



# ***PROPOSAL***

***TO***

**CITY OF EL MONTE**

***FOR***

***2020***

***URBAN WATER MANAGEMENT PLAN***

**AUGUST 23, 2021**



861 Village Oaks Drive, Suite 100 • Covina, California 91724  
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Northern California • Southern California • Arizona • Colorado



August 23, 2021

George Cambero  
City of El Monte  
Department of Public Works – Utility Division  
11333 Valley Boulevard  
El Monte, CA 91731

Subject: Proposal for Preparation of the 2020 Urban Water Management Plan (UWMP)

Dear Mr. Cambero:

Stetson Engineers Inc. (Stetson) is pleased to provide this Proposal for preparation of the City of El Monte's (City's) 2020 Urban Water Management Plan (UWMP), in accordance with UWMP guidelines. Stetson is prepared to commit the engineering professionals, support staff and equipment to provide the City with an up-to-date, comprehensive 2020 UWMP that meets all of the California Department of Water Resources' (DWR) requirements, and to meet the needs of the City. The enclosed "Proposal" has been prepared to address DWR's requirements for the 2020 UWMPs.

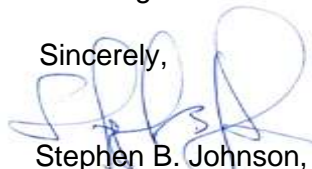
Stetson also has extensive experience with all of the City's sources of water supply. As Engineer for the Main San Gabriel Basin Watermaster, Stetson is aware the City's primary source of water supply is groundwater from the Main Basin.

The following contact information is provided:

- *Firm Name:* Stetson Engineers Inc.
- *Office Address:* 861 S. Village Oaks Drive, Suite 100  
Covina, California 91724
- *Telephone:* (626) 967-6202
- *Corporate Officer Authorized to Execute Agreement:* Mr. Stephen B. Johnson
- *Primary Contact:* Mr. Stan Chen
- *Email:* [stanc@stetsonengineers.com](mailto:stanc@stetsonengineers.com)

This Proposal will remain in effect for 90 calendar days from August 23, 2021. I have read understood, and agreed to all statements in this Request for Proposal and acknowledge receipt of all addendums/amendments as well as to the terms, conditions, and attachments references. Thank you for considering Stetson's Proposal and this opportunity to assist the City.

Sincerely,



Stephen B. Johnson, P.E.  
President  
Stetson Engineers Inc.

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## 1. STETSON'S BACKGROUND

### **Municipal Engineering**

- Watershed Sanitary Surveys
- Water Distribution System Design & Construction Mng
- Water Distribution System Modeling
- Water System Master Plans
- Recycled Water Systems
- Storm Water System Analysis
- Water Treatment Facilities
- Wastewater Systems

### **Groundwater Resources**

- Groundwater Modeling
- Watermaster Services
- Basin Investigations
- Groundwater Development
- Groundwater Management Plans
- Water Wells/Planning, Design, Construction
- Wellhead Protection Plans
- Artificial Recharge Studies
- Water Quality Assessments
- Safe Yield Studies
- Groundwater Cleanup and Aquifer Restoration
- Geophysical Surveys

### **Water Systems Management**

- Economic Feasibility
- Operational Surveys
- Rate Design/Analysis
- System Appraisals and Valuations

### **Environmental Engineering**

- Wetland/Riparian Hydrology
- Impact Analysis/Restoration
- Environmental Assessments and Impact Studies
- Geomorphic Analysis
- Fluvial Geomorphology

### **Water Rights**

- Federal Reserved Water Rights Studies
- Basin and River Adjudications
- Water Right Valuations and Transfers
- Legal and Institutional Support
- Expert Witness Testimony

### **Surface Water Resources**

- River Basin and Watershed Studies
- Natural Flow Determinations
- Reservoir Operations and System Modeling
- Hydropower Investigations

water system design for complete distribution systems, pipelines, reservoir storage facilities, pumping stations, and water treatment facilities; financial planning and analysis; water district engineering services; and hydrogeological studies of groundwater basins. Stetson's services include the preparation of watershed sanitary surveys; specifications, construction drawings, and contract documents; master plans; feasibility studies; water supply evaluations; urban water management plans; computer modeling of water systems and groundwater basins; and grant and loan applications.

### ***Integrating Engineering with Water Resources for Over 60 Years***

Stetson Engineers Inc. (Stetson) specializes in management and development of water resources. The firm consults to federal, state, and local agencies; Native American Tribes; community groups; and private clients throughout the western United States.

Stetson specializes in all phases of water resources engineering including preparation of Urban Water Management Plans; water facility design and construction management; groundwater basin management; water quality evaluations; water distribution system hydraulic modeling; financial planning and analysis; grant support services; development of water system master plans; and project administration.

### **BUILDING ON EXCELLENCE**

The firm was established by Thomas M. Stetson in 1957 as Thomas M. Stetson Civil and Consulting Engineers. In 1977, the Company was incorporated as Stetson Engineers Inc. Mr. Stetson's handpicked successors have maintained the founder's focus on quality services and long-term relationships with a solid client base. We now staff offices in Covina, Carlsbad, and San Rafael, California; Centennial, Colorado; and Mesa, Arizona. For over six decades, Stetson has provided creative solutions to water resources issues, considering and applying state-of-the-art or unique methods in addition to traditional approaches. Stetson has moved to the forefront of mid-sized consultants specializing in planning, water resources, and problem solving. Stetson specializes in all phases of water resources engineering, including water well design and development;

## **2. QUALIFICATIONS AND EXPERIENCE OF STETSON'S PERSONNEL**

### **PROJECT PERSONNEL**

Stetson has assembled a project staff team that will provide the City with senior staff highly experienced in the preparation of UWMPs. Qualifications of project personnel who will be working on the 2020 UWMP for the City are provided below. Project personnel resumes are included in Appendix A of this proposal.

