CAVANAUGH
Stewardship Through Innovation

2017 AWWA Water Audit Level 1 Validation – Review Document

Validator Provided

Audit Information:

Utility: Banning PWS ID: CA3310006

System Type: Potable Audit Period: Calendar Year 2017

Utility Representation: Luis Cardenas, Tammi Phillips, Perry Gerdes, Stacy Bouslog

Validation Date: 8/20/2018 Call Time: 11:30 am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 55 Data Validity Band (Level): Band III (51-70)

ILI: 1.90 Real Loss: 48.33 (gal/conn/day) Apparent Loss: 12.55 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 1.7%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Tory Wagoner Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

2017 AWWA Water Audit Level 1 Validation

Water System Name: **Water System ID Number:** **Water Audit Period:**

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

The steps taken by the City of Banning to increase data validity consisted of an increase in testing, repairs and record keeping. In 2017, production meter accuracy testing was performed on a majority of the City's Production meters. The additional testing provided greater insight to potential deficiencies in the system. Additionally, unauthorized consumption data was captured in 2017, which when corrected will reduce apparent losses. While testing and adjusting the quantity of water produced reduced apparent losses, leak detection and repair attributed to a reduction in real losses.

There were approximately 30 main leaks, 157 service leaks and 194 meter leaks detected and repaired. In addition, the City replaced approximately 7,300 feet of large diameter transmission main which was prone to leaking. Real losses were down from the previous year as a result of these efforts.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Art Vela	Public Works Director		9/12/18
Executive Name (Print)	Executive Position	Signature	Date

Utility Provided