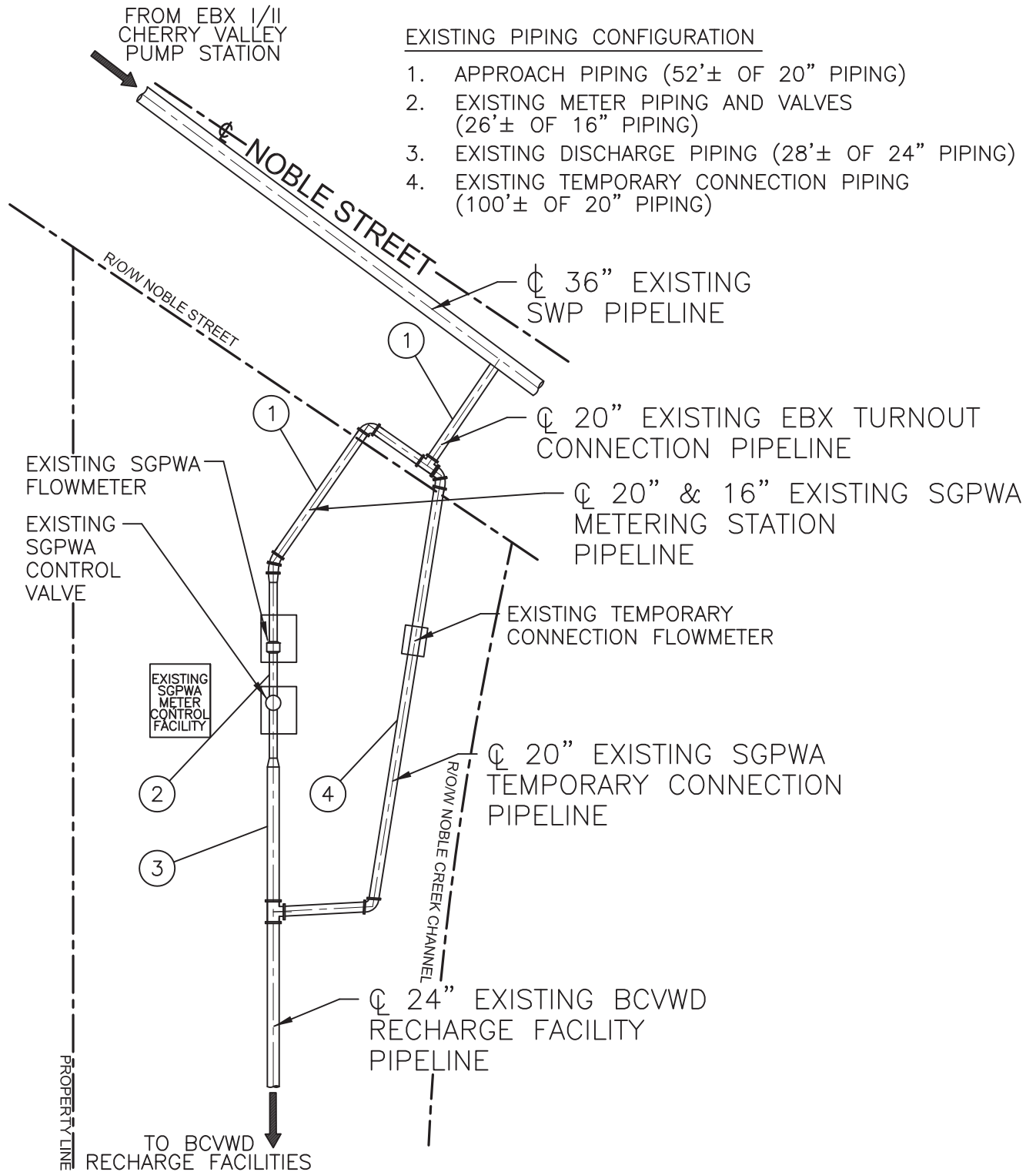
The fiscal impact to the District associated with this work will be paid for by Facilities Fees collected for new development.

Attachments

1. Figure 1 – Existing Connection Configuration
2. Figure 2 – Proposed Connection Configuration
3. Armstrong & Brooks Consulting Engineers Technical Memorandum dated July 27, 2016
Noble Creek EBX – Turnout and Control Facilities Hydraulic Capacity Evaluation and Upgrades
4. SGPWA EBX Noble Upgrade- (BCVWD) Preliminary Construction Cost Estimate
5. Approved for Construction Drawings – Noble Creek EBX Upgrades September 2018

Prepared by Dan Jagers, General Manager

SGPWA EAST BRANCH EXTENSION BCVWD TURNOUT EXISTING CONFIGURATION

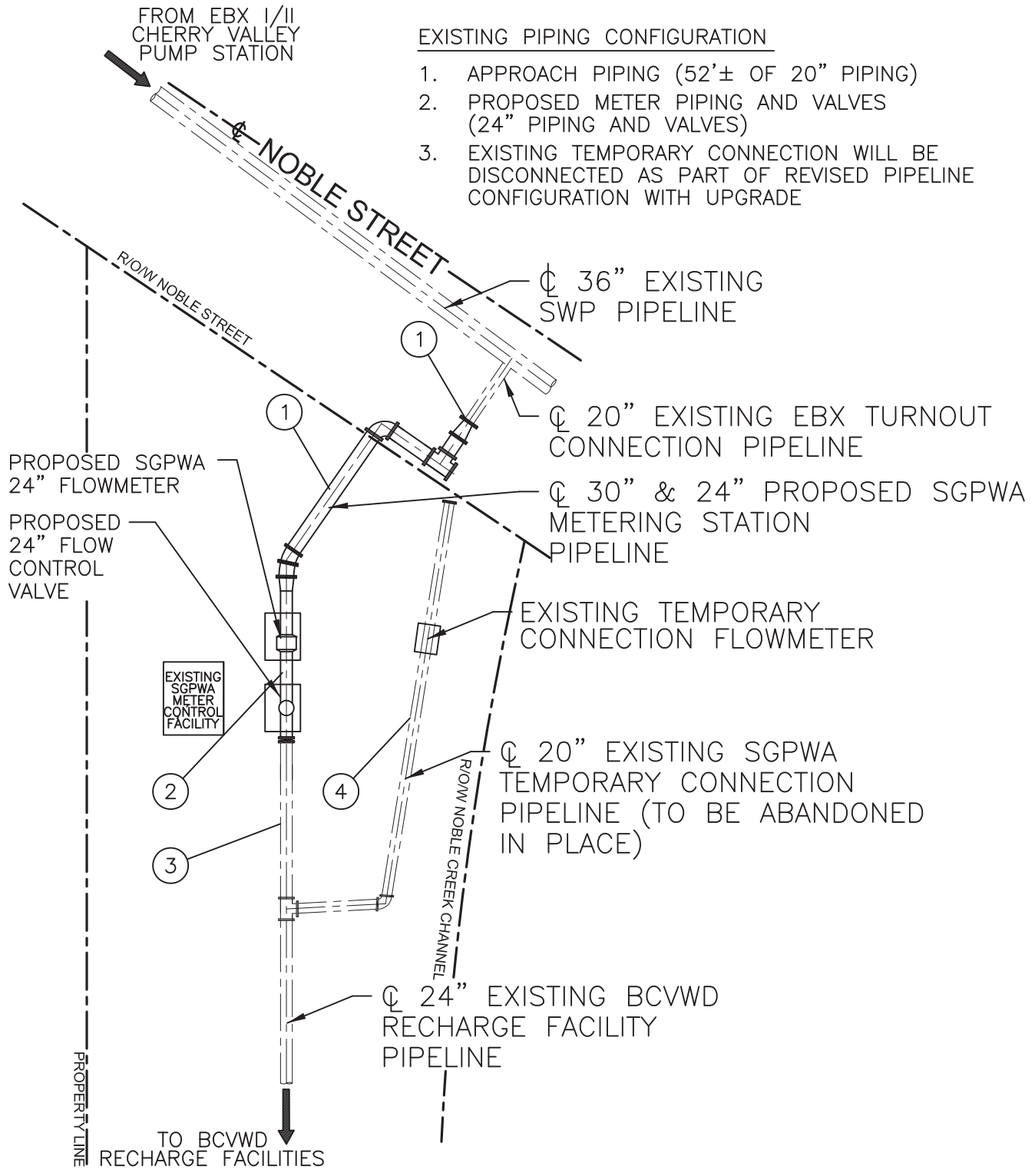


SWPWA_CONNECTION_V3

BEAUMONT-CHERRY VALLEY WATER DISTRICT		
SGPWA EAST BRANCH EXTENSION BCVWD TURNOUT		
SCALE: <u>NTS</u>	DATE: <u>11/03/16</u>	DRAWN BY: <u>DKJ</u>

FIGURE
1

SGPWA EAST BRANCH EXTENSION BCVWD PROPOSED TURNOUT CONFIGURATION



BEAUMONT-CHERRY VALLEY WATER DISTRICT		
SGPWA EAST BRANCH EXTENSION BCVWD TURNOUT FINAL CONFIGURATION		
SCALE: <u>NTS</u>	DATE: <u>10/16/18</u>	DRAWN BY: <u>DKJ</u>

FIGURE
2

SWPWA_CONNECTION_V4

TECHNICAL MEMORANDUM

To: Jeff Davis, PE
General Manager / Chief Engineer
San Geronio Pass Water Agency

From: Erik T. Howard, PE, PLS
Armstrong & Brooks

Subject: Noble Creek EBX - Turnout and Control Facilities
Hydraulic Capacity Evaluation & Upgrades

The purpose of this Technical Memorandum (TM) is to assess the current capacity of subject Turnout and Control Facilities (Facilities) and determine what modifications (and associated construction cost) are needed to increase flow from the original design of 20 CFS (9,000± GPM) to a higher flow of 34 CFS (15,300± GPM).

1. Introduction and Background

The Noble Creek Turnout was part of the East Branch Extension (EBX) Phase 1, Pipeline Reach 3 Project (Garden Air Creek to Noble Creek) as constructed by Department of Water Resources (DWR) in the early 2000's. Said Turnout, consisting of a 20-inch diameter side outlet, 12± linear feet (LF) of piping, butterfly valve and access vault, is at the end of 9,400± linear feet of 36-inch diameter aqueduct as fed from Cherry Valley Pump Station (CVPS). Two (2) other identical turnouts, located off of Orchard Street at Mountain View Channel and at Little San Geronio Creek, are upstream of Noble Creek at 5,300± LF and 7,600± LF respectively from CVPS.

When constructed in 2003, CVPS had an initial pumping capacity of 16 cubic feet per second (CFS), with future plans to incrementally increase its capacity to 48 CFS. However, 52 CFS is now considered the plant's ultimate capacity due to pumping and other system improvements as part of EBX Phase 2. Based on DWR's record drawings and provided data for the Noble Creek Turnout, the available head is 90.1 feet or about 39 psi of operating pressure. Design thresholds of 10 feet per second (FPS) for approach piping and 15 FPS for meter and flow control valve velocity were held, as was 10 psi for the downstream residual pressure.