#### **STEPHEN JOHNSON, P.E.**

#### **PRINCIPAL-IN-CHARGE**

Mr. Johnson, President and a principal of Stetson, is the supervising engineer in charge of the Southern California office and has over 41 years of experience. Mr. Johnson has been involved in UWMPs, water system analyses, water rights quantification and analysis, supplemental water requirement studies, alternative water supply studies, annual reports, water quality monitoring reports, groundwater management studies, and project feasibility studies. Mr. Johnson has extensive experience with municipal and water district level issues, having been working directly as Engineer for the Main San Gabriel Basin Watermaster and for several watersheds in southern California on such matters as water supply, water quality, management, and financing.

#### **JEFF HELSLEY, P.E.**

#### **PROJECT MANAGER**

Mr. Helsley has over 37 years of experience in water resource management in southern California. Mr. Helsley has supervised numerous groundwater treatment, groundwater recharge, water supply, and water rights studies. Mr. Helsley has extensive experience in municipal water supply projects in both the Main San Gabriel Basin and in Central Basin and has unique knowledge of water supply, water quality, and groundwater management for both of these groundwater basins. Mr. Helsley was formerly the District Engineer and Assistant General Manager of the Water Replenishment District of Southern California, where he was responsible for the development and implementation of programs to enhance groundwater recharge, improve groundwater basin management, and project groundwater quality. Mr. Helsley was Stetson's Project Manager for a feasibility study for siting groundwater recharge facilities in the Antelope Valley. Mr. Helsley has been responsible for leading stakeholder-based water management plans for the Foothill Municipal Water District, Newhall County Water District, and the Local Agency Formation Commission for Los Angeles County. Mr. Helsley's experience includes employment with the Los Angeles County Department of Public Works where he was responsible for studies to develop improvements to the County's injection barriers to prevent seawater intrusion, and studies of groundwater recharge optimization.

#### **STAN CHEN, P.E.**

#### **PROJECT MANAGER**

Mr. Chen has over 21 years of experience in water resource engineering including water supply assessments, water system master plans, water supply plans, hydrologic studies, water rights and supply evaluation, Drinking Water Source Assessment and Protection (DWSAP) Program Plans, and water quality studies. Mr. Chen was involved in the preparation of numerous 2015 and 2020 UWMPs.

#### **SAM LO, P.E.**

#### **PROJECT ENGINEER**

Mr. Lo is a senior engineer with over 20 years of experience with design of water and recycled water facilities (pipelines, wells, pump stations, treatment facilities, etc.), preparation of environmental documentation for water projects, compliance monitoring of industrial waste discharge programs, and with preparing and implementing NPDES services such as preparing permit application, report monitoring and water quality compliance. Mr. Lo has been supporting the expansion of the Upper San Gabriel Valley Municipal Water District's recycled water system for the past several years. His duties have included construction management support and

design of retrofits of customer's irrigation systems to comply with recycled water regulations. Mr. Lo was involved in the preparation of numerous 2015 and 2020 UWMPs.

**JENNY SAVRON**

**PROJECT ENGINEER**

Ms. Savron has been involved in numerous UWMPs, water system master plans, and water supply assessments and has analyzed water system operations. Ms. Savron was involved in the preparation of numerous 2015 and 2020 UWMPs.

**NOAH WASSERMAN**

**GIS MANAGER**

Mr. Wasserman has been involved in GIS mapping and spatial analysis, including map/figure production and layout, analysis of vector and raster data (including aerial images), data management, online mapping and data applications, etc. As GIS Manager, he has worked extensively on present/historic irrigation aerial photography interpretation and image georeferencing. Mr. Wasserman is proficient in ArcGIS 10.2.2 and has received GIS Professional (GISP) certification.

**EXPERIENCE AND REFERENCES**

**Urban Water Management Plans**

Stetson has broad experience in all aspects of water resource engineering, along with directly applicable experience based on past preparation of UWMPs. Stetson has prepared UWMPs for over 20 different clients since 1985 when the initial UWMPs were required. Stetson has also assisted with the preparation of the notice of Public Hearing and attendance in the Public Hearing. In addition, Stetson has prepared 2020 UWMPs for the following water agencies:

- Upper San Gabriel Valley Municipal Water District
- Three Valleys Municipal Water District
- City of Arcadia
- City of Alhambra
- City of Chino
- City of Covina
- City of Downey
- City of Glendora
- City of Hemet
- City of Manhattan Beach
- City of Monrovia
- City of Monterey Park
- City of Ontario
- City of Pomona
- City of San Jacinto
- City of Santa Fe Springs
- City of Sierra Madre
- City of South Pasadena
- City of Whittier
- Cucamonga Valley Water District
- Chino Basin Desalter Authority
- Golden State Water Company – Claremont
- Golden State Water Company – San Dimas
- Liberty Utilities – Apple Valley
- Liberty Utilities – Park Water

- Monte Vista Water District
- Pico Water District
- Rowland Water District
- San Gabriel County Water District
- San Gabriel Valley Water Company
- Sunny Slope Water Company
- Walnut Valley Water District
- Water Facilities Authority

### **Other Relevant Expertise**

Stetson serves as the Engineer for the Main San Gabriel Basin Watermaster (Main Basin Watermaster) and has knowledge of the groundwater basin hydrogeology, historical production, projected production trends, and existing groundwater management activities of the Main Basin. In addition, Stetson serves as the engineer for the Upper San Gabriel Valley Municipal Water District, which is the municipal water district responsible for delivery of untreated imported water to satisfy the City's supplemental water needs. Collectively, Stetson has significant knowledge of the City's existing facilities, and sources of supplies, which will be instrumental when preparing the 2020 UWMP for the City.

#### **City of El Monte**

Stetson collects water quality samples for the City of El Monte through the Main San Gabriel Basin Watermaster (Main Basin Watermaster). Stetson also assists the City in preparing annual Consumer Confidence Reports.

#### **Main San Gabriel Basin Watermaster**

Stetson serves as Engineer for the Main San Gabriel Basin Watermaster. As Engineer, Stetson has unique knowledge of management of the Main Basin. Stetson has knowledge of production trends from the Main Basin, the management structure of the groundwater basin, and the supplemental (imported) water demands. In addition, Stetson maintains records of the City's water rights, quarterly water production, and water quality from its wells.

#### **Water Supply Assessments**

Stetson has prepared numerous water supply assessments pursuant to California Water Code Division 6, Part 2.10, Sections 10910-10915 (Water Supply Planning to Support Existing and Planned Future Use) and Government Code 66473.7 which analyze water demands, sources of supply, and reliability of the water supplies.

