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: 9/16/2019

Water Supplier

Supplier Name:	Sweetwater Authority
Supplier Participants:	Sue Mosburg, Clay Clifton

Validator

Validator:	Colin Stief Water Systems Optimization
Validator Qualifications:	Water Audit Validator Certificate from the AWWA California Nevada Section

Key Audit Metrics

Data Validity Score:	75	
ILI:	-0.20	
Real Loss:	-3.43	gal / conn / day
Apparent Loss:	7.88	gal / conn / day
Non-Revenue Water as Percent of Cost of Operating System:	1.2%	

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:	Sweetwater Authority
Water Supplier Public Water System ID:	371005
Water Audit Period:	2019 reporting year 7/2018-6/2019

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.

Volumetric water loss data anomalies were first noted at the beginning of calendar year 2018, when reported water consumption for the previous month exceeded water production for the second consecutive month. Source of supply and water treatment plant production operational changes implemented in mid-to-late 2017 were identified as potential causes of under-registration for production volumes from own sources. The Authority contracted for technical assistance, and ultimately conducted several water production meter tests in fiscal year 2018-19. The Authority is currently evaluating options to address the issue. During low flow periods it was determined that the venturi meter at the Perdue Treatment Plant may not be able to accurately measure low flow volumes. During these periods, multiple treatment process meters are instead used to determine production volume.

Staff participated in water loss control training seminars and conferences to gain a deeper understanding of water loss control best practices. Staff also researched new technologies to recover non-revenue water used during distribution system flushing activities. The No-Des water main flushing method will be initiated in Summer/Fall 2019.

In calendar year 2019, a preliminary feasibility assessment was conducted to uncover opportunities to reduce apparent losses through water meter replacement, and system optimization. The results of the study are anticipated in fiscal year 2019-20.

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):	Jennifer Sabine
Executive Position:	Assistant General Manager
Signature:	Jennifer Sabine
Date	October 1, 2019