2. Existing Turnout and Control Facilities Design

Based on collaborative meetings between Management, Staff and representative engineers from both San Gorgonio Pass Water Agency (SGPWA) and Beaumont Cherry Valley Water District (BCVWD) in 2005, the selected design flow for the subject Facilities was 20 CFS. Due to BCVWD's strong desire at the time to begin taking water through its recently constructed 24-inch Non-Potable Pipeline, DWR allowed SGPWA to construct an interim connection to operate and provide delivery on a temporary basis.

The Temporary Facilities, consisting of 100± LF of 20-inch fusion-welded HDPE piping, a propeller flow meter (in a vault) and butterfly valve, was then operated manually until the permanent facilities could be designed by SGPWA and reviewed through DWR's plan check process. Said Temporary Facilities were constructed and put into service on or about November 2006.

Design of the permanent Facilities nominally consisted of 52± LF of 20-inch, 26± LF of 16-inch (diameter reduced for a magnetic flow meter and flow control valve; each contained in a separate vault), and 28± LF of 24-inch piping. All piping material was PVC as required by DWR, with standard ductile iron fittings used throughout. Electrical equipment and controls are contained in a precast concrete building structure, with fiber optic communication lines connected back to CVPS. The final design was approved by DWR in July 2009, with the construction contract awarded in November 2009 and completed in June 2010. Water delivery through the permanent Facilities began shortly thereafter and, except for periodic maintenance and minor programming changes or software upgrades, has worked well. The Temporary Facilities remain as a bypass / backup system should the need arise.

3. Modifications for Increased Flow

The comparative velocities for pipe sizes at different flow rates are as follows:

Condition	Size (in) *	Flow (CFS)	Velocity (FPS)
A	16	20	15.6
B	20	↓	10.1
C	24	↓	7.1
D	16	34	26.5
E	20	↓	17.2
F	24	↓	12.0
G	30	↓	7.5

* Nominal diameter. Actual diameter per AWWA C-905 PVC Pipe; CI-235 (DR-18).

In order of flow from the 36-inch EBX, Conditions B, A and C apply for the existing Facility layout, for a combined head loss (piping, minor losses, and through ClaVal) of about 12.3 psi. Given the 39 psi of available operating pressure, there is still 26.7 psi available with the 20 CFS flow. Due to the large variability of potential flows and pressure in the EBX, said 39 psi is held as a constant for purposes of this study.

Using the existing piping Conditions but at the new design flow of 34 CFS, an increase of 70%, the combined head loss jumps almost three fold to about 34.3 psi. Again using 39 psi of available operating pressure, there is a 4.7 psi residual; about half of the 10 psi used as a threshold for the original design. The velocities for Conditions D and E also exceed the thresholds used for the original design.

For purposes of this design study, three (3) New Scenarios (for the 34 CFS flow rate) were reviewed and compared:

- **Scenario 1:** Conditions E & F: 52± LF of exist. 20-inch (from EBX) plus 26± LF of 20-inch (flow meter and ClaVal) then 28± LF of exist. 24-inch piping.
- **Scenario 2:** Conditions F, E & F: 52± LF of 24-inch (from EBX) then Condition E (26± LF of 20-inch; flow meter and ClaVal) then back to Condition F (28± LF of exist. 24-inch piping).
- **Scenario 3:** Conditions G, E & F: 52± LF of 30-inch (from EBX) then Condition F (26± LF of 20-inch; flow meter and ClaVal) then back to Condition F (28± LF of exist. 24-inch piping).

During the original design, DWR required that all piping between the EBX and flow meter vault be encased in a sand-cement slurry backfill which poses additional challenges (and costs) associated with implementing Scenarios 2 and 3. Also, the fiber optic communication conduits (from the EBX vault to the control building), were installed in a common trench with the encased piping, so any work may also require their removal and replacement. A short section of the original turnout (20-inch nozzle piping off the EBX) would however remain in all scenarios.

Scenario	Operating Losses @ 34 CFS	Residual Pressure
1	16.8 psi	22.2 psi
2	12.6 psi	26.4 psi
3	10.4 psi	28.6 psi

As previously mentioned, 39 psi is used as the EBX's available operating pressure, with design thresholds of 10 FPS held for approach piping velocity and 15 FPS for meter and control valve velocity, and 10 psi for residual pressure. Since all of the above listed residual pressures are acceptable, the component velocity will govern any computed flow limits.

Existing Design @ 20 CFS (9,000± GPM) – Baseline Design Values			
Component	Nom. Dia (in.)	Velocity (FPS)	Comment
Approach Piping	20	10.1	EBX to Meter approach
Meter	16	15.6	50% of 18,000 GPM max flow per MR
ClaVal	16	15.6	80% of 11,000 GPM max flow per MR
Downstream Piping	24	7.1	Connection to BCVWD

New Scenario 1: 19.8 CFS (8,900± GPM)			
Component	Nom. Dia (in.)	Velocity (FPS)	Comment
Approach Piping ⁽¹⁾	20	10.0	EBX to Meter approach; no change
Meter	20	10.0	31% of 29K GPM suggested max flow
ClaVal	20	10.0	52% of 17K GPM suggested max flow
Downstream Piping	24	7.0	Connection to BCVWD; no change

New Scenario 2: 28.3 CFS (12,700± GPM)			
Component	Nom. Dia (in.)	Velocity (FPS)	Comment
Approach Piping ⁽¹⁾	24	10.0	EBX to Meter approach
Meter	20	14.3	44% of 29K GPM suggested max flow
ClaVal	20	14.3	75% of 17K GPM suggested max flow
Downstream Piping	24	10.0	Connection to BCVWD; no change

New Scenario 3: 29.8 CFS (13,340± GPM)			
Component	Nom. Dia (in.)	Velocity (FPS)	Comment
Approach Piping	30	6.6	EBX to Meter approach
Meter ⁽¹⁾	20	15.0	46% of 29K GPM suggested max flow
ClaVal ⁽¹⁾	20	15.0	78% of 17K GPM suggested max flow
Downstream Piping	24	10.5	Connection to BCVWD; no change

(1) Governing component size to hold design velocity.

Since none of initial Scenarios 1-3 attained the target 34 CFS (due to holding the velocity threshold limits), Scenario 4 was subsequently developed:

New Scenario 4: 34 CFS (15,300± GPM)			
Component	Nom. Dia (in.)	Velocity (FPS)	Comment
Approach Piping	30	7.5	EBX to Meter approach
Meter	24	12.0	36% of 42K GPM suggested max flow
ClaVal	24	12.0	61% of 25K GPM suggested max flow
Downstream Piping	24	12.0	Connection to BCVWD; no change

With BCVWD's existing line size being 24-inch, the Downstream Piping velocity of 12 FPS could be accepted even though it exceeds the 10 FPS target threshold, and there is adequate residual pressure.

The existing Meter and FVC vaults should be of adequate size (8' L x 6' W x 6' D) to accommodate all scenarios but, with the original pipe openings only being 18-inch in diameter (for 16-inch piping), will need to be enlarged for any of the larger pipe sizes. Also, the throttling butterfly valve (BFV) downstream of the FCV, may need to be relocated outside of the vault if space and constructability limitations dictate. The weight of the FCV increases from 2,300 pounds (16-inch) to 3,900 pounds (20-inch) and 6,200 pounds (24-inch), so additional support(s) under the valve should be provided. Currently, there is one pipe stand support located under Victaulic pipe spool; between the FCV and BFV.

4. Summary of Estimated Costs

As detailed on the attached TABLE 1 - Cost Comparison Matrix, the costs associated with each scenario are as follows:

- Scenario 1: \$78,500 (19.8 CFS; zero flow increase).
- Scenario 2: \$145,500 (28.3 CFS; 8.3 CFS flow increase); \$17,500± per CFS.
- Scenario 3: \$127,500 (29.9 CFS; 9.8 CFS flow increase); \$13,000± per CFS.
- Scenario 4: \$162,000 (34 CFS; 14 CFS flow increase); \$11,600± per CFS.

Based on the cost per incremental flow increase (\$/CFS), Scenario 4 appears the most economical and is the only option that attains the target flow. Scenario 1 offers no practical benefit due to the zero flow increase.

A potential cost savings alternative that includes 23 LF of 20-inch intertie piping between the Temporary and Permanent Facility's approach piping may be considered in lieu of directly upsizing the exist. 20-inch approach piping. Under this alternative, it is assumed that any flow rate from the EBX to the Meter / FCV piping would be equally shared among the two (parallel) 20-inch reaches, meaning each would convey half of the 34 CFS flow. The resultant velocity at 17 CFS would only be 8.6 FPS, and the residual pressure should fall somewhere between the acceptable range for Scenarios 2 & 3.

Using a modified Cost Comparison Matrix (TABLE 2), the costs associated with the alternative scenarios will be:

- Scenario 1: \$78,500 (19.8 CFS; zero flow increase).
- Scenario 2a: \$89,000 (29.8 CFS; 9.8 CFS flow increase); \$9,100± per CFS.
- Scenario 3a: \$89,000 (29.8 CFS; 9.8 CFS flow increase); \$9,100± per CFS.
- Scenario 4a: \$98,500 (34 CFS; 14 CFS flow increase); \$7,000± per CFS.

With their approach piping now being the same, the resultant alternative renders Scenarios 2a and 3a identical. Based again on the cost per incremental flow increase (\$/CFS), Scenario 4a is the most economical and is still the only option that attains the target flow rate of 34 CFS.

The presented costs are estimates only and a contingency of 15% to 20% should be added due to lack of economy of project scale. Other project costs like mobilization/demobilization, bonds, permits and traffic control, and required shoring may also apply.

TABLE 1: COST COMPARISON MATRIX
Noble Creek EBX - Turnout and Control Facilities

No.	Description	Est. Costs	Scenario				Notes
			1	2	3	4	
1	Remove and dispose of exist. 26± LF 16-inch PVC piping and fittings. Salvage Meter, FCV & BFV to owner.	\$10,000	X	X	X	X	(1)
2	Remove and dispose of exist. 52± LF 20-inch piping, fittings & BFV, incl. slurry backfill. P.I.P. FO system.	\$25,000		X		X	(2)
3	Furnish and install 26± LF 20-inch PVC piping and fittings, incl Meter, FCV & BFV. Modify Vaults.	\$60,500	X	X	X		(1)
4	Furnish and install 26± LF 24-inch PVC piping and fittings, incl Meter, FCV & BFV. Modify Vaults.	\$70,000				X	(1)
5	Furnish and install 52± LF 24-inch PVC approach piping, fittings & BFV, incl. slurry backfill.	\$42,000		X			(2)
6	Furnish and install 52± LF 30-inch PVC approach piping, fittings & BFV, incl. slurry backfill.	\$49,000			X	X	(2)
7	Misc. Electrical & Control Modifications.	\$8,000	X	X	X	X	
	(1) Includes removal/replacement 6± LF slurry encasement before Meter Vault.						
	(2) Contractor may elect to remove and replace existing FO conduit system / FO cable in lieu of protecting-in-place.						
COST SUMMARY:			\$78,500	\$145,500	\$127,500	\$162,000	

TABLE 2: ALTERNATE COST COMPARISON MATRIX
Noble Creek EBX - Turnout and Control Facilities

