

~ NOTICE OF MEETING ~  
CAPITAL METROPOLITAN TRANSPORTATION AUTHORITY  
BOARD OF DIRECTORS PUBLIC HEARING  
www.capmetrotx.iqm2.com

~ AGENDA ~

Board Liaison Ed Easton  
512-369-6040

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Monday, January 25, 2021

12:00 PM

Video Conference Meeting

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**I. Presentations:**

1. Presentation of the results of the Capital Metro Quadrennial Review.

**II. Public Comment:**

**III. Adjournment**

**ADA Compliance**

*Reasonable modifications and equal access to communications are provided upon request. Please call (512) 369-6040 or email [ed.easton@capmetro.org](mailto:ed.easton@capmetro.org) if you need more information.*

**BOARD OF DIRECTORS:** Wade Cooper, Chair; Delia Garza, Vice Chair; Eric Stratton, Secretary; Terry Mitchell; Troy Hill; Ann Kitchen, Jeffrey Travillion and Pio Renteria.

The Board of Directors may go into closed session under the Texas Open Meetings Act. In accordance with Texas Government Code, Section 551.071, consultation with attorney for any legal issues, under Section 551.072 for real property issues; under Section 551.074 for personnel matters, or under Section 551.076, for deliberation regarding the deployment or implementation of security personnel or devices; arising regarding any item listed on this agenda.



# Capital Metropolitan Transportation Authority

FY 2016-2019  
Quadrennial Performance Audit Report

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January 25, 2021



# Performance Audit Scope and Objectives



- Pursuant to §451.454 of the Texas Transportation Code, a quadrennial performance audit was performed for CapMetro.
- The purpose of the performance audit is to provide evaluative information necessary for state and local oversight and to provide information to CapMetro for improving efficiency and effectiveness of operations.
- The performance audit assessed the following required tasks:
  - Administration and Management of the Authority **(Task 1)**
  - Compliance with applicable state laws from Chapter 451 of the Texas Transportation Code and other applicable state laws **(Task 2)**
  - Collection and compilation of base statistics and measurements of specified state-mandated performance indicators **(Task 3)**
- **Scope Period:**
  - FY 2016 – FY 2019
    - October 1, 2015 through September 30, 2019

# Summary of Results



- **Task 1:** Administration and Management of the Authority
  - No instances of non-compliance identified
  - Two Recommendations for Management to enhance internal controls, processes, and efficiencies
  
- **Task 2:** Chapter 451 Statutory Compliance Review
  - No instances of non-compliance identified
  - Four Recommendations for Management to enhance internal controls, processes, and efficiencies
  
- **Task 3:** Performance Indicator Review
  - No instances of non-compliance identified
  - Two Recommendations for Management to enhance internal controls, processes, and efficiencies

# Summary of Results



- The Quadrennial Performance Audit **did not** identify areas of **non-compliance** with Chapter 451 of the Texas Transportation Code, nor a **lack** of effective controls and oversight, nor where performance **did not meet** established expectations
- However, eight **Recommendations for Management** were identified and provided to management for consideration. Management responses to address these recommendations are **not** required.

## Finding vs Recommendation for Management

**Finding:** The Quadrennial Performance Audit areas Identified are considered to be exceptions in which compliance with Chapter 451 is not met, where there are lack of effective controls and oversight, or where performance is not meeting established expectations.

**Recommendation for Management:** The Quadrennial Performance Audit areas Identified are considered to be enhancements to internal controls, processes, procedures, efficiency and effectiveness of operations or improvements to the management of the Authority.

# Task 1 – Administration and Management of the Authority



## Purpose:

- To assess CapMetro's administration and management of the authority's departments.

## Procedures:

- Utilizing a **priority-based approach**, we identified with management the areas with a **high reliance on third party** service providers, highly **complex operations**, a **significant impact** on reputation or significant impact on meeting the authority's goals and objectives. The following departments were selected:
  - ❖ Bus Contract Operations (BCO)
  - ❖ Demand Response Oversight (DRO)
  - ❖ Operations and Maintenance Oversight (OMO)
  - ❖ Paratransit Administration (PA)
  - ❖ Paratransit Eligibility (PE)
  - ❖ Paratransit Reservations and Control Center (PRCC)
  - ❖ Rail Commuter Operations (RCO)
  - ❖ Rail Freight Management (RFO)
- For each selected Department we performed the following:
  - Reviewed staffing levels and the administrative organization of each of the selected departments
  - Reviewed department functionality
  - Reviewed cost elements of each department

# Task 1 – Administration and Management of the Authority



## Results:

- ✓ CapMetro have **adequate** personnel across the selected departments and **maintained** a stable level of personnel to achieve the department's mission, goals and functions
- ✓ Employees have **adequate** credential and qualifications to perform their assigned duties
- ✓ Department's maintained **effective** budget monitoring processes through **collaborative** efforts across the authority which resulted in aligned costs and cost elements.

## Recommendations for Management:

1. **Contract Management System**
  - **Implementation** of a Contract Management System to **uniformly monitor** and **manage** performance and financial status
2. **Credential and Qualification Tracking of Staff within Operations and Maintenance Oversight**
  - **Perform** a **review** of credential and qualifications of OMO staff and **ensure** files are **reflective** of experience gained through on-the-job training

# Task 2 – Chapter 451 Compliance Review



## Purpose:

- To validate CapMetro's compliance with Chapter 451 of the Texas Transportation Code and all other applicable state laws, including:
  - Texas Local Government Code
  - Texas Property Code
  - Texas Health and Safety Code
  - Texas Penal Code
  - Relevant legislation as adopted by the 85<sup>th</sup> and 86<sup>th</sup> Texas Legislatures

## Procedures:

- Identified and cataloged **194** unique compliance requirements and applicable updates to Texas Legislation
- Performed interviews with process owners and validated applicability of each compliance requirement
- Reviewed relevant website content, data, and documents to validate the authority's compliance with each requirement.

# Task 2 – Chapter 451 Compliance Review



## Results:

- ✓ CapMetro **achieved compliance** with all of the 194 applicable Texas state laws as prescribed by Chapter 451 of the Texas Transportation Code.
- ✓ **Validated** that CapMetro **implemented** all statutory recommendations from the Sunset Review, as stated by the State Auditor's Office as issued in the report dated November 5, 2015.

## Recommendations for Management:

### 1. Board Meeting Quorum

- CapMetro **communicate** that the quorum has convened within the meeting minutes **before** a closed meeting begins in accordance with the statute.

### 2. Dispositions and Destruction Central Tracker

- **Develop** and **maintain** a central tracker compiling lists of dispositions and destruction of documents.

### 3. Training Requirement

- **Update** the record retention procedures to include **maintaining** a file with the relevant fare enforcement trainings documentation to strengthen its compliance with the statute.

### 4. Quadrennial Report Delivery

- **Implement** a retention of receipts, or proof or submission, for the delivery of the quadrennial reports to the applicable recipients in accordance with the statute.

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# Task 3 - Performance Indicator Review



## Purpose:

- To examine CapMetro's achievement of the **nine** key performance indicators in accordance with Texas Transportation Code 451.454 statutory requirements.

## Procedures:

- Collected, validated, and assessed performance indicator data from the National Transit Database and/or CapMetro along with an assessment of the trends over the four year scope period, which included:
  - ❖ Operating Cost per passenger, per revenue miles, and per revenue hour
  - ❖ Sales and Use tax receipts per passenger
  - ❖ Fare recovery rate
  - ❖ Average vehicle occupancy
  - ❖ On-time performance
  - ❖ Number of accident per 100,000 miles
  - ❖ Number of miles between mechanical road calls
- Identified and considered the impact of organizational changes and events during the period, such as CapRemap and the entering into a single service contract for bus operations.

# Task 3 - Performance Indicator Review



## Results:

- ✓ **Service Reliability: Improved** On-Time Performance, **lower** accident rates, and **fewer** mechanical road calls **improved** service reliability
- ✓ **Internal Cost and Service Efficiency Measures:** Cost of delivering an hour or mile of service **remained** relatively **flat**.
- ✓ **Cost Effectiveness:** Performance **declined** across cost per passenger trip, fare recovery, and average vehicle occupancy due to a **decline in ridership** prior to the implementation of CapRemap in 2018. Following the implementation of CapRemap, the **trends** were **reversed** and **increases** in ridership occurred between FY 2018 and FY 2019.

## Recommendations for Management

### 1. Increase of Fares

- To **improve** fare recovery rates, continued **coordination** between management and the Board of Directors should be performed annually to **review** and **evaluate** the fare policy, pricing model, and fare practices.

### 2. Documentation of Data Reporting and Validation Process

- **Formalize** the process for **maintaining** documentation and the storage of data reporting and **validation** within the Demand Response Oversight Department.



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# Discussion

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# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report  
Report Date: January 8, 2021

Attachment: 1 - Final Report - FY16-19 Quadrennial Audit (4777 : Quadrennial Review)



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Attachment: 1 - Final Report - FY16-19 Quadrennial Audit (4777 : Quadrennial Review)

# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report

Report Date: January 8, 2021

## Background

Section 451.454 of the Texas Transportation Code mandates quadrennial performance audits of Texas transit agencies for municipalities with populations of more than 1.9 million. The purpose of the performance audit is to provide evaluative information necessary for state and local officials to perform oversight functions and to provide useful information to the transit agency for improving efficiency and effectiveness of its operations.

To meet this requirement, Capital Metropolitan Transportation Authority (CapMetro) engaged Weaver and Tidwell, LLP and the Goodman Corporation, LLP to perform the 2016 – 2019 performance audit. As part of the scope of work identified by CapMetro, the performance audit assessed the following:

- Performance in one of three areas (i.e. administration and management, transit operations, or system maintenance): Each functional area must be addressed once every three audit cycles (**Task 1**). The focus of the functional review for this audit was pre-selected by CapMetro to include the administration and management of the authority.
- Compliance with applicable state law from Chapter 451 of the Texas Transportation Code and other applicable state laws (**Task 2**)
- Collection and compilation of base statistics and measurement of specified state- mandated performance indicators (**Task 3**)

This report presents the results of the audit of CapMetro’s compliance with the requirements identified in Chapter 451.454 of the Texas Transportation Code for the quadrennial period of October 1, 2015 through September 30, 2019 for Fiscal Years (FY) 2016, 2017, 2018, and 2019. We performed the audit in accordance with the Statement on Standards for Consulting Services promulgated by the AICPA Management Consulting Services Executive Committee.

## Executive Summary and Results

Based on the procedures performed for each task, no instances of non-compliance were observed with respect to the requirements of Chapter 451 of the Texas Transportation Code. However, recommendations for management were provided to enhance the internal controls, processes, procedures, efficiency and effectiveness of operations and management of the authority. These recommendations to management are not findings and are therefore not required to be reported with associated management responses and action plans, but are included in this report for management consideration.

The following are the summary results for each task included within the Quadrennial Performance Audit:

**Task 1** – Administration and Management of the Authority identified that CapMetro had adequate staffing levels, effective department functionality, and appropriate cost elements for the in-scope departments included in the review. Each department maintained effective oversight and leadership over their staff, budget, and areas of responsibility. Additionally, each department maintained effective controls and processes over the management and monitoring of third party vendors, which are relied upon by CapMetro to carry out the mission and goals of the authority.

# Capital Metropolitan Transportation Authority

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**Task 2** – Chapter 451 Compliance Review identified that CapMetro achieved all applicable requirements identified in Transportation Code Section 451. In addition, CapMetro achieved the applicable requirements as identified within the Texas Government Code, Texas Local Government Code, Texas Property Code, Texas Health and Services Code, and Texas Penal Code. Achievement of key performance indicator procedures were also validated to ensure correct calculations and appropriate reporting to the appropriate institutions.

**Task 3** – Performance Indicator Review identified that CapMetro appropriately calculates and reports the nine key performance indicators required by Texas Transportation Code Section 451.454. CapMetro experienced improved service reliability and effective cost-control over the period. However, CapMetro experienced a decline in overall ridership during the scope period which was consistent with ridership levels among peer authorities. Additionally, the deployment of CapRemap during this period of declining ridership resulted in initial reductions of cost-effectiveness, but the trends are reversing with increases in ridership following the additions of services and suspending of routes and stops with lower ridership.

## Subsequent Events

During the performance of the Quadrennial Performance Audit, the City of Austin November 2020 special election included a ballot proposition for CapMetro's Project Connect, or Proposition A. The Project Connect proposition is the initial investment of \$7.1 billion to expand the existing rail system, a transit tunnel downtown, expand bus service and include new park and rides. The initial investment will be partially funded through an 8.75 cent increase in the city's property taxes and federal funds. The voters approved the proposition on November 3, 2020. While this did not impact the quadrennial performance audit being reported, this initiative will have a significant impact on the next quadrennial review.

**Task 1**  
**Administration and Management of the Authority**

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report Task 1 – Administration and Management of the Authority Report Date: January 8, 2021

### Executive Summary

The purpose of the Administration and Management of the Authority task was to assess Capital Metropolitan Transportation Authority's (CapMetro, the authority) administration and management of the authority's departments. The specific departments selected for review within the authority were identified with CapMetro management, utilizing a priority-based approach to identify areas that have high reliance on third party service providers, highly complex operations, a significant impact on CapMetro's reputation or significant impact on meeting the authority's goals and objectives. As a result, the following departments were selected to be included within the scope of the task:

- Bus Contract Operations
- Demand Response Oversight (formerly Paratransit Contract Operations)
- Operations & Maintenance Oversight (formerly Bus and Paratransit Services)
- Paratransit Administration
- Paratransit Eligibility
- Paratransit Reservations and Control Center
- Rail Commuter Operations
- Rail Freight Management

For the selected and agreed-upon departments identified for review, the following procedures were performed:

- Reviewed staffing levels and the administrative organization of each of the selected departments
- Reviewed department functionality
- Reviewed cost elements of each department

Overall, CapMetro had adequate personnel across the selected departments during the quadrennial review period. The authority maintained a stable level of personnel to achieve the department's mission, goals, and functions. We also analyzed employees' functional qualifications and found that employees had adequate credentials and qualifications to perform their assigned duties.

In addition, the evaluated departments maintained effective budget monitoring processes. The management and monitoring of departmental budgets is a collaborative effort between department directors and the Finance Department to include reviewing budget to actual variances in operating expenses on a monthly basis and appropriately documenting and communicating variances to leadership.

### Background

CapMetro is the regional public transportation provider for Central Texas and is headquartered in Austin, TX. CapMetro provides transit service to a population of approximately 1.3 million across 544 square miles. Service areas include the cities of Austin, San Leanna, Leander, Lago Vista, Point Venture, the Anderson Mill area of Williamson County, Precinct Two of Travis County, Jonestown, and Manor.

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report Task 1 – Administration and Management of the Authority Report Date: January 8, 2021

With a fleet of more than 423 buses, the authority provides MetroBus, MetroRapid and MetroExpress bus routes, shuttle service to the University of Texas at Austin, on-demand Pickup service and complementary door-to-door service for eligible riders with disabilities.

The MetroRail Red Line operates a 32-mile commuter rail service between Leander and downtown Austin. In addition to providing passenger rail service, CapMetro oversees freight rail traffic along 162 miles of railroad line between Llano and Giddings.

CapMetro also operates a vanpool program called MetroRideShare that provides eligible groups with access to a passenger van and includes insurance, maintenance, 24-hour roadside assistance, administrative support and a fuel purchasing program. For suburban communities within the service area, Capital Metro also works in partnership with the Capital Area Rural Transportation System (CARTS) to offer transportation to select outlying areas surrounding Austin, such as Jonestown, Manor and Del Valle.

CapMetro is governed by an eight-member board of directors, including three members appointed by the Capital Area Metropolitan Planning Organization (CAMPO), including one elected official; one member representing the smaller cities in the authority's service area, one member each appointed by the commissioners of Travis and Williamson Counties, and two members appointed by the Austin City Council, one of whom must be an elected official.

Since 2012, CapMetro has contracted with third party service providers to operate all passenger transportation services, including fixed-route, rail and paratransit service. The authority's service providers during Fiscal Year 2019 were RATP Dev North America, MV Transportation, CARTS, Herzog Contracting Corporation and MTM Transit (formerly Ride Right). In June 2015, the board approved a contract with Watco Companies, LLC, for freight operations and maintenance services on CapMetro's railroad line.

In Fiscal Year 2019, the authority realigned several areas of their operations to more accurately account for CapMetro's operational expenses. Bus and Paratransit Services and the Bus Contract Operations department merged to form the Operations and Maintenance Oversight Department. The department is responsible for coordinating and monitoring the operations of all third party service providers for bus services. In addition, Paratransit Contract Operations and Paratransit Administration merged to form the Demand Response Oversight Department, which oversees each of the authority's paratransit services providers.

### Approach

As part of planning and scoping for Task 1: Administration and Management of the Authority, we performed a preliminary analysis of CapMetro departments to identify those that should be evaluated as part of the task scope.

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report Task 1 – Administration and Management of the Authority Report Date: January 8, 2021

We analyzed each department's role, key leadership, budget to actual expenses, full time employee staffing levels, and associated third party service contracts over the scope period (Refer to Appendix A for the Department Staff and Budget Summary). From our initial analysis, we assigned each department a preliminary priority level based on their high reliance on third party service providers, highly complex operations, significant impact on CapMetro's reputation, or significant impact on meeting the authority's goals and objectives.

From the priority based analysis, the following departments were selected:

1. Bus Contract Operations
2. Demand Response Oversight (formerly Paratransit Contract Operations)
3. Operations & Maintenance Oversight (formerly Bus and Paratransit Services)
4. Paratransit Administration
5. Paratransit Eligibility
6. Paratransit Reservations and Control Center
7. Rail Commuter Operations
8. Rail Freight Management

For each selected department, we conducted interviews with executive and departmental leadership to gain an understanding of department responsibilities, mission, functionality, administrative organization, and budget considerations. The topics for the interviews also included the following:

- Significant changes in responsibilities, structure, or budget during the scope period
- Management and monitoring of performance of third party service providers
- Management and monitoring of performance metrics, for both internal and third parties.
- Quality assurance programs and frequency
- Budgetary impacts, including cost efficiency, innovation, and effectiveness initiatives that occurred during the scope period

Following the interviews, we obtained and examined existing documentation for the department personnel, including job descriptions, point in time employee rosters, contract management plans, and department budget to actual expense reports. From the supporting documentation, we evaluated the organization structure to determine if the staffing levels appear appropriate to carry out the mission and goals of each department and division along with the functionality of the selected departments to determine if they are adequately defined and include appropriate roles and expectations. Additionally, we verified that each department's roles and responsibilities are aligned with the overall mission and objectives of the authority, we reviewed. Finally, we evaluated the cost elements of each selected department to determine if the costs appear appropriate and if budget to actual variances were effectively monitored. This included the review and validation of budget and cost reporting, considerations for any revenue generation, and adhering to the approval departmental budgets.

# Capital Metropolitan Transportation Authority

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 Task 1 – Administration and Management of the Authority  
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## Department Overview

The following is an overview of the in-scope departments that were identified during the priority-based assessment that are directly tied to achieving compliance with Chapter 451 and were approved by CapMetro Management for consideration:

### 1. Bus Contract Operations

This department reported to the Vice President of Bus Operations and Maintenance, until it merged with Operations and Maintenance Oversight in FY 2019. The department functioned to segregate third party service provider costs related to MetroBus, MetroExpress, Rural Services, and UT Shuttle services.

### 2. Demand Response Oversight

This department reports to the Vice President, Demand Response and Innovative Mobility. Formerly named Paratransit Contract Operations, the department merged with Paratransit Administration and now oversees activities of all third party service providers related to paratransit services.

### 3. Operations and Maintenance Oversight

This department reports to the Vice President of Bus Operations. Formerly named Bus and Paratransit Services, this department is responsible for the contract management of third party services providers, data collection and analysis and quality assurance activities for both vehicle operations and vehicle maintenance.

### 4. Paratransit Administration

This department reported to the Vice President, Demand Response and Innovative Mobility, which was merged with Demand Response Oversight in FY 2019. The department functioned to manage all aspects of paratransit services included overseeing the Reservations and Control Center, Contract Operations, and Eligibility departments.

### 5. Paratransit Eligibility

This department reports to the Vice President, Demand Response and Innovative Mobility. The department manages the paratransit services eligibility certification process and provides training on using fixed-route services to seniors and people with disabilities.

### 6. Paratransit Reservations and Control Center

This department reports to the Vice President, Demand Response and Innovative Mobility. The department manages the paratransit services call center, dispatch, scheduling and all customer service and outreach efforts for MetroAccess.

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report Task 1 – Administration and Management of the Authority Report Date: January 8, 2021

### 7. Rail Commuter Operations

This department reports to the Vice President of Rail Operations. The department manages all aspects of commuter rail service including overseeing operations and maintenance contracts with third party service providers and rail operations regulatory compliance.

### 8. Rail Freight Management

This department reports to the Vice President of Rail Operations. The department is responsible for managing the rail freight contract and overseeing the maintenance of the track and track infrastructure.

## Detailed Audit Procedures and Results

The following includes the detailed audit procedures that were performed for the task to review the staffing levels and administrative organization, department functionality, and cost elements of each in-scope department:

### 1. Staffing Level Review

We analyzed seven departments to determine if the assignment and functional qualifications of personnel were adequate.<sup>1</sup> In addition, we performed a staffing analysis of one adjacent department, Paratransit Reservations and Control Center due to their operations being directly tied to Paratransit Administration and Eligibility.

Using personnel data provided by CapMetro Human Resources, we created a *Quadrennial Staffing Matrix* covering the FY 2016-2019 period. The matrix is a point-in-time analysis that documents filled positions as of September 30<sup>th</sup> during each of the four fiscal years in scope period for the following departments:

1. Bus Contract Operations (BCO)
2. Demand Response Oversight (DRO)
3. Operations and Maintenance Oversight (OMO)
4. Paratransit Administration (PA)
5. Paratransit Eligibility (PE)
6. Paratransit Reservations and Control Center (PRCC)
7. Rail Commuter Operations (RCO)
8. Rail Freight Management (RFO)

<sup>1</sup> Due to Demand Response Oversight's administrative oversight of Paratransit Reservations and Control Center, a staffing level review was performed on Paratransit Reservations and Control Center Department to ensure staffing levels are appropriate.

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report Task 1 – Administration and Management of the Authority Report Date: January 8, 2021

### Results

CapMetro hired and assigned adequate personnel across each department during the four years of the review period. Six of the seven in-scope departments (BCO, DRO, OMO, PA, PE and RFM) maintained a stable level of filled positions across their functions. The seventh department, RCO, experienced significant staff losses between FY 2016 and FY 2017 that persisted into FY 2018. Upon the hiring of a new Vice-President for Rail Operations in March 2018, the department was re-organized. Successful recruiting efforts over the next fiscal year brought stability, expertise, and adequate staffing to the department in FY 2019.<sup>2</sup>

Paratransit Reservations and Control Center (PRCC) demonstrated adequate staffing through the first three years of the quadrennial, adding two additional staff in FY 17 and three in FY 18. The department experienced a disproportionate number of staff losses in 2019, resulting in a net loss of five staff during the fiscal year. However, there is no evidence that operations were disrupted or compromised in PRCC during FY 2019.

Additionally, the authority exhibits adequate HR processes in support of the seven departments. Vacancies are filled in a timely fashion; employees are provided salary increases over time and there are promotion opportunities within and across each department. We analyzed all job descriptions across the departments and found without exception that the descriptions were adequate, with cogent and complete descriptions of supervisory and budget oversight, job responsibilities, qualifications and required knowledge, skills, and abilities. The job descriptions are also current and updated routinely. Lastly, CapMetro employs an annual evaluation instrument that conforms to general HR standards and practice, which is deployed at standard intervals to adequately assess personnel performance.

### 2. Department Functionality

In addition to confirming that the departments had adequate job descriptions for each position, we analyzed the employees' functional qualifications within each in-scope department. CapMetro HR provided job application/resume information for 49 current authority employees, although six of these documents were for employees hired outside of the scope period. We analyzed the remaining 43 documents to determine adequacy of degrees and certifications (credentials) and adequacy of qualifications using the following scale:

Functional Qualifications	
	Adequate
	Partially Adequate
	Inadequate
NA	Not Available

<sup>2</sup> The VP of Rail Operations completed the re-organization of the department with the termination of five employees in October 2019, 14 days outside of the quadrennial review period. Those personnel actions, though finalized in FY 2020, marked the completion of the FY 2019 re-org.

# Capital Metropolitan Transportation Authority

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### Results:

Of the 43 employees reviewed, four employees had applications that were inconclusive. The documentation provided for those four employees was not current enough to fairly assess their qualifications against their current jobs. Of the remaining 39 employees, the following was identified:

- 30 (77%) possessed **adequate** credentials and qualifications.
- 6 employees (15%) possessed **partially adequate** credentials and **adequate** qualifications.
- 3 employees (8%) possessed **partially adequate** credentials and **partially adequate** qualifications.

There were no instances in the review period of an employee with inadequate credentials nor inadequate qualifications. Refer to the table below for details on the conformance of personnel by department.

Department	Adequate Credentials and Qualifications	Partially Adequate Credentials with Adequate Qualifications	Partially Adequate Credentials and Qualifications	Inadequate Credentials	Inadequate Qualifications
BCO	1	1	-	-	-
DRO	4	-	-	-	-
OMO	10	5	3	-	-
PE	7	-	-	-	-
RCO	7	-	-	-	-
RFM	1	-	-	-	-
<b>TOTALS</b>	<b>30</b>	<b>6</b>	<b>3</b>	<b>-</b>	<b>-</b>

We identified that all but one instance of partially adequate credentials and/or qualifications occurred in OMO. That observation, however, does not lead to a conclusion that OMO has credential or qualification gaps. While management should consider a review of credential and qualifications among OMO staff, it should be noted that employees in the department gain skills through their experience at CapMetro that lead to more senior and supervisory positions: this skill acquisition is not always evident in an individual's documented qualifications. Management has been provided a recommendation to further evaluate and document the credentials and qualifications obtained from on-the-job training.

Lastly, the most highly credentialed and educated staff among the departments is in the newly re-organized RCO, which has focused on talent acquisition to enhance their skills and qualifications.

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report Task 1 – Administration and Management of the Authority Report Date: January 8, 2021

### 3. Cost Elements Review

The CapMetro board of directors must adopt an annual budget driven by an approved strategic plan that outlines the authority's priorities. Section 451.103 of the Texas Transportation Code states that an authority may not spend for operations in excess of the total amount specified for operating expenses in the annual budget. As a result, CapMetro maintains budget control at the departmental level for purposes of operational spending. Department leadership is primarily responsible for monitoring their respective operating budgets and to administer operations in such a manner as to ensure the use of funds is consistent with the goals and objectives outlined in the strategic plan.

For each selected department, we analyzed the budget to actual operating expenses for each fiscal year within the scope period. We identified specific primary cost centers for further review based on their significant impact to the authority's primary operations. Additionally, we obtained the budget to actual variance reports submitted to department leadership by the Finance Department. For the primary cost centers selected, we reviewed any budget to the actual variances identified during the scope period and verified the variances were appropriately monitored and addressed by department leadership and the Finance Department.

#### Results

Department leadership and the Finance Department review budget to actual expense variances on a monthly basis. Significant budget variances are further evaluated by the Finance Department and executive management to determine whether remedial action is required.

We identified that variances within the monthly reports are justified with detailed and appropriate documented explanations. Monthly and quarterly reporting to authority leadership, including the board, ensures cost elements and impacts to operations are effectively and timely communicated. Overall, the cost and cost elements evaluated during the scope period appeared aligned with the authority's mission and goals.

#### Recommendations for Management

From the procedures performed, we did not identify areas of non-compliance with Chapter 451 of the Texas Transportation Code, nor a lack of effective controls and oversight, nor where performance did not meet established expectations. However, recommendations for management were identified where considerations for enhancement to internal controls, processes, procedures, efficiency and effectiveness of operations or management of the authority. The following recommendations were identified for Task 1 and provided to management for consideration. However, due to the nature of the recommendations, formal management responses and anticipated action plans are not required.

# Capital Metropolitan Transportation Authority

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## 1. Contract Management System

CapMetro's primary operations (such as Bus, Demand Response, and Rail services) are outsourced to third parties and require effective, efficient, and timely contract management by internal contract managers. However, current procedures and processes are not uniform across the Authority or performed systematically to monitor and manage performance and financial status. Management should consider implementing a contract management system that incorporates performance measures, budget to actual financial data, tracking of quality assurance measures performed, and dashboards for monitoring compliance and performance of the data being received, which will ensure a more uniform practice and methodology across the Authority. In addition, a contract management system can result in decisions that are driven and supported through data that can be easily verified by management.

## 2. Credential and Qualification Tracking of Staff within Operations and Maintenance Oversight

Personnel files for staff within Operations and Maintenance (OMO) can appear to include credential or qualification gaps. However, OMO personnel have historically acquired needed skills and experience through on-the-job training and tenure with the authority, which is common for transportation authorities. As a result, management may not be effectively assessing credentials and qualifications of staff to identify resource and/or training needs. Management should consider a review of credential and qualifications among OMO staff and ensure files are reflective of this experience gained through on-the-job training.

**Task 2**  
**Chapter 451 Statutory Compliance Review**

# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report

Task 2 – Chapter 451 Statutory Compliance Review

Report Date: January 8, 2021

## Executive Summary

The purpose of the Chapter 451 Statutory Compliance Review was to validate Capital Metropolitan Transportation Authority's (CapMetro) compliance with applicable state laws. Chapter 451 of the Texas Transportation Code (Code) requires CapMetro to be in compliance with all applicable elements of the Code, including the following statutes:

- Texas Government Code
- Texas Local Government Code
- Texas Property Code
- Texas Health and Safety Code
- Texas Penal Code
- Relevant legislation as adopted by the 85<sup>th</sup> and 86<sup>th</sup> Texas Legislatures

Based on the procedures performed, we validated that CapMetro achieved compliance with all 194 applicable Texas state laws as prescribed by Chapter 451 of the Texas Transportation Code. In addition, we validated that the CapMetro Board and personnel have effective procedures in place to comply with all statutes that govern the authority's policies, practices, and procedures. The Quadrennial Performance Review performed did not find any failure to comply with existing and new provisions of Texas Transportation Code 451 and other relevant Texas legislation.

### 1. Approach

The task included identifying and cataloging each compliance requirement as stated within Chapter 451 of the Texas Transportation Code, along with applicable statutes and laws as prescribed in the following:

- Texas Government Code
- Texas Local Government Code
- Texas Property Code
- Texas Health and Safety Code
- Texas Penal Code

Each compliance requirement, along with the validation procedure to be performed, was documented into a compliance matrix which was used to verify achievement by the Authority. *Refer to Appendix B for the Compliance Matrix*

In addition, we evaluated and documented applicable updates to Texas legislation to verify compliance. In order to validate legislative compliance, we reviewed legislative amendments that were enrolled by the 85<sup>th</sup> (2017) and 86<sup>th</sup> (2019) Texas Legislature along with:

- Previous Quadrennial Performance Reviews that assessed CapMetro's compliance with new legislation from previous Texas Legislature sessions and that all issues raised in those reviews had been thoroughly addressed

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- Validating that CapMetro did not regress in its policies or practices that would negatively impact the authority’s ability to satisfy all relevant enacted legislation.
- Validating the implementations of the CapMetro’s Sunset Review process recommendations that occurred during the prior quadrennial review period.

## 2. Sources of Information

In order to validate CapMetro’s compliance with the applicable statutes, the following sources of information were collected and reviewed:

- Texas Legislature Online, at <http://www.capitol.state.tx.us/>,
- Publicly available information on the Authority’s website, at <http://www.CapMetro.org/>,
- General Services Administration, at <https://www.gsa.gov/>,
- U.S. Census, at <https://www.census.gov/>,
- Internal policy manuals and memoranda provided by Capital Metro staff,
- Interviews with Capital Metro’s personnel, and
- Observed policies and practices in use, where relevant.

## 3. Metrics

To validate compliance, we utilized the following metrics to evaluate and determine whether the Authority is meeting the applicable Texas statutes:

- **Compliant** - An area is considered “achieved” if the audit procedures identified no findings with the authority’s implementation of statute.
- **Deficient** - An area is considered “deficient” if any of the requirements of a statute were not met by the authority.
- **Not Applicable**- An area is deemed “not applicable” if it was determined that the authority does not conduct activities relevant to the statute and are therefore not required to be met.

## Detailed Audit Procedures and Results

### 1. Legislative Chapter 451 Changes

To identify the applicable legislation enrolled in the 85th (2017) and 86th (2019) Texas Legislature that were relevant to CapMetro, we reviewed all amendments made to the Texas Transportation Code, Section 451 through an online search of the Texas Legislature Online. Next, we researched amendments in all other code areas in the two Texas Legislature sessions by identifying topics that have direct relevance to CapMetro. Figure 2.1 lists the key words and phrases that were used for the search.

Figure 1.1 Key Search Terms

• Alcoholic beverage	• Conflict of interest	• Marijuana	• System security
• Assessment of damages	• Depository	• Minimum wage	• Terminal complex
• Board matters	• Drug testing	• Occupational safety	• Train maintenance
• Board terms	• Electric consumption	• Open meeting	• Transportation safety
• Chapter 451	• Emissions tax payment	• Public records	
• Commuter rail	• Fare enforcement	• Records management	
• Competitive bidding	• HIPPA compliance	• Sales and use tax	

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We also examined the findings and recommendations of the previous 2016 Quadrennial Performance Review and evaluated the authority's responses. We identified that the previous Quadrennial Performance Review, covering the FY 2012–2015 period, analyzed changes to the statutory amendments to the Texas Transportation Code Section 451 and other relevant Texas Government Code.

## 2. Legislative Chapter 451 Compliance and Other State Statutes

We also conducted interviews with CapMetro's process owners, determined applicability, and reviewed relevant data and documents to validate the authority's compliance with each of the identified statutes. We reviewed CapMetro's website to ensure compliance with statutes that require transparency with the public. We verified that CapMetro maintained supporting documents for transactions that occurred during the quadrennial review. We reviewed CapMetro by-laws and policies and procedures to ensure compliance with Texas Transportation Code Chapter 451 and other applicable state statutes.

## 3. Prior Compliance Efforts

The Quadrennial Performance Audit also considered past compliance efforts that took place during the scope period. From our review of the 2016 Quadrennial Performance Review, we identified that no instances of non-compliance with current provisions of Texas Transportation Code 451.

## Results

Task 2 Chapter 451 statutory compliance review assessed achievement of the 194 applicable statutes out of the 398 total legislative requirements. From the procedures performed, we validated that CapMetro's compliance with all of the requirements that were determined to be applicable to the authority during the FY 2016–FY 2019 audit period. In addition, we validated the State Auditor's Office issued a report on November 5, 2015, which found that CapMetro had implemented the statutory recommendations from the Sunset Review. Since the State Auditor's Office issued the report stating the recommendations had been implemented, we relied upon their procedures and did not follow-up on those recommendations.

## Recommendations for Management

From the procedures performed, we did not identify areas of non-compliance with Chapter 451 of the Texas Transportation Code, or a lack of effective controls and oversight, or where performance did not meet established expectations. However, recommendations for management were identified where considerations for enhancement to internal controls, processes, procedures, efficiency and effectiveness of operations or management of the authority. The following recommendations were identified for Task 2 and provided to management for consideration. However, due to the nature of the recommendations, formal management responses and anticipated action plans are not required.

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## 1. Board Meeting Quorum

Texas Government Code § 551.101, requires a quorum to convene in an open meeting prior to conducting a closed meeting. CapMetro has no instances of non-compliance with this statute. Subsequent to an analysis of CapMetro's publicly available meeting minutes, it is recommended that CapMetro communicate the quorum has convened within the meeting minutes before a closed meeting begins in accordance with this statute.

## 2. Dispositions and Destruction Central Tracker

Texas Local Government Code § 203.046, states that the governing body may require the Records Management Officer to keep accurate lists of records destroyed and other information as part of their responsibilities. CapMetro has no instances of non-compliance with this statute. Currently, the Records Management Officer is not required to maintain a central tracker. It is recommended that CapMetro include in the Records Management Officer's Policies and Procedures the responsibility of developing and maintaining a central tracker compiling lists of dispositions and destruction of documents.

## 3. Training Requirement

Texas Transportation Code § 451.0612(b), requires the Fare Enforcement Officers complete a 40-hour training before commencing their respective duties. Currently, this process is outsourced to Herzog. However, it is recommended that CapMetro update the record retention procedures to include maintaining a file with the relevant fare enforcement trainings' documentation to strengthen its compliance with the statute.

## 4. Quadrennial Report Delivery

Texas Transportation Code § 451.457, requires the quadrennial reports be delivered to specific recipients (e.g. Texas Governor, Lt. Governor, etc.). CapMetro provided the cover memorandum as supporting documentation evidencing the recipient list of the 2012-2015 quadrennial report. After requesting proof of receipt from the State Auditor's Office, CapMetro was able to provide the proof of submission of the prior quadrennial report. It is recommended that CapMetro implement a retention of receipts, or proof of submission, for the delivery of the quadrennial reports to the applicable recipients in accordance with the statute.

# Task 3

## Performance Indicator Review

# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report

Task 3 – Performance Indicator Review

Report Date: January 8, 2021

## Executive Summary

The purpose of Task 3 was to examine Capital Metropolitan Transportation Authority's (CapMetro) achievement of the nine key performance indicators in accordance with Texas Transportation Code Section 451.454 statutory requirements. From the procedures, we identified that CapMetro experienced improved service reliability and effective cost-control over the period. However, the addition of service in a period of declining ridership was reflected in significant declines in cost-effectiveness, which are attributed to the decline in overall ridership which was experienced by peer authorities during the scope period.

The nine performance indicators evaluated were grouped into three categories for the purpose of validating CapMetro's achievement of its performance goals: service reliability, internal cost and service efficiency measures, and cost effectiveness. The evaluation of performance and the results are summarized as follows:

- **Service Reliability:** Improved On-Time Performance, lower accident rates, and fewer mechanical road calls improved service reliability during the period.
- **Internal Cost and Service Efficiency Measures:** These Performance Indicators (PIs) measure the ability of CapMetro to perform its services efficiently, without wasting resources, regardless of how many people use the service. The cost of delivering an hour or mile of service remained relatively flat, increasing 0.16% and 1.45% respectively.
- **Cost Effectiveness:** These PI's measure the ability of CapMetro to perform its core functions: transport people in a cost-effective fashion. CapMetro's performance declined across three PIs (cost per passenger trip, fare recovery, and average vehicle occupancy) due to a decline in ridership prior to the implementation of CapRemap service changes in June 2018. The addition of service from the CapRemap initiative coupled with lower ridership during three years of the audit period, resulted in the cost of a single trip to increase from \$5.57 to \$7.58. CapMetro fare recovery is less than 10% of operating costs, which is low compared to its peer group which averages 22%. Fare recovery declined across all modes except for Commuter Bus (CB) which saw a significant improvement with a compound annual growth (CAGR) of 25%, or an average fare of \$1.04 per trip to \$2.71 per trip. However, a decline in ridership was not unique to CapMetro and beginning in 2015, public transit ridership in major US cities flattened out or declined with the 2015-2018 period reflecting the steepest declines. Typical factors for the decline in ridership included decreasing fuel prices and higher levels of auto ownership. However, recent research points to the growth of Transportation Network Companies (TNCs) as another factor causing ridership declines. Since the implementation of CapRemap in June 2018, CapMetro has reversed the declining trends and increases in ridership occurred between FY 2018 and FY 2019, when ridership grew by an average of 103,300 trips a month.

# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report

Task 3 – Performance Indicator Review

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## Summary Table

Performance Indicator	MB			DR			YR			CB		
	FY2019	4-yr CAGR	vs. Prior Period <sup>1</sup>	FY2019	4-yr CAGR	vs. Prior Period <sup>1</sup>	FY2019	4-yr CAGR	vs. Prior Period <sup>1</sup>	FY2019	4-yr CAGR	vs. Prior Period <sup>1</sup>
Cost per Revenue Hour	\$115.15	-0.08%	-	\$95.72	-0.97%	-	\$1,562.44	6.05%	○	\$136.30	3.17%	○
Cost per Revenue Mile	\$10.36	1.94%	-	\$6.87	-1.61%	-	\$66.44	6.64%	○	\$7.32	3.19%	○
Cost per Passenger	\$5.84	8.82%	○	\$54.56	-0.30%	-	\$26.48	10.51%	○	\$10.77	6.90%	○
Fare Recovery	10.00%	-8.63%	○	1.94%	-3.89%	○	7.90%	-17.20%	○	25.16%	24.61%	●
Avg. Vehicle Occupancy	7.27	-8.44%	○	1.07	1.21%	-	38.48	-4.80%	○	12.81	-0.05%	-
On-time Performance	84.2%	-0.85%	-	90.3%	-0.26%	-	97.2%	0.08%	-	81.5%	-2.57%	●
Accidents per 100k Miles	0.90	-4.45%	●	0.37	-2.14%	●	0.00	0.00%	●	0.34	-	NA
Miles Between Road Calls	3,882	7.23%	●	17,416	-2.81%	○	150,117	92.98%	●	50,120	52.18%	●
Sales & Use Tax per Passenger (All Modes)	\$8.57	8.75%	-									
<sup>1</sup> Prior Period refers to the prior quadrennial performance audit period of FY 2012 through FY 2015 - Less than 2% Change to CAGR ● Improvement in CAGR performance by more than 2% ○ Decline in CAGR performance by more than 2%												

## Background

### 1. CapMetro Quadrennial Audit – Performance Indicators

Texas Transportation Code, Chapter 451.454 Performance Audit mandates an audit every four years (quadrennial audit) to facilitate state oversight and provide information to the Authority to improve efficiency and effectiveness, including an evaluation of performance indicators.

This quadrennial performance audit evaluated the following required performance indicators for the period October 1, 2015 to September 30, 2019 (FY 2016 – FY 2019):

- Operating Cost per passenger, per revenue miles, and per revenue hour;
- Sales and Use tax receipts per passenger;
- Fare recovery rate;
- Average vehicle occupancy;
- On-time performance;
- Number of accidents per 100,000 miles; and
- Number of miles between mechanical road calls.

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## 2. Important Changes or Events during the Audit Period

CapMetro implemented a re-visioning of its bus system starting in June 2018. The process, called Cap Remap, eliminated two unproductive routes, added ten new routes, and increased frequency. During the audit period, CapMetro added 213,000 hours of bus service and 21,450 hours of commuter bus service. This audit period reflects the added productivity and resulting higher ridership.

Public transit ridership in major US cities has been flat or declining over the past few years, with 2015-2018 reflecting the steepest declines. Typical factors such as decreasing fuel prices and higher levels of auto ownership are driving some of the change. However, recent research points to the growth of Transportation Network Companies (TNCs) as another factor causing ridership declines.<sup>3</sup> During the audit period, CapMetro undertook a number of pilot projects to learn how a TNC- or flexible-model could be adapted to its public transportation mission; these included Pickup, MetroFlex, and the Saltillo Shuttle. The lessons learned from these initiatives may change how CapMetro delivers some of its services in the future.

As of September 30, 2019, CapMetro entered into a single service contract with MV Transportation for bus operations. Prior to this contract, CapMetro held contracts with four different providers during the audit period. The impact(s) of moving from multiple to a consolidated contract will be more evident in the next audit period.

Lastly, CapMetro has adopted an organization-wide policy of transparency. The public can find data (sometimes real time data) on the authority's performance dashboard for finances, ridership, safety, reliability and performance.<sup>4</sup>

<sup>3</sup> Graehler, M. & Mucci, R. (2019), Understanding the Recent Transit Ridership Decline in Major US Cities: Service Cuts or 2 Emerging Modes? Transportation Research Board Annual Conference.

<sup>4</sup> <https://www.CapMetro.org/dashboard>

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## CapMetro Transit Service Overview

### 1. Service Modes

CapMetro operates five service modes: Motor Bus, Commuter Bus, Demand Response, Hybrid Rail and Vanpool. On an average weekday, CapMetro provides almost 100,000 trips across all its modes.<sup>5</sup> 6The following is a summary of each of the service modes evaluated as part of the audit procedures:

- **Motor Bus (MB)** is a rubber-tired passenger vehicle operating on a fixed route and schedule over roadways. CapMetro has branded its motor bus services as MetroBus, which is a fixed route service with a bus every 30 minutes and frequent stops. MetroBus includes the University of Texas shuttles, the E-Bus that links the UT campus to downtown; Night Owl service; and Round Rock service. CapMetro has branded its high frequency service MetroRapid, which is a bus every 15 minutes with minimal stops.
- **Commuter Bus (CB)** is a fixed-route service that connects daily commuters with downtown work destinations. CapMetro has branded its commuter service MetroExpress, which operates seven routes from 18 park-and-rides lots.
- **Demand Response (DR)** is a curb-to-curb service that does not operate according to a fixed route or schedule. Passengers schedule rides in advance and these are typically shared among unrelated passengers. Many transit systems operate DR service to meet the requirements of the Americans with Disability Act (ADA). CapMetro has branded its ADA service MetroAccess and it is restricted to people whose disabilities prevent them from riding a CapMetro bus or train. Starting in 2019, CapMetro operated a DR service called “Pickup” that is open to the general public and is on-demand.
- **Demand Response Taxi (DT)** is a type of demand response service where private taxi companies provide shared trips to eligible riders. CapMetro operated DT service in 2016, but the service was eliminated in 2017. DT activity is combined with DR activity in this report.
- **Hybrid Rail (YR)** combines aspects of commuter rail and light rail. Hybrid rail systems primarily operate on the national system of railroads but typically operate Light Rail-type vehicles instead of diesel multiple-unit trains (DMUs). MetroRail is a hybrid rail system that operates DMUs on a 32-mile route from Leander, north of Austin, to downtown. There are nine stations which are connect to nearby destinations with connector routes. CapMetro operates DMUs on a national railroad system but does not operate with the some of the characteristics of commuter rail (e.g. multi-trip tickets, railroad employment practices).
- **Vanpool (VP)** is a shared ride for group of individuals usually travelling between home and work. MetroRideShare is group of 4 or more people who regularly travel together in a rideshare vehicle for the purpose of commuting to and from work.

### 2. Service Delivery Approach

Service delivery is the organization structure under which services are provided. It includes Directly Operated (DO) or Purchased Transportation (PT). Directly operated service is where transit agencies own and maintain the equipment and its bus operators are employees of the agency. Purchased Transportation services are contracted, and the contract can include any combination of operations, and vehicles and/or maintenance. As of 2016, all CapMetro services were PT where CapMetro owned the assets and the contractor provided operations and maintenance. By the end of FY 2019, all MB and CB services were consolidated under a single contract with MV Transportation.

<sup>5</sup> Capital Metro Facts, [https://www.CapMetro.org/docs/default-source/plan-your-trip-docs/destination-schedule-book-docs/contacts-facts.pdf?sfvrsn=aad87f05\\_2](https://www.CapMetro.org/docs/default-source/plan-your-trip-docs/destination-schedule-book-docs/contacts-facts.pdf?sfvrsn=aad87f05_2)

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Refer to Table 1: CapMetro Purchased Transportation Contracts for a complete listing of purchases transportation services.

**Table 1: CapMetro Purchased Transportation Contracts**

Contractor	Mode	Effective	Service Start	Expiration
Yellow Cab	DR	5/2011	8/2011	10/2016
McDonald Transit	MB	5/2012	8/2012	01/2020
MV Transportation	DR	5/2012	8/2012	9/2018
Ride Right	DR	5/2018	10/2018	9/2022
MV Transportation	MB, BRT, UT Shuttle	10/2015	NA	1/2020
Le Fleur	DR	6/2016	10/2016	11/2017
MV Transportation	MB	8/2019	1/2020	12/2024
Herzog	CB	7/2015	10/2015	10/2022

### 3. Performance Indicator Data Sources

The data used to calculate performance indicators is sourced from either the National Transit Database (NTD) or directly from CapMetro. All performance indicators (PIs) reflect the four year scope period (beginning of FY 2016 to end of FY 2019). The Compound Annual Growth Rate (CAGR) is used to describe any change in performance and is established based on the four-year period.

For National Transit Database (NTD) Sourced Data, with the exception of On-Time Performance, all PI data is reported annually to the NTD. The Federal Transit Authority (FTA) requires transit agencies that receive federal funds to report financial, service, safety and security, assets, resources, and contract data to the NTD every year. This data is used in the Federal Funding Allocation formula to apportion federal transit agency funds every year. In 2016, the FTA apportioned \$28.8 million to the CapMetro based on the FFA formula; by 2019, this amount increased to \$32.1 million. Refer to Table 2 for NTD Sources for Performance Indicator data.

Due to the importance of data integrity to fund generation, the NTD tests all reported data against industry norms and for internal consistency and reasonableness. As such, there is confidence in NTD data which was used to calculate operating cost per passenger trip, per revenue mile and per revenue hour; sales and use tax per passenger; fare recovery rate, average vehicle occupancy, accident rate, and mechanical failure rate.<sup>6</sup>

For Agency-Sourced Data, data that is not reported to NTD and for which there is no NTD equivalent is on-time performance (OTP). These data sets have been provided directly by the agency. The methodology used to sample and verify data is included in Appendix C, Performance Indicator Methodology.

<sup>6</sup> PI data for accident rates and mechanical road calls were sourced from the NTD. The NTD definitions are inconsistent with the definitions in Chapter 451, however these inconsistencies are not expected to impact the interpretation of the results.

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**Table 2: NTD Sources of Performance Indicator Data**

Data	Source
Capital Lease Expense	NTD – Form B30
Sales and Use Tax Receipts	NTD – Form F10
Fares	NTD – Form F10
Operating Expense	NTD – Form F30
Unlinked Passenger Trips	NTD – Form S-10
Revenue Hours	NTD – Form S-10
Revenue Miles	NTD – Form S-10
Passenger Miles	NTD – Form S-10
Accidents	NTD – SS40
Mechanical Failures	NTD – Form R-20

#### 4. Data Definitions<sup>7</sup> and Data Summary

The following are the data definitions and data summary identified for each of the performance indicators evaluated as part of the audit:

- a. Operating Expense:** Operating cost are an authority's costs of providing public transit service, including purchased transit service not performed by the authority, but excluding the costs of:
- Depreciation, amortization, and capitalized charges;
  - Charter bus operations; and
  - Coordination of carpool and vanpool activities.

CapMetro reports capitalized expense as part of its contract expense; this is a cash expense and deducted from modes when applicable. Depreciation and amortization are reported as non-cash reconciling items. Charter bus operations are deducted from CB operating expense. Additionally, Vanpool expense, and all related activities, are not reflected in this report per the definition of the statute.

- b. Operating Expense by Mode:** We identified that the cost of operations increased approximately \$17.4 million (4.78%). MB and CB cost increases of \$22.7 million during the period were offset by decreases in DR and YR modes (\$5.3 million). The most significant cost increases occurred between 2015 and 2016, after which the rate of increase flattened for the remainder of the period. See Table 3: Operating Cost by Mode for detailed costs by mode over the scope period along with Chart 1 and 2 for the graphic depiction of these changes over the period.

<sup>7</sup> Section 451.455, Chapter 451, Texas Transportation Code. <https://statutes.capitol.texas.gov/Docs/TN/htm/TN.451.htm>

# Capital Metropolitan Transportation Authority

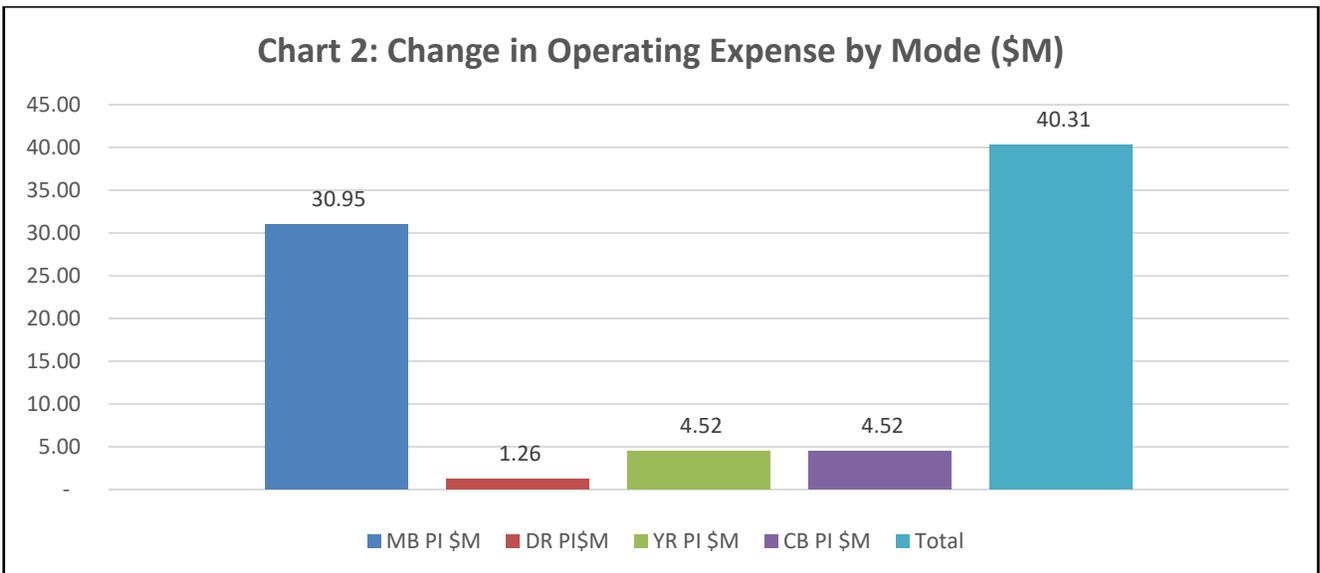
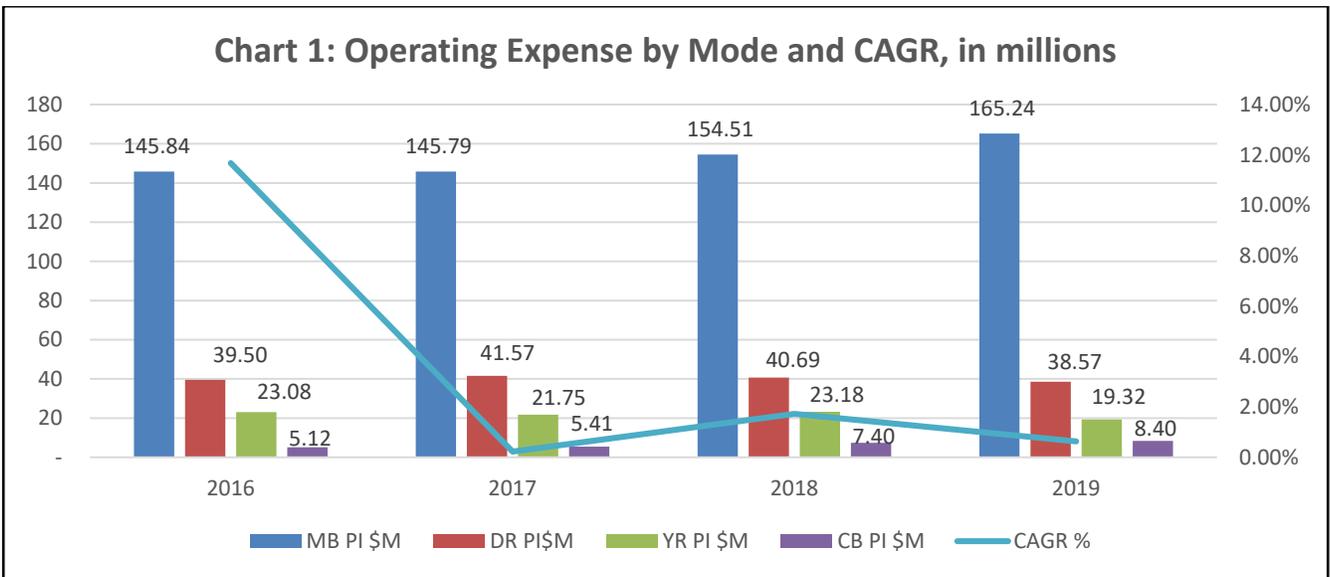
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Table 3: Operating Cost by Mode

FY	MB	DR	YR	CB	Total
2016	\$145,841,719	\$40,467,983	\$23,076,368	\$5,123,771	\$214,509,841
2017	\$145,785,748	\$41,912,043	\$21,750,211	\$5,406,635	\$214,854,637
2018	\$154,505,921	\$40,843,532	\$23,184,423	\$7,404,336	\$225,938,212
2019	\$165,238,005	\$38,568,595	\$19,319,510	\$8,400,308	\$231,526,418
CAGR 2016-2019	5.32%	0.30%	6.90%	14.85%	4.78%



Attachment: 1 - Final Report - FY16-19 Quadrennial Audit (4777 : Quadrennial Review)

# Capital Metropolitan Transportation Authority

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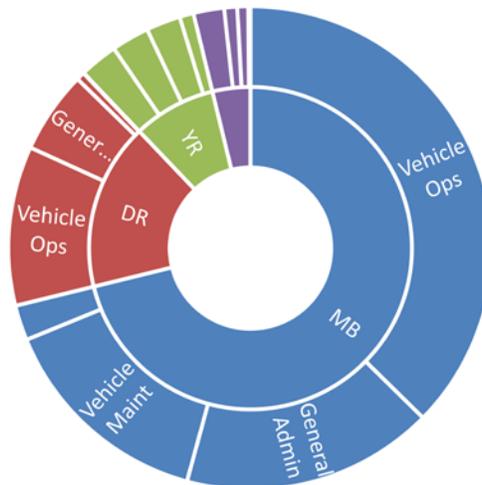
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c. **Operating Expense by Function:** Cost is reported by four NTD-defined functions: operations, maintenance, nonvehicle (facility) maintenance, and general administration. Over the scope period, costs increased by approximately \$40 million. Vehicle operations increased by \$26.3 million, which was driven by 248,329 hours of additional service. In total, General Administration, Maintenance and Non-Vehicle Maintenance increased by approximately \$14.6 million over the period. Refer to Table 4: Expenses by Mode and Function for detailed expenses by mode and function over the period along with Chart 3 and 4 for graphic depictions of the changes over the period.

**Table 4: 2019 Expense by Mode and Function (\$M)**

Function	MB	DR	YR	CB	Total	CAGR
Vehicle Ops	\$86.96	\$24.82	\$5.88	\$4.77	\$122.4	6.25%
Vehicle Maintenance	\$33.92	\$1.26	\$2.18	\$1.70	\$39.1	1.45%
Facility Maintenance	\$5.49	\$0.07	\$5.93	\$0.34	\$11.8	5.28%
General Administration	\$39.22	\$12.80	\$5.33	\$2.01	\$59.3	4.83%

**Chart 3: 2019 Expense by Mode and Function**



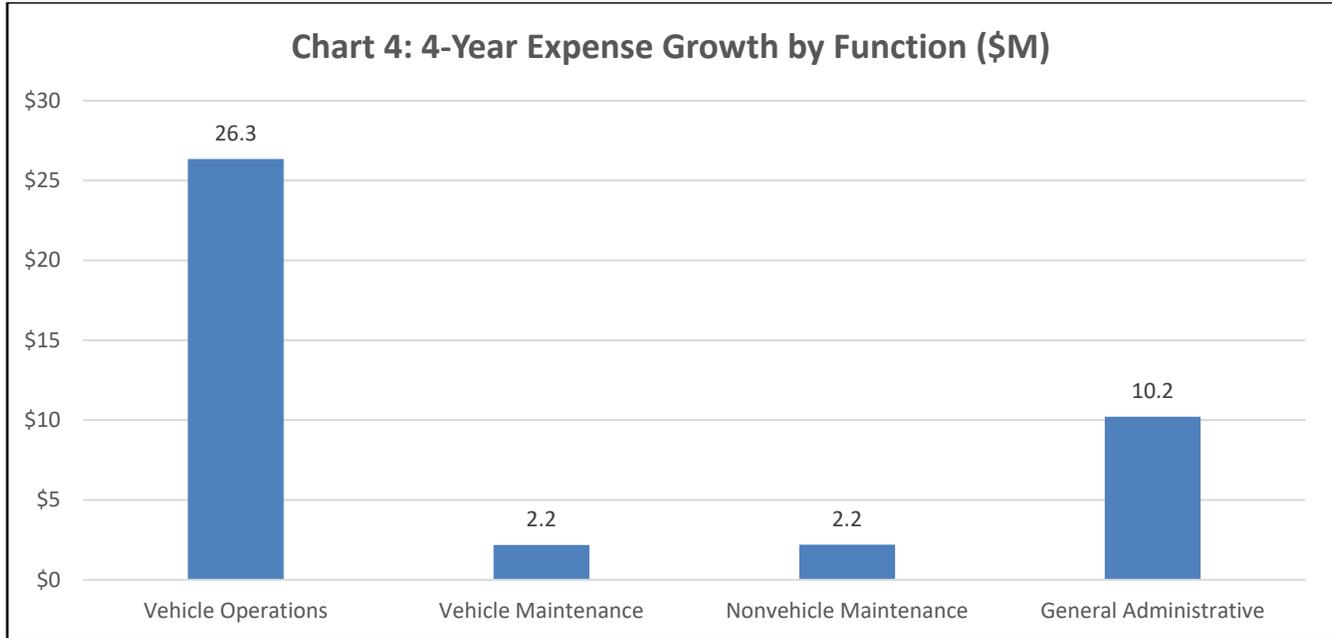
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- d. **Cost by Expense Line Item:** The contracting of services by CapMetro results in PT being the largest line item expense comprising 67% of the total CapMetro budget by the end of the scope period. The second highest expense category is Other Salaries and Wages, which comprises 10.1% of the budget and supports CapMetro staff engaged in executive, administrative, and management activities, including contract management.

The most significant decrease in cost identified was for fuel, which was due to decreasing fuel prices during the period. CapMetro's average fuel and lube expense per mile of service fell \$0.19 during the period, resulting in a \$2.6 million total savings. Refer to Table 5: Authority Expense by Line Item for details on the change in expenses over the period.

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**Table 5: Authority Expense by Line Item, in millions**

Line Item	2016	2017	2018	2019	CAGR
Other Salaries/Wages	20.1	21.8	22.9	23.5	6.60%
Fringe Benefits	12.3	15.7	14.9	15.4	6.72%
Services	18.6	17.1	18.6	18.5	0.74%
Fuel/Lube	13.1	11.2	11.0	12.2	-4.70%
Other Materials/Supplies	3.4	3.5	3.2	1.8	3.55%
Utilities	2.6	2.8	2.8	2.9	3.83%
Casualty/Liability Costs	0.3	0.5	1.3	0.7	-12.28%
Taxes	1.0	1.1	1.1	1.2	2.60%
Purchased Transportation	140.6	140.1	148.5	155.0	6.42%
Miscellaneous Expenses	2.6	1.8	1.4	1.2	-5.41%
Less Deductions	0	0	0	(1.2)	-
Total	214.6	215.6	226.5	231.5	4.83%

- e. **Revenue Hours and Miles:** Revenue hours and miles include the total number of hours or miles of service provided by CapMetro, from first pick-up to last drop-off. However, it does not include the miles travelling to and from the bus depot or the bus stop. In June 2018, CapMetro launched “Cap Remap”, the product of a multi-year planning effort, which added ten new local routes, increased frequency on 12 local routes and added high frequency MetroRapid service and eliminated two unproductive routes. Consequently, all services, with the exception of MetroRail, experienced an increase in revenue hours and miles over the report period. Across all modes, CapMetro increased revenue hours by approximately 250,000 revenue hours and 2.5 million revenue miles by 2019. Refer to Table 6 and Table 7 Revenue Hours/Miles of Service and CAGR by Mode for details on the revenue changes over the period along with Chart 5 for a graphic depiction of the changes.

**Table 6: Revenue Hours of Service and CAGR by Mode**

FY	MB	DR	YR	CB	Total
2016	1,222,015	388,813	12,536	40,182	1,663,546
2017	1,230,076	380,052	12,725	40,364	1,663,217
2018	1,325,923	380,407	13,157	47,486	1,766,973
2019	1,434,961	402,917	12,365	61,632	1,911,875
CAGR 2016-2019	5.40%	1.83%	0.80%	11.32%	4.73%

**Table 7: Revenue Miles of Service by Mode and CAGR**

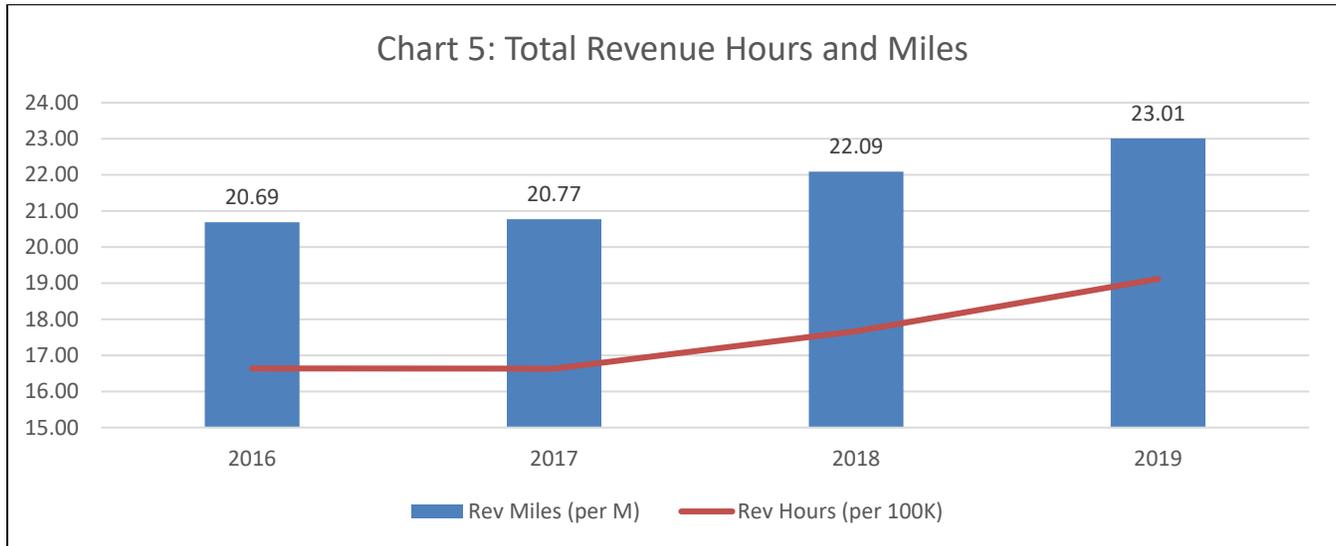
FY	MB	DR	YR	CB	Total
2016	14,475,601	5,174,877	298,379	736,798	20,685,655
2017	14,473,436	5,260,345	301,020	737,780	20,772,581
2018	15,396,804	5,453,261	310,272	928,475	22,088,812
2019	15,952,995	5,617,274	290,764	1,147,318	23,008,351
CAGR 2016-2019	3.32%	2.48%	0.24%	11.30%	3.40%

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- f. **Passenger Trips:** Passenger trips are defined as every time a person boards a bus. Typically, every rider takes two trips – inbound and outbound - or more if there are transfers. In 2019, CapMetro delivered over 31 million trips.<sup>8</sup> Of this, MB trips generated 28.3 million trips, or 93% of all service. DR, YR, and CB modes together generated about 2.1 million trips, or 7% of service.

Across all modes, ridership declined by 3.8 million trips (2.91% annually) over the audit period. A decline in ridership is not unique to CapMetro and public transit ridership in major US cities has been flat or declining over the past few years, with 2015-2018 reflecting the steepest declines. The ridership declines were steepest for MB over a two-year period ending 2017. By 2019, the trend had reversed, and ridership began to grow again across all modes with the exception of YR, which continued to experience a decline in ridership due to the closure and construction of the new Downtown Station which began in April 2019. The positive trend in ridership experience in last 2018 and 2019 was due to CapMetro implementing CapRemap in June 2018. Since then, CapMetro has had significant growth in ridership which averaged 103,300 trips per month between June 2018 and September 2019.<sup>9</sup> Refer to Table 8: CapMetro Passenger Trips by Mode for details on the changes over the period and Chart 6 for a graphical depiction of the data presented.

**Table 8: CapMetro Passenger Trips by Mode, in Millions**

FY	MB	DR	YR	CB	Total
2016	28.59	0.68	0.81	0.54	30.62
2017	27.30	0.67	0.82	0.53	29.32
2018	26.88	0.68	0.81	0.61	28.98
2019	28.31	0.71	0.73	0.78	30.53
CAGR 2016-2019	-3.21%	1.13%	-3.27%	7.44%	-2.91%

<sup>8</sup> Total includes vanpool, which is excluded from tables.

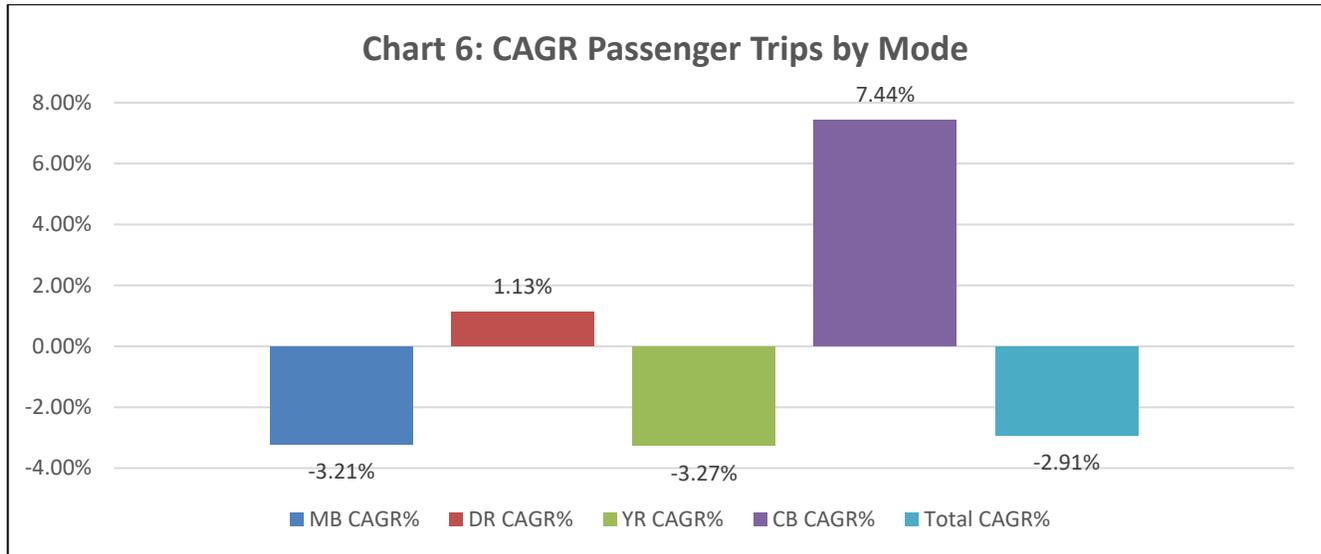
<sup>9</sup> Graehler, M. & Mucci, R. (2019), Understanding the Recent Transit Ridership Decline in Major US Cities: Service Cuts or 2 Emerging Modes? Transportation Research Board Annual Conference.

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## Performance Indicators and Results

The following are the performance indicators evaluated and the corresponding results identified for each of the performance indicators prescribed within Chapter 451 of the Texas Transportation Code:

### 1. Annual Operating Cost by Trip

Operating cost per passengers provide an assessment of the transit system's overall performance over the year in cost-effectiveness terms.<sup>10</sup>

**Chapter 451 Texas Transportation Code Definition:** *The authority's costs of providing public transit service, including purchased transit service not performed by the authority, but excluding costs associated with depreciation, amortization and capitalized charges, charter bus operations, and coordination of carpool and vanpool activities. The number of passengers is equivalent to the number of all trips, including transfers, but excludes charter passengers and carpool and vanpool passengers whose trips are only coordinated by the authority.*

$$\text{Cost per Passenger} = \frac{\text{Operating Cost}}{\text{Passenger Trips}}$$

Authority-wide, the average cost per passenger trip grew 7.92% annually to \$7.60; which was largely driven by a \$40.3 million increase in total operating cost from the addition of 248,329 hours of service from the CapRemap initiative to improve route efficiency, which decreased the number of trips by 3.8 million trips from the EOY 2015 to EOY 2019. Refer to Table 9: Cost per Passenger Trip and CAGR for details on the changes over the period along with Charts 7, 8, and 9 for graphic depictions of the data presented.

<sup>10</sup> Transit Cooperative Research Program (TCRP) Report 88, *A Guidebook for Developing a Transit Performance-Measurement System*, published by the Transportation Research Board (TRB), served as the reference for performance indicator definitions and purposes. Downloaded from <http://www.trb.org/Main/Home.aspx>.

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**Table 9: Cost per Passenger Trip and CAGR**

FY	MB	DR	YR	CB	Average
2016	\$5.10	\$58.89	\$28.62	\$9.45	\$7.00
2017	\$5.34	\$62.49	\$26.37	\$10.25	\$7.33
2018	\$5.75	\$60.46	\$28.58	\$12.06	\$7.80
2019	\$5.84	\$55.10	\$26.48	\$10.77	\$7.60
CAGR 2016-2019	8.82%	-0.83%	10.51%	6.90%	7.92%

The following are details regarding the cost per passenger by mode:

**MB: \$5.84/Trip:**

Higher volume reduced the cost for MB, which operates 12 times the trip volume of all other services combined. For example, CapMetro operates over 300 MB vehicles daily compared to only 35 CB vehicles.

**DR: \$55.10/Trip:**

DR is required by law and restricted to passengers who are eligible under the Americans with Disabilities (ADA) Act. Although the service can be shared between unrelated riders, most trips are for a single individual. The limited ability to provide a trip for more than one person, along with cost to manage demand and ensure compliance with the ADA, increases the cost of this service.

**YR: \$26.48/Trip**

Over the scope period, YR trips decreased 3.27% annually but revenue hours remained flat. This increased the cost of a trip from \$17.76 at the end of FY 2015 to \$26.48 by the end of FY 2019. However, operating costs decreased \$3.7 million from 2016 to 2019 (\$23 million to \$19.3 million).<sup>11</sup> YR ridership decreased in 2019 while other modes experienced a reverse in ridership declines. This was due to the elimination of all weekend service for the last five months of FY 2019 along with the closure and construction of the new Downtown Station, beginning June 2019. With the closure of the flagship station, commuters were required to catch a connector bus to bring them downtown. This additional trip caused some riders to stop using the service. Once CapMetro has completed improvements, the new station will have additional capacity and the anticipated increase to ridership would be reflected during the next quadrennial performance audit period.

**CB: \$10.77/Trip**

The cost of a CB trip increased from \$8.25 per trip at the end of FY 2015 to \$10.77 per trip by the end of FY 2019. The annual growth rate was 6.90%.

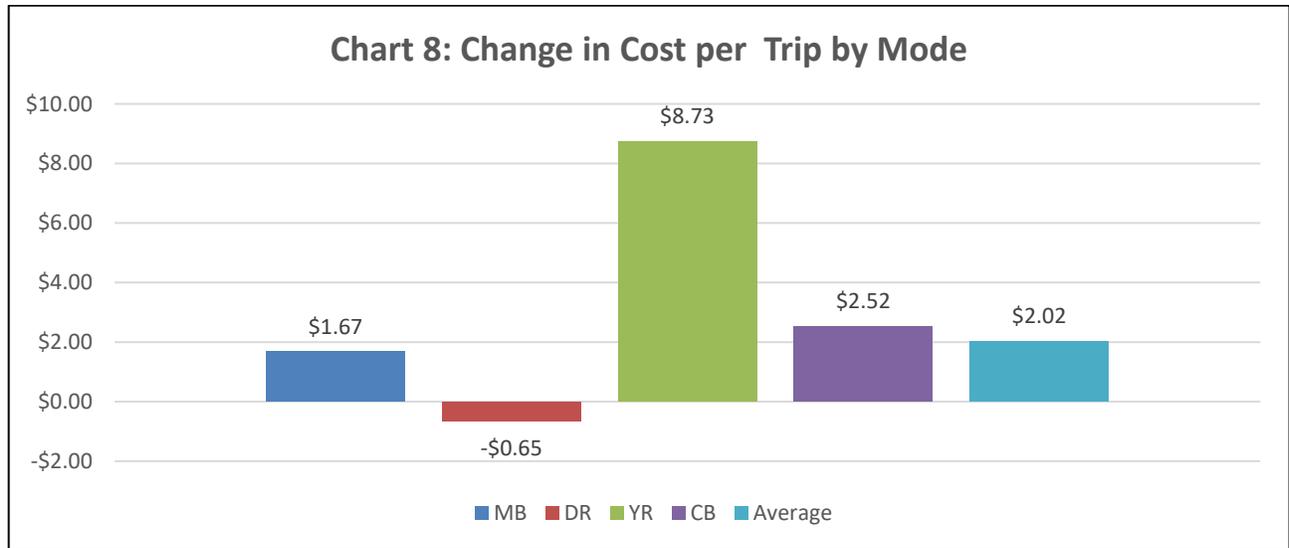
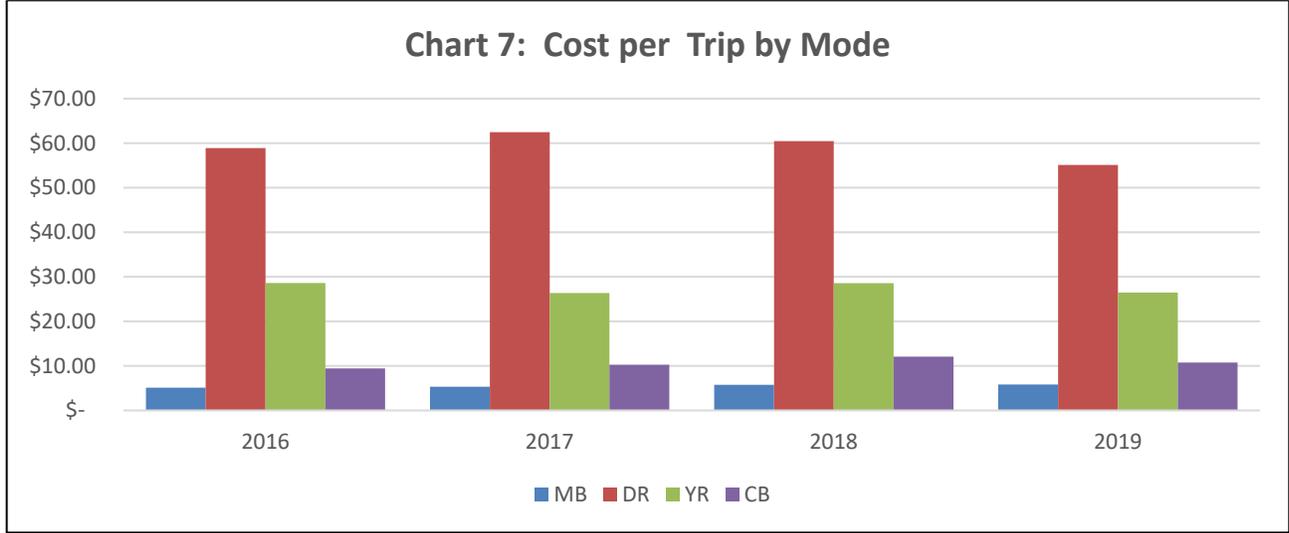
<sup>11</sup>Total GA function costs stayed consistent throughout the period and were shifted from YR to MB and CB modes.

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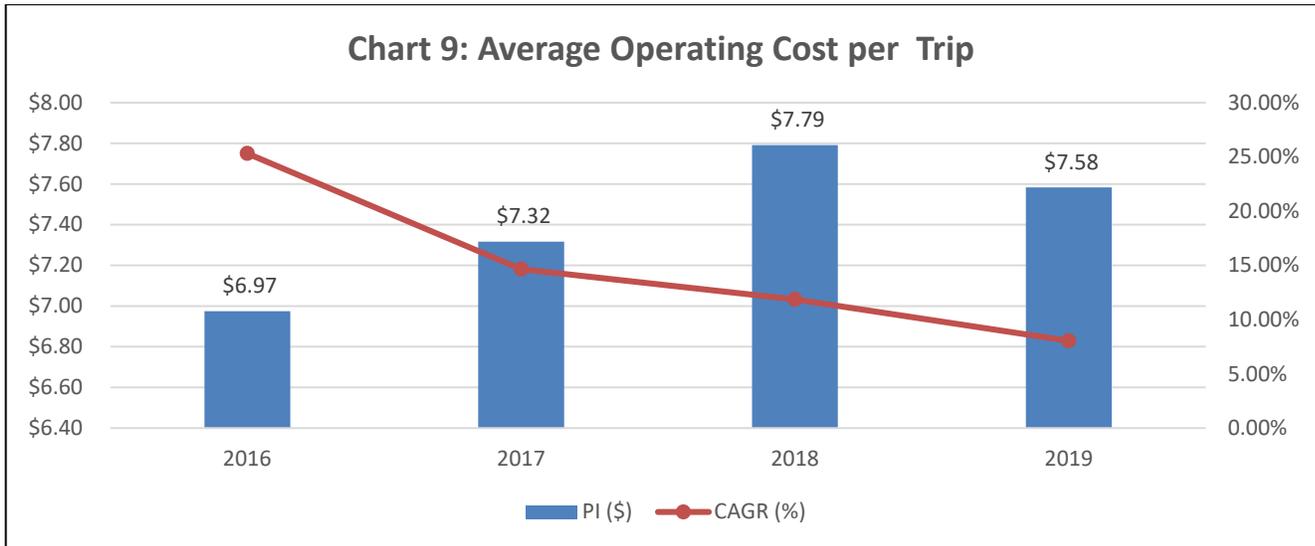


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## 2. Operating Cost per Revenue Hour (Cost per Hour)

Operating Cost per Revenue Hour is a measure of cost efficiency and not related to how much service is consumed. This measure reflects how much service output (revenue hours) the system provides against the cost of producing the service.

**Chapter 451 Texas Transportation Code Definition:** *The operating cost per revenue hour is computed by dividing the annual operating cost by the total of scheduled hours that authority revenue vehicles are in revenue service for the same period.*

$$\text{Cost per Hour} = \frac{\text{Operating Cost}}{\text{Revenue Hours}}$$

Operating Cost per Hour remained relatively flat during the period, growing only 0.16% annually. This measure reflects that CapMetro is efficient at deploying service on the street, regardless of where the service is going or how many people ride it. Refer to Table 10: Operating Cost per Hour and CAGR for details on the changes along with Chart 10 for a graphic depiction of the results.

**Table 10: Operating Cost per Hour and CAGR**

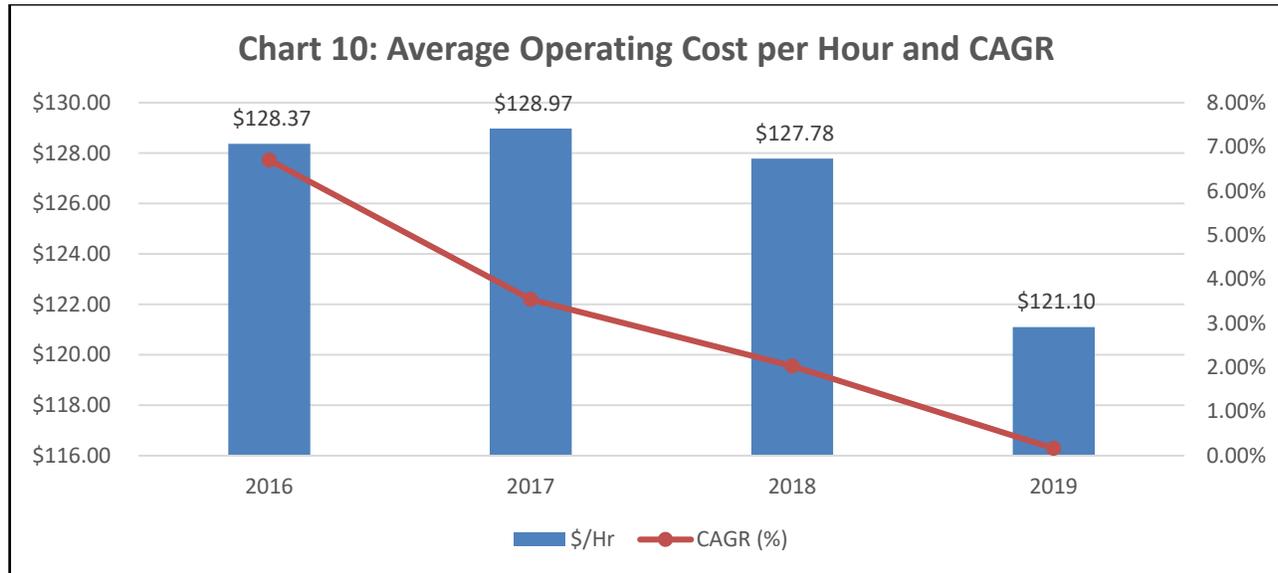
FY	MB	DR	YR	CB	Average
2016	\$119.35	\$101.59	\$1,840.81	\$127.51	\$128.37
2017	\$118.52	\$109.38	\$1,709.25	\$133.95	\$128.97
2018	\$116.53	\$106.97	\$1,762.14	\$155.93	\$127.78
2019	\$115.15	\$95.72	\$1,562.44	\$136.30	\$121.10
CAGR 2016-2019	-0.08%	-1.50%	6.05%	3.17%	0.16%

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### 3. Operating Cost per Revenue Mile (Cost per Mile)

Cost per Mile is a cost efficiency measure. Revenue miles is defined as the number of miles traveled by authority revenue vehicles while in revenue service.

**Chapter 451 Texas Transportation Code Definition:** The operating cost per revenue mile is computed by dividing the annual operating cost by the total of scheduled miles that authority revenue vehicles are in service for the same period.

$$\text{Cost per Mile} = \frac{\text{Operating Cost}}{\text{Revenue Miles}}$$

Operating Cost per Mile remained relatively flat during the period, growing 1.34% annually. This measure reflects that CapMetro is efficient at deploying service on the street, regardless of where the service is going or how many people ride it. Refer to Table 11: Operating Cost per Mile by Mode details on the changes along with Chart 11 for a graphic depiction of the results.

**Table 11: Operating Cost per Mile by Mode**

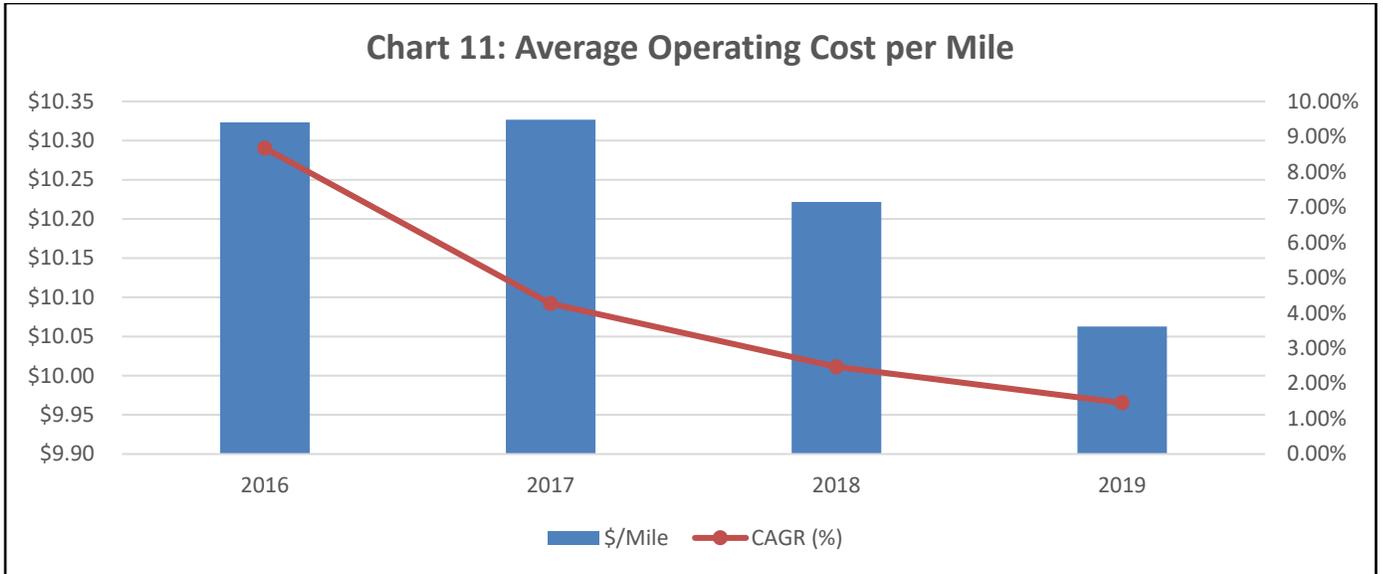
FY	MB	DR	YR	CB	Average
2016	\$10.08	\$7.63	\$77.34	\$6.95	\$10.32
2017	\$10.07	\$7.90	\$72.26	\$7.33	\$10.33
2018	\$10.03	\$7.46	\$74.72	\$7.97	\$10.22
2019	\$10.36	\$6.87	\$66.44	\$7.32	\$10.06
CAGR 2016-2019	1.94%	-1.61%	6.66%	3.19%	1.45%

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#### 4. Sales and Use Tax Receipts per Passenger (Tax Receipts per Passenger)

This performance indicator describes how CapMetro is performing its core functions in a cost-effective manner by measuring local subsidy per passenger. Tax Revenue means sales and use taxes received by the Authority.

**Chapter 451 Texas Transportation Code Definition:** The sales and use tax receipts per passenger are computed by dividing the annual receipts from authority sales and use taxes by passenger trips for the same period.

$$\text{Tax Receipts per Passenger} = \frac{\text{Tax Revenue}}{\text{Passenger Trips}}$$

Table 12: Tax Receipts per Passenger (All Modes)

FY	Total
2016	\$7.23
2017	\$7.79
2018	\$8.40
2019	\$8.57
CAGR 2016-2019	8.75%

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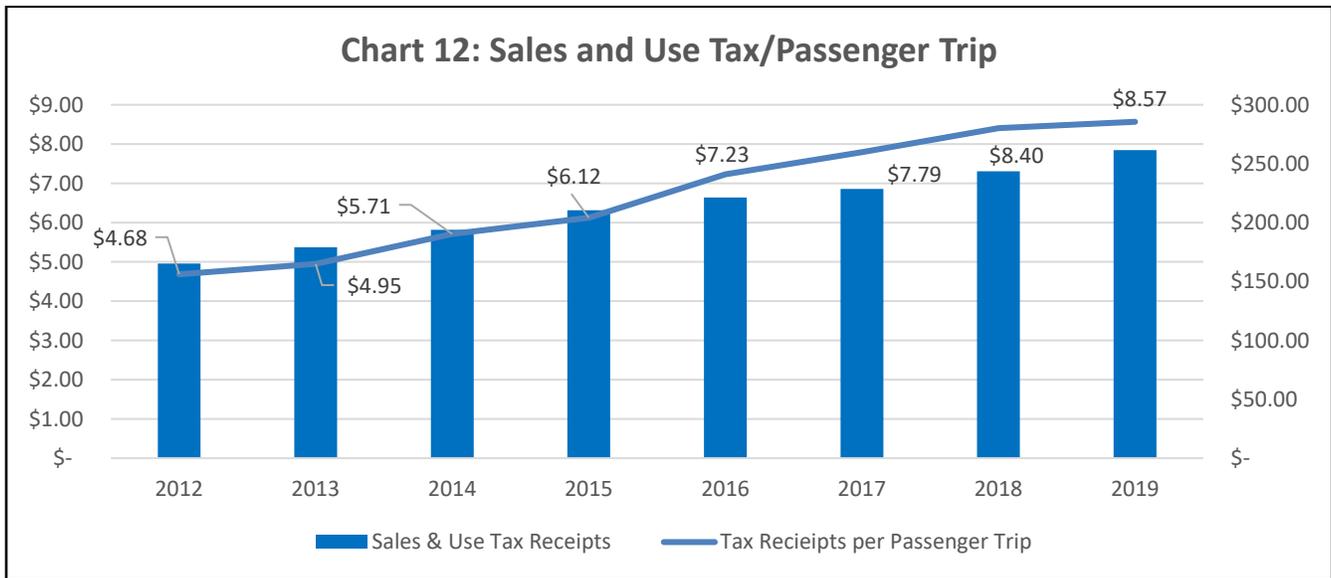
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As an agency with taxing authority, CapMetro relies primarily on sales tax receipts to fund its operations.<sup>12</sup> CapMetro receives \$0.01 cent of the \$0.825 sales tax collected from participating municipalities: Austin, Jonestown, Lago Vista, Leander, Manor, Point Venture, and San Leanna and some unincorporated parts of Travis and Williamson counties. CapMetro does not collect sales tax from West Lake Hills, Rollingwood, Cedar Park, Pflugerville, or Volente; and consequently, does not provide transit services to these communities.

Sales tax revenues grew at an annual rate of 8.75%. During this same period, the population grew at an annual rate of 1.5%. The difference between these two rates may be due, in part, to the growth of Austin tourism activity during the period. Between 2016 and 2019, total direct spending on traveling grew \$1.6 billion and by 2019, it is estimated that CapMetro was receiving an additional \$2.9 million, or an additional \$0.09 per passenger trip.<sup>13</sup> Refer to Table 12: Tax Receipts per Passenger for details on the changes along with Chart 12 for a graphic depiction of changes to Sales and Use Tax Receipts and Tax Receipts per Trip.



### 5. Fare Recovery Rate (Fare Recovery)

The Fare Recovery rate is a measure of cost effectiveness. The farebox recovery rate and operating ratio are used to strike a balance between keeping transit service affordable and having riders cover as much of the costs as possible.

