CAVANAUGH
Stewardship Through Innovation

2017 AWWA Water Audit Level 1 Validation – Review Document

Validator Provided

Audit Information:

Utility: California-American Water Company San Diego District PWS ID: 37100071

System Type: Potable Audit Period: Calendar 2017

Utility Representation: Jay Burnett (Business Performance Manager), Robert (Field Operations Manager), Chris Mattis (Operations Manager), Margaret Hunter

Validation Date: 7/30/2018 Call Time: 8:30am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 73 Data Validity Band (Level): Band IV (71-90)

ILI: 2.13 Real Loss: 29.66 (gal/conn/day) Apparent Loss: 5.96 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 7.5

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: Drew Blackwell / Larry Lewison (support) Validator Qualifications: Contractor for California Water Loss TAP

2017 AWWA Water Audit Level 1 Validation

Water System Name: San Diego County District **Water System ID Number**:**37100071** **Water Audit Period**: **CY2017**

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:

All production meters are tested annually. All service meters 6 inch and larger are tested annually. In addition, 4 inch meters are tested every two years, 3 inch meters are tested every 3 years and 2 inch and 1.5 inch meters are tested every 4 years. Production meters are read weekly. The San Diego County District is currently replacing all its direct read meters with AMR/AMI meters. In 2017 the District installed a stream control monitoring system on its Beyer Blvd. Pressure Zone. The system is designed to optimize water pressure, significantly reduce leaks and prevent main breaks while maintaining required service levels.

Utility Provided

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.

Christopher Mattis	Director of Operations	Christopher J Mattis	8-7-18
Executive Name (Print)	Executive Position	Signature	Date