No.	Description	Est. Costs	Scenario				Notes
			1	2a	3a	4a	
1	Remove and dispose of exist. 26± LF 16-inch PVC piping and fittings. Salvage Meter, FCV & BFV to owner.	\$10,000	X	X	X	X	(1)
2	Remove and dispose of exist. 52± LF 20-inch piping, fittings & BFV, incl. slurry backfill. P.I.P. FO system.	\$25,000		N/A		N/A	(2)
3	Furnish and install 26± LF 20-inch PVC piping and fittings, incl Meter, FCV & BFV. Modify Vaults.	\$60,500	X	X	X		(1)
4	Furnish and install 26± LF 24-inch PVC piping and fittings, incl Meter, FCV & BFV. Modify Vaults.	\$70,000				X	(1)
5	Furnish and install 52± LF 24-inch PVC approach piping, fittings & BFV, incl. slurry backfill.	\$42,000		N/A			(2)
6	Furnish and install 52± LF 30-inch PVC approach piping, fittings & BFV, incl. slurry backfill.	\$49,000			N/A	N/A	(2)
7	Misc. Electrical & Control Modifications.	\$8,000	X	X	X	X	
8	BYPASS ALTERNATIVE: Construct 23 LF of 20-inch PVC Intertie piping, fittings & new BFV.	\$10,350		X	X	X	(3)
	(1) Includes removal/replacement 6± LF slurry encasement before Meter Vault.						
	(2) Contractor may elect to remove and replace existing FO conduit system / FO cable in lieu of protecting-in-place.						
	(3) Class / thickness of exist. HDPE piping unknown. New piping and fittings to be PVC with DI fittings (per 2009 design drawings).						
ALTERNATE COST SUMMARY:			\$78,500	\$88,850	\$88,850	\$98,350	

**BEAUMONT-CHERRY VALLE WATER DISTRICT
SGPWA EBX NOBLE UPGRADE
PRELIMINARY CONSTRUCTION COST ESTIMATE**

CONSTRUCTION COST ESTIMATE

Item No.	Description	Qty.	Units	Material Unit Cost	Installation Unit Cost	Total Cost	Subtotal
1	BONDS, INSURANCE, MOBILIZATION, & DEMOBILIZATION						\$15,000
	BONDS, INSURANCE, MOBILIZATION, & DEMOBILIZATION	1	LS	\$15,000		\$15,000	
		0					
		0					
2	SITE WORK						\$48,200
	FINISH GRADING	3,200	SF	\$0	\$1.00	\$3,200	
	EXISTING FACILITIES DEMOLITION WORK AND SALVAGE	1	EA	\$5,000	\$0.00	\$5,000	
	4 1/2" AC PAVEMENT AT ORCHARD	1000	SF	\$5	\$5	\$10,000	
	VALVE VAULTS (METER AND CONTROL VALVE)	2	EA	\$10,000	\$5,000	\$30,000	
		0					
3	SITE PIPING						\$108,416
	CONNECTION TO EXISTING 20 TURNOUT PIPELINE	1	EA	\$5,000	\$2,000	\$7,000	
	30" PVC PIPING (BURIED)	30	LF	\$150	\$150	\$9,000	
	30" JOINT RESTRAINT	8	EA	\$1,768	\$350	\$16,944	
	24" JOINT RESTRAINT	4	EA	\$1,768	\$350	\$8,472	
	24 DIP PIPING (BURIED)	30	LF	\$125	\$150	\$8,250	
	30"x30" TEE	1	EA	\$8,500	\$2,500	\$11,000	
	30"x20" REDUCER	1	EA	\$5,000	\$1,000	\$6,000	
	30" 90 DEGREE ELBOW	1	EA	\$6,000	\$2,500	\$8,500	
	30" 11.25 DEGREE ELBOW	3	EA	\$3,650	\$2,500	\$18,450	
	30" 22.5 DEGREE ELBOW	1	EA	\$4,100	\$2,500	\$6,600	
	30"x24" REDUCER	1	EA	\$5,000	\$1,000	\$6,000	
	24"x6" TEE	1	EA	\$2,000	\$2,500	\$4,500	
	1"x24" BRONZE SERVICE SADDLE	1	EA	\$1,250	\$350	\$1,600	
	24" Victaulic Coupling	1	EA	\$750	\$350	\$1,100	
	4" DRAIN PIPING AND DRY WELL	40	LF	\$25	\$25	\$2,000	
		0					
		0					
4	STATION SUPPLY/DISCHARGE PIPING (PLANT)						\$119,800
	30" BUTTERFLY VALVE	1	EA	\$11,000	\$2,500	\$13,500	
	24" BUTTERFLY VALVE	1	EA	\$6,100	\$2,000	\$8,100	
	24" MAGMETER	1	EA	\$11,600	\$5,000	\$16,600	
	24" FLOW CONTROL VALVE (CLA VAL)	1	EA	\$69,100	\$6,000	\$75,100	
	RECONSTRUCT 2" AIR VALVE	1	EA	\$1,000	\$1,500	\$2,500	
	RECONSTRUCT 4" AIR VENT	1	EA	\$1,000	\$1,000	\$2,000	
	PIPE SUPPORTS (METER VAULT)	2	EA	\$250	\$250	\$1,000	
	PIPE SUPPORTS (VALVE VAULT)	2	EA	\$250	\$250	\$1,000	
		0					
5	ELECTRICAL AND INSTRUMENTATION						\$5,000
	MISCELLANEOUS ELECTRICAL UPGRADES	1	LS	\$2,500	\$2,500	\$5,000	
6	MISCELLANEOUS						\$7,000
	COATING AND PAINTING	1	LS	\$1,000	\$1,500	\$2,500	
	PIPE TESTING	1	LS	\$500	\$1,500	\$2,000	
	STARTUP & TESTING	1	LS	\$250	\$2,250	\$2,500	
	PLANT SCADA CONNECTIONS & SYSTEM INTEGRATION	0	LS	\$1,000	\$3,500	\$0	

TOTAL **\$303,416**
TOTAL (ROUNDED) **\$300,000**

10% CONSTRUCTION CONTINGENCY **\$30,000**
TOTAL CONSTRUCTION COST **\$330,000**

BEAUMONT-CHERRY VALLE WATER DISTRICT
SGPWA EBX NOBLE UPGRADE
 PRELIMINARY CONSTRUCTION COST ESTIMATE

DESIGN, BID, AND CONSTRUCTION SERVICES COST ESTIMATE

Item No.	Description	% of Project Cost	Subtotal
7	PREVIOUSLY COMPLETED SGPWA ENGINEERING AND LEGAL COUNSEL COSTS		
	Best Best & Krieger, Inc.		\$ 2,317
	Albert A. Webb & Associates		\$ 1,148
	Armstrong and Brooks, Inc.		\$ 26,608
	State of California Department of Water Resources (Through August 31, 2018) (per J. Davis 9/21/2018 email correspondance)		\$ 2,568
	State of California Department of Water Resources (Estimated from August 31, 2018 to October 15, 2018)		\$ 3,000
ERSC SubTotal:			\$ 35,640

8	ONGOING ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA COSTS		
	Design Phase Completion		\$ 7,000
	Contract Management, Administration and Inspection		\$ 17,280
	Construction Staking		\$ 3,500
	Geotechnical Inspection and Testing		\$ 9,000
	Instrumentation System Programming, Inspection and Testing		\$ 5,500
ERSC SubTotal:			\$ 42,280

Direct Costs @ 3% 3.00% \$ 1,268.40

ERSC Total: \$ 43,548.40

SGPWA Overhead and Administration **ERSC Total (Rounded): \$ 43,500.00**

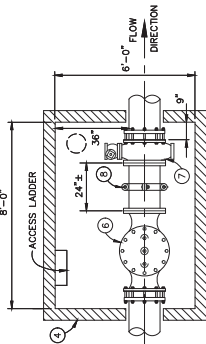
Estimated Ongoing State of California Department of Water Resources (Construction Phase Support Services)	\$ 7,500
SGPWA Legal and Administration	\$ 3,000
BCVWD Legal	\$ 2,500
BCVWD Administration Costs	\$ 2,500
Subtotal Other Costs	\$ 15,500

Subtotal Construction & Other Costs	\$ 424,640
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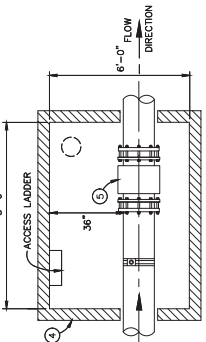
TOTAL CONSTRUCTION WORK AND DESIGN, BID, AND CONSTRUCTION SERVICES COST ESTIMATE	
Total Project Cost	\$ 424,640

ABBREVIATIONS / ACRONYMS

ABANDON	ABANDON
APN	ASSESSOR PARCEL NUMBER
BCWD	BEAUMONT-CHERRY VALLEY WATER DISTRICT
BLD	BLIND
CPL	COUPLING
DN	DOWN
DWR	DEPARTMENT OF WATER RESOURCES (CALIFORNIA)
EBX	EAST BRANCH EXTENSION (STATE WATER PROJECT)
ECC	ECCENTRIC
EX	EXISTING
FLG	FLANGE
HDPE	HIGH DENSITY POLYETHYLENE
HPI	HORIZONTAL POINT OF INFLECTION
MH	MANHOLE
NCV	NORMALLY CLOSED VALVE
OH	OVERHEAD
R	PROPERTY LINE
POC	POINT OF CONNECTION
PP	POWER POLE
RS	RECORD OF SURVEY (MAP)
R/W	RIGHT-OF-WAY
SOPWA	SAN GORGONIO PASS WATER AGENCY
TYP	TYPICAL
VPI	VERTICAL POINT OF INFLECTION
WS	WATER SERVICE



FCV VAULT DETAIL B
SCALE: 3/8"=1'-0"



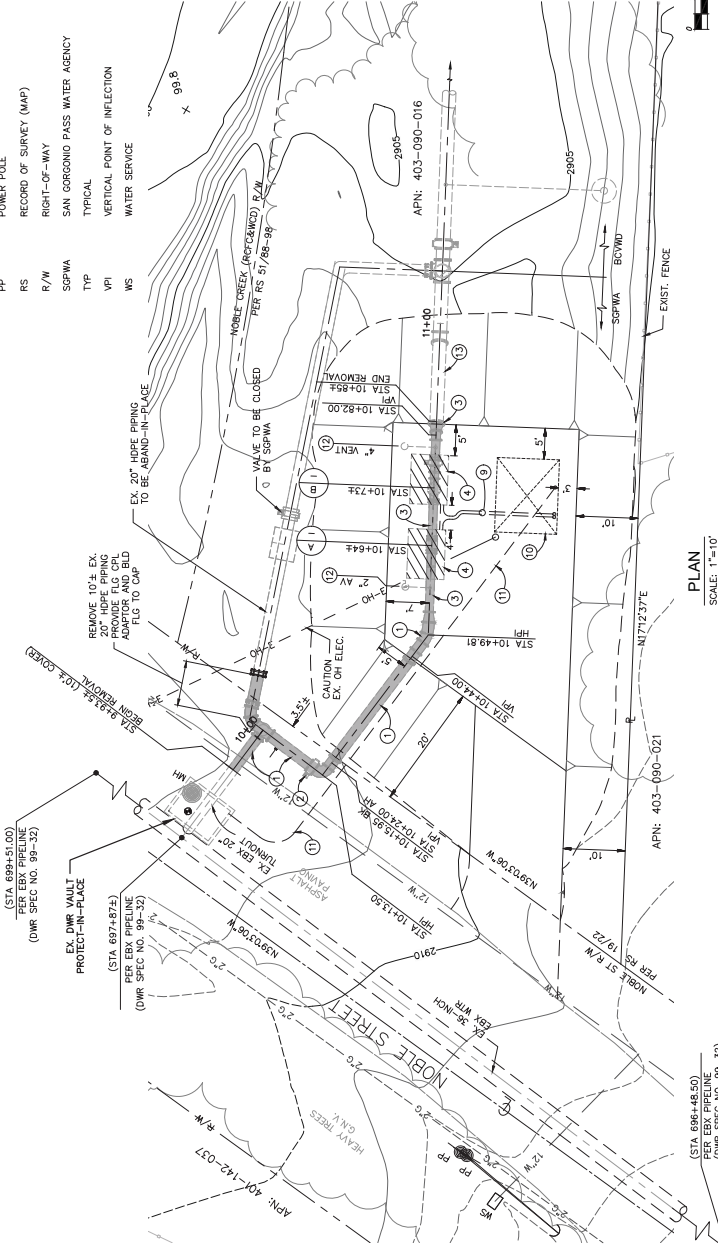
METER VAULT DETAIL A
SCALE: 3/8"=1'-0"

