Level 1 Validation Certificate

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

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

Audit Information:

Water Supplier Name: City of Tustin PWS ID: 3010046

System Type: Potable Audit Period: 01/2019-12/2019

Utility Representation: Michael Grisso

Validation Date: 5/17/2021 Call Time: 2PM Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 58 Data Validity Band (Level): Level III

ILI: 1.43 Real Loss: 15.38 gal/conn/day Apparent Loss: 11.97 gal/conn/day

Non-revenue water as percent of cost of operating system: 1.8

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

Municipal Water District of Orange County

Level 1 Validation – Water Supplier Confirmation

Water Supplier Name: City of Tustin **Water Supplier ID Number:** 3010046 **Water Audit Period:** CY 2019

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:

In efforts to improve data validity the water audits for CY's 2017, 2018, and 2019 were reviewed for consistency and accuracy based on current knowledge and best practices. Data reporting errors were discovered in CY's 2018 and 2019 in relation to brine water that is metered and removed at the City's 17th St. Groundwater Desalting plant. Inadvertently, metered brine water was being counted as water loss instead of deduct from the total production and counted as metered process water.

Additionally, in 2019 the City of Tustin performed a water distribution leak detection survey on approximately 50 percent of our water service area.

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 Grisso	Water Services Manager		07/01/2021