

### Follow Up Review of Meter Reading & Billing: Electric & Water Utilities Audit

Madison Rorschach City Auditor City Auditor's Office November 14, 2023



## **Purpose of the Follow-Up Review**

- Provides a progress update on audit recommendations.
- Audit project evaluated effectiveness of the City's electric & water meter maintenance, accuracy testing, reading, and billing processes.
- Review found improvement; additional water meter testing needed.



AUDIT OF METER READING & BILLING Electric & Water Utilities

#### ABSTRACT

The City has generally established an adequate process to maintain electric and water meters though additional documentation consistency would further clarify account history. Improvements to water and electric meter testing would provide further assurance that the City is accurately capturing utility usage. Additionally, meters are generally read effectively and appropriate procedures to monitor read accuracy are in place. Finally, utility bills are calculated accurately based on approved utility rates.

#### Internal Audit Department

City Auditor Madison Rorschach, CIA, CGAP

Audit Lead Neeraj Sama, MBA





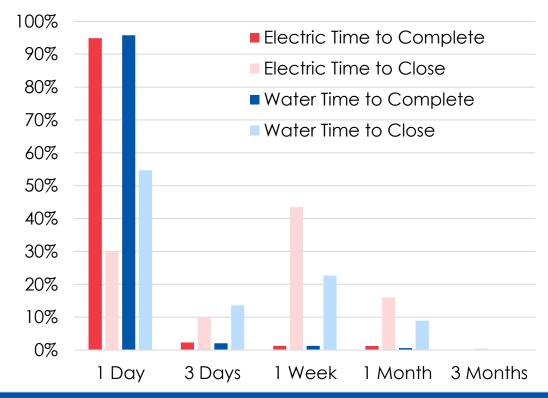
## Meter Work Order Guidance Created; Water Using Different Work Order System

- Guidance for billing system work orders created.
  - New field created to aid in measuring work order timeliness.
  - All work orders generally include adequate information.
- Water dual work order system usage has continued data issues.

ID 23-1812

• Plans to only use billing system going forward while working on system integration.

#### **Meter Work Order Timeliness**





### Electric Meter Test Program Effectively Reinstituted

- Denton Municipal Electric has effectively reinstituted its Meter Test Program.
  - Meter test result data is periodically downloaded to avoid future result losses.

### Electric Meter Test Program Verification

(Oct. 2023) Testing 2022 2023 Current **Meter Type** Meters Est. Tested Tested Residential 2,655 1,833 57,407 2,870 Commercial 5,332 267 284 298 Instrument Rated 1,624 162 123 131 Top 100 100 NA 108 NA



### Water Meter Testing Has Resumed; Water Implementing AMI System for Small Meters

- All meter testing generally halted after original audit.
  - Large water meter testing resumed recently after new testing equipment was purchased.
  - Small meters will be replaced over next few years with AMI system.

Active Large Water Meters Tested

(May – Oct. 2023)

Meter Size	Meters	Percent Tested	
3"	173	14%	
4''	71	14%	
6"	24	442%	
8''	71	11%	
10"	2	0%	
All:	341	15%	



### New Billing Adjustment Reviews Process Effective; AMI Data Sharing is Expanding

- Original audit found meter reading accuracy checks were generally effective & bills were calculated accurately.
- New billing adjustment review process implemented.
  - 100% of reviewed billing adjustments had adequate explanatory comments.
- New customer portal will be rolled out in 2024.
  - Will allow customers to see 15-minute interval electric usage data.



# Follow-Up Report Summary:

### Improvement Made; Addt'l Water Meter Testing Needed

Audit Area	Recommendations	Implemented	In Progress	Not Implemented
Billing System Work Order Mgmt.	2	100%	0%	0%
Water Meter Work Order Issues	2	0%	100%	0%
Electric Meter Testing	3	100%	0%	0%
Water Meter Testing	4	25%	75%	0%
Billing Adjustments	3	100%	0%	0%
	14	64%	36%	0%



7

\*Detailed recommendations and implementation actions can be seen in the full follow-up report.

## **Questions?**

Madison Rorschach City Auditor City Auditor's Office

