DocuSign Envelope ID: 020B5C25-E3E9-495E-826D-AF2F57CAF055

Level 1 Validation Certificate

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: 8/26/2020

Water Supplier

Supplier Name:	City of Palo Alto
Supplier Participants:	Robert Diamond

Validator

Validator:	Kim Manago Water Systems Optimization
Validator Qualifications:	Water Audit Validator Certificate from the AWWA California Nevada Section

Key Audit Metrics

Data Validity Score:	65	
ILI:	0.31	
Real Loss:	4.59	gal / conn / day
Apparent Loss:	5.88	gal / conn / day
Non-Revenue Water as Percent of Cost of Operating System:	1.9%	

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. ☒

DocuSign Envelope ID: 020B5C25-E3E9-495E-826D-AF2F57CAF055

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:	City of Palo Alto
Water Supplier Public Water System ID:	CA 4310009
Water Audit Period:	2019 Calendar Year

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.

We maintain our water system by repairing identified water leaks, planning and replacing problematic pipe, and planning, monitoring, and improving our metering system. Our ongoing CIP program replaces about 1% to 2% of the waterlines per year. Evaluation and preparation for a future AMI system is part of improving our metering system. Increased testing of small water meters is helping to inform our meter replacement strategy. Additionally, Master Meter and Supply Error Adjustments were calculated based on calibration data from SFPUC.

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):	Dean Batchelor
Executive Position:	Utilities Chief Operating Officer
Signature:	DocuSigned by: Dean Batchelor 7C0097F94DAF492...
Date	Click or tap here to enter text. 9/16/2020