

TEXAS WATER DEVELOPMENT BOARD

P.O. BOX 13231, CAPITOL STATION

AUSTIN, TX 78711-3231

2025 WATER AUDIT REPORT

General Information

A. Water Utility General Information

1. Water Utility Name: CITY OF LA VERNIA

1a. Regional Water Planning Area: L

- Having more than 3,300 connections
Having received financial assistance from TWDB
Every five years

1b. Address: PO BOX 225
LA VERNIA, TX 78121-0225

2. Contact Information

2a. Auditor Name: Joshua Delazerda
2b. Telephone Number: (210) 445-8492
2c. Email Address: Jdelazerda@lavernia-tx.gov

Have you completed Water Loss Auditor Training?
Yes
No

3. Reporting Period:

3a. Start Date: 01/01/2025
3b. End Date: 12/31/2025

4. Source Water Utilization:

4a. Surface Water: 0.00 %
4b. Ground Water: 100.00 %

5. Retail Population Served:

1,483

6. Length of Mains LM:

30.00 miles

7. Total Retail Metered Connections - Active and Inactive:

817

8. Service Connections SC:

1,000

9. Service Connection Density:

33.33 connections per mile

10. Average Operating Pressure AOP:

85.00 psi

11. Volume Units of Measure:

Gallons

Input and Consumption

B. System Input Volume

12. Volume of Water Intake: 148,664,600 gallons
13. Volume Treated VT: 148,664,600 gallons
13a. Volume Treated Meter Accuracy VTMA: 102.00 %
13b. Corrected Volume Treated: 145,749,608 gallons

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14. Treated Purchased TP:	<u>0</u>	gallons
14a. Treated Purchased Meter Accuracy TPMA:	<u>0.00</u>	%
14b. Corrected Treated Purchased:	<u>0</u>	gallons
15. Treated Sales (Wholesale) TS:	<u>0</u>	gallons
15a. Treated Sales Meter Accuracy TSMA:	<u>0.00</u>	%
15b. Corrected Treated Sales:	<u>0</u>	gallons
15c. Percent of Treated Sales Transported through the Treated Distribution System:	<u>0</u>	%
16. Total System Input Volume: Line 13b + Line 14b - Line 15b	<u>145,749,608</u>	gallons

**C. Authorized Consumption**

17. Billed Metered BMAC:	<u>109,941,000</u>	gallons
18. Billed Unmetered BUAC:	<u>0</u>	gallons
19. Unbilled Metered UMAC:	<u>5,000,000</u>	gallons
20. Unbilled Unmetered UUAC:	<u>274,853</u>	gallons
21. Total Authorized Consumption:	<u>115,215,853</u>	gallons

**D. Water Loss**

22. Water Loss: Line 16 - Line 21	<u>30,533,755</u>	gallons
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**E. Apparent Loss**

23. Customer Meter Accuracy CMA:	<u>95.00</u>	%
24. Customer Meter Accuracy Loss:	<u>5,786,368</u>	gallons
25. Systematic Data Handling Errors SDHE:	<u>274,853</u>	gallons
26. Unauthorized Consumption UC:	<u>274,853</u>	gallons
27. Total Apparent Loss:	<u>6,336,074</u>	gallons

**F. Real Loss**

28. Reported Breaks and Leaks:	<u>5,000,000</u>	gallons
29. Unreported Loss:	<u>19,197,681</u>	gallons
30. Total Real Loss: Line 28 + Line 29	<u>24,197,681</u>	gallons
31. Total Water Loss: Line 27 + Line 30	<u>30,533,755</u>	gallons
32. Non-Revenue Water: Line 31 + Line 19 + Line 20	<u>35,808,608</u>	gallons

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**Water Loss KPIs**

**G. Technical Performance Indicator for Apparent Loss**

33. Apparent Loss per Connection per Day: 17.36 gallons  
Line 27 / Line 8 / 365

**H. Technical Performance Indicators for Real Loss**

34. Total Real Loss: 24,197,681 gallons  
Line 30

35. Unavoidable Annual Real Loss (UARL): 0 gallons  
 $(5.41 * \text{Line 6} + (\text{Line 8} * 0.15)) * 365 * \text{Line 10}$

36. Infrastructure Leakage Index (ILI): 0.00 gallons  
Line 34 / Line 35

37. Real Loss per Connection per Day: 66.30 gallons  
Line 34 / Line 8 / 365

38. Real Loss per Mile per Day: 0.00 gallons  
Line 34 / Line 6 / 365

**I. Technical Performance Indicator for Water Loss**

39. Total Water Loss per Connection per Day: 83.65 gallons  
Line 22 / Line 8 / 365

**J. Financial Performance Indicators**

40. Total Apparent Loss: 6,336,074 gallons  
Line 27

41. Retail Price of Water RPW: 0.00548 \$ per gallon

42. Cost of Apparent Loss: \$34,722  
Line 40 x Line 41

43. Total Real Loss: 24,197,681 gallons  
Line 30

44. Variable Production Cost VPC: 0.001550 \$ per gallon

45. Cost of Real Loss: \$37,506  
Line 43 x Line 44

46. Total Cost of Water Loss: \$72,228  
Line 42 + Line 45

**K. Gallons per Capita per Day (GPCD) for Water Conservation Planning**

47. GPCD Input: 269  
Line 16 / Line 5 / 365

48. GPCD Loss: 56

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Line 31 / Line 5 / 365

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**Assessment Report**

Length of Mains LM =	8
Service Connections SC =	5
Average Operating Pressure AOP =	6
Volume Treated VT =	5
Volume Treated Meter Accuracy VTMA =	4
Treated Purchased TP =	0
Treated Purchased Meter Accuracy TPMA =	0
Treated Sales TS =	0
Treated Sales Meter Accuracy TSMA =	0
Billed Metered Authorized Consumption BMAC =	8
Billed Unmetered Authorized Consumption BUAC =	0
Unbilled Metered Authorized Consumption UMAC =	4
Unbilled Unmetered Authorized Consumption UUAC =	3
Customer Meter Accuracy CMA =	7
Systematic Data Handling Errors SDHE =	3
Unauthorized Consumption UC =	3
Retail Price of Water RPW =	7
Variable Production Cost VPC =	3

**Final Assessment Score =**

57

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**PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY**

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

Volume Treated VT

Variable Production Cost VPC

Billed Metered Authorized Consumption BMAC