



# AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0  
American Water Works Association  
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**Water Audit Report for:** Lake Arrowhead Community Services District (CA3610005)  
**Reporting Year:** 2020 7/2019 - 6/2020

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

**All volumes to be entered as: ACRE-FEET PER YEAR**

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

**WATER SUPPLIED**

Volume from own sources:    acre-ft/yr  
 Water imported:    acre-ft/yr  
 Water exported:    acre-ft/yr

**Master Meter and Supply Error Adjustments**

	<b>Pcnt:</b>	<b>Value:</b>			
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value="3"/>	<input style="width: 30px;" type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value="3"/>	<input style="width: 30px;" type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value=""/>	<input style="width: 30px;" type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr

**WATER SUPPLIED:** 1,360.770 acre-ft/yr

Enter negative % or value for under-registration  
Enter positive % or value for over-registration

**AUTHORIZED CONSUMPTION**

Billed metered:    acre-ft/yr  
 Billed unmetered:    acre-ft/yr  
 Unbilled metered:    acre-ft/yr  
 Unbilled unmetered:    acre-ft/yr

Click here:  for help using option buttons below

	<b>Pcnt:</b>	<b>Value:</b>			
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value=""/>	<input style="width: 30px;" type="text" value="3.402"/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr

**AUTHORIZED CONSUMPTION:** 1,180.843 acre-ft/yr

Use buttons to select percentage of water supplied OR value

**WATER LOSSES (Water Supplied - Authorized Consumption)** 179.927 acre-ft/yr

**Apparent Losses**

Unauthorized consumption:    acre-ft/yr  
**Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed**

Customer metering inaccuracies:    acre-ft/yr  
 Systematic data handling errors:    acre-ft/yr

**Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed**

**Apparent Losses:** 12.243 acre-ft/yr

	<b>Pcnt:</b>	<b>Value:</b>			
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value="0.25%"/>	<input style="width: 30px;" type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value="0.50%"/>	<input style="width: 30px;" type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr
<input type="button" value="+"/> <input type="button" value="7"/>	<input style="width: 30px;" type="text" value="0.25%"/>	<input style="width: 30px;" type="text" value=""/>	<input type="radio"/>	<input type="radio"/>	acre-ft/yr

**Real Losses (Current Annual Real Losses or CARL)**

**Real Losses = Water Losses - Apparent Losses:** 167.684 acre-ft/yr

**WATER LOSSES:** 179.927 acre-ft/yr

**NON-REVENUE WATER**

**NON-REVENUE WATER:** 191.190 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

**SYSTEM DATA**

Length of mains:    miles  
 Number of active AND inactive service connections:     
 Service connection density:    conn./mile main

Are customer meters typically located at the curbside or property line?

(length of service line, beyond the property boundary, that is the responsibility of the utility)

**Average length of customer service line has been set to zero and a data grading score of 10 has been applied**

Average operating pressure:    psi

**COST DATA**

Total annual cost of operating water system:    \$/Year  
 Customer retail unit cost (applied to Apparent Losses):    \$/100 cubic feet (ccf)  
 Variable production cost (applied to Real Losses):    \$/acre-ft  Use Customer Retail Unit Cost to value real losses

**WATER AUDIT DATA VALIDITY SCORE:**

\*\*\* YOUR SCORE IS: 71 out of 100 \*\*\*

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

**PRIORITY AREAS FOR ATTENTION:**

Based on the information provided, audit accuracy can be improved by addressing the following components:

- 1: Volume from own sources
- 2: Customer metering inaccuracies
- 3: Variable production cost (applied to Real Losses)