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**50% Completion Report
For Colorado Water Conservation Board
Water Efficiency Grant for the Little Thompson Water District
PO OE PDA #2016-151**

December 18, 2015

CWCB's guidelines for Water Efficiency Grants require submission of a 50% completion report to CWCB. In compliance with that requirement, the Little Thompson Water District, WaterDM, and its subcontractor, WSO herewith submit that report.

With the nearly 300 square miles of service area, the LTWD provides water to a population of approximately 20,000 people in and around portions Berthoud, Evans, Firestone, Greeley, Johnstown, Longmont, Loveland, Milliken and all of the Town of Mead. In addition, the LTWD delivers water to rural Boulder, Larimer and Weld residences, business and agricultural and livestock operations.

2014 Water Loss Audit

Peter Mayer, P.E. of WaterDM met with the staff from the Little Thompson Water District (Nancy Koch, Water Resources Manager; Michel Cook, District Engineer, and others) on Tues., Aug. 11 to learn more about their non-revenue water concerns; to establish project goals and timelines; and to begin the data gathering process for the water loss audit. The consulting team gave LTWD personnel a list of data needed to begin analysis, using the AWWA M36 method.

Based on the information provided, Peter Mayer prepared a draft M36 water loss audit using free audit software version 5.0.

Peter Mayer and Reinhard Sturm of WSO met with the entire management team of the Little Thompson Water District on October 20, 2015 to review the audit and tour specific system input meters and sites. Based on that meeting, additional data will be prepared for the audit and another round of review conducted.

LTWD personnel provided Peter Mayer additional data based upon suggestions from the October 20th meeting. Next steps include a preparation of the draft report, a second round of review with LTWD staff and Reinhard Sturm and WSO, finalization of the 2014 water loss audit, and preparation of the final report.

There are no changes to budget anticipated at this time. The 75% report will be completed by January 31st, 2016 and the final report will be submitted to the Colorado Water Conservation Board by February 28th, 2016.

The biggest obstacle to prepare the M36 water audit for Little Thompson Water District was to accurately calculate the District's *Water Supplied* as defined by the AWWA M36 guidelines. The Carter Lake Filter Plant is jointly owned LTWD and another water district. The two districts often use each other's water lines to improve service to their customers and operate a joint transmission water line that extends from Carter Lake to Interstate 25 and Highway 119, south of Longmont. As part of the LTWD's contribution to the grant, Little Thompson developed a map that spatially represents the internal water transfers between the districts and converted existing accounting to calculate LTWD's *Water Supplies* to meet M36 data requirements.