#### **Recycled Water Projects**

Stetson has analyzed recycled water demands, feasibility of the recycled water projects, and project design for multiple recycled water projects. Stetson has analyzed the use of advanced treated recycled water for groundwater replenishment.

#### **Water System Master Plans**

Stetson has prepared numerous water system master plans which analyze water system infrastructure and facility capacities, water quality requirements, water demands, sources of supply, and water system and capital improvement planning.

### 3. PROJECT UNDERSTANDING AND APPROACH

The Urban Water Management Planning Act was established by Assembly Bill 797 in 1983 and has been amended on numerous occasions. In particular, Assembly Bill 11X amended the Urban Water Management Planning Act (UWMP Act) in 1991, by including a requirement for a Water Shortage Contingency Plan. The requirements for UWMPs are found in Sections 10610 through 10656 and Section 10608 of the California Water Code. Section 10631(b) of the California Water Code has been expanded to require additional information on groundwater basin management and reliability of water supply. Sections 10631(h) and 10631(i) were added and require additional information on water supply projects, including the use of desalination. Emphasis on the potential use of recycled water is included in Section 10633. Assembly Bill 1420, which amended Section 10631.5 and added Section 10631.7 in 2007, requires the terms of an eligibility for any water management grant or loan from the California Department of Water Resources (DWR) to be conditioned on the implementation of the water demand management measures described in the UWMP. Pursuant to Assembly Bill 1668 and Senate Bill 606, Sections 10621(c), 10632(a), and 10635(b) were recently added in 2018 and require the preparation and adoption of a Water Shortage Contingency Plan and Drought Risk Assessment as part of an UWMP.

In accordance with the UWMP Act, Sections 10617 and 10621, each urban water supplier providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually, shall prepare, update and adopt its UWMP at least once every five years ending in five and zero.

An UWMP must include the following basic items:

- A description of the service area;
- A description of the existing and planned sources of supply and the reliability of those sources during an average year, a single dry year and multiple dry years;
- A description of existing groundwater management activities;
- A description of opportunities for exchanges or transfers of water;
- A description of historic and projected water use;
- A description of Demand Management Measures;
- A description of all water supply projects and water supply programs that may be undertaken to meet the total projected water use;
- A description of opportunities for development of desalinated water, including ocean water, brackish water, and groundwater, as a long-term supply;
- A discussion of the opportunity to use recycled water; and
- A discussion of the quality of existing sources of water

Water suppliers are required to coordinate the preparation of the 2020 UWMP with other water suppliers and appropriate agencies in the area. All water suppliers are required to notify cities and counties in their service area of the opportunity to submit comments regarding the UWMP during the preparation. The urban water supplier is required to provide notification to cities and counties within which the supplier provides water supplies at least 60 days prior to a Public Hearing. Water suppliers are required to file their UWMPs, or amendments thereof, with the DWR, the California State Library, and any city or county within which the supplier provides water, no later than 30 days after adoption. UWMPs are reviewed by DWR staff to determine compliance with the requirements of the Urban Water Management Planning Act. Results of the DWR review are provided to urban water suppliers through a review letter. A copy of the 2020 UWMP must be made available for public review during normal business hours within 30 days of submitting the UWMP to DWR.

In preparing the 2020 UWMP for the City, Stetson will ensure all changes to the UWMP Act are



incorporated, including California Water Code Sections 10632(a) and 10635(b), pursuant to Assembly Bill 1668 and Senate Bill 606. Stetson will follow DWR's Final 2020 UWMP Guidebook, dated March 2021, to ensure all requirements of the Act are addressed. Stetson will incorporate the following additional information during preparation of the 2020 UWMP:

1. Incorporate DWR's updated standardized tables.
2. Preparation and adoption of a Water Shortage Contingency Plan and analysis, including procedures for the annual Water Supply and Demand Assessment, inclusion of six shortage levels, communication protocols, compliance and enforcement, financial consequences, and monitoring and reporting requirements.
3. Preparation of a 5-Year Drought Risk Assessment (Including procedures for the annual Water Supply and Demand Assessment, inclusion of six shortage levels, communication protocols, compliance and enforcement, financial consequences, and monitoring and reporting requirements).
4. Preparation of a seismic risk assessment and mitigation plan.
5. Preparation of an energy intensity analysis.
6. Inclusion of climate change considerations.
7. Demonstration of reduced reliance on the Delta watershed.
8. Inclusion of 5 previous years of distribution system water losses.
9. Water suppliers are to calculate their actual 2020 water use (fiscal year 2019-20 or calendar year 2020) to determine whether or not they have met their "2020 target water use" and to assess their progress toward meeting their "2025 target water use."

## **SCOPE OF SERVICES**

Mr. Stan Chen will be assigned as the Project Manager and will act as the primary contact. Stetson will provide the following as part of our Scope of Work:

### **Task 1 – Kick-Off Meeting**

Stetson will attend a kick-off meeting (or through video conferencing) with City staff to define the project objectives, review and determine the schedule, and establish the approach and methodology that will be used to achieve the project objectives. Stetson will review background information and relevant data in support of the project. Stetson will provide City staff with a list of requested data necessary to prepare the 2020 UWMP.

### **Task 2 – Information and Data Collection**

Following the kick-off meeting (see Task 1), Stetson will provide the City with a data request list. Items from the data request list will include historical water demands, user class information, Demand Management Measures information, water shortage contingency plan information, pipeline leak and water loss data, and current rate schedule.

### **Task 3 – Data Analysis and Evaluation**

Stetson will review and prepare the service area and water supply characteristics. The City will provide any updates to its service area boundary since 2015. Stetson will incorporate a GIS map of the City's service area in DWR's on-line Population Tool to determine historical population data. Projected population data will be based on information developed by the Southern California Association of Governments. Historical water consumption will be based on information provided by the City.

Stetson will quantify the reliable supply and projected demands under an average year, a single dry year and multiple dry years. Stetson will also provide an overview of the management and reliability of the City's water supplies (including groundwater), as well as review the availability of recycled water, and the potential for use by the City as a water resource.

