Validator Provided

Certified Validation Report Template, Part A: **Provided by Validator**

Audit Information:

Water System Name: City of Redlands

Public Water System Identification (PWSID)[1]: CA 3610037

[1]List only 1 PWSID, which should match the PWSID on the FWAS Instructions Tab. For Special cases where multiple water systems are connected with permanent two-way interties, list those additional PWSIDs in the **Notes** below and describe the water distribution system(s) configuration.

PWSID and Water System Configuration Notes (Provided to Validator by Water System): This water system operates under one PWSID number.

Audit Period: 2020 Calendar Year

Validation Date: September 27, 2021

Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: **79** Data Validity Band (Level): **Band IV (71-90)**

ILI: **2.77** Real Loss: **59.20 (gal/conn/day)** Apparent Loss: **67.86 (gal/conn/day)**

Non-revenue water as percent of cost of operating system: **7.6 %**

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. ☒

If not, rejected recommendations are included here:

Validator Information:

Water Audit Validator: Steve Dennis Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

Utility Provided

M.E. SIMPSON Co., Inc.

Certified Validation Report Template, Part B: **Provided by Utility**

Water System Name: City of Redlands

Public Water System Identification (PWSID)[2]: CA 3610037

[2]List only 1 PWSID, which should match the PWSID on the FWAS Instructions Tab. For Special cases where multiple water systems are connected with permanent two-way interties, those additional PWSIDs should have been listed in the Notes section on Page 1 by the Validator.

Water Audit & Water Loss Improvement Steps:

1. Steps Taken: **The City of Redlands is fully committed to utilizing all relative data obtained through our annual water audits to pursue actions intended to reduce system-wide water losses and improve overall water efficiency.** While the 2020 calendar year presented many operational challenges due to the Covid-19 pandemic, we were able to initiate several programs and practices aimed at reducing apparent and real water losses as identified in past year audits. Specifically, we began an aggressive meter testing program in 2020. In addition to testing all of our water source supply meters, we were able to test more than 5% of our customer account meters, which were randomly selected to give us a representative account of the accuracy of the City's customer meters. As a result of these test the City changed out over 1,000 water meters with over 20% planned to be changed out in 2021. Furthermore, the results of this testing has served to reinforce our decision to begin a CIP project to initiate a comprehensive AMI meter conversion project. The AMI conversion project has now begun and we anticipate it to be completed within the next five years. We are also expediting the development of our new Water System Master Plan and expect it to be completed in 2021. This project will provide us with accurate and current system pressure data.

2. Planned Steps (OPTIONAL): If your audit reflects *negative real losses or the cost of non-revenue water is greater than 100% of the operating costs (issues for which your audit will not meet code requirements), you will be asked what steps you are planning in the coming year to address these issues. If you already know what steps you plan to take, you may list them here. If not, please prepare a response within 90 days (23 CCR Section 638.6[a]).*

3. 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 Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)	Executive Position	Signature	Date
Mr. Kevin Watson	**Utilities Operations Manager**	Kevin S. Watson	9/28/2021