CAVANAUGH
Stewardship Through Innovation

2018 AWWA Water Audit Level 1 Validation – Review Document

Validator Provided

Audit Information:

Utility: Carmichael Water District PWS ID: CA3410004

System Type: Potable Audit Period: Calendar 2019

Utility Representation: Chris Nelson (Public Information Officer)

Validation Date: 9/2/2020 Call Time: 8:30am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 74 Data Validity Band (Level): Band IV (71-90)

ILI: 2.17 Real Loss: 31.54 (gal/conn/day) Apparent Loss: 14.93 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 1.5%

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 Validator Qualifications: Certified Water Audit Validator (CA)

2019 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:

- Performed annual leak detection
- Completed annual supply meter testing and calibration / conducted residential meter accuracy testing

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.

Cathy Lee	General Manager	Cathy Lee	9/28/2020
Executive Name (Print)	Executive Position	Signature	Date