

June 11, 2014

Ben Wade
Colorado Water Conservation Board
1313 Sherman St. Room 721
Denver CO, 80203

Re: Water Efficiency Grant 50% Progress Report
Purchase Order Number: PO Number OE PDA 14000000075

Dear Mr. Wade,

Enclosed please find the 50% progress report for the City of Louisville's Water Conservation Plan project prepared in accordance with the requirements of our water efficiency grant award. As of this date the project has proceeded slightly beyond 50% completion. This report details the tasks completed through the end of April 2014 which corresponds to the time frame of 50% completion. This progress report also identifies issues that have arisen regarding grant implementation, preliminary findings, and discusses the remaining work required for the successful completion of the Water Conservation Plan that will be forwarded to CWCB for review and approval. The City has contracted with CH2M HILL and WaterDM (Subconsultant to Ch2M HILL) to assist with completion of the plan.

Steps Completed

The project began with a Kickoff Meeting on March 5th, 2014 with key City staff members, CH2M HILL and WaterDM. A goal setting workshop was then held on April 8th, 2014. In general the following tasks have been completed: Task 1 – Profile Existing Water System, Task 2 – Profile of Water Demands and Historical Demand Management, and Task 3 – Water Efficiency Benefits and Goals. Thus far, the City and its contractors have conducted the following key tasks in support of this work:

- Conducted two workshops to identify water demands, water supply infrastructure, current conservation programs, and conservation goals for the City;
- Collection and organization of the Town's monthly water use since 2000 by customer type, including information on non-revenue water, and both potable and non-potable uses;
- Developed the City's future baseline water demand forecast;
- Identified the main goal of applying water conservation measures to keep the water demand forecast below the City's current treatment capacity of 13 MGD;
- Identification of past water conservation efforts.



Issues and Obstacles

The project is behind schedule, but within budget. Even with the schedule delay there are no issues or obstacles that have been identified that would impact project execution and completion.

Preliminary Findings and Accomplishments

The City of Louisville is planned to reach build out (commercial and residential) by the year 2032, although residential build out will occur first. After characterizing the water system and past water demands, the baseline water demand forecast developed projects a peak day demand approaching 13 MGD at build out. This projection includes water demand for a large commercial area that is currently unoccupied. As a result of these future projections, the City's main goal of the conservation plan is to identify projects/programs that would reduce their peak day demand at build out to less than 13 MGD to avoid the need for additional treatment capacity. The City's current treatment capacity is 13 MGD.

Through characterization of water use in the system the City realized some areas in need of improvement including water accounting. The 5-year average of water loss in the system was 15.8%, which may be lowered if more thorough accounting was performed of unbilled authorized uses. One of the City's activities will be to perform an M36 water audit for the system.

The City also identified all current conservation efforts and potential activities using the Guidance Documents Spreadsheet from CWCB. Those activities will be vetted and used to determine the final water forecast. Keeping in line with the primary goal the selected efficiency activities will focus on decreasing peak day demands in summer and improving water loss.

Steps Remaining

As of June 11, 2014, the City will be working to complete the Draft Water Conservation Plan for public comment by July 7, 2014, allowing the 60-day public comment period to commence, such that the plan can be submitted to CWCB in early September. The Draft Water Conservation Plan will be reviewed internally before it is submitted to the City Council and the public for review and comment. We do not anticipate any changes in scope or fee.

Thank you for the generous support to the City in the development of our Water Conservation Plan. Should you have any questions please do not hesitate to contact me at 303-335-4603.

Respectfully,

Joliette Woodson, PE
Project Manager

