Water Audit Level 1Validation- Validator Review & Certification Statement

Validator Provided

Water System(s) This Audit Covers:

Public Water System Identification (PWSID)[1]: CA 5010017 **Water System Name** City of Patterson

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

Notes (Provided to Validator by Water System):

Audit Period:

Validation Date: 11/30/2021

Water System Representatives: Maria Encinas & Mike Heard

Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 61 **Data Validity Band (Level):** III (51-70)

ILI 2.40

Real Loss: 74.386 MG

Apparent Loss: 29.136 MG

Non-revenue water as percent of cost of operating system: 2.7

Cerification 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: Chris Hewes

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

Water Audit Level 1Validation- Water System Certification Statement

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Notes:

Water Audit & Water Loss Improvement Steps:

1. Steps Taken: *Water System to identify steps taken* ***in the preceding 3 years*** *to increase data validity, reduce real loss, and reduce apparent loss as informed by the annual validated water audit:*

1. The city will continue to conduct electronic well meter calibrations for each well source on a yearly basis. In 2022, the city will also be conducting volumetric testing at each well source. Testing at each site will help confirm the accuracy of the city's well production meters.
2. The Small Meter Sampling Program will begin in CY 2022. All large meters will be sampled separately by an independent contractor. All testing and sampling will be done on a yearly basis. The planned replacement of new meters and technology may impact this program for the next two years.
3. Finish installation of the SCADA historian driver to automatically record production readings.

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]).*

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
Michael Willett	Director Public Works	Michael Willett	11/30/2021