DEMOLITION NOTES:

- 1 REMOVE & DISPOSE OF 20" C-905 PVC PIPE & ASSOCIATED FITTINGS.
- 2 REMOVE & SALVAGE 20" FLG BUTTERFLY VALVE.
- 3 REMOVE & DISPOSE OF 16" C-905 PVC PIPE & ASSOCIATED FITTINGS.
- 4 REMOVE & SALVAGE 8"x6"x6" CONCRETE VAULT & HATCH.
- 5 REMOVE & SALVAGE 16" MAGNETIC FLOW METER.
- 6 REMOVE & SALVAGE 16" CLA-VAL FLOW CONTROL VALVE.
- 7 REMOVE & SALVAGE 16" FLG BUTTERFLY VALVE.
- 8 REMOVE & SALVAGE FLG DL SPOOL & VICTAULIC COUPLING.
- 9 PULL CONDUCTORS BACK TO PANEL AND REMOVE NECESSARY SECTIONS OF EXISTING CONDUIT.
- 10 PROTECT-IN-PLACE EXISTING CONTROL BUILDING.
- 11 PROTECT-IN-PLACE EXISTING BURIED FIBER OPTIC SYSTEM (TWO-Z" CONDUIT W/ CABLES).
- 12 REMOVE & SALVAGE NOTED APPURTENANCE.
- 13 PROTECT-IN-PLACE EXISTING 24" C-905 PVC PIPING.

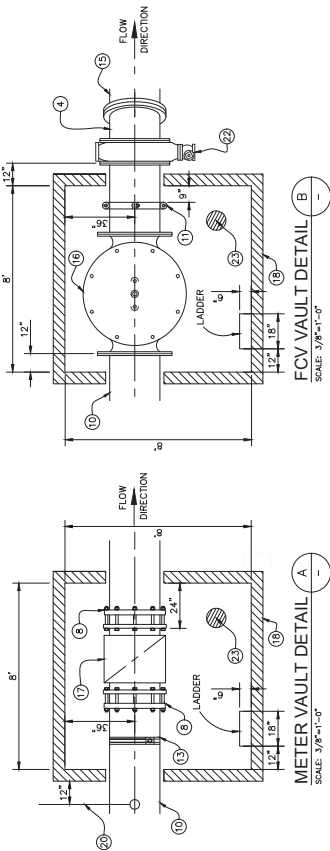
NOTE:

1. PIPE & FITTINGS BETWEEN STA 9+93.64 (BEGIN REMOVAL) AND THE END OF EXISTING EBX PIPE SHALL BE DEMOLISHED & SLURRY. REMOVE AND DISPOSE OF AS REQUIRED FOR NEW WORK.



DESIGN BY: ETH DRAWN BY: JMP CHECKED BY: ETH DATE: 8/2018	1861 W. Redlands Blvd., Bldg 7B Redlands, CA 92373 Tel: (909) 890-0995 F: (909) 890-0995 ENRSC Engineering Resources of Southern California	PROFESSIONAL ENGINEER & SURVEYOR No. 03318 CIVIL STATE OF CALIFORNIA	BY: <i>[Signature]</i> DATE: AUGUST 21, 2018	SAN GORGONIO PASS WATER AGENCY SAN GORGONIO PASS WATER AGENCY 1210 Beaumont Ave Beaumont, CA 92223 Phone (951) 845-2577 Fax (951) 845-0281	DRAWING NO. D-1 SHEET 2 OF 4 SHEETS FILE NO.
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ABBREVIATIONS / ACRONYMS
(SEE LEGEND SHEET 2)

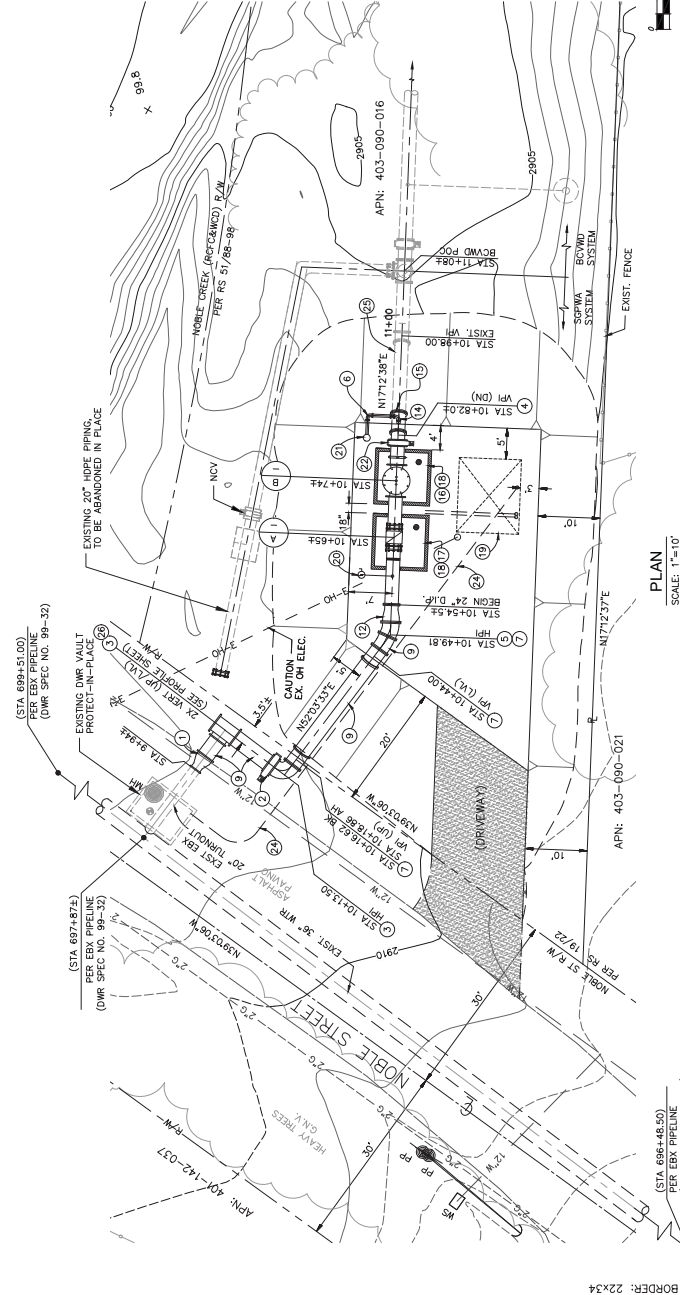


CONSTRUCTION NOTES:

- 1 30" X 20" FLANGED DI ECCENTRIC REDUCER (BOTTOMS LEVEL).
- 2 30" FLANGED BUTTERFLY VALVE.
- 3 30" FLANGED 90° DI ELBOW.
- 4 24" FLANGED 22.5° DI ELBOW.
- 5 30" FLANGED 22.5° DI ELBOW.
- 6 4" GATE VALVE, DI PIPING AND FITTINGS FOR VENT.
- 7 30" FLANGED 11.25° DI ELBOW.
- 8 RESTRAINED FLANGED COUPLING ADAPTER, TYP (SIZE AS REQ'D) - EBAA SERIES 2100 OR APPROVED EQUAL (NOT ALL SHOWN).
- 9 30" PVC PIPING AND FLANGED FITTINGS (SEE NOTE HEREON).
- 10 24" FLANGED X VCTALLIC CUT-GROOVED SPOOL AND COUPLING (STYLE 31).
- 11 30" X 24" FLANGED DI ECCENTRIC REDUCER (TOPS LEVEL).
- 12 1" DIA THREADED DOUBLE STRAP SADDLE WITH 1" MALE X FEMALE COPORATION STOP; SET AT 20° ANGLE FROM TOP OF PIPE.
- 13 6" X 4" FLANGED 90° DI REDUCING ELBOW.
- 14 24" X 6" FLANGED DI TEE (TOP OUTLET), WITH COUPLING FOR CONNECTION TO EXIST. 24" CL-235 (DR-18) PVC PIPING.
- 15 24" FLANGED FLOW CONTROL VALVE (FCV) PER SPECIFICATIONS; CL4 VAL MODEL 131-01 W/ 1/31 VC WITH OPENING AND CLOSING SPEED (FLOW) CONTROL. REINSTALL / RECONNECT CONDUITS AND CONDUCTORS TO INSTRUMENTATION DRAWING RECORD DRAWINGS PER ELECTRICAL AND INSTRUMENTATION DRAWING.
- 16 24" FLANGED MAGNETIC FLOW METER PER SPECIFICATIONS; SPARING CONDUCTORS TO MATCH EXISTING (AND PER RECORD DRAWINGS PER ELECTRICAL AND INSTRUMENTATION DRAWINGS).
- 17 RECONSTRUCT 2" COMBINATION AIR VALVE INSTALLATION AS SHOWN.
- 18 RECONSTRUCT 4" VENT AND PIPING AS SHOWN.
- 19 24" FLANGED BUTTERFLY VALVE (FOR FCV THROTTLING).
- 20 10" DIA (MIN) FLOOR DRAIN WITH RECESSED (SET FLUSH) CAST IRON GRATE. PROVIDE 4" DIA. WEEPING PIPE SYSTEM TO DAYLIGHT IN A 12X12 (X38 DEEP) GRADED DROP INLET TYPE DRWELL AT TOE OF SOUTHERN SLOPE. SET TOP @ 12" ABOVE FINISH GRADE.
- 21 PROTECT-IN-PLACE EXISTING BURIED FIBER OPTIC SYSTEM (100'-2' CONDUIT W/ COILES).
- 22 PROTECT-IN-PLACE EXISTING 24" C-905 PVC PIPING.
- 23 30" FLANGED DI TEE (W/ ONE BUND FLANGE)

GENERAL NOTES:

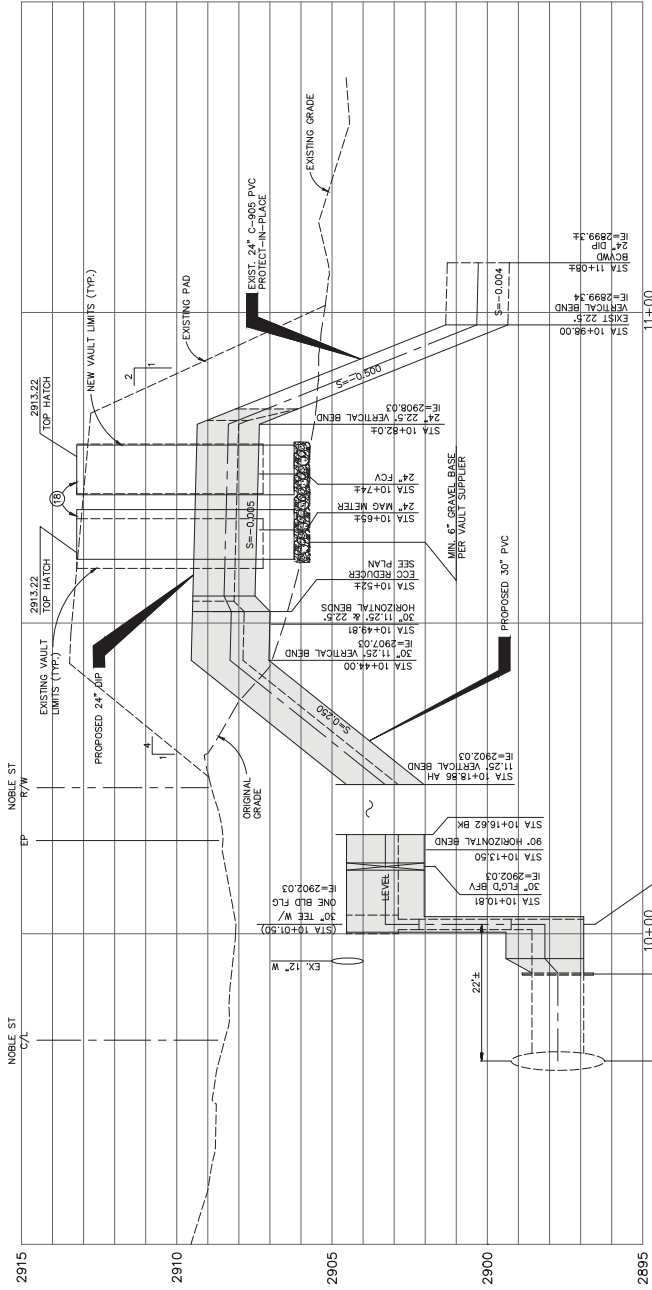
- 1 ALL 30-INCH PIPE SHALL BE CL-235 (DR-18) C-905 PVC WITH STANDARD DI FITTINGS AND RESTRAINED COUPLINGS.
- 2 ALL 24-INCH PIPE SHALL BE THICKNESS CLASS 53 DUCTILE IRON, WITH STD THICKNESS CEMENT MORTAR LINING AND EPOXY COATING. ONE END SHALL BE FLANGED TO MATCH EXISTING (AND PER RECORD DRAWINGS AND DETAILS). EXPOSED (VAULT) PIPING & COUPLINGS SHALL BE FINISH COATED TO AGENCY'S PREFERRED COLOR.
- 3 CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO PURCHASING MATERIALS.
- 4 ALL PIPING AND FITTINGS SHALL HAVE RESTRAINED JOINTS.
- 5 ALL PIPING AND FITTINGS BETWEEN STA 9+94.4 AND THE METER VAULT SHALL BE BACKFILLED (12-INCHES MIN. ALL AROUND) BY A 2-SACK SAND/CEMENT SLURRY PER DWR REQUIREMENTS.



<p>ENSC Engineering Resources of Southern California</p>	<p>1861 W. Redlands Blvd., Bldg 7B Redlands, CA 92373 P: (909) 890-0995 F: (909) 890-0995</p>	<p>DESIGN BY: ETH DRAWN BY: WMP CHECKED BY: ETH DATE: 8/2018</p>	<p>APPROVED: _____ DATE: _____</p>	<p>REVISION</p>	<p>1861 W. Redlands Blvd., Bldg 7B Redlands, CA 92373 P: (909) 890-0995 F: (909) 890-0995</p>	<p>BY: <i>[Signature]</i> DATE: AUGUST 21, 2018</p>	<p>REGISTERED PROFESSIONAL ENGINEER No. 033316 CIVIL EXPIRES 12/31/2018</p>	<p>SAN GORGONIO PASS WATER AGENCY 1210 Beaumont Ave Beaumont, CA 92223 Phone (951) 845-2577 Fax (951) 845-0281</p>	<p>SAN GORGONIO PASS WATER AGENCY NOBLE CREEK EBX UPGRADES CONSTRUCTION PLAN</p>	<p>DRAWING NO. C-1 SHEET 3 OF 4 SHEETS</p>
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DEPARTMENT OF WATER RESOURCES NOTES:

1. A SEVEN (7) DAY ADVANCE NOTIFICATION IS REQUIRED PRIOR TO STARTING WORK ON ANY PROJECT WITHIN THE RIGHT OF WAY OF ANY WATER RESOURCE. THE DEPARTMENT OF WATER RESOURCES, DIVISION OF ENGINEERING, ENFORCEMENT PERMIT SECTION, SACRAMENTO, CALIFORNIA AT (800) 600-4397, THE APPROPRIATE DWR FIELD DIVISION SHALL BE SIMULTANEOUSLY NOTIFIED AT (661) 944-8500.
2. EXCEPT AS OTHERWISE PROVIDED HEREIN, MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT IN PLACE ALL EXISTING UTILITIES, FACILITIES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO COMMUNICATION AND CONTROL LINES, AND TO MAINTAIN THE SAME IN PLACE THROUGHOUT THE PROJECT. THE CONTRACTOR WILL BE LIABLE FOR ALL DAMAGES TO SUCH FACILITIES AND APPURTENANCES AS A RESULT OF THE CONSTRUCTION, AND FOR ANY OTHER DAMAGES OR LOSSES SUFFERED BY ANY PARTY AS A RESULT OF THE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, INDUSTRIAL WATER SUPPLY, AND COMMUNICATION LOSSES.
3. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. TRENCH BUCKETS SHALL BE PLACED AT LEAST 10 FEET FROM THE EXCAVATION. TRENCH BUCKETS SHALL BE PLACED 8-INCH LIFTS IF POWER COMPACTED, TRENCH BUCKETS WITHIN DEPARTMENT OF WATER RESOURCES RIGHT OF WAY SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION (ASTM D1557).
4. COMMUNICATION AND CONTROL CABLES CONNECTED WITH THE OPERATION OF THE STATE WATER PROJECT ARE BURIED ALONG EITHER OR BOTH SIDES OF THE AQUEDUCT/PIPELINE WITHIN DEPARTMENT OF WATER RESOURCES RIGHT OF WAY. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND POT HOLES IN THE PRESENCE OF A DEPARTMENT OF WATER RESOURCES FIELD DIVISION REPRESENTATIVE. CALL SOUTHERN FIELD DIVISION (661) 844-8500 AT LEAST SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION. ALL OPERATIONS SHALL BE WITHIN THREE (3) FEET OF THE CABLE(S) SHALL BE DONE USING HAND-HELD TOOLS ONLY.



PROFILE
H: 1"=10'
V: 1"=2'

	1861 W. Redlands Blvd., Bldg 7B Redlands, CA 92373 P: (909) 890-0995 F: (909) 890-0995	SAN GORGONIO PASS WATER AGENCY SAN GORGONIO PASS WATER AGENCY NOBLE CREEK EBX UPGRADES PROFILE & DWR NOTES	DRAWING NO. C-2 SHEET: 4 OF 4 SHEETS
	DESIGN BY: ETH DRAWN BY: MWP CHECKED BY: ETH DATE: 8/2018	APPROVED: _____ REVISION: _____	BY: DATE: AUGUST 21, 2018



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 6

STAFF REPORT

TO: Board of Directors
FROM: Dan Jagers, General Manager
SUBJECT: **Update: Potential Security Strategies for the Noble Creek Recharge Facility Phase I**

Staff Recommendation

No recommendation. Direct staff as desired.

Background

The Noble Creek Recharge Facility (NCRF), Phase I and Phase 2 is an approximately 82-acre site located on the east side of Beaumont Avenue between Cherry Valley Boulevard and Brookside Avenue. Phase I is approximately 28.5 acres and is accessible to the public (vehicle traffic is restricted at the end of every business day) 24 hours a day. Phase 2 is approximately 53.5 acres, consisting of both spreading basins and a 2.0 mg reservoir.

Phase 1 has been open to the public from sunrise to sunset. Due to observation of undesirable activity at the site, the Board of Directors has discussed limiting public access to the Recharge Facilities and has requested staff prepare a draft Request for Proposals to provide for a welded wire steel security fencing of the facility with either 6'0" or 8'0" height for publishing once a specific fencing material/height is decided.

San Gorgonio Pass Water Agency, as part of the construction of their "Fiesta" recharge facility, is located on the west side of Beaumont Avenue to the southwest of BCVWD's Noble Creek Recharge Facility Phase I and Phase II. The Board had previously expressed an interest in ensuring the BCVWD's fencing is aesthetically consistent with SGPWA's fencing, for the benefit of the community.

It is staff's understanding that the material proposed by the SGPWA for the northern border of SGPWA's facility, along Brookside Avenue, will be wrought iron fencing and the material for the eastern border, along Beaumont Avenue, will be chain link fencing with a bid item for wrought iron fencing as an alternative.

Staff would like to provide one additional opportunity for the Board to discuss this item in light of the additional SGPWA information to confirm the Board wishes to pursue the welded wire security fence option, in light of the additional information, prior to advertising said project for bid.

Fiscal Impact

Unknown at this time.

Attachments

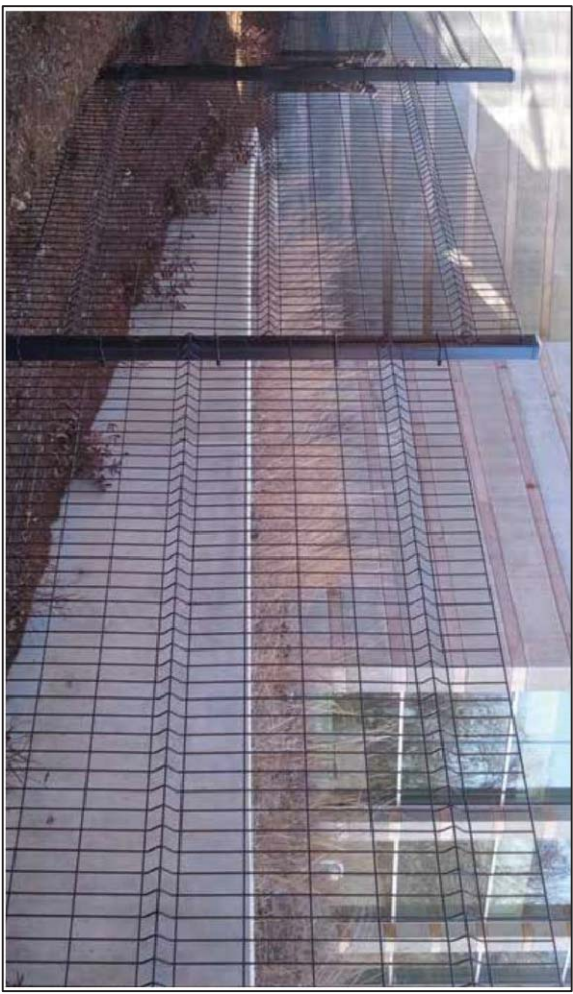
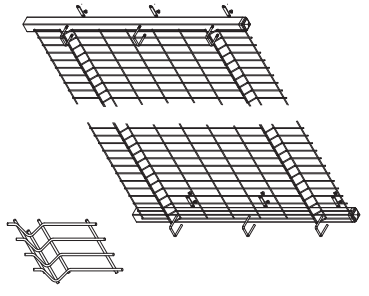
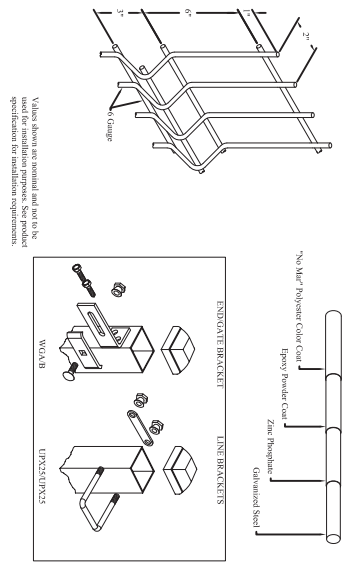
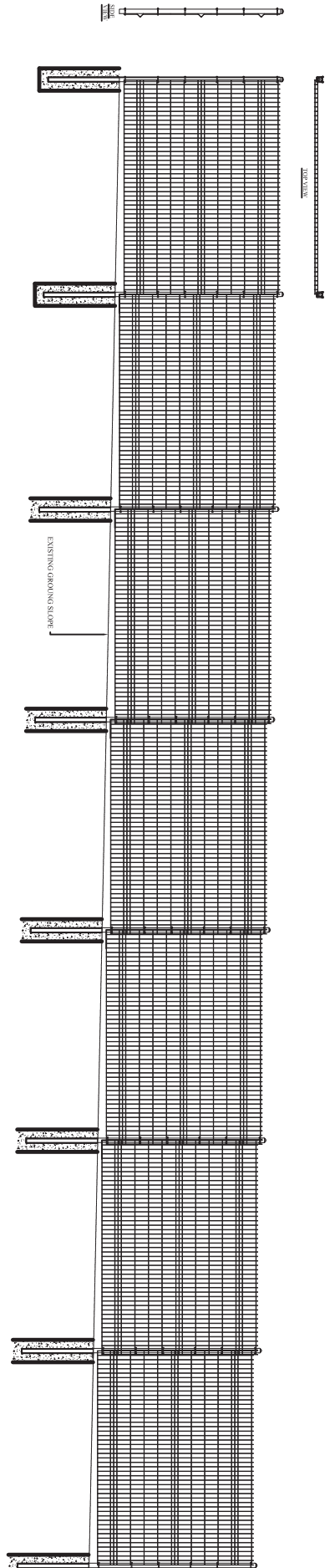
Figure 1 – Noble Creek Recharge Facility Site Map and Proposed Fence Location

Report prepared by Erica Gonzales, Administrative Assistant



Figure 1
Noble Creek Recharge Facility Site Map and Proposed Fence Location





BEAUMONT - CHERRY VALLEY WATER DISTRICT

**WELDED WIRE FENCE PROFILE
PROFILE
(2.1% SLOPE)**

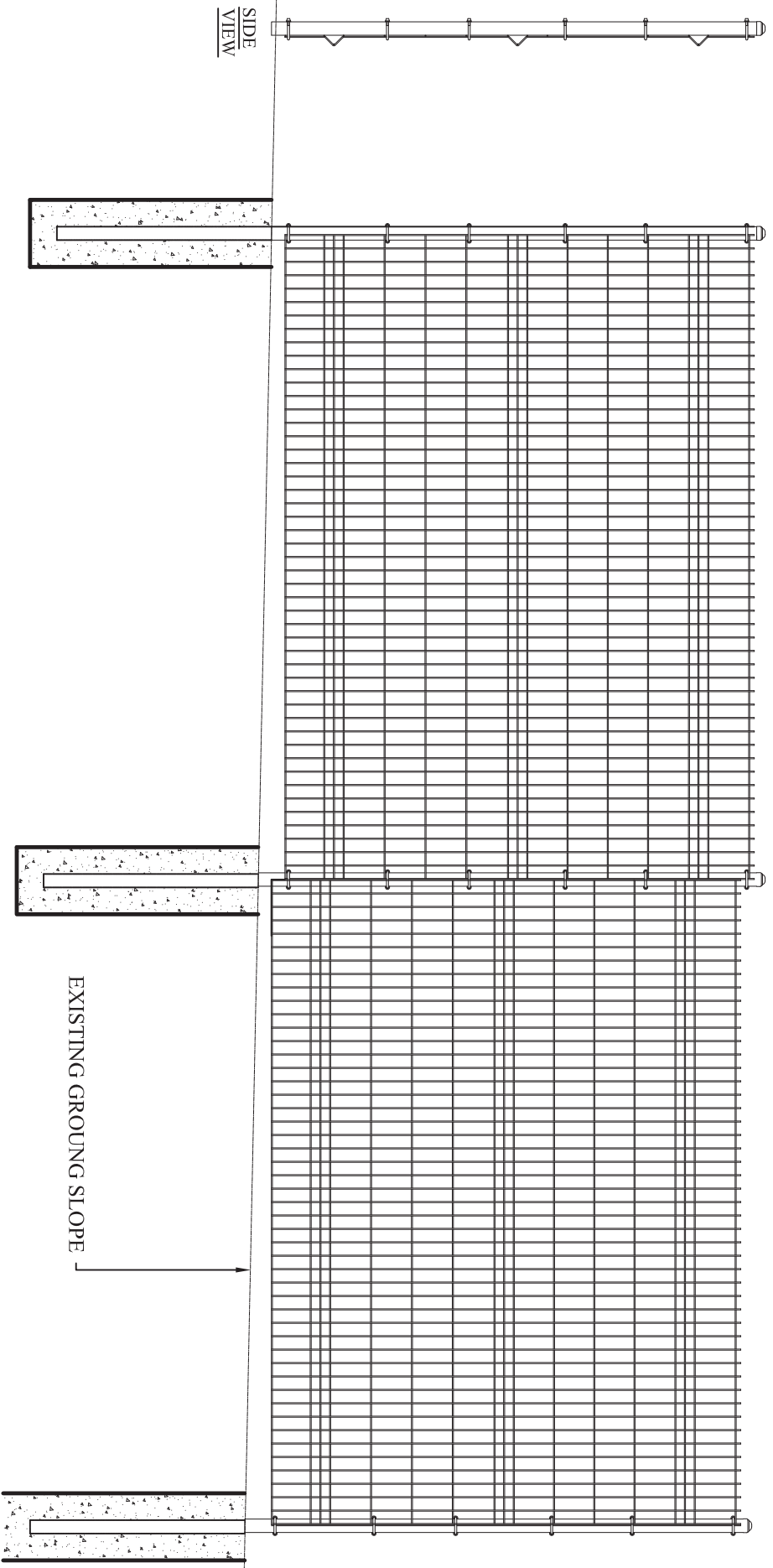
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FIGURE

1

TOP VIEW

SIDE VIEW



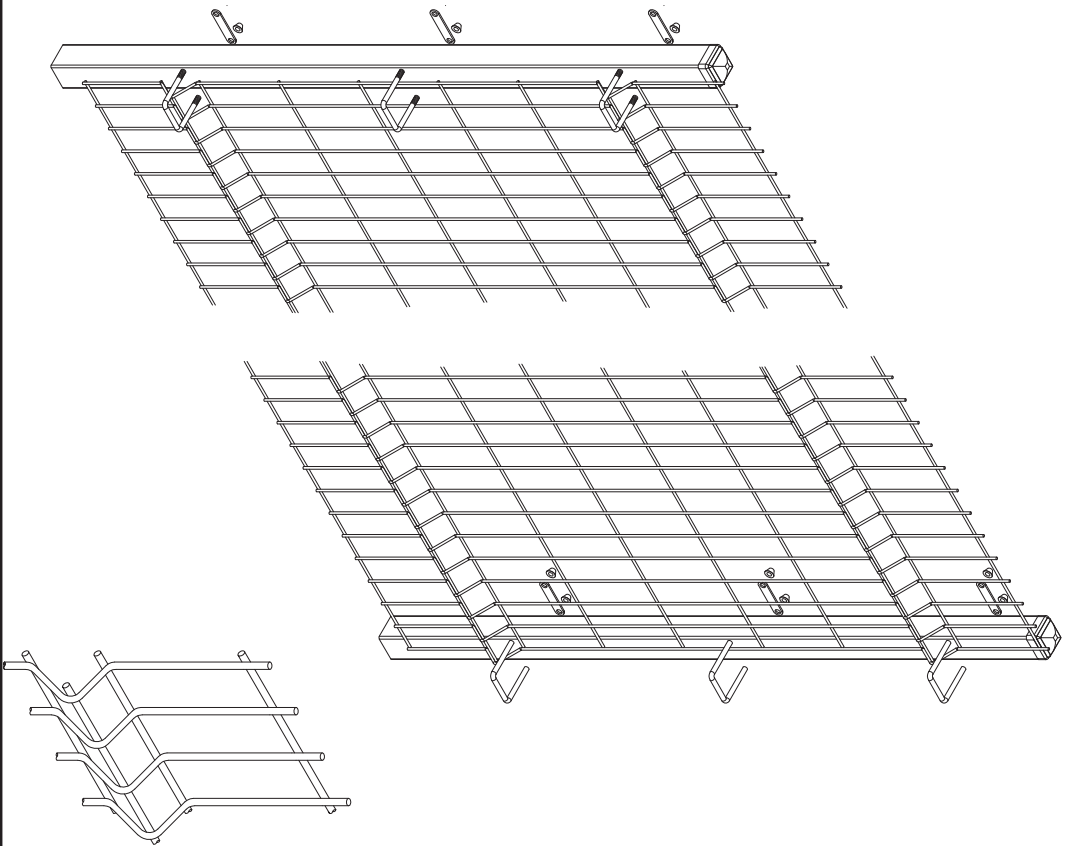
BEAUMONT-CHERRY VALLEY WATER DISTRICT

WELDED WIRE FENCE PROFILE
(2.1% SLOPE)

SCALE: NTS DATE: 10/18/18 DRAWN BY: DKJ CHECKED BY: DKJ W.O.: FILE

FIGURE

2



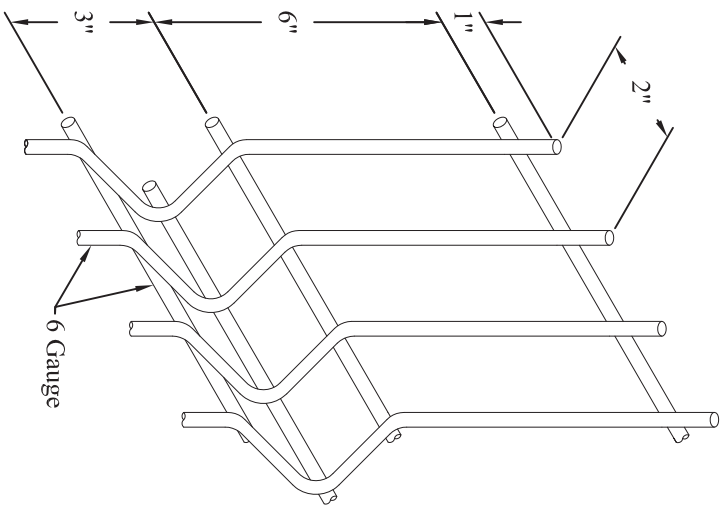
BEAUMONT-CHERRY VALLEY WATER DISTRICT

WELDED WIRE FENCE PROFILE
PROFILE
(2.1% SLOPE)

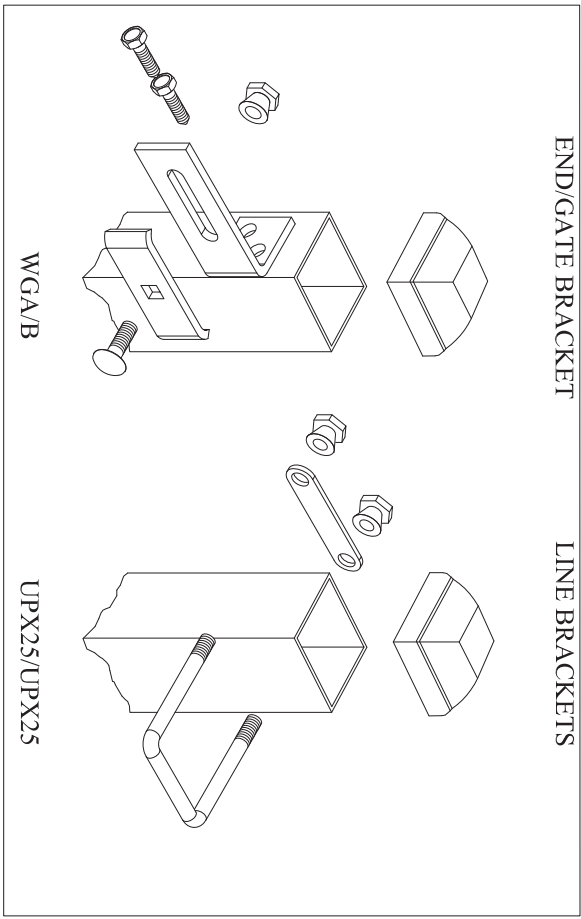
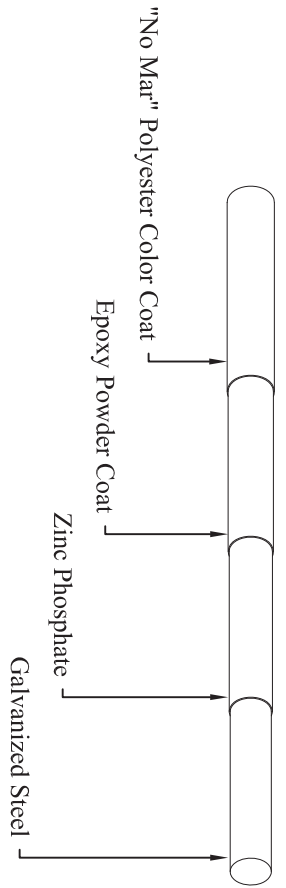
SCALE: NTS DATE: 10/18/18 DRAWN BY: DKJ CHECKED BY: DKJ W.O.: FILE

FIGURE

3



Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.



BEAUMONT-CHERRY VALLEY WATER DISTRICT

**WELDED WIRE FENCE PROFILE
PROFILE
(2.1% SLOPE)**

SCALE: NTS DATE: 10/18/18 DRAWN BY: DKJ CHECKED BY: DKJ W.O.: FILE

FIGURE

4



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 9

STAFF REPORT

TO: Board of Directors
FROM: Dan Jagers, General Manager
SUBJECT: **Update: Status of District Wells, Capital Improvements, and Engineering Projects**

Staff Recommendation

No recommendation.

Background

Beginning in late 2017, the Board approved a number of Capital Improvement, Engineering and Well repair and rehabilitation projects, either as part of the annual program to ensure quality of supply and serviceable equipment, or out of necessity due to equipment failure. The purpose of this staff report is to update the Board on all major Capital Improvement, Engineering and Well repair and rehabilitation projects that have been undertaken in 2017/2018 or are upcoming in the near future.

Summary

The attached tables set forth the current status of said on-going projects.

Attachments

Table 1 – 2018 Board Approved Facility Replacement and Well Site Repair, Rehabilitation, and Replacement

Table 2 – On-going Capital Improvement Projects

Table 3 – Upcoming Capital Improvement Progress

Prepared by Erica Gonzales, Administrative Assistant

Table 1 2018 Board Approved Facility Replacement and Well Site Repair, Rehabilitation, and Replacement							
Potable Infrastructure Project Description	Total Anticipated Project Amount	Total Project Expenses	Y-T-D Actuals 2018	Funding Source	Current Status	Project Notes	
Well 11 Repair and Rehabilitation	\$ 87,621	\$ 13,979	\$ 13,979	Capital Replacement Reserve	Completed		
Well 20 Repair and Rehabilitation	See Well 11	\$ 16,919	\$ 16,919	Capital Replacement Reserve	Completed		
Well 12 Repair and Rehabilitation	See Well 11	\$ 31,009	\$ 31,009	Capital Replacement Reserve	Completed		
Well 19 Repair and Rehabilitation	See Well 11	\$ 33,782	\$ 33,782	Capital Replacement Reserve	Completed		
Well 26 Repair and Rehabilitation	\$ 142,900	\$ 92,933	\$ 92,933	Capital Replacement Reserve	Completed		
Well 29 Emergency Repair	\$ 119,637	\$ 132,863	\$ 132,863	Capital Replacement Reserve	Completed		
Well 22 Repair and Rehabilitation	\$ 217,660	\$ 35,947	\$ 35,947	Capital Replacement Reserve	Ongoing	Ordered pump, valves, meters, column, tube shaft	

Beaumont-Cherry Valley Water District

**Table 2
Ongoing Capital Improvement Plan (CIP) Projects**

Project No.	Project Description	Approved CIP Cost	Total Project Costs (September 30, 2018)	% Expended	Budget 2018	Y-T-D Costs (September 30, 2018)	Funding Source	Project Status
WR-REWTR-Plan	Recycled Water Masterplan Update 2016	\$ 25,000	\$ 84,004	336%	\$ 25,000	\$ 5,360	Facilities Fees	Ongoing
WR	Grand Avenue Storm Drain	\$ 2,160,327	\$ 38,058	2%	\$ 327,261	\$ 748	Facilities Fees	Ongoing
W-2750-0005	Replace 2750 Zone Well 1	\$ 4,161,200	\$ 30,345	1%	\$ 2,750,969	\$ 25,178	Facilities Fees	Ongoing
W-2750-0001	Replacement for Well 2	\$ 5,389,609	\$ 29,187	1%	\$ 2,191,452	\$ 25,164	Capital Replacement Reserve	Ongoing
W-2750-0002	2750 Zone Well in Noble Creek Regional Park	\$ 5,995,649	\$ 16,733	0%	\$ 3,208,817	\$ 10,966	Facilities Fees	Ongoing
W-2850-0001	New Beaumont Basin Well on Pardee Sundance Site	\$ 5,860,743	\$ 16,004	0%	\$ 2,303,894	\$ 10,965	Facilities Fees	Ongoing
M-2750-0001	2850/2750 Pressure Reducing Station & Piping (Cherry Reservoir)	\$ 52,767	\$ 869	2%	\$ 52,767	\$ -	Capital Replacement Reserve	Not started
M-2850-0001	Well 25 East Block Wall and Entrance Gate	\$ 56,660	\$ 4,760	8%	\$ 56,660	\$ 1,778	Facilities Fees	Specs. 80% Complete
M-0000-0001	800hp Spare Motor	\$ 131,948	\$ 2,433	2%	\$ 131,948	\$ 1,410	Capital Replacement Reserve	Specs. 80% Complete
M-3040-0002	Noble Booster Pump and Motor(Spare Pump & Motor)	\$ 26,188	\$ 2,978	11%	\$ 26,188	\$ 1,655	Capital Replacement Reserve	Specs. 80% Complete
NPT-2800-001	Raw Water Filter System at 2800 PZ Tank	\$ 263,543	\$ 2,235	1%	\$ 263,543	\$ -	Facilities Fees	Not started
T-3040-0001	Pressure Zone Pipeline	\$ 1,250,369	\$ 11,189	1%	\$ 65,312	\$ 5,990	Facilities Fees	Ongoing
T-3040-0001	2 MG 3040 Zone Tank	\$ 3,769,181	\$ 102,538	3%	\$ 239,743	\$ 91,387	Facilities Fees	Ongoing
P-2750-0069	Egan Ave-California Ave. Alley, 5th to 7th	\$ 221,920	\$ 26,403	12%	\$ 221,920	\$ 23,333	Capital Replacement Reserve	Ongoing
P-3620-0012	Ave Altejo Bella, Ave Miravilla to end of cul-de-sac	\$ 295,648	\$ 26,556	9%	\$ 100,000	\$ 23,278	Capital Replacement Reserve	Ongoing

Beaumont-Cherry Valley Water District

**Table 2
Ongoing Capital Improvement Plan (CIP) Projects**

Project No.	Project Description	Approved CIP Cost	Total Project Costs (September 30, 2018)	% Expended	Budget 2018	Y-T-D Costs (September 30, 2018)	Funding Source	Project Status
P-3620-0015	Appletree Ln, B line to Oak Glen Rd	\$ 696,143	\$ 25,092	4%	\$ 696,143	\$ 22,032	Capital Replacement Reserve	Ongoing
M-0000-0002	Chlorination Retrofit At Misc. Wells (6 Well Sites)	\$ 100,677	\$ 31,615	31%	\$ 31,713	\$ 31,615	Capital Replacement Reserve	3 year project, 2 of 2 delivered for 2018
WR-IMWTR-Plan	Pass Agency Imported Water Strategy	\$ 7,000	\$ 67,445	964%	\$ 7,000	\$ 41,729	Capital Replacement Reserve	Ongoing, White Papers 1-7
WR-COBRW-Plan	City of Beaumont Recycled Water Project	\$ 15,000	\$ 12,909	86%	\$ 15,000	\$ 6,530	Facilities Fees	Ongoing
IT-NETW-0006	Workstation Replacement project (50 units @ \$1,000 per unit - 33% per year)	\$ 225,096	\$ 12,581	6%	\$ 20,101	\$ 12,581	Capital Replacement Reserve	90% Complete for 2018
WR-SITES-Reser.	Investment in Sites Reservoir Project	\$ 4,000,000	\$ 166,200	4%	\$ 73,800	\$ -	Facilities Fees	Ongoing
IT-NETW-0005	IP Surveillance Project	\$ 27,950	\$ 8,989	32%	\$ 27,950	\$ 8,989	Capital Replacement Reserve	95% Complete
IT-SCAD-0004	AMR / AMI Deployment Project	\$ 4,198,595	\$ 84,563	2%	\$ 1,008,702	\$ 84,563	Capital Replacement Reserve	2% Complete
IT-NETW-0009	Engr. Blueprint/ Plans Printer/Scanner	\$ 8,414	\$ 5,025	60%	\$ 8,414	\$ 5,025	Capital Replacement Reserve	100% Complete
VE-TRUK-0003	F150 (Replacing the 2005 4X4 Ranger) (Dec, 2004)	\$ 27,485	\$ 23,678	86%	\$ 27,485	\$ 23,678	Capital Replacement Reserve	Being outfitted
VE-TRUK-0006	F150 (Replacing the 2005 4X4 Ranger) (Dec, 2004)	\$ 27,485	\$ 23,725	86%	\$ 27,485	\$ 23,725	Capital Replacement Reserve	Being outfitted
VE-TRUK-0007	F150 (Replacing the 2006 4X4 Ranger)(Dec, 2004)	\$ 27,485	\$ 23,725	86%	\$ 27,485	\$ 23,725	Capital Replacement Reserve	Being outfitted
VE-TRUK-0010	2004 Dodge 1500 (Mar, 2004)	\$ 36,084	\$ 30,715	85%	\$ 36,084	\$ 30,715	Capital Replacement Reserve	Being outfitted