Stetson will work with City staff to review the contents of the existing “Water Shortage Contingency Plan” to determine compliance with current provisions of the UWMP Act. Stetson will provide revisions to the existing Water Shortage Contingency Plan to be consistent with the recent changes to the California Water Code (i.e. 10632(a) and 10635(b)) pursuant to Assembly Bill 1668 and Senate Bill 606. These changes also include a drought risk assessment which Stetson will prepare based on a continuous 5-year drought.

Stetson will work with the City staff to identify all Demand Management Measures (DMMs) implemented by the City. Stetson will work with City staff to summarize the goals and programs of the DMMs that have been implemented according to the DWR Guidebook. In addition, Stetson will provide a description of DMM programs anticipated to be implemented by the City over the ensuing five years.

#### Task 4 – Water Demand Projection

Stetson will utilize the information from Task 3 to develop water demand projections in five-year increments from 2020 through 2040. Stetson will estimate average gross water use (gallons per capita per day) based on historical water demands. Pursuant to Senate Bill SB X7\_7 and DWR’s 2020 UWMP Guidelines, Stetson will estimate the City’s projected water use targets and demands.

#### Task 5 – Draft Report

Based on the information prepared in Tasks 1 through 4 above, Stetson will prepare a Draft UWMP and provide and the City with an electronic copy (PDF and Word 2016 formats) to City staff. As discussed previously, Stetson will incorporate DWR’s standardized tables during preparation of the 2020 UWMP. The tables will be included in the 2020 UWMP and will be prepared in a format suitable for submittal to DWR. Stetson will also provide an on-line link for stakeholders to download the Draft UWMP (in a PDF format). Stetson will include comments from City staff.

#### Task 6 – Final Plan

Stetson will prepare the adopted Final 2020 UWMP by incorporating comments from the public hearing and adding the adoption resolution. Stetson will obtain the City’s approval of any revisions, prior to submittal of the Final 2020 UWMP to DWR (see Task 7).

#### Task 7 – Submittals

Stetson will assist the City with submittal of the adopted Final 2020 UWMP to DWR, relevant cities and counties, and the California State Library. As applicable, Stetson will complete the 2020 UWMP checklist and submit the 2020 UWMP electronically through DWR’s Water Use Efficiency Data Tool website.

#### Task 8 – Deliverables

*Draft UWMP* – As discussed in Task 5, Stetson will prepare the Draft 2020 UWMP and submit one (1) electronic copy (PDF and Word formats).

*Final UWMP* – Stetson will prepare a Final 2020 UWMP, incorporating comments from the public hearing and including the resolution adopting the Final 2020 UWMP. Stetson will submit five (5) hard copies, one (1) electronic copy in Word format, and one (1) electronic copy in a PDF format. As indicated in Task 7, Stetson will submit the Final 2020 UWMP to DWR, relevant cities and counties, and the California State Library.

Stetson is prepared to attend, present the 2020 UWMP, and respond to any questions regarding the 2020 UWMP at the City’s public Hearing

#### 4. QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

Quality control is of paramount importance on all projects, particularly when they have potentially far-reaching consequences. Quality control involves achievement of quality standards within the parameters of project schedule and budget, without placing undue demands on management and technical personnel. Quality assurance and control are familiar terms in the construction trades, where they refer to standard engineering procedures for accepting or rejecting a work product or activities according to established criteria, specifications, or documentation requirements. In a project, the terms take on a different meaning, but the concepts are consistent. In gathering, reviewing, analyzing, and organizing data, Stetson assures quality by:

- Assigning to project work only those professionals who meet standards for training and experience;
- Having qualified senior engineers review technical performance;
- Having trained, experienced personnel review draft reports;
- Using approved, proven methods for data gathering;
- Organizing data into computerized data bases using state-of-the-art software and trained technicians;
- Fully documenting data base development, models, and all recommendations or conclusions;
- Identifying the level of detail required early in process; and
- Carefully and thoroughly consulting with all relevant parties

Management procedures, proposed communications and meetings, and report preparation procedures all help assure that these elements of quality control are exercised at all levels within project teams that fully-informed oversight may be exercised by the client.

Quality control is not just the responsibility of project principals or project managers, although accountability rests there. Stetson managers are all experienced at supervising and directing complex multi-disciplinary engineering and resource management projects, including projects involving extensive formal Quality Control/Quality Assurance programs.

## 5. REFERENCES

Provided below is a list of references of public agency clients for whom Stetson has completed the 2020 UWMP Update.

1. Upper San Gabriel Valley Municipal Water District  
Mr. Tom Love  
602 Huntington Dr., Suite B  
Monrovia, CA 91016  
(626) 443-2297  
[tom@usgvmwd.org](mailto:tom@usgvmwd.org)
2. Three Valleys Municipal Water District  
Mr. Tim Kellett  
1021 E. Miramar Avenue  
Claremont, CA 91711  
[tkellett@tvmwd.com](mailto:tkellett@tvmwd.com)
3. City of Glendora  
Mr. Chisom Obegolu  
116 E. Foothill Blvd.  
Glendora, CA 91741  
(626) 914-8200  
[cobegolu@cityofglendora.org](mailto:cobegolu@cityofglendora.org)
4. City of Arcadia  
Mr. Tom Tait  
11800 Goldring Road  
Arcadia, CA 91066  
(626) 256-6554  
[ttait@arcadia.ca.us](mailto:ttait@arcadia.ca.us)
5. City of Alhambra  
Mr. Michael Thai  
111 S. First Street  
Alhambra, CA 91801  
(626) 570-5061  
[mthai@cityofalhambra.org](mailto:mthai@cityofalhambra.org)

## 6. PROJECT SCHEDULE

As part of the preliminary project schedule, Stetson has assumed a starting date in October 2021 and that a draft 2020 UWMP will be provided to the City in November 2021. (These dates are provided for planning purposes and will be finalized at the kick-off meeting with the City staff.) The proposed project schedule is based on Stetson's past experience with preparing UWMPs and completing 2020 UMWPs for over 30 other water agencies.

