CITY OF LAFOLLETTE BOARD OF PUBLIC UTILITIES – WATER DEPARTMENT

AWWA WATER AUDIT REPORTING WORKSHEET

AV	AWWA Free Water Audit Software: Reporting Worksheet						WAS v5.0 American Water Works Association Copyright © 2014 All Rights Reserved		
Click to access definition Water Audit Report for: LaFollette Utilities Board (0000374) Click to add a comment Reporting Year: 2019 7/2018 - 6/2019									
Please enter data in the white cells below. Where available, metered values sh the input data by grading each component (n/a or 1-10) using the drop-down list								in the accuracy of	ſ
			ed as: MILLION GAL						
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. Master Meter and Supply Error Adjustments									
WATER SUPPLIED			Enter grading	in column 'E' ar		Pcnt:		Value:	
Volume from own sources:	DEVENT SHAPPING	9	738.591		+ 7 7	1.00%	OO		MG/Yr MG/Yr
Water imported: Water exported:	PARTICULAR PROPERTY.	10		MG/Yr MG/Yr	+ 2		<u> </u>		MG/Yr
WATER SUPPLIED:		[731.278	MG/Yr				e for under-registration	
AUTHORIZED CONSUMPTION							Clic	ck here:	_
Billed metered:	COLUMN DESCRIPTION	10	414.238				for	help using option tons below	
Billed unmetered: Unbilled metered:	ASSESSED BASESSESSES	9	0.000 101.539	MG/Yr		Pont	Dut	Value:	
Unbilled unmetered:		-		MG/Yr		1.25%	O	value.	MG/Yr
Default option selected for Unbilled unm	etered - a	gra			ed		À		
AUTHORIZED CONSUMPTION:	7		524.918					e buttons to select rcentage of water supplied OR	
WATER LOSSES (Water Supplied - Authorized Consumption)		I	206.360	MG/Yr			-	value	
Apparent Losses						Pcnt:		Value:	
Unauthorized consumption:	+ 7		1.828	MG/Yr		0.25%	O		MG/Yr
Default option selected for unauthorized consi	-		rading of 5 is applied	d but not displa	ryed			1	
Customer metering inaccuracies:	THE PARTY NAMED IN	9		MG/Yr		0.25%	⊙ ○⊙ ○		MG/Yr MG/Yr
Systematic data handling errors: Default option selected for Systematic data		Per		MG/Yr	not displayed	0.25%			IVIO/11
Apparent Losses:	2		AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	MG/Yr	,				
Real Losses (Current Annual Real Losses or CARL)									
Real Losses = Water Losses - Apparent Losses:	2	-	203.496						
WATER LOSSES:			206.360	MG/Yr					_
NON-REVENUE WATER NON-REVENUE WATER: = Water Losses + Unbilled Metered + Unbilled Unmetered	?	[317.040	MG/Yr					
SYSTEM DATA	3 (4)		<u> </u>			1151			_
Length of mains:	+ 2	9	320.0	miles					
Number of active AND inactive service connections:	CHESTON STREET,	9	10,766						
Service connection density:	2		34	conn./mile main					
Are customer meters typically located at the curbstop or property line? Average length of customer service line:	+ 7	[Yes	(length of service line, <u>beyond</u> the property boundary, that is the responsibility of the utility)					
Average length of customer service line has been se	-			Company of the Compan	en applied				
Average operating pressure:	• ?	9	125.0	psi					
COST DATA								Thees	S.O.
Total annual cost of operating water system:	+ 7	10	\$4,474,024	\$/Year					
Customer retail unit cost (applied to Apparent Losses):		10		\$/1000 gallons					
Variable production cost (applied to Real Losses):	+ ?	10	\$589.54	\$/Million gallons	Use Customer	Retail Unit C	ost to value	real losses	
WATER AUDIT DATA VALIDITY SCORE:									
***	YOUR S	COF	RE IS: 89 out of 100 *	**					
A weighted scale for the components of consum	ption and v	water	loss is included in the ca	lculation of the Wat	ter Audit Data Validity	Score			
PRIORITY AREAS FOR ATTENTION:									
Based on the information provided, audit accuracy can be improved by addressing	the followin	ig coi	mponents:						
1: Volume from own sources									
2: Unauthorized consumption									
3: Systematic data handling errors									

CITY OF LAFOLLETTE

BOARD OF PUBLIC UTILITIES - WATER DEPARTMENT

AWWA WATER AUDIT REPORTING WORKSHEET (Continued)

	AWWA Free Water Audit Software: System Attributes and Performance Indicators	WAS v5.0 American Water Works Association, Copyright © 2014, All Rights Reserved					
	Water Audit Report for: LaFollette Utilities Board (0000374) Reporting Year: 2019 7/2018 - 6/2019						
	*** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 89 out of 100 ***						
System Attributes:	Apparent Losses: 2.864	I MG/Yr					
	+ Real Losses: 203.496	MG/Yr					
	= Water Losses: 206.360) MG/Yr					
	Unavoidable Annual Real Losses (UARL): 152.6	7 MG/Yr					
	Annual cost of Apparent Losses: \$37,34	4					
	Annual cost of Real Losses: \$119,96						
		Return to Reporting Worksheet to change this assumption					
Performance Indicators:							
Financial:	Non-revenue water as percent by volume of Water Supplied: 43.4	/6					
rinanciai.	Non-revenue water as percent by cost of operating system: 5.00	Real Losses valued at Variable Production Cost					
	Apparent Losses per service connection per day: 0.7	3 gallons/connection/day					
Operational Efficiency:	Real Losses per service connection per day: 51.7	9 gallons/connection/day					
	Real Losses per length of main per day*: N/	A .					
	Real Losses per service connection per day per psi pressure: 0.4	1 gallons/connection/day/psi					
	From Above, Real Losses = Current Annual Real Losses (CARL): 203.5	million gallons/year					
,	Infrastructure Leakage Index (ILI) [CARL/UARL]: 1.3	3					
* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline							