American Water Works Association
California-Nevada Section

CA-NV AWWA Water Loss Technical Assistance Program

Wave 4 Water Audit Level 1 Validation Document

Validator Provided

Audit Information:

Utility: San Clemente PWS ID: 3010036

System Type: Potable Audit Period: Fiscal Year 2016/17

Utility Representation: Niki Wilson, Ambrocia Dominas, Kevin Lussier

Validation Date: 8/30/2017 Call Time: 9:00 am 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: 3.49 Real Loss: 52.88 (gal/conn/day) Apparent Loss: 3.25 (gal/conn/day)

Non-Revenue Water as a Percentage of Operating Costs: 5.6%

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

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Water System Name: City of San Clemente **Water System ID Number:** 3010036 **Water Audit Period:** Fiscal Year 2016/17

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:

Began stratified, random small meter testing program with a limited sample (n=100) to increase data validity. Continued quarterly leak detection program to reduce real losses.

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.

DAVID REBENSDORF	UTILITIES DIRECTOR		9/26/17
Executive Name (Print)	Executive Position	Signature	Date

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