- Notice to Proceed: Early October 2021
- Provide City with Draft 2020 UWMP: Late November 2021
- Receive comments from City staff: Mid-December 2021
- Provide City with Final Draft 2020 UWMP: Early January 2022
- UWMP Public Hearing: January 2022
- Provide City with Final 2020 UWMP: January 2022
- Submit Final 2020 UWMP to DWR: January 2022

***(Note: The Final 2020 UMWP will include a copy of the adopting Resolution.)***

## **7. FEE SCHEDULE**

Per the City's RFP, the fee schedule for each work task is provided in a separate PDF file and has been submitted through PlanetBids. The fee schedule includes hourly rate for each personnel category, and any other additional charges to complete the services of this project. Also included is Stetson's standard fee schedule.

Other costs associated with expenses such as travel to the City's office for meetings (mileage) and document reproduction (draft and final) are included.

# ***APPENDIX A***

## **RESUMES**

**RESUMES**

<p><b>Name &amp; Title:</b>  <b>Steve Johnson, P.E.</b>, Corporate President/CEO and Managing Principal</p>	<p><b>Project Assignment:</b>  Principal Engineer</p>
<p><b>Years of Experience with Firm</b>  41</p>	<p><b>Years of Experience With Other Firms</b>  0</p>
<p><b>Education: Degree(s) / Year / Specialization:</b>  B.S. Civil Engineering / 1977 / California Polytechnic University, Pomona</p>	<p><b>Registrations / Certifications:</b>  Civil Engineer No. 32396, California 1981</p>
<p><b>Experience Record</b></p> <p>Mr. Johnson is Corporate President/CEO and Managing Principal of the Covina office of Stetson Engineers. Mr. Johnson is responsible for all engineering operations performed by the firm’s southern California office, in Covina, California. Mr. Johnson’s extremely broad experience covers the southern California work for well over a quarter century. As a Managing Principal, Mr. Johnson is responsible for all corporate management functions and professional engineering support services. Mr. Johnson has represented Stetson for over 40 years, continuous.</p> <p>Mr. Johnson is a designated expert for purposes of water system and water rights evaluation and appraisal. This includes qualification in U.S. Federal Court as an expert under the Daubert rules of qualification. He has provided expert witness testimony on water system/water rights condemnation actions, groundwater contamination cases, and flood damage evaluations and assessments. Mr. Johnson’s expertise has supported numerous water systems and water rights transactions and settlements. He has also provided expert witness testimony of the impacts and decision-making associated with water supply contamination, before the California Public Utilities Commission, Administration Law Judge.</p> <p>Mr. Johnson is the designated “Project Engineer” for implementing cleanup of the largest groundwater contamination site in the nation, under the U.S. Environmental Protection Agency’s Superfund Program. Under this assignment, Mr. Johnson coordinates with the U.S. EPA, six different water purveyors, the Main San Gabriel Basin Watermaster, the San Gabriel Basin Water Quality Authority, and numerous Responsible Parties and their engineering/legal representatives. This assignment has a current value of \$250 to \$300 million and will produce over 35,000 acre-feet of treated, potable groundwater annually. Mr. Johnson’s responsibilities include all phases of project planning, financing, coordination, regulatory compliance, design, contract solicitation, construction management, operations, and performance monitoring for contamination plume control and cleanup. As a predecessor to this assignment, Mr. Johnson supervised the planning, design, construction, operations, and regulatory approval of the first groundwater treatment facility in the United States to successfully treat for Perchlorate and NDMA for potable consumption. This facility was also the first groundwater treatment facility to be permitted for drinking water supply under the California Department of Health Services Policy 97-005 for impaired water supplies.</p> <p>Mr. Johnson represents several prominent water agencies as “Engineer”. These agencies include the Main San Gabriel Basin Watermaster, the Upper San Gabriel Valley Municipal Water District, the San Gabriel Valley Municipal Water District, and the San Gabriel Basin Water Quality Authority. Typical assignments include safe yield studies, groundwater contamination characterization and remediation, design, construction management, rate assessment, water supply studies, and reports to the board.</p> <p>Since the early 1980s, Mr. Johnson has been heavily involved with engineering solutions to contamination of drinking water supplies. This work involves a wide range of experience and expertise, including site and regional characterization of soil and groundwater contamination, hydrogeologic studies, groundwater basin modeling, development of cleanup and water supply plans, remediation studies, development and full implementation of treatment projects, and coordination with all regulatory agencies. The contaminants of concern include volatile organic compounds (VOCs), Perchlorate, NDMA, 1-4-dioxane, Chromium and others. This work has been performed in full cooperation with the U.S. Environmental Protection Agency, the State Department of Toxic Substance Control, the Department of Health Services, the State Water Resources Control Board, and the Regional Water Quality Control Board.</p>	



**RESUME**

<b>Name &amp; Title:</b> <b>Jeff Helsley, P.E.</b> , Supervising Engineer	<b>Project Assignment:</b> Project Manager
<b>Years of Experience with Firm</b> 20	<b>Years of Experience With Other Firms</b> 17
<b>Education: Degree(s) / Year / Specialization:</b> M.S. Environmental Engineering / 1982 / University of Southern California, Los Angeles (USC) B.S. Civil Engineering / 1981 / California State University, Los Angeles (CSULA)	<b>Registrations / Certifications:</b> Civil Engineer No. 039599, California, 1985
<p><b>Experience Record</b></p> <p>Mr. Helsley joined Stetson Engineers, Inc. in 1999 as project manager for water rights quantification and valuation studies, alternative water supply studies, water resource management studies, water facilities design including site improvements for drainage and access, and groundwater recharge feasibility studies including sand and gravel pits in the San Gabriel Valley.</p> <p>His experience includes employment with the Los Angeles County Department of Public Works in the Hydraulic/Water Conservation Division. As a Supervising Civil Engineer I in the Planning Unit, he was responsible for studies to develop improvements to the County's injection barriers to prevent seawater intrusion, and studies of groundwater recharge optimization.</p> <p>Mr. Helsley was also formerly the District Engineer and Assistant General Manager of the Water Replenishment District of Southern California, where he was responsible for the development and implementation of programs to enhance groundwater recharge, improve groundwater basin management, and protect groundwater quality.</p> <p><b><u>Chino Pipeline and Facilities Improvements Project</u></b></p> <ul style="list-style-type: none"> <li>• Well-site review, permitting and design including a drainage study and retention basin design</li> <li>• Well construction oversight</li> <li>• Pump testing and station design</li> <li>• Nitrate Removal Treatment Plant Design</li> <li>• Design for three separate pipelines</li> <li>• Assistance in pipeline permitting</li> <li>• Preparation of specifications and bid documents</li> </ul> <p><b><u>San Luis Rey Indian Water Rights Dispute, San Diego County</u></b></p> <p><b><u>Antelope Valley Groundwater Recharge and Recovery Study</u></b></p> <p><b><u>San Gabriel Valley Municipal Water District 30" Pipeline Realignment</u></b></p> <p><b><u>City of Pomona Water Pipeline Replacement Design</u></b></p> <p><b><u>Water Supply Assessments</u></b></p> <ul style="list-style-type: none"> <li>• The Shops at Santa Anita, Arcadia, California</li> <li>• Copa de Oro Development, Rosemond, California</li> <li>• Newhall County Water District, Santa Clarita Valley, California</li> <li>• Uptown Specific Plan, Whittier, California</li> <li>• Monrovia Nursery, Azusa/Glendora, California</li> <li>• West Main Street Master Plan, Alhambra, California</li> <li>• Valley Vision Specific Plan, San Gabriel, California</li> </ul>	

**Jeff Helsley, Project Engineer**

*(Continued)*

**City of Monterey Park Perchlorate Treatment System Procurement**

**City of Glendale Wellhead Treatment Feasibility Study and Design**

**Wellhead Treatment Systems – San Marino Service Area, Feasibility and Options Analysis Report**

**Water System Master Plans**

- City of Covina
- Pahrump, Nevada, included the Water System, the Sewage Collection System and Lift Stations
- Fontana Water Company
- San Gabriel Valley Water Company, Los Angeles County Division

**City of San Luis Obispo Groundwater Development Project**

**Review of Recycled Water Use, Forest Hills Memorial Park, Covina Hills**

**Water Supply Feasibility Studies**

- Sierra Bella Development, Lucerne Valley, California
- Sierra Lakes Development, Santa Clarita Valley, California
- Rolling Meadows Development, Tejon Ranch, California
- East Highlands Ranch, Upland, California
- Larsen Ranch, Antelope Valley, California

**East Raymond Basin Water Resources Plan**

**Rancho Cordova Perchlorate Contamination Litigation Support**

**Groundwater Supply Development Cost Study, Laredo, Texas**

**Groundwater Yield Review, Burleson County, Texas**

**Wrightwood Groundwater Study**

**Rincon Groundwater Study**

**Torrez Martinez Water Feasibility Study**

**Spring Creek Booster Station Design**

**Water Rights Appraisal – Hearst Ranch**

**Antelope Valley Water Rights Adjudication**

**LAFCO Municipal Water Service Review, Santa Clarita Valley**

**Review of Proposal Antelope Valley Water Bank**

**Arrow Well Wellhead Treatment Design**

**Los Angeles County Department of Public Works (LACDPW) Alamitos Barrier Project - Seawater Barrier**

- Deficiency/Feasibility Study
- Injection Well Design
- Injection Well Construction

**LACDPW Dominguez Gap Barrier - Seawater Barrier, Deficiency/Feasibility Study**

**RESUME**

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**Jeff Helsley, Project Engineer**

*(Continued)*

**LACDPW West Coast Barrier Project - Seawater Barrier**

- Geophysical Exploration
- Deficiency/Feasibility Study

**Landfill Gas Mitigation Measures**

**County Solid Waste Management Plan**

**Montebello Forebay Groundwater Recharge Study**

**National Pollution Discharge Elimination System (NPDES) Permit Modifications**

**Injection Well Maintenance Study**

## RESUMES

The following projects are a partial list of Mr. Johnson's experience:

### **URBAN WATER MANAGEMENT PLANS**

#### **San Gabriel Valley Municipal Water District**

- Urban Water Management Plans

#### **City of Whittier**

- Urban Water Management Plans

#### **Valley County Water District**

- Urban Water Management Plan

### **WATER SYSTEM MASTER PLANS**

#### **City of Bakersfield**

- Water System Master Plan

#### **City of Industry**

- Master Plan of Development

### **GROUNDWATER RESOURCE STUDIES**

#### **City of Los Angeles, Department of Water and Power**

- Supplemental Water Study

#### **San Jacinto-Hemet**

- Groundwater Management Plan

### **MUNICIPAL ENGINEERING AND FACILITIES DESIGN**

#### **Main San Gabriel Basin Watermaster**

- Supervision of Engineering Duties

#### **Upper San Gabriel Valley Municipal Water District**

- Supervision of District Engineering Duties
- District Mapping

#### **San Gabriel Valley Municipal Water District**

- Continuing Developer Interaction Responsibilities

#### **City of Bakersfield**

- Review of New Development Plans
- Acquisition of New Facilities

#### **Puente Basin Watermaster**

- Supervision of Engineering Duties

#### **Three Valleys Municipal Water District**

- Subagency Report

<b>Name &amp; Title:</b> <b>Stan Chen, P.E.</b> , Civil Engineer	<b>Project Assignment:</b> Project Engineer
<b>Years of Experience with Firm</b> 20	<b>Years of Experience with Other Firms</b> 2
<b>Education: Degree(s) / Year / Specialization:</b> B.S. Environmental Engineering / 1999 / University of California, Berkeley M.S. Civil Engineering / 2000 / University of California, Los Angeles	<b>Registrations / Certifications:</b> E.I.T. No. 107911, State of California, July 9, 1999 P.E. No. 66883, State of California, June 25, 2004
<b>Experience Record</b>  Mr. Chen has experience in water resource engineering including water system master plans, water supply plans, hydrologic studies, water rights and supply evaluation, and water quality studies.  <b><u>San Gabriel Valley Water Company – Fontana Division</u></b> <ul style="list-style-type: none"> <li>- Prepared a Comprehensive Master Plan for San Gabriel Valley Water Company's Fontana Division</li> <li>- Prepared Water Supply Assessment reports for San Gabriel Valley Water Company's Fontana Division regarding different specific plans</li> </ul> <b><u>San Gabriel Basin Water Quality Authority</u></b> <ul style="list-style-type: none"> <li>- Evaluated differences between granular activated carbon specifications and costs between vendors</li> </ul> <b><u>Los Angeles County Local Agency Formation Commission</u></b> <ul style="list-style-type: none"> <li>- Prepared a regional comprehensive water study of Santa Clarita Valley water purveyors</li> </ul> <b><u>Newhall County Water District</u></b> <ul style="list-style-type: none"> <li>- Prepared a Water Supply Assessment of the Santa Clarita Valley</li> </ul> <b><u>Drinking Water Source Assessment and Protection Program</u></b> <ul style="list-style-type: none"> <li>- Conducted groundwater assessments for approximately 200 sources in the Main San Gabriel Basin and Raymond Basin</li> </ul> <b><u>San Luis Rey Indian Water Authority</u></b> <ul style="list-style-type: none"> <li>- Prepared current and projected water supply and demand analysis</li> <li>- Investigated water rights to the San Luis Rey River</li> </ul> <b><u>San Luis Obispo, California</u></b> <ul style="list-style-type: none"> <li>- Conducted water rights evaluation and costs</li> <li>- Evaluated nitrate treatment technologies for contaminated groundwater</li> </ul> <b><u>Copa de Oro, California</u></b> <ul style="list-style-type: none"> <li>- Performed water conservation study for a 1,200 unit development</li> </ul> <b><u>Southern California Water Company</u></b> <ul style="list-style-type: none"> <li>- Performed region wide evaluation of system performance based upon water quality, system capacity, and reliability issues</li> <li>- Conducted groundwater rights/supply cost evaluation due to contamination</li> </ul> <b><u>City of Arcadia, California</u></b> <ul style="list-style-type: none"> <li>- Prepared a Water Supply Assessment for the City of Arcadia</li> </ul> <b><u>City of Alhambra, California</u></b> <ul style="list-style-type: none"> <li>- Prepared a Water Supply Assessment for the City of Alhambra</li> </ul>	

*RESUMES*

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**Stan Chen, Project Engineer**

*(Continued)*

**San Gabriel County Water District, California**

- Prepared a Water Supply Assessment for the San Gabriel County Water District

**Upland, California**

- Performed Best Management Practice cost evaluation regarding stormwater runoff from a freeway into a residential development

**Newport Beach, California.**

- Evaluated hydraulic impacts of stormwater on property.

<b>Name &amp; Title:</b> <b>Sam Lo, P.E.</b> , Senior Engineer	<b>Project Assignment:</b> Project Engineer
<b>Years of Experience with Firm</b> 19	<b>Years of Experience with Other Firms</b> 1
<b>Education: Degree(s) / Year / Specialization:</b> B.S. Environmental Engineering / 2001 / University of California, Irvine	<b>Registrations / Certifications:</b> P.E. No. 47487, State of Washington, October 21, 2010 E.I.T. No. 111909, California, June 2001 Environmental Management, UC Irvine, 2002

### Experience Record

Mr. Lo has experience in water resource engineering including the **permitting and design of new wells**, groundwater treatment facilities and pipelines, project management, CEQA compliance including preparation of Initial Environmental Studies, and preparation of water system master plans, water rights and supply evaluation.

### WELL & WELLHEAD DESIGN

#### California American Water Company – Richardson Well

- Project Engineer for **permitting and design** for a 1,500 gpm municipal production **well**.

#### Tract 349 Mutual Water Company – Well No. 2

- Project Engineer for **permitting and design** for a 900 gpm municipal production **well**.

#### California American Water Company – Lemon Well

- Project Engineer for **permitting and design** for a 225 gpm municipal production **well**.

### TREATMENT PLANT DESIGN

#### Valley County Water District, Baldwin Park, California

- *Valley County Water District's Arrow Lante Treatment Facility Project:* The project includes site, structural, mechanical and electrical engineering for the installation of Calgon Carbon Corporation ISEP and Trojan Technologies UV treatment equipment designed to clean contaminated groundwater to California drinking water standards. Assist in design of treatment systems. Create engineering plans using AutoCAD. Assist with preparation of Specifications and Contract Documents.

#### City of Monterey Park, California

- Design of the Granular Activated Carbon Treatment System at the City of Monterey Park's Delta Plant.

### PROJECT AND CONSTRUCTION MANAGEMENT – TREATMENT PLANTS AND WELLS

#### San Gabriel Valley Water Company, Baldwin Park, California

- Managed and supervised the construction of the Single Pass Ion Exchange system for the treatment of Perchlorate. Perform construction management duties including routine field visits to track and document construction progress, process change order requests, and provide clarifications to contractors on design.

#### Pala Band of Mission Indians, California

- Managed and supervised the construction of six (6) groundwater extraction wells and two (2) groundwater monitoring wells.

**RESUMES**

<b>Name &amp; Title:</b> <b>Jenny Savron, E.I.T.,</b> Senior III	<b>Project Assignment:</b> Project Engineer
<b>Years of Experience with Firm</b> 17	<b>Years of Experience with Other Firms</b>
<b>Education: Degree(s) / Year / Specialization:</b> B.S. Environmental Engineering / 2002 / University of California, Irvine	<b>Registrations / Certifications:</b> E.I.T. No. 116828, State of California, June 2003
<p><b>Experience Record</b></p> <p>Ms. Savron has experience in water resource engineering including urban water management plans, water system master plans, water supply plans, hydrologic studies, water rights and supply evaluation, and water quality studies.</p> <p><b><u>Develop Urban Water Management Plans:</u></b></p> <ul style="list-style-type: none"> <li>• Upper San Gabriel Valley Municipal Water District</li> <li>• City of Bakersfield</li> <li>• City of Whittier</li> <li>• City of San Jacinto</li> <li>• City of South Pasadena</li> <li>• City of Downey</li> </ul> <p><b><u>San Gabriel River Watermaster</u></b></p> <ul style="list-style-type: none"> <li>• Prepare an Annual Report identifying usable surface flow, unusable outflow and subsurface flow across Whittier Narrows</li> </ul> <p><b><u>Main San Gabriel Basin Watermaster</u></b></p> <ul style="list-style-type: none"> <li>• Participate in the development and implementation of the Five-Year Water Quality and Supply Plan.</li> <li>• Prepare the Annual Report, which reviews each year's activities, water rights history and water use.</li> <li>• Develop staff reports reviewing potential impacts on groundwater contamination as a result of drilling new wells.</li> <li>• Prepare the annual Operating Safe Yield report.</li> </ul> <p><b><u>Develop Water System Master Plan and Sewer Master Plan</u></b></p> <ul style="list-style-type: none"> <li>- City of San Jacinto</li> </ul> <p><b><u>Develop Water Supply Assessments</u></b></p> <ul style="list-style-type: none"> <li>- San Gabriel County Water District</li> <li>- City of South Pasadena</li> <li>- City of Monrovia</li> </ul>	