Beaumont-Cherry Valley Water District

**Table 3
Upcoming Capital Improvement Plan (CIP) Projects**

Project No.	Project Description	Approved CIP Cost	Funding Source	Priority (1 -5)
TM-3040-0001	Highland Springs Reservoir Recoat & Retrofit	\$ 375,200	Capital Replacement Reserve	2
TM-3330-0001	Lower Edgar Reservoir Recoat & Retrofit	\$ 375,200	Capital Replacement Reserve	2
BP-2850-0001	2850 Zone to 3040 Zone Booster Pump Station	\$ 3,921,014	Facilities Fees	2 - 3
W-2850-0003	New Beaumont Basin Well Noble Creek Meadows	\$ 6,688,706	Facilities Fees	5
PR-3330-0001	3330 to 3150 Lower Mesa, Noble Regulator	\$ 37,286	Capital Replacement Reserve	4
PR-3620-0001	3620 to 3330 Fisher Pressure Regulator	\$ 37,286	Capital Replacement Reserve	3
NPR-2520-0001	2520 to 2370 Non-potable Water Pressure Regulator	\$ 134,041	Facilities Fees	1 - 2
NPR-2600-0001	2600 to 2520 Non-potable Water Pressure Regulator	\$ 134,041	Facilities Fees	1 - 2
NPR-2600-0001	2600 Zone Non-potable Regulation and Metering Station	\$ 362,474	Facilities Fees	3 - 4
NPR-2800-0001	2800 to 2600 Non-potable Water Pressure Regulator	\$ 211,431	Facilities Fees	3 - 4
NT-2800-0001	2MG Non-potable 2800 Zone Tank	\$ 4,267,870	Facilities Fees	5
NWR-2600-0002	San Timoteo Creek Non-potable Extraction Wells	\$ 8,793,300	Facilities Fees	2 - 3
P-2520-0003	Cherry Valley Blvd., End Ex. 24-in to SunCal PA 17	\$ 181,764	Facilities Fees	3
P-3620-0009	Ave. Miravilla, End of 12-in to Whispering Pines	\$ 339,092	Capital Replacement Reserve	1
P-2750-0067	Elm Ave.-Wellwood Ave. Alley, 7th St. to 5th St.	\$ 152,976	Capital Replacement Reserve	1

Beaumont-Cherry Valley Water District

**Table 3
Upcoming Capital Improvement Plan (CIP) Projects**

Project No.	Project Description	Approved CIP Cost	Funding Source	Priority (1 -5)
IT-NETW-0002	Redundant SAN Project	\$ 27,950	Capital Replacement Reserve	3
IT-NETW-0003	Endpoint Protection / LanGuard Security Software Project	\$ 11,010	Capital Replacement Reserve	1
IT-NETW-0004	Email Spam Protection / Archive Solution	\$ 7,839	Capital Replacement Reserve	1
IT-NETW-0008	Shoretel Phone System Redundancy Equipment	\$ 13,769	Capital Replacement Reserve	4
IT-NETW-0010	Truck Radios (7)	\$ 21,655	Capital Replacement Reserve	3
IT-SCAD-0002	Wonderware SCADA Phase 2 Project	\$ 391,596	Capital Replacement Reserve	2
IT-SCAD-0003	Wonderware SCADA Phase 3 Project	\$ 224,686	Capital Replacement Reserve	3 - 4
IT-ADMIN-0001	Laser-Fishe Digitized Fileroom Project	\$ 100,833	Capital Replacement Reserve	2
IT-ADMIN-0003	Replace Desk 14 Desk Chairs @ \$90 ea-old high backs worn out	\$ 1,260	Capital Replacement Reserve	2 - 3
IT-ADMIN-0004	Replace 18 Guest Chairs @ \$135 ea - broken and dangerous	\$ 2,430	Capital Replacement Reserve	2 - 3
IT-ADMIN-0005	Two (2) End Tables for Lobby @ \$85 ea	\$ 170	Capital Replacement Reserve	2 - 3
IT-ADMIN-0006	Three (3) Customer Svc.Stools @\$140 ea - old ones worn out	\$ 420	Capital Replacement Reserve	2 - 3



**Beaumont-Cherry Valley Water District
Regular Board Meeting
October 25, 2018**

Item 10

Update: Legislative Action and Issues Affecting BCVWD

Federal				New or Change in Status (New/Y/N)
Issue	Status	Description		
S. 3021 – America’s Water Infrastructure Act of 2018	10/12/2018 – Presented to President	This is a gut-and-amend bill. To provide for improvements to the rivers and harbors of the United States, to provide for the conservation and development of water and related resources, to provide for water pollution control activities, and for other purposes such as reservoirs, levees, dam safety, dredging, invasive species, drinking water systems, and more. The bill authorizes \$4.4 billion over three years for the Drinking Water State Revolving Fund, a low-interest loan program that is the preeminent source of federal assistance for water systems. Loans can be extended to 40 years for disadvantaged communities. Also authorizes \$15 million over three years for grants to replace school drinking water fountains.	Y	
H.R. 6705 – Amd. to Safe Drinking Water Act	9/5/18 – Referred to the House Committee on Energy and Commerce	To amend the Safe Drinking Water Act to require the Administrator of the Environmental Protection Agency to publish a maximum contaminant level goal and promulgate a national primary drinking water regulation for perchlorate, and for other purposes.	Y	
H.R. 8 – Water Resources and Development Act (WRDA) of 2018	Approved by House on 6/6/18. On 6/26/18, Bill was placed on Senate Legislative Calendar	This bill will authorize various US Army Corps of Engineers projects under previous reform efforts to be improved. Eliminates barriers to project delays and improves oversight and transparency. Reauthorizes the Levee Safety Initiative and National Dam Safety Program through 2023. Authorizes modifications to on-going projects – including Yuba River Basin. WRDA would be considered by Congress every 2 years.	N	
H.R. 434 – New WATER Act	Introduced 02/07/17 – Referred to House Subcommittee on Water, Power, and Oceans	This bill would authorize the Dept. of Interior, for 15 years after the bill’s enactment, to provide financial assistance, such as secured loans or loan guarantees, to entities that contract under federal reclamation law to carry out water projects within the 17 western states served by the Bureau of Reclamation, other states where Bureau is authorized to provide project assistance, Alaska, and Hawaii.	N	

H.R. 1269 – Sacramento Valley Water Storage and Restoration Act	Introduced 3/10/17 – Referred to House Subcommittee on Water, Power, and Oceans	This bill would direct the Secretary of the Interior to take actions to support the non-Federal investments in water infrastructure improvements in the Sacramento Valley. The legislation declares that it is in the interest of the Federal Government to work with the Sites Reservoir Project Authority to study, promote, develop, design, finance, acquire, construct, manage, and operate Sites Reservoir and related facilities in order to advance the Sites Project in the most expeditious and cost-effective manner possible.	N
Energy and Water Appropriations Bill For FY 2019	Signed by the President 9/21/2018	Overall, the bill totals \$44.7B. Includes \$1.56B in funds for the Bureau of Reclamation, including \$134M for water storage projects authorized in the Water Infrastructure Improvements for the Nation (WIIN) Act.	Y

California			
Issue	Status	Description	New or Change in Status (New/Y/N)
AB 869: Sustainable Water use and demand reduction: recycled water	8/24/17 – Held in Senate Natural Resources and Water Committee	This bill would require long-term standards for urban water conservation and include a credit for recycled water. Urban water suppliers would receive a credit for the volume of its potable water reuse, on an acre-foot basis, to meet its water use target. Encourages continued investment in water reuse throughout the state to be better prepared for periods of drought.	N
AB 1668 - Water Management Planning	5/31/18 – Signed into Law by Governor, and Chartered	Approved bill which establishes an “urban water use objective” representing the total amount of efficiently used water by water suppliers. Five major components: 1) Total Indoor Residential Use; 2) Total Outdoor Water Use and CII Use; 3) Water Loss from Leaks; 4) Approved Variances; 5) Credits for Qualifying Potable Reuse.	N
AB 2370 Lead Exposure: Child Day Care Facilities – Family Day Care Homes	09/22/18 – Signed into Law by Governor, and Chartered	Beginning in January 1, 2020, day care centers operating in a building/house constructed after January 1, 2010 will be required to test their drinking water for lead contamination at least once every 5 years, and results are to be reported to the State Water Resource Control Board.	NEW
AB 3206: Water conservation: water meters: accuracy and	08/16/18 – In Committee on Appropriations – Held Under Submission	Proposed bill would require the State Energy Resources Conservation and Development Commission, on or before January 1, 2022 to adopt regulations setting standards for the accuracy of water meters.	N

performance standards			
SB 606: Water Management Planning	5/31/18 – Signed Into Law by Governor, and Chaptered	The bill would require an urban retail water supplier to calculate an urban water use objective no later than November 1, 2023, and by November 1 every year thereafter, and its actual urban water use by those same dates.	N
SB 952: Water Conservation: Local Water Supplies	2/8/18 – Referred to Senate Committee on Rules.	This Bill would provide a statement of intent of the Legislature to enact legislation that would require the State Water Resources Control Board to recognize local water agency investment in water supply and will ensure that local agencies receive sufficient credit for these investments in meeting any water conservation or efficiency mandates	N
SB 998: Discontinuation of residential water service: urban and community water systems	9/28/2018 – Signed into Law by Governor, and Chaptered	This Bill would prohibit residential service from being discontinued under specified circumstances (i.e. inability to pay). The proposed bill sets forth a shut-off process creates a statewide program which would prevent discontinuation of service for at least 60 days for delinquent customers, cap reconnection fees that may or may not cover the actual cost of reconnections.	Y
SB 1422: California Safe Drinking Water Act: Microplastics	9/28/18 – Signed into Law by Governor, and Chaptered	Would require the State Water Resources Control Board to adopt requirements for the testing and reporting of the amount of microplastics in drinking water, including public disclosure of those results.	Y