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**75% Completion Report  
For Colorado Water Conservation Board  
Water Efficiency Grant for the Little Thompson Water District  
PO OE PDA #2016-151**

**March 2, 2016**

CWCB's guidelines for the Water Efficiency Grants require submission of a 75% completion report to CWCB. In compliance with that requirement, the Little Thompson Water District (LTWD), Water DM and its subcontractor WSO herewith submit the report.

With nearly 300 square miles of service area, LTWD provides water to a population of approximately 20,000 people in and around portions of Berthoud, Evans, Firestone, Greeley, Johnstown, Longmont, Loveland, Milliken and all of the town of Mead.

**2014 Water Audit**

Peter Mayer, P.E. of WaterDM individually and together with Reinhard Sturm of WSO met with LTWD staff on several occasions to learn how the District tracked water supplied, billed and used for operations as well as how the LTWD water treatment and distribution system is interconnected with Central Weld County Water District (CWCWD). Peter Mayer prepared a draft M36 water loss audit using the free water audit software 5.0. Based upon the results of the of the initial water audit, LTWD refined its data collection and Peter Mayer completed an updated M36 water audit and a draft report.

After the draft report was reviewed by LTWD staff, Peter Mayer and Reinhard Strum met with operations and engineering personnel on February 17, 2016 to discuss the recommendations in the draft report. The project team focused on how LTWD could isolate its water use from CWCWD to more accurately calculate its non-revenue water in the next audit, the merits of a joint water loss audit for the two districts and specifics of a meter testing program for both the master meters and service meters. Additionally, the project team discussed the cost of the non-revenue water. Although the M36 water audit evaluates the cost of non-revenue water based upon the production costs, water utilities have to maintain and acquire water supplies in excess of demands for losses. Peter Mayer updated the final draft report to evaluate the water supply cost.

Next steps include incorporating minor changes in draft report and accompanying map of the LTWD and CWCWD treatment and transmission system and submitting the final report to the CWCB by March 18<sup>th</sup>. There will be no changes to the budget.

The LTWD operations staff provided insight based upon 25 or 30 years of institutional memory that was invaluable to develop detailed recommendations that address issues unique to LTWD. Furthermore, having been part of the audit process, they are invested in new procedures needed to improve the LTWD validity scores. The introduction to the water audit process through the local state training classes was key to getting operation staff involved.