**Chapter 451 Texas Transportation Code Definition:** The fare recovery rate is computed by dividing the annual revenue, including fares, tokens, passes, tickets, and route guarantees, provided by passengers and sponsors of passengers of revenue vehicles, by the operating cost for the same period. Charter revenue, interest income, advertising income, and other operating income are excluded from revenue provided by passengers and sponsors of passengers.

$$\text{Fare Recovery} = \frac{\text{Fare Revenue}}{\text{Operating Cost}}$$

<sup>12</sup> Federal funding is used primarily to fund capital expenditures

<sup>13</sup> Office of the Governor,

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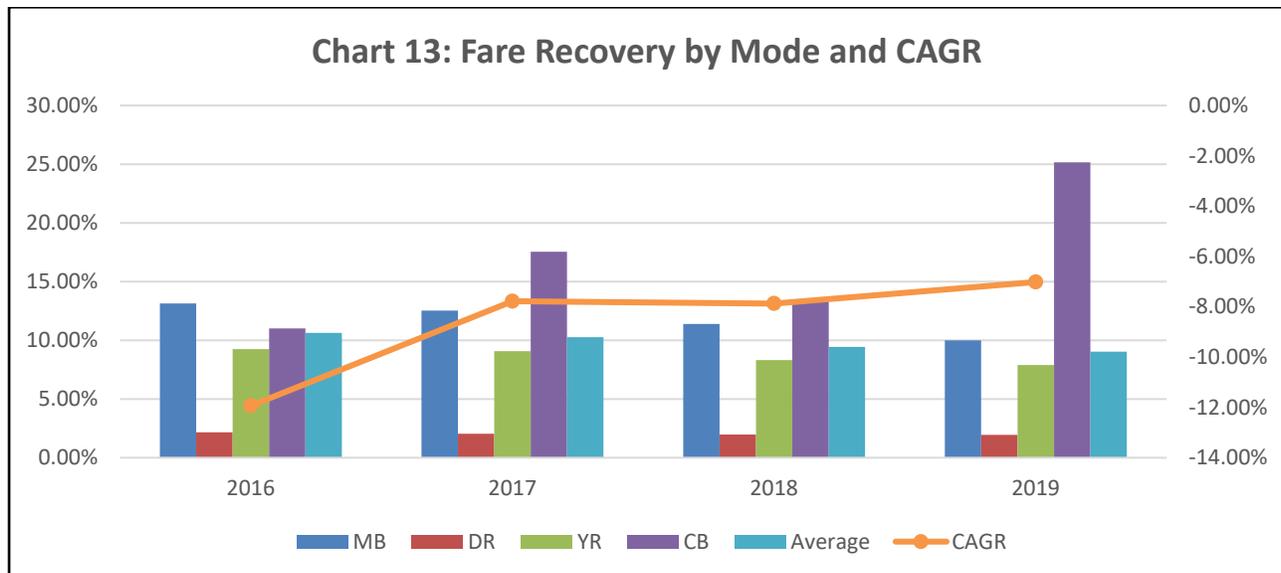
By industry standards, CapMetro Fare recovery is low at less than 10% of its costs. CapMetro has recognized that fare recovery is an area for improvement and was reporting in its 2016 Capital Metro Service Review, as follows:

*This is an extremely low number, needing improvement to contribute funding to new service and maintain fiscal sustainability. Increasing fares now would be counterproductive and should wait until the customers and public recognize the much greater value and competitiveness resulting from the implementation of Connections 2025. However, the other elements in raising farebox revenue – carrying more riders per revenue hour (effectiveness) and advantageously using vehicle and labor resources (efficiency) – need to be central themes in Connections 2025.*<sup>14</sup>

Refer to Table 13: Fare Recovery Rate for details on the changes over the period along with Chart 13 for a graphic depiction of DR Operating Cost per Trip and CAGR.

**Table 13: Fare Recovery Rate**

FY	MB	DR	YR	CB	Average
2016	13.14%	2.17%	9.26%	11.02%	10.64%
2017	12.53%	2.05%	9.08%	17.54%	10.27%
2018	11.39%	1.97%	8.32%	13.41%	9.44%
2019	10.00%	1.94%	7.90%	25.16%	9.03%
CAGR 2016-2019	-8.63%	-3.38%	-17.20%	24.61%	-7.02%



<sup>14</sup> Connections 2025, CapMetro System and Service Review and Evaluation. <http://connections2025.org/>. Accessed November 13, 2020.

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## 6. Average Vehicle Occupancy (Vehicle Occupancy)

Vehicle Occupancy is a measure of system productivity and allows comparisons between different modes by describing the number of persons moved.

**Chapter 451 Texas Transportation Code Definition:** *The average vehicle occupancy is computed by dividing the annual passenger miles by the number of miles traveled by authority revenue vehicles while in revenue service for the same period. The annual passenger miles are computed by multiplying the annual passenger trips and the average distance ridden by passengers during the same period.*

$$\text{Vehicle Occupancy} = \frac{\text{Passenger Miles}}{\text{Revenue Miles}}$$

Revenue miles increased 2.5% annually over the same period. This increase coupled with a 3.9% annual decrease to PMT drove a reduction in vehicle occupancy. As a result, there was a 7.03% annual decrease in vehicle occupancy over the scope period.

The following provides context to the performance figures presented in Table 14: Vehicle Occupancy by Mode and Chart 14: Average Vehicle Occupancy:

- MB service experienced the largest decrease in vehicle occupancy, which was due to 1.5 million additional miles of service coupled with decreasing ridership.
- CB service typically reflects higher vehicle occupancy than MB service. Commuters typically travel during AM and PM peak periods and passenger trips tend to remain relatively consistent from day-to-day. Consistent rider behavior enables an agency to maximize the productivity of scheduled service.
- DR service typically reflects very low vehicle occupancy since it is a curb-to-curb service restricted to only ADA-eligible riders.
- YR service typically reflects very high vehicle occupancy since rail can operate multiple passenger cars per revenue mile.

**Table 14: Vehicle Occupancy by Mode**

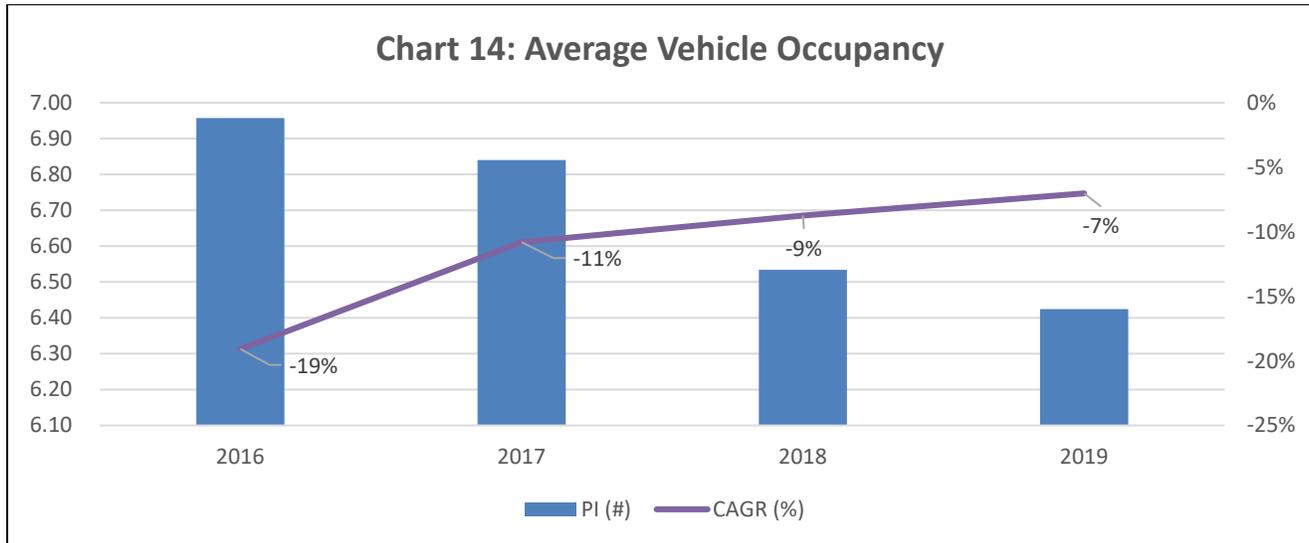
	MB	DR	YR	CB	Average
2016	8.05	1.04	44.38	11.96	6.96
2017	8.00	1.05	43.30	10.44	6.84
2018	7.54	1.03	39.54	11.19	6.53
2019	7.27	1.07	38.48	12.81	6.42
CAGR 2016-2019	-8.44%	1.21%	-4.80%	-0.05%	-7.03%

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## 7. On-time Performance (OTP)

On-time performance (OTP) is a measure of system reliability. Depending on the mode, a transit vehicle is considered “on time” if it departs a location within a certain number of minutes after and/or before the scheduled time. Many agencies consider an early departure not to be on time. From a passenger point of view, an early departure means a wait for the next vehicle.

**Chapter 451 Texas Transportation Code Definition:** On-time performance is computed by determining an annual percentage of revenue vehicle trips of revenue vehicles that depart from selected locations at a time not earlier than the published departure time and not later than five minutes after that published time.

*Motor Bus OTP = Average Bus OTP*

*Hybrid Rail OTP = Data for One Line*

MB, YR, and CB modes operate according to a published schedule available to its riders. OTP changed less than one percent for MB, DR, and YR modes over the scope period. However, CB experienced declining OTP at an annual rate of 2.57%.

**Table 15: On-Time Performance by Mode**

	MB	DR	YR	CB
2016	81.15%	93.86%	95.97%	77.50%
2017	82.47%	93.85%	97.65%	82.00%
2018	84.45%	92.39%	96.54%	85.57%
2019	84.16%	90.34%	97.21%	81.46%
CAGR 2016-2019	-0.85%	-0.26%	0.08%	-2.57%

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The local and express services reflected an 84% and 81% OTP respectively in 2019. CapMetro policy is buses that operate according to a published schedule are considered on-time if they depart a designated timepoint between 0 seconds earlier or 6 minutes later than scheduled. Buses should never depart a timepoint ahead of schedule unless given explicit permission to do so.<sup>15</sup>

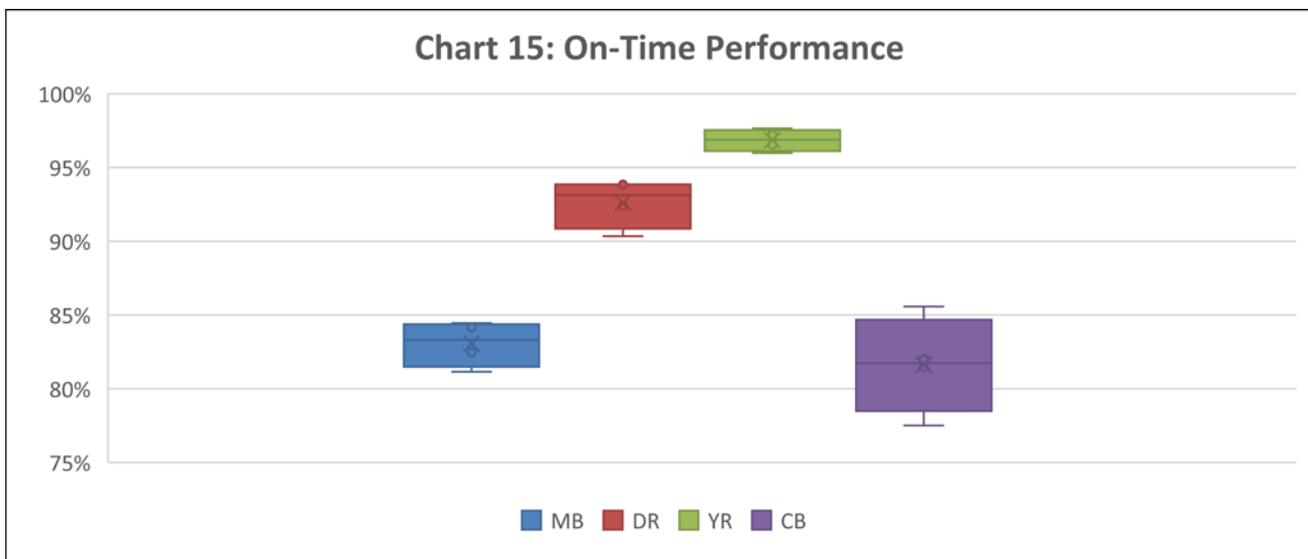
Frequency-based services (MetroRapid) do not operate according to a fixed schedule but rather react to what the bus in front of it is doing. For example, if a bus is supposed to arrive every 12 minutes, it is late if it is more than 50% of the frequency period, or in this example, 6 minutes. MetroRapid reflects the best OTP performance for bus at 85%. OTP performance is improved because the system has limited stops and uses strategies such as signal prioritization to help move buses through stop lights more efficiently.

DR is an on-demand service and, as such, has no published times. However, CapMetro has a policy for OTP that it applies to DR. All riders are given a 30-minute pick-up window; if the vehicle arrives after that window closes, the trip is considered late. Between FY16 and FY18, DR reflected 93.37 % OTP. However, in FY19 the OTP performance decreased to 90.34%. This decrease was attributed to a software failure of the Trapeze system following the implementation of software upgrades. The software failure caused delays in timely scheduling which resulted in declines in OTP.

YR is the most reliable, with an average OTP of 96.84%. Because rail operates along a fixed, dedicated guideway, it can eliminate variables such as traffic congestion or accidents that can result in late trips.

CB experienced the largest decline in OTP at 2.57% annually. This is due to increased congestion along the major corridors used by commuters. According to the Texas Transportation Institute 2019 Mobility Report, Austin ranked among the worst cities for hours delay and travel reliability.<sup>16</sup>

CapMetro maintains a Reliability Dashboard that reports OTP for all services where readers can access data by month, service type, and route.<sup>17</sup> Refer to Chart 15: On-Time Performance for a graphical depiction of the OTP results.



<sup>15</sup> CapMetro definition of OTP is not consistent with Chapter 451 definition. CapMetro considers vehicles that arrive after six minutes from the published time as late. This report reflects statistics per CapMetro definition.

<sup>16</sup> Texas Transportation Institute 2019 Mobility Report. [static.tti.tamu.edu/tti.tamu.edu/documents/mobility-report-2019.pdf](https://static.tti.tamu.edu/tti.tamu.edu/documents/mobility-report-2019.pdf).

<sup>17</sup> <https://www.CapMetro.org/reliability-stats>

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## 8. Accidents per 100,000 Miles (Accident Rate)

Accident rate is a Customer/Quality of Service performance indicator that provides an assessment of a transit system's safety and security. Safety and security issues are relevant to passenger confidence and to the control of liability and insurance costs of services.

**Chapter 451 Texas Transportation Code Definition:** *The number of accidents per 100,000 miles is computed by multiplying the annual number of accidents by 100,000 and dividing the product by the number of miles for all service, including charter and nonrevenue service, directly operated by the authority for the same period. In this subsection, "accident" includes:*

- a collision that involves an authority's revenue vehicle, other than a lawfully parked revenue vehicle, and that results in property damage, injury, or death; and
- an incident that results in the injury or death of a person on board or boarding or alighting from an authority's revenue vehicle.

$$\text{Accident Rate} = 100,000 \text{ mi} \cdot \frac{\text{Accidents}}{\text{Service Miles}}$$

In the prior quadrennial audit report performed (FY 2012 – 2015), the NTD definition for “reportable events” was treated as equivalent to “accident” and the NTD data was used in the calculation.<sup>18</sup> Because CapMetro did not directly operate any service between 2016 and 2019, this PI should not be reported to the State; however, it is included in this report for the benefit of CapMetro management.

- MB and DR accident rates decreased at an annual rate of 4.45% and 2.14% respectively. MB reflected 0.90 accidents and DR reflected 0.37 per 100,000 miles.
- CB reported three injuries in 2019. No events were reported in prior periods.
- YR reflected the highest accident rate at 2.27 per 100,000 miles.

<sup>18</sup> The NTD does not include a definition of “accident.” The NTD requires transit agencies to report “reportable events” that meet a detailed threshold, depending on mode (Bus, Commuter Bus): Estimated property damage equal to or more than \$25,000; Any damage or harm to persons that requires immediate medical attention away from the scene; Fatality, including suicides. Rail is same as non-rail but includes events occurring at rail grade crossing, right of way and rail car collisions. Rail accidents are reported to the Federal Rail Administration. Prior period audit reporting included incidents on both passenger and freight rail. The current audit period only reflects accidents that occurred on the passenger rail system.

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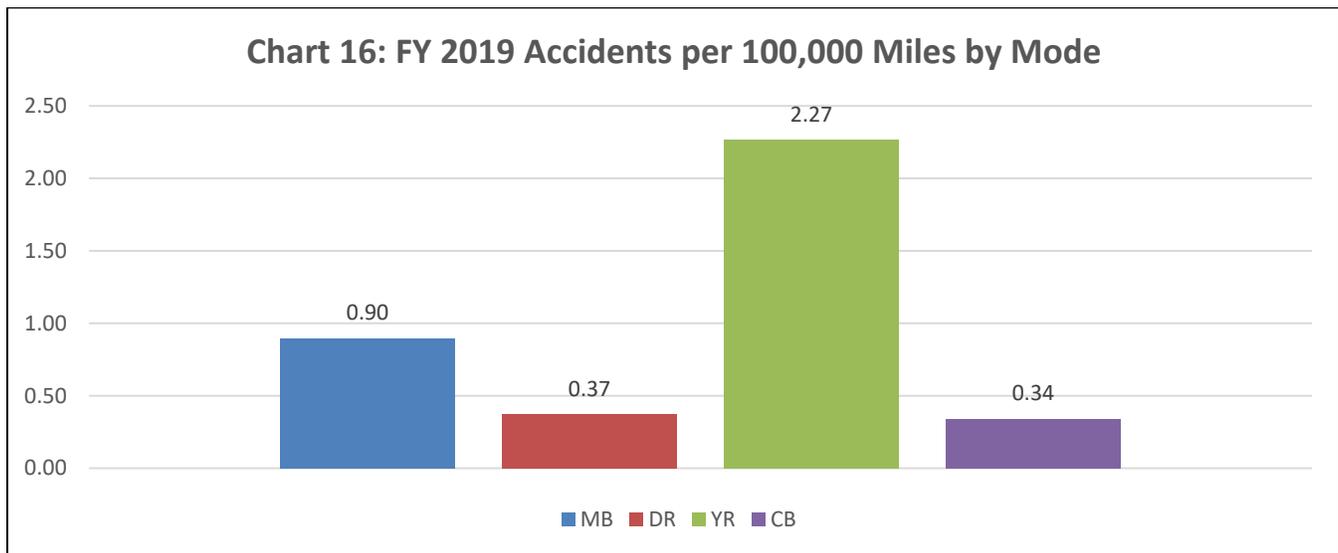
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Refer to Table 16: Accident Rate per 100,000 Miles by Mode for details regarding the changes over the period. Also, refer to Chart 16 for a detailed depiction of accident per 100,000 Miles by Mode for the FY19.

