Level 1 Validation Certificate

WSO

This document verifies that the Level 1 Validation process was completed. The session details and audit review outcomes are included here.

This certificate is required for submission – alongside the Level 1 validated water audit software file – to the California Department of Water Resources.

Call Date: 9/21/2018

Water Supplier

Supplier Name:	City of Fresno
Supplier Participants:	Dejan Pavic, Chad Colby, Ron Simons, Bob Little, Henry McLaughlin, Charles Masters, Christina Fontes

Validator

Validator:	Kate Gasner, Water Systems Optimization
Validator Qualifications:	Water Audit Validator Certificate from the AWWA California Nevada Section

Key Audit Metrics

Data Validity Score:	66	
ILI:	4.8	
Real Loss:	52.1	gal / conn / day
Apparent Loss:	10.3	gal / conn / day
Non-Revenue Water as Percent of Cost of Operating System:	3.5%	

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. ☒

Level 1 Validation – Water Supplier Confirmation

This document confirms participation in and endorsement of the Level 1 Validation as completed.

This acknowledgement is required for submission – alongside your Level 1 validated water audit software file – to the California Department of Water Resources.

Water Supplier Name: Fresno

Water Supplier Public Water System ID: CA 1010007

Water Audit Period: 2017

Water Audit & Water Loss Improvement Steps

Steps taken in the audit period timeframe to increase data source accuracy, reduce real losses, and/or reduce apparent losses, as informed by the water audit.

- **Actively participated in Waves 1 through 4 of the 2017 Technical Assistance Program**
- **Active implementation of the Meter Testing Plan**
- **Further streamlined verification of data collection and audit**
- **Continued with water mains leak detection**

Certification Statement by Water Supplier 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.

Executive Name (print): Dejan Pavic

Executive Position: Supervising Professional Engineer

Signature:

Date	September 28, 2018