



Preliminary Audit Results

City of Leon Valley 3/18/2025



About Performance Services



- ✓ Established in 1998
- Guaranteed Energy Savings Contracts and Design-Build Public Sector Projects
- ✓ Vendor Neutral
- √ 700+ projects (\$2.5B+) completed
- √ 140+ Energy Star® certified buildings
- √ 56% Customers have done repeat business
- √ 305+ Employees Professional Engineers and Construction Professionals







Performance Water Balance and Savings/Add'l Revenue

•	Total Produced	336,880,000	100.0%
•	Total Billed	288,565,000	85.7%
•	Recoverable + Unrecoverable Losses	48,315,000	14.3%
•	Estimated Recoverable (5-7%)	23,582,000	7.0%
•	Estimated Unrecoverable (6-9%)	24,733,000	7.3%
•	Water Meter Increased Revenue	13,814,000	4.1%

- Unrecoverable Billed Unmetered, Unbilled Metered, Unauthorized Consumption, Reported Breaks and Leaks
- Recoverable Meter Inaccuracies, Unreported Loss, Systematic Data Handling Discrepancy, Unbilled Unmetered
- Based on Averaging Water Audits 2020-2023





Water Meter AMI Project Savings Detail

Calculated Water Recovery (AWWA Flows)

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Water Meter Size	Baseline Water to Meters (gal/yr)*	Measured Meter Accuracy	Baseline Billed Water per Mtr Size (gal/yr)	New Meter Accuracy Improvement (%)	New Meter Accuracy	Future Billed Water w/ New Meters (gal)	Annual Billed Water Increase (gal)	Annual Billed Water Increase (\$)
5/8" x 3/4" Meters	142,268,550	94.0%	133,732,437		98.5%	140,134,521	6,402,085	\$49,554
1" Meters	18,055,851	94.0%	16,972,500		98.5%	17,785,013	812,513	\$6,289
1.5" Meters	30,753,191	94.0%	28,908,000		98.5%	30,291,894	1,383,894	\$10,712
2" Meters	56,303,191	94.0%	52,925,000		98.5%	55,458,644	2,533,644	\$19,611
3" Meters	47,954,787	94.0%	45,077,500	4.5%	98.5%	47,235,465	2,157,965	\$16,703
4" Meters	0	94.0%	0		98.5%	0	0	\$0
6" Meters	0	94.0%	0		98.5%	0	0	\$0
8" Meters	11,648,936	94.0%	10,950,000		98.5%	11,474,202	524,202	\$4,057
10" Meters	0	94.0%	0		98.5%	0	U	\$0
Totals	306,984,507		288,565,437			302,379,740	13,814,303	\$106,927

^{*} Baseline water to meters determined from billed water documentation and measured meter accuracy - Best data available. Preliminary savings is estimating measured meter accuracy.

Average Water (\$/kgal)

Residential (≤1") Commercial (1.5"-2")

Large Commercial (3"+)

\$7.74 \$7.74 \$7.74

Conservative project payback is: 10.8 years!





Current Issues & Scope of Work

351 77555		
Issue	Impact	Benefit to Leon Valley
	 Limited visibility into water usage patterns Lack of visibility for planning purposes Customer satisfaction 	 Modernize infrastructure by converting existing PD meters to solid-state meters with fixed base network

Lead and Copper Rule Revision Pipe

Need to inventory service lines and customer lines for TCEQ / EPA requirements

No real time leak detection / pressure monitoring

Inability to detect issues/leaks at birth **Emergency repairs at higher cost**

Inaccurate water monitoring & metering Losing water/sewer revenue Water meters continue to lose accuracy - costs Solid State vs Mechanical Meters = guaranteed continue to increase, revenue decrease accuracy for the life of the meter.

Solid State Meters have no moving parts subject to wear, reducing failures and lost accuracy

system operation

Perform survey of service lines and customer lines during water meter changeout Move from reactive to proactive visibility of Repair leaks, ability to schedule repairs based on size of leaks/priorities

Identification

system

Distribution Side Monitoring



Water Meter AMI Example Equipment















ESPC Legislation



Title 9, Local
Government Code
§302



Contract #170103



Benefit Summary of TX Gov Code-Chapter 302

- Budget-Neutral Upgrades = NO UPFRONT CAPITAL INVESTMENT
- Guaranteed Results = Scope failure is covered by PSI
- Modernize Infrastructure
- Reduce Water Loss & Increase Overall Efficiencies
- NO NEW DEBT OBLIGATION
- Compliance & Risk Management
 - Chapter 302 ensures transparent procurement process
 - State guidelines for accountability & efficiency
 - Risk mitigated by the PSI performance guarantee







Leon Valley Engineered Audit

Investment Grade Audit

- Define Existing Conditions
- Establish Utility Baselines and Current Meter Accuracy
- Identify AMI/Distribution System to Meet City's Needs
- Detail Scope of Work for Revenue Increases
- Final Pricing NO CHANGE ORDERS
- Project Economics
- 3rd Party Engineering Review
- M&V Plan





Investment Grade Audit Breakaway Fee

- IGA Breakaway Fee \$38,895.00
- Nothing Due Today
 - Scenario 1: Project funds; Fee rolls into the project scope
 - Scenario 2: Project funds, City balks: Fee due next budget year if IGA determines self-funding project but city chooses not to move forward
 - Scenario 3: Project does not self-fund: Fee is on PSI and City receives IGA report at no-charge