**Table 16: Accident Rate per 100,000 Miles by Mode**

	MB	DR	YR	CB	Total
2016	0.89	0.18	1.49	0.00	0.89
2017	0.87	0.45	0.59	0.00	0.87
2018	0.93	0.21	1.78	0.00	0.93
2019	0.90	0.37	2.27	0.34	0.90
CAGR 2016-2019	-4.45%	-2.14%	-49.73%	-	-4.45%



## 9. Miles between Mechanical Road Calls

The miles between road calls is a measure of service reliability and provides a way to monitor the quality of the vehicle maintenance program and the general state of repair of the fleet.

**Chapter 451 Texas Transportation Code Definition:** The number of miles between mechanical road calls is computed by dividing the annual number of miles for all service directly operated by an authority, including charter and nonrevenue service, by the number of mechanical road calls for the same period. In this subsection, "mechanical road call" means an interruption in revenue service that is caused by revenue vehicle equipment failure that requires assistance from a person other than the vehicle operator before the vehicle can be operated normally.

$$\text{Miles Between Road Calls} = \frac{\text{Service Miles}}{\text{Road Calls}}$$

CapMetro did not directly operate service during the audit scope period. However, the PI is provided for management reference.

# Capital Metropolitan Transportation Authority

## FY 2016–2019 Quadrennial Performance Audit Report

### Task 3 – Performance Indicator Review

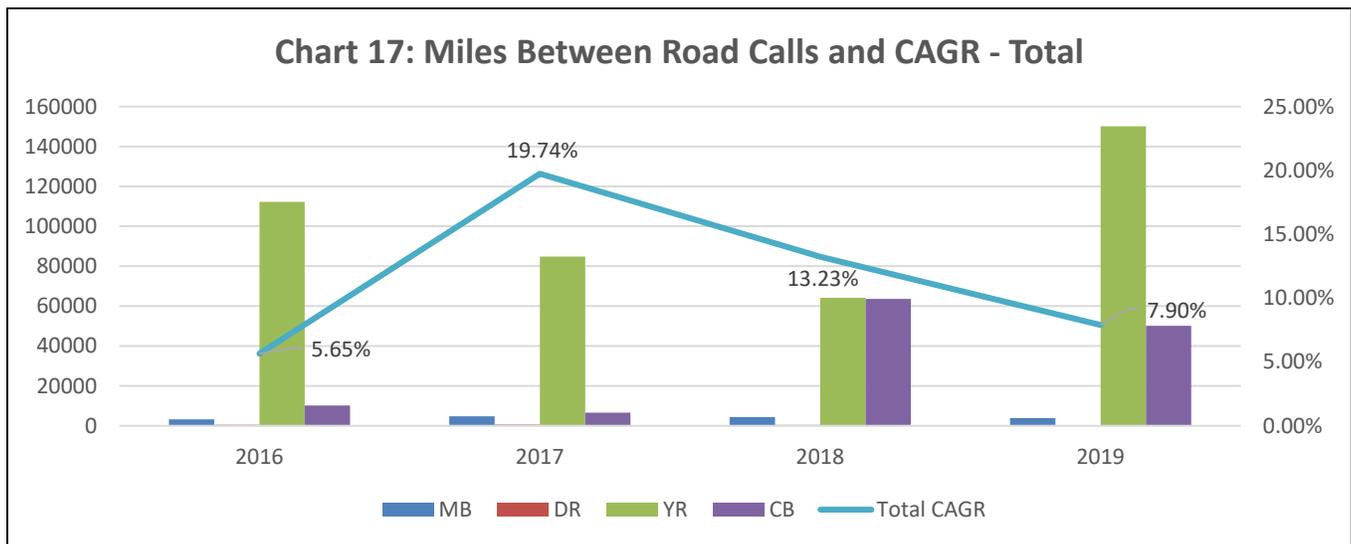
Report Date: January 8, 2021

- MB Miles between Road Calls increased at 7.23% annually; that is, CapMetro was operating more miles every year before either a major mechanical or other mechanical event interrupted service.
- DR Miles between Road Calls decreased at 2.81% annually; that is, CapMetro was operating fewer miles every year before either a major mechanical or other mechanical event interrupted service.
- YR Miles between Road Calls increased 92.98%. At the end of 2015, CapMetro was reporting an average of 10,823 miles between road calls. By the end of 2019, that figure had increased to 150,117.
- CB Miles between Road Calls increased by 52.18%. At the end of 2015, CapMetro was reporting an average of 9,344 miles between road calls. By the end of 2019, that figure had increased to 50,120.

Refer to Table 17: Miles Between Road Calls by Mode for details regarding the change over the period and Chart 17 for a graphical depiction of the results.

**Table 17: Miles Between Road Calls by Mode**

	MB	DR	YR	CB	Average
2016	3212	487	112213	10176	4210
2017	4709	576	84804	6599	5713
2018	4346	446	64149	63632	5786
2019	3882	387	150117	50120	5401
CAGR 2016-2019	7.23%	6.22%	92.98%	52.18%	7.90%



# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report

Task 3 – Performance Indicator Review

Report Date: January 8, 2021

## Recommendations for Management

From the procedures performed, we did not identify areas of non-compliance with Chapter 451 of the Texas Transportation Code, or a lack of effective controls and oversight, or where performance did not meet established expectations. However, recommendations for management were identified where considerations for enhancement to internal controls, processes, procedures, efficiency and effectiveness of operations or improvement to the management of the authority. The following recommendations were identified for Task 3 and provided to management for consideration. However, due to the nature of the recommendations, formal management responses and anticipated action plans are not required.

### 1. Increase of Fares

CapMetro fare recovery is low at approximately 10% of its costs and declined across all modes except for Commuter Bus. Addressing low fare recovery in an environment of declining ridership would be counterproductive. However, as ridership recovers, fare increases may be warranted and should be further evaluated. Management, in coordination with the Board of Directors, should continue to review and evaluate its fare policy and pricing model annually and provide recommendations for adjustments that take into consideration the impacts to the community and customer demographics. Additionally, Management should consider the impact of the unlimited monthly MetroAccess pass on fare recovery and identify alternative options that are favorable to the community while increasing fare recovery.

### 2. Documentation of Data Reporting and Validation Process

The sampling and data validation process reflected consistent reporting across all modes, with the exception of Demand Response (DR) revenue miles, hours, and passenger trips for 2016, 2017, and 2018, which was due to data collection and storage being performed within OMO. The loss of the staff person in charge of the collection efforts resulted in gaps in the process documentation to capture and validate revenue mile and hour reporting for all modes. Although the data was able to be verified and interpreted for the review, improvement to the documentation and storage of data reporting and validation by the appropriate department will ensure accurate records for the future. Management should consider formalizing processes for maintaining documentation and the storage of data reporting and validation within the Demand Response Oversight Department. The storage of the documentation should also be accessible to Management to ensure information is not lost due to turnover.

# Appendices

# Appendix A

## Task 1 – In-Scope Department Staffing and Budget Summary

**Capital Metropolitan Transportation Authority**  
 FY 2016–2019 Quadrennial Performance Audit Report  
 Appendix A: Task 1 – Administration and Management of the Authority  
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Capital Metropolitan Transportation Authority Department Details			Budget to Actual Department Expenses							
			2016		2017		2018		2019	
No.	Department	Description	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
1	Bus Contract Operations	<b>Merged with Operations &amp; Maintenance Oversight in FY19.</b> Serves to segregate costs for each private fixed-route service contractors. Costs related to MetroBus, MetroExpress, Rural Services, and UT Shuttle routes. Contractors: CARTS, MV Transportation, McDonald Transit Associates.	116,712,981	112,535,301	122,571,086	111,446,790	122,050,227	-	-	-
2	Demand Response Oversight (formerly Paratransit Contract Ops)	<b>Renamed in FY18.</b> Oversees each of Capital Metro’s paratransit services contractors. Costs related to contracted paratransit services compliant with the ADA are budgeted in this department. To enhance customer service delivery, the Paratransit Administration department has merged with the Demand Response Oversight department.	27,911,146	28,037,441	30,565,018	28,512,724	30,824,079	28,396,159	26,796,248	26,647
3	Operations & Maintenance Oversight (formerly Bus and Paratransit)	<b>Renamed in FY18. Absorbed Bus Contract Operations in FY19.</b> Responsible for coordinating the operations and activities of all CapMetro service providers for bus services. This includes coordination of contract management, data collection and analysis and quality assurance activities for both vehicle operations and vehicle maintenance.	4,178,466	3,669,425	3,913,803	115,017,941	125,920,938	122,937,945	134,043,021	134,458
4	Paratransit Administration	<b>Merged with the Demand Response Oversight department in FY19.</b> Previously, managed all aspects of paratransit: Reservations, Control Center, Contracts Operations, Eligibility, also directly responsible for federal reporting on all paratransit related items.	377,059	282,944	359,812	304,458	358,550	-	-	-
5	Paratransit Eligibility	Manages the eligibility certification process, and promotes fixed-route use by providing training to people with disabilities and seniors.	1,022,728	897,304	946,537	897,780	930,716	879,804	948,344	866
6	Paratransit Reservations and Control Center	Includes the MetroAccess call center, dispatch, scheduling and customer service. Processes advance trip reservations, cancellations, inquiries, subscription service requests and group trips. This team manages and coordinates service through contracted providers. Also responsible for all customer service and outreach efforts for MetroAccess.	1,759,576	1,562,300	1,804,043	1,669,373	1,833,730	1,821,805	1,937,727	1,907
7	Rail Commuter Operations	Provides management and oversight of commuter rail service between Leander and downtown Austin. The mission entails the provision of safe and efficient public transportation for the community. The commuter service operates ten commuter trains out of one operations facility in Central Austin, along 32 miles of track that services nine stations along this right-of-way. Also manages the positive train control (PTC) contract, rail operations strategic planning, rail operations regulatory compliance and risk reduction through post-incident analysis. Has absorbed the Rail Compliance department in FY19.	20,349,744	18,487,130	19,915,539	16,003,835	18,308,890	17,165,573	19,666,981	14,707
8	Rail Freight Management	Responsible for managing and preserving Capital Metro’s railroad assets used for transportation of freight and for transit use. Currently, the department manages approximately 162 miles of railroad right-of-way between Giddings and Llano. Management of the Giddings-Llano rail line is accomplished through a rail freight operator, whose responsibility is to fulfill the common carrier obligations by providing freight service to shippers along the line, as well as implementing marketing strategies to maximize revenue while providing efficient freight service.	747,897	391,701	1,521,485	1,669,241	1,794,328	1,980,645	1,600,091	1,663

Source: Department Budget to Actual Data obtained from Board Approved Capital Metro Budget Reports published annually.

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**Capital Metropolitan Transportation Authority**  
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 Appendix A: Task 1 – Administration and Management of the Authority  
 Report Date: January 8, 2021

Capital Metropolitan Transportation Authority Department Details			FTE Staffing Budget to Actual							
			2016		2017		2018		2019	
No.	Department	Description	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
1	Bus Contract Operations	<b>Merged with Operations &amp; Maintenance Oversight in FY19.</b> Serves to segregate costs for each private fixed-route service contractors. Costs related to MetroBus, MetroExpress, Rural Services, and UT Shuttle routes. Contractors: CARTS, MV Transportation, McDonald Transit Associates.	5	5	5	5	4	5	-	-
2	Demand Response Oversight (formerly Paratransit Contract Ops)	<b>Renamed in FY18.</b> Oversees each of Capital Metro’s paratransit services contractors. Costs related to contracted paratransit services compliant with the ADA are budgeted in this department. To enhance customer service delivery, the Paratransit Administration department has merged with the Demand Response Oversight department.	2	2	2	2	3	2	4.5	3.5
3	Operations & Maintenance Oversight (formerly Bus and Paratransit)	<b>Renamed in FY18. Absorbed Bus Contract Operations in FY19.</b> Responsible for coordinating the operations and activities of all CapMetro service providers for bus services. This includes coordination of contract management, data collection and analysis and quality assurance activities for both vehicle operations and vehicle maintenance.	15	16	16	16	18	21	28	30
4	Paratransit Administration	<b>Merged with the Demand Response Oversight department in FY19.</b> Previously, managed all aspects of paratransit: Reservations, Control Center, Contracts Operations, Eligibility, also directly responsible for federal reporting on all paratransit related items.	3	3	3	3	3	3	-	-
5	Paratransit Eligibility	Manages the eligibility certification process, and promotes fixed-route use by providing training to people with disabilities and seniors.	10	10	10	10	10	10	10	10
6	Paratransit Reservations and Control Center	Includes the MetroAccess call center, dispatch, scheduling and customer service. Processes advance trip reservations, cancellations, inquiries, subscription service requests and group trips. This team manages and coordinates service through contracted providers. Also responsible for all customer service and outreach efforts for MetroAccess.	28	33	33	33	33	33	33	33
7	Rail Commuter Operations	Provides management and oversight of commuter rail service between Leander and downtown Austin. The mission entails the provision of safe and efficient public transportation for the community. The commuter service operates ten commuter trains out of one operations facility in Central Austin, along 32 miles of track that services nine stations along this right-of-way. Also manages the positive train control (PTC) contract, rail operations strategic planning, rail operations regulatory compliance and risk reduction through post-incident analysis. Has absorbed the Rail Compliance department in FY19.	10.5	10.5	11.5	11.5	8.5	8.5	10	15
8	Rail Freight Management	Responsible for managing and preserving Capital Metro’s railroad assets used for transportation of freight and for transit use. Currently, the department manages approximately 162 miles of railroad right-of-way between Giddings and Llano. Management of the Giddings-Llano rail line is accomplished through a rail freight operator, whose responsibility is to fulfill the common carrier obligations by providing freight service to shippers along the line, as well as implementing marketing strategies to maximize revenue while providing efficient freight service.	1	1	1	1	1	1	1	1

Source: Department Budget to Actual Data obtained from Board Approved Capital Metro Budget Reports published annually.

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# Appendix B

## Task 2 - Detailed Compliance Results – Chapter 451 Statutory Compliance Review

# Capital Metropolitan Transportation Authority

FY 2016–2019 Quadrennial Performance Audit Report

## Appendix B: Task 2 – Detailed Compliance Results for Chapter 451 Statutory Compliance Review

Report Date: January 8, 2021

Transportation Code	Requirement	Test Conclusion
Sec. 451.052	Nature of Authority. Definition of an authority.	Achieved
Sec. 451.053	Responsibility for control of authority. Board is responsible for the management, operation, and control of an authority and its property.	Achieved
Sec. 451.054(a)	General Powers of Authority. An authority shall carry out Chapter 451 as deemed necessary.	Achieved
Sec. 451.054(b)	General Powers of Authority. This section only applies to authorities created by alternate municipalities.	Not Applicable
Sec. 451.054(c)	General Powers of Authority. An authority may sue and be sued.	Achieved
Sec. 451.054(d)	General Powers of Authority. Before acquiring an interest in real property > \$20,000 the Board shall acquire 2 property appraisals independent of each other.	Not Applicable
Sec. 451.054(e)	General Powers of Authority. An authority may participate in sales, leases, and disposals.	Achieved
Sec. 451.055(a)	Grants and Loans. May contract with any person.	Achieved
Sec. 451.055(b)	Grants and Loans. May accept a grant or loan from any person.	Achieved
Sec. 451.056(a)	Operation of Transit Authority System. May operate a transit authority system within its territory.	Achieved
Sec. 451.056(b)	Operation of Transit Authority System. Acquire written approval of the governing body in order to lease the entire transit authority system under Sec. 451.056(a-3).	Not Applicable
Sec. 451.056(c)	Operation of Transit Authority System. This section applies to authorities created by alternate municipalities.	Not Applicable
Sec. 451.056(d)	Operation of Transit Authority System. Shall determine routes.	Achieved
Sec. 451.057	Acquisition of Property by Agreement. May acquire rolling stock/other property under contract/trust.	Not Applicable
Sec. 451.058(a)	Use and Acquisition of Property of Others. May use public way and relocate/reroute/alter property of another person for purposes defined in Sec. 451.056(a-1).	Achieved
Sec. 451.058(b)	Use and Acquisition of Property of Others. May contract with owner to allow owner's own means/contractor of the owner to complete acts authorized by Sec. 451.058(a-2).	Not Applicable
Sec. 451.058(c)	Use and Acquisition of Property of Others. May acquire by eminent domain any interest in real property.	Not Applicable
Sec. 451.058(d)	Use and Acquisition of Property of Others. Costs incurred are at the sole cost and expense of the authority. Damages incurred by an owner must be paid by the authority.	Achieved
Sec. 451.058(e)	Use and Acquisition of Property of Others. Must receive written permission from owner of the property unless eminent domain is exercised.	Achieved

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Transportation Code	Requirement	Test Conclusion
Sec. 451.059(a)	Eminent Domain Proceedings are initiated by the adoption by the Board.	Not Applicable
Sec. 451.059(b)	Eminent Domain Proceedings. Public hearings are held in a location convenient to the residents of the area > 29 days before the adoption of a resolution.	Not Applicable
Sec. 451.059(c)	Eminent Domain Proceedings. Notice of a public hearing is published in a newspaper easily accessible to residents of the area at least 1 time/week for 2 weeks before the meeting.	Not Applicable
Sec. 451.059(d)	Eminent Domain Proceedings. Adopted resolutions are conclusive evidence of public necessity.	Not Applicable
Sec. 451.059(e)	Eminent Domain Proceedings.	Not Applicable
Sec. 451.060	Agreement with Utilities, Carriers.	Not Applicable
Sec. 451.061(a)	Fares and Other Charges. Fares and other charges will be imposed to produce revenue in an amount adequate to cover relevant expenses/liabilities sufficient for operations.	Achieved
Sec. 451.061(b)	Fares and Other Charges. Impositions are not to be excessive beyond covering obligations.	Achieved
Sec. 451.061(c)	Fares and Other Charges. May set fares according to a zone system or other reasonable classification.	Achieved
Sec. 451.061(d)	Fares and Other Charges. This section does not apply to authorities with populations greater than 1.9 million.	Not Applicable
Sec. 451.061(e)	Fares and Other Charges. The state's power is not limited in regards to regulating taxes imposed/other compensation authorized.	Achieved
Sec. 451.061(f)	Fares and Other Charges. Personal identifying information is confidential and not subject to disclosure under Chapter 552, Government Code.	Achieved
Sec. 451.0611(a)	Enforcement of Fares and Other Charges; Penalties. By resolution, board may prohibit persons who fail to pay the fare, and may ensure fares are paid by persons utilizing the public transportation system.	Achieved
Sec. 451.0611(b)	Enforcement of Fares and Other Charges; Penalties. By resolution, board may charge a penalty not to exceed \$90 for unpaid fares/charges.	Achieved
Sec. 451.0611(c)	Enforcement of Fares and Other Charges; Penalties. Signs must be posted designating areas that require evidence of fare payment.	Achieved
Sec. 451.0611(d)	Enforcement of Fares and Other Charges; Penalties. A person commits an offense if they do not possess evidence of fare payment, fails to pay fare/penalty on or before 30th day after the date they have been notified of the amount.	Achieved
Sec. 451.0611(e)	Enforcement of Fares and Other Charges; Penalties. Notices required by Sec. 451.0611(d) must be included in a citation.	Achieved
Sec. 451.0611(f)	Enforcement of Fares and Other Charges; Penalties. Offenses under Sec. 451.0611(d) are Class C misdemeanors and not crimes of moral turpitude.	Achieved
Sec. 451.0611(g)	Enforcement of Fares and Other Charges; Penalties. This section only applies to authorities that were created before 1980 and have populations less than 1.9 million.	Not Applicable

