

## **ATTACHMENT 8 – QUALITY ASSURANCE**

The City has the procedures and staff in place to facilitate the required quality assurance. More specifically, they are:

- a) Procedure: The City's established Purchasing Manual, including requirements for selecting and contracting professional and consultant services, serving as a guiding document to select the best qualification-based consultant(s) for the proposed study shall be followed. In addition, the City has procedure in place requiring review of work completed prior to making payments.
- b) Personnel Qualification: The proposed study is to be managed under direct supervision of the Public Works Director, Ms. Rosemary Hoerning, who is a licensed civil engineer with more than 25 years of experience. She was the engineer in charge of the Upland Basin expansion projects. Her expertise covers a wide range of projects, with many involving use of grants, including flood retention and groundwater basin recharge improvements, large diameter storm drains, water and reclaimed water pipeline, water storage reservoir, budgeting and grant management. To name a few, they are:
- Upland Basin Project Phase 1 (\$16.5 million) and Phase 2 (\$5 million);
  - Upland Ion-Exchange Water Treatment Plant (\$5 million);
  - Foothill Boulevard Storm Drain (\$1.5 million);
  - Benson Avenue Storm Drain (\$2.5 million); and
  - Belmont Shore Wastewater System Improvement (\$6.5 million).

Two engineers, Mr. Harrison Nguyen and Mr. Saul Martinez, will be assigned to work closely with the consulting firm (to be selected) during the course of the study.

Mr. Nguyen, a licensed civil engineer, with 18 years in environmental engineering and quality compliance, including wastewater and recycled water quality, recently managed the City's solar system project constructed with the Energy Efficiency Conservation Block Grants (\$670,800) awarded by the Department of Energy. Prior to that he managed the City's local recycled water laterals design and worked closely with the City's construction engineers and the regional recycled water supplier to obtain reimbursements (total \$660,000) for part of the City's construction cost. The reimbursements are available from the Bureau of Reclamation through the regional recycled water supplier.

Mr. Martinez has 18 years of experience in civil engineering, especially in evaluations of new developments from the aspect of storm water drainage and hydrology, including storm water drainage system modeling. He is the NPDES <sup>(1)</sup> coordinator for the City, handling issues pertaining to surface discharges and watershed qualities, in the City and at the County level. He is currently managing the reconstruction of the Pomona Valley Protection Association's storm water detention berms, situated north of the City. It's a joint project which the City takes the lead in managing, to capture and recharge storm water runoff from the San Gabriel Mountains. This project is funded by FEMA and CALEMA, for \$566,000.

In addition, Mr. Bob Critchfield, a licensed civil engineer, with 20 years of experience in design of infrastructure utilities and Capital Improvement Project management, is part of the City's team. He has successfully secured many state and local grants. The most recently grants secured by Mr. Critchfield are the State-Local Partnership Program grant (\$1 Million) and the Department of Resources Recycling and Recovery grant (\$58,500).

These two grants are to be used on improvement projects on Foothill Boulevard, known as the historic Route 66. This project includes underground utilities improvement and bridge widening.

Besides the City staff, Wildermuth Environmental, Inc. (WEI), a well-recognized consulting firm specialized in groundwater modeling and management, is the most likely to be used to assist the City. WEI has been studying groundwater issues and developing practical and sound solutions, including groundwater models, for the Chino Basin Watermaster since the San Bernardino Court ordered CBWM to develop its basin management plan.

- c) Standardized Methodology and Analysis: Water samples shall be collected, preserved, and analyzed by independent firms or laboratories certified by the EPA and, if required, the California Department of Public Health, in accordance to established EPA and/or AWWA standards; Other applicable standards are to be in conformance with standards required in the Standard Specifications for Public Works Construction.
- d) Data Review and QA/QC: The City's engineers will review in-progress results and report at each phase to be certain the timeline and objectives are served.
- e) Model Calibration: Groundwater qualities and elevations generated by the model are to be compared to the existing Chino Groundwater Basin model data as well as data available from existing monitoring and production wells.