<b>Name &amp; Title:</b> <b>Noah Wasserman, GIS Analysis</b>	<b>Project Assignment:</b> Geographic Information Systems Specialist
<b>Years of Experience with Firm:</b> 12	<b>Years of Experience With Other Firms:</b> 3
<b>Education: Degree(s) / Year / Specialization:</b> M.A. / 2009 / Geography / San Francisco State University B.A. / 2001 / Urban Studies and Planning / University of California, San Diego	<b>Registrations / Certifications:</b> Geographic Information Systems Professional (GISP) / May 2015
<p><b>Experience Record</b></p> <p>Mr. Wasserman has been working with GIS since 2007. At Stetson Engineers, Mr. Wasserman has focused on GIS mapping and spatial analysis. Typical tasks include (but are not limited to) map/figure production and layout, analysis of vector and raster data (including aerial images), data management, online mapping and data applications, etc. He has worked extensively on present/historic irrigation aerial photography interpretation and image georeferencing as they relate to Stetson projects.</p> <p><b>2007 – Present, Stetson Engineers, Inc.</b></p> <p>GIS and spatial analyst technician, support water resources management projects across the American West. Provide technical support and project design to project managers on irrigation, water rights and resource management projects in addition to map/figure layout production, and online mapping and data applications.</p> <p><b>Other work experience</b></p> <p><b>GIS Consultant for Intersect, LLC, San Jose, CA</b></p> <p>Mr. Wasserman provided GIS and cartographic support for international materials sampling project. Typical tasks included preparation and analysis of country scale spatial data as well as map/figure production. Created and edited map layouts from collected data for project reporting and planning purposes.</p> <p><b>Master’s Degree Program at San Francisco State University, CA</b></p> <p>Mr. Wasserman’s course work included several GIS classes specific to resource management as well as instruction in remote sensing and analysis techniques. GIS projects included (but were not limited to) analysis of historic serpentine grasslands within San Francisco’s Presidio, a report and examples on how GIS tools could be utilized to help assess and guide rebuild/redesign efforts in post-hurricane-Katrina New Orleans, and finally analysis of vegetation changes in alpine and subalpine communities of the Sierra Nevada Mountains, which was completed as a Master’s Thesis titled <i>Vegetation Change Trends in Yosemite National Park Over the Last Century (1890-2008)</i>.</p> <p><b>GIS Intern for Telesis Corporation, San Diego, CA</b></p> <p>Worked with ArcView software to organize source data and conducted test mapping for various community projects including San Diego crime mapping and PG&amp;E streetlight maintenance projects.</p> <p><b>Bachelor’s Degree Program at University of California, San Diego, CA</b></p> <p>As part of the UCSD’s Urban Studies and Planning department core curriculum, Mr. Wasserman’s first exposure to GIS was on the ESRI ArcView 3.x suite. Since then, he has had experience working with a number of spatial analysis software packages including ArcGIS (ArcMap 9.x), ArcExplorer, and Erdas Imagine 9.x. As an undergraduate, he interned for the Telesis Corporation and completed a senior research project which utilized GIS tools to analyze regional socio-economics and various educational indicators of local San Diego high schools as they related to achievement gaps and access to higher education. In 2003, Mr. Wasserman helped research, manage data, and produce the joint Conservation International and United Nations Environment Programme publication <i>Tourism and Biodiversity: Mapping Tourism’s Global Footprint</i>. The accompanying ArcExplorer and data CD was designed and developed by Mr. Wasserman.</p>	

## RESUMES

### Sam Lo, Project Engineer

(Continued)

#### La Puente Valley County Water District, California

- Supervised the construction of groundwater extraction well and coordination with United States Environmental Protection Agency and Los Angeles County Department of Public Works on the disposal of well development water.

#### PIPELINE DESIGN

#### San Gabriel Valley Water Company, Baldwin Park, California

- *San Gabriel Valley Water Company's Plant B6 Raw Water Pipeline and Treated Water Pipeline:* Conduct preliminary design research including field verification and utility search. Assist in design of two 24 to 30-inch diameter pipelines totaling approximately 6,000 feet long. Create engineering plans using AutoCAD. Assist with preparation of Specifications and Contract Documents.
- *San Gabriel Valley Water Company's Plant B5 Onsite Treatment Process Pipeline:* Assist in design of pipelines. Create engineering plans using AutoCAD. Assist with preparation of Specifications and Contract Documents.

#### Los Valles Development, Castaic, California

- *Los Valles Development's Recycled Water Pipeline:* Conduct preliminary design research including field verification and utility search. Assist in design of 16-inch diameter, 8,600 foot long pipeline. Create engineering plans using AutoCAD. Assist with preparation of Specifications and Contract Documents.

#### Upper San Gabriel Valley Municipal Water District, El Monte, California

- *Upper San Gabriel Valley Municipal Water District's Recycled Water System Retrofits:* Design of onsite recycled water system pipelines. Create engineering plans using AutoCAD. Assist with preparation of Specifications and Contract Documents.

#### PROJECT AND CONSTRUCTION MANAGEMENT – PIPELINES

#### Upper San Gabriel Valley Municipal Water District, El Monte, California

- *Upper San Gabriel Valley Municipal Water District's Package 3 & 4 Recycled Water Pipelines:* Perform construction management duties including routine field visits to track and document construction progress, process change order requests, and provide clarifications to contractors on design.