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## Appendix B: Task 2 – Detailed Compliance Results for Chapter 451 Statutory Compliance Review

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Transportation Code	Requirement	Test Conclusion
Sec. 451.0612(a)	Fare Enforcement Officers. May employ Fare Enforcement Officers.	Achieved
Sec. 451.0612(b)	Fare Enforcement Officers. Must complete 40-hour training before commencing duties.	Achieved
Sec. 451.0612(c)	Fare Enforcement Officers. Must wear uniform and work under safety/security directions of management while on duty.	Achieved
Sec. 451.0612(d)	Fare Enforcement Officers. May request evidence of payment, request personal ID from passenger who does not provide evidence of payment, request passenger to leave if they fail to present evidence of payment, and file a complaint charging the person with an offense.	Achieved
Sec. 451.0612(e)	Fare Enforcement Officers. May not carry a weapon while performing duties under Section 451.0612.	Achieved
Sec. 451.0612(f)	Fare Enforcement Officers. Fare enforcement officers are not peace officers and have no authority to enforce criminal law outside of the authority possessed by a person who is not a peace officer.	Achieved
Sec. 451.062(a)	Power to Enter Real Property. May go on real property to make surveys/examine property and attend to any authority business.	Achieved
Sec. 451.062(b)	Power to Enter Real Property. At least a 2 weeks' notice shall be given to owners in possession before entering property.	Achieved
Sec. 451.062(c)	Power to Enter Real Property. Property damaged shall be restored as nearly as possible at the sole expense of the authority.	Achieved
Sec. 451.063	Tax Exemption. The property, revenue, and income of an authority are exempt from state and local taxes.	Achieved
Sec. 451.064	Parking Areas: Certain Authorities. This section only applies to authorities that were created before 1980 and have populations less than 1.9 million.	Not Applicable
Sec. 451.065(a)	Roadways, Trails, Lighting: Certain Authorities. May construct/maintain a highway, local/arterial street, thoroughfare, other road, bridge/grade separation; and install/operate traffic control improvements (i.e. signals).	Not Applicable
Sec. 451.065(b)	Roadways, Trails, Lighting: Certain Authorities. May construct/maintain a sidewalk, hiking/biking trail; install/maintain streetlights; make drainage improvements and take related measures as reasonable and necessary for effective use.	Not Applicable
Sec. 451.065(c)	Roadways, Trails, Lighting: Certain Authorities. May perform activities authorized by this section through an agreement with another governmental entity.	Not Applicable
Sec. 451.065(d)	Roadways, Trails, Lighting: Certain Authorities. Must obtain consent of governing body of the municipality or a contract with the municipality specifying actions that authority must undertake.	Not Applicable
Sec. 451.065(e)	Roadways, Trails, Lighting: Certain Authorities. Section 451.065(a) does not apply to actions undertaken by Section 451.056(a-1) or 451.058.	Not Applicable
Sec. 451.065(f)	Roadways, Trails, Lighting: Certain Authorities. This section does not apply to authorities created before 1980 with populations less than 1.9 million.	Achieved
Sec. 451.066	Spending Limitation: Trails and Lighting in Certain Authorities. This section does not apply to authorities created after 1980.	Not Applicable

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Transportation Code	Requirement	Test Conclusion
Sec. 451.067	Emergency Medical Services: Certain Authorities. This section does not apply to authorities with populations greater than 320,000.	Not Applicable
Sec. 451.068	Free Fares Program: Certain Authorities. This section does not apply to authorities with populations greater than 850,000.	Not Applicable
Sec. 451.070(a)	Elections. In a board ordered election, notice by publication in a newspaper of general circulation at least once a week for 3 consecutive weeks, starting at least 21 days before the election.	Not Applicable
Sec. 451.070(b)	Elections. Subsection (a) does not apply to an election under Subchapter N.	Not Applicable
Sec. 451.070(c)	Elections. An election contest may not be heard unless the comptroller is timely notified as required by Section 451.413.	Not Applicable
Sec. 451.071	Referendum for Rail Plan; Certain Authorities. This section does not apply to authorities with populations greater than 850,000.	Not Applicable
Sec. 451.072(a)	General Authority to Call Election: Certain Authorities. This section only applies to authorities with a population of more than 1.9 million.	Achieved
Sec. 451.072(b)	General Authority to Call Election: Certain Authorities. Board may call an election to determine the voters' will on any issue that the board is authorized to decide under this chapter. At the time the election is ordered the Board must specify if the results are binding on the authority.	Not Applicable
Sec. 451.072(c)	General Authority to Call Election: Certain Authorities. Board shall specify the ballot proposition for an election called under this section to be approved if favored by the majority.	Not Applicable
Sec. 451.101	Board Powers. A board has the powers specified in this statute.	Achieved
Sec. 451.102(a)	Budget. Board shall adopt an annual operating budget before the start of the fiscal year.	Achieved
Sec. 451.102(b)	Budget. Board shall hold a public hearing on the budget and make the budget publicly available at least 14 days before the hearing.	Achieved
Sec. 451.102(c)	Budget. Board may amend the budget after a public notice and hearing.	Not Applicable
Sec. 451.103	Operating Expenditures. Operating expenses may not be in excess of the operating expenses specified in the annual operating budget.	Achieved
451.104	Investment Powers: Certain Authorities. This section does not apply to authorities created after 1980 and with populations greater than 1.9 million.	Not Applicable
451.105(a)	Depository; Deposit of Funds. Board shall designate at least 1 bank as depository for authority funds.	Achieved
451.105(b)	Depository; Deposit of Funds. All authority funds shall be deposited in at least 1 of the specified depository banks unless an authorized exception occurs.	Not Applicable
451.105(c)	Depository; Deposit of Funds. Funds in a depository shall be lawfully secured for the security of county funds.	Not Applicable

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Transportation Code	Requirement	Test Conclusion
451.106(a)	General Manager; Management Policies: Certain Authorities. Board shall employ a general manager.	Achieved
451.106(b)	General Manager; Management Policies: Certain Authorities. Only the general manager may remove on employee.	Achieved
451.106(c)	General Manager; Management Policies: Certain Authorities. General manager may contract with others with board approval.	Achieved
451.106(d)	General Manager; Management Policies: Certain Authorities. Board shall adopt policies clearly defining the respective duties of the board and staff.	Achieved
451.106(e)	General Manager; Management Policies: Certain Authorities. This section applies only to an authority described by Subsection (a).	Achieved
451.107(a)	Rules. Board by resolution may adopt rules for operation/maintenance/regulation and use of the transit authority.	Achieved
451.107(b)	Rules. Each rule shall be published in a newspaper with general circulation once each week for 2 consecutive weeks after adoption.	Achieved
451.107(c)	Rules. A rule becomes effective 10 days after the date of the second publication of the notice.	Achieved
451.1075(a)	Prohibition of Consumption of Alcoholic Beverage. Board may prohibit consumption of alcoholic beverages on the authority property.	Achieved
451.1075(b)	Prohibition of Consumption of Alcoholic Beverage. A sign is posted in each place where alcohol is prohibited communicating the prohibition.	Achieved
451.1075(c-d)	Prohibition of Consumption of Alcoholic Beverage. Consumption of alcoholic beverages in a prohibited area is a Class C misdemeanor.	Achieved
451.1075(e)	An "alcoholic beverage" is to be defined by the Alcoholic Beverage Code.	Achieved
451.108(a)	Peace Officers. Authority may commission and employ a peace officer	Achieved
451.108(b,c,e)	Peace Officers. This section does not apply to an authority that was created after 1980 or has a population of more than 1.9 million.	Not Applicable
451.108(d)	Peace Officers. Peace Officers must file the respective oath.	Achieved
451.109(a)	Advisory Committee. Board may establish 1 or more Advisory Committees to make recommendations to the Board or general manager.	Achieved
451.109(b)	Advisory Committee. Members are appointed by the Board.	Achieved
451.109(c)	Advisory Committee. Member is not compensated for service, but is entitled to reimbursement for expenses incurred in the performance of services.	Achieved
451.109(d)	Advisory Committee. This section does not apply to an authority in which the principal municipality has a population of 850,000 or more but not more than 1.9 million.	Achieved

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Transportation Code	Requirement	Test Conclusion
451.110(a)	Purchases: Competitive Bidding. Board may not contract for construction of an improvement or purchase of property, except through competitive bidding after notice of the contract proposal.	Achieved
451.110(b)	Purchases: Competitive Bidding. Board may adopt rules on competitive bidding.	Achieved
451.110(c)	Purchases: Competitive Bidding. Subsection (a) does not apply to a contract for \$50,000 or less, purchase of real property, personal/professional services, or acquisition of an existing transit system.	Achieved
451.111(a)	Purchases: Notice of Noncompetitive Bid Proposals. A board may not let a contract that is > \$50,000 and for the purchase of real property or consulting/professional services.	Achieved
451.111(b)	Purchases: Notice of Noncompetitive Bid Proposals. An announcement of a contract being considered that is subject to this section must be posted in a prominent place in the principal office for at least 2 weeks before the date the contract is awarded.	Achieved
451.111(c)	Purchases: Notice of Noncompetitive Bid Proposals. This section does not apply to a contract that must be awarded through competitive bidding or for the purchase of an existing transit system.	Achieved
451.112	Conflicts of Interest: Board Members. Chapter 171, Local Government Code, applies to a board member of an authority. A contract executed in violation of this section is voidable.	Achieved
451.113(a)	Driving on Certain Authority Right-of-Way; Penalty. Driving on a designated right-of-way of an authority that is used in connection with a motor bus rapid transit system is an offense committed by the person operating the motor vehicle.	Achieved
451.113(b)	Driving on Certain Authority Right-of-Way; Penalty. Exceptions to subsection (a) include: authorized driving of a vehicle of the authority or driving an authorized emergency vehicle and responding to a call.	Achieved
451.113(c)	Driving on Certain Authority Right-of-Way; Penalty. Any Peace Officer in the jurisdiction of the offense may enforce subsection (a).	Achieved
451.113(d)	Driving on Certain Authority Right-of-Way; Penalty. An offense under this section is a Class C misdemeanor.	Achieved
451.131	Applicability. This subchapter only applies to authorities with a population of less than 1 million.	Achieved
451.151(a)	Station or Terminal Complex: System Plan. May not acquire an interest in real property for a station/terminal complex unless included in the transit authority system in a plan approved by the Board.	Achieved
451.151(b)	Station or Terminal Complex: System Plan. May not be included in a transit authority system unless the Board first assesses the station/terminal complex against certain criteria.	Achieved
451.151(c)	Station or Terminal Complex: System Plan. Board may amend the authority's comprehensive transit plan to include a station/terminal complex.	Achieved
451.152	Station or Terminal Complex: Facilities. A station/terminal complex must include means for transfer of passengers and may include provision for residential, institutional, recreational, commercial, and industrial facilities.	Achieved
451.153	Approval of Municipality. Location of station/terminal complex must be approved by the governing body of the municipality.	Not Applicable
451.154(a)	Station or Terminal Complex: Limitation on Real Property Acquisition. May not be acquired unless property complies with certain criteria.	Not Applicable
451.154(b)	Station or Terminal Complex: Limitation on Real Property Acquisition. This section does not apply to authorities created after 1980 and those with population counts greater than 1.9 million.	Not Applicable

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451.154(c)	Station or Terminal Complex: Limitation on Real Property Acquisition. Board will designate the center point of the station/terminal complex before commencement of eminent domain.	Not Applicable
451.155(a)	Transfer of Real Property in Station or Terminal Complex. May transfer interest in real property in a station/terminal complex to any person in accordance with the comprehensive transit plan and certain terms.	Not Applicable
451.155(b)	Transfer of Real Property in Station or Terminal Complex. Transfer must be at fair value of the interest transferred.	Not Applicable
451.155(c)	Transfer of Real Property in Station or Terminal Complex. A person from whom property offered for sale under this section was acquired by eminent domain or the threat of eminent domain has a first right to purchase the property at the price for which the property is offered to the public.	Not Applicable
Sec. 451.201	Regional Economic Development Facilities.	Not Applicable
Sec. 451.251	Subchapter F: Special Programs and Services.	Not Applicable
Sec. 451.352(a)	Power to Issue Bonds. May issue bonds at any time.	Not Applicable
Sec. 451.352(b)	Power to Issue Bonds. Board may authorize issuance of bonds payable solely from revenue.	Not Applicable
Sec. 451.352(c)	Power to Issue Bonds. Bonds must be issued by majority vote in an election held for that specific purpose.	Not Applicable
Sec. 451.353(a)	Bond Terms. Bonds are fully negotiable and may be redeemable.	Not Applicable
Sec. 451.353(b)	Bond Terms. Revenue bond indentures may limit a power of the authority provided by Sections 451.054-451.060, 451.061(a) or (b), 451.064-451.069, 451.107(a), or 451.251 as long as the bonds are outstanding.	Not Applicable
Sec. 451.354	Sale. Bonds may be sold at a public/private sale as determined by the Board to be more advantageous.	Not Applicable
Sec. 451.355(a)	Approval; Registration. Bonds and related records shall be submitted to the attorney general for examination before the bonds are delivered.	Not Applicable
Sec. 451.355(b)	Approval; Registration. The attorney general will approve the bonds if he finds that the bonds are constitutional and Chapter 451 and that the bonds are a binding obligation of the issuing authority.	Not Applicable
Sec. 451.355(c)	Approval; Registration. Comptroller registers the bonds after approval by the attorney general.	Not Applicable
Sec. 451.356	Incontestability. Bonds are incontestable after they are: approved by the attorney general; registered by the comptroller; sold and delivered to the purchaser.	Not Applicable
Sec. 451.357(a)	Security Pledged. To secure the payment of a bond the authority may: pledge all/part of revenue realized from any tax the authority imposes; pledge all/part of revenue from the transit authority system; mortgage all/part of the transit authority system (including parts subsequently acquired).	Not Applicable
Sec. 451.357(b)	Security Pledged. Under Sec. 451.357(a)(3) an authority may encumber a separate item of the transit system.	Not Applicable

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Sec. 451.357(c)	Security Pledged. Authority may not issue bonds secured by ad valorem tax revenue.	Not Applicable
Sec. 451.357(d)	Security Pledged. This subchapter does not prohibit encumbering 1 or more transit systems to purchase/construct/extend/repair 1 or more other transit systems.	Not Applicable
Sec. 451.358	Pledge of Revenue Limited. Expenses of operation and maintenance of a transit system are a first lien and charge against any revenue of a system that is encumbered under this chapter.	Not Applicable
Sec. 451.359	Refunding Bonds. May issue refunding bonds.	Not Applicable
Sec. 451.360(a)	Bonds as Authorized Investments. Bonds are authorized investments for: a bank, savings bank, trust company, savings & loan association, and insurance company.	Not Applicable
Sec. 451.360(b)	Bonds as Authorized Investments. The bonds, when accompanied by all appurtenant, unmatured coupons and to the extent of the lesser of their face value or market value, are eligible to secure the deposit of public funds of this state, a political subdivision of this state, and other political corporation of this state.	Not Applicable
Sec. 451.361	Exchange of Bonds for Existing System. Revenue bonds may be exchanged.	Not Applicable
Sec. 451.362(a)	Short-Term Bonds. May issue bonds that are secured by revenue/taxes of the authority if the bonds: have term not more than 12 months and are payable only from revenue/taxes received on/after the date of issuance and before the end of the fiscal year following the fiscal year in which the bonds are issued.	Not Applicable
Sec. 451.362(b)	Short-Term Bonds. Bonds issued under this section do not need attorney general approval/registration with the comptroller.	Not Applicable
Sec. 451.362(c)	Short-Term Bonds. Bonds may have term 5 years or less.	Not Applicable
Sec. 451.362(d)	Short-Term Bonds. This section does not apply to an authority that was created after 1980 or has a population of more than 1.9 million.	Not Applicable
Sec. 451.3625	Bonds for Rail System; Certain Authorities. This section does not apply to authorities with a population count greater than 850,000.	Not Applicable
Sec. 451.363	Tax Exemption. Interest on bonds is exempt from state/local taxes.	Not Applicable
Sec. 451.401	General Power of Taxation. May impose any kind of tax except ad valorem property tax.	Achieved
Sec. 451.402(a)	Voter Approval Required for Tax. May not impose tax/increase rates without majority vote in election held for that purpose.	Not Applicable
Sec. 451.402(b)	Voter Approval Required for Tax. New tax/rate increases must be expressed in a separate proposition with a brief statement of the nature of the proposition.	Not Applicable
Sec. 451.402(c)	Voter Approval Required for Tax. Notice of the election must contain a statement of the base/rate of the proposed tax.	Not Applicable
Sec. 451.403(a)	Authority Tax Code and Rules. Must adopt a tax code and rules before voting on the tax.	Not Applicable

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Sec. 451.403(b)	Authority Tax Code and Rules. Tax code and rules may contain other provisions.	Not Applicable
Sec. 451.403(c)	Authority Tax Code and Rules. Board may amend the tax code and rules after the election & approval. May not increase amount unless approved by 451.402.	Not Applicable
Sec. 451.403(d)	Authority Tax Code and Rules. Does not apply to sales and use tax/motor vehicles emissions tax.	Not Applicable
Sec. 451.404(a)	Sales and Use Tax. Board may impose sales and use tax.	Achieved
Sec. 451.404(b)	Sales and Use Tax. Chapter 322, Tax Code, applies to an authority's sales and use tax.	Not Applicable
Sec. 451.405(a)	Maximum Tax Rate in Authority Area. May not adopt sales and use tax exceeding 2% when combined with rates of all sales and use taxes imposed by other subdivisions.	Not Applicable
Sec. 451.405(b)	Maximum Tax Rate in Authority Area. Elections have no effect if: elections are held on the same day a municipality/county adopts a sale and use tax, and if combined rates of all sales and use taxes exceed 2%.	Not Applicable
Sec. 451.406	Initial Sales Tax: Effective Date. Adopted of sales and use tax takes effect on the first day of the second calendar quarter beginning after the date the comptroller receives a copy of the order required to be filed under Section 451.661.	Not Applicable
Sec. 451.407	Rate Decrease: Sales and Use Tax. Board may decrease the sales and use tax rate or order an election to decrease the rate.	Not Applicable
Sec. 451.408(a)	Rate Increase: Sales and Use Tax. Board may order an election to increase the sales and use tax rate.	Not Applicable
Sec. 451.408(b)	Rate Increase: Sales and Use Tax. Registered voters may require an election to increase the sales and use tax rate.	Not Applicable
Sec. 451.408(c)	Rate Increase: Sales and Use Tax. If board reduced rate without an election, board may increase the rate not in excess of the rate before the decrease.	Not Applicable
Sec. 451.409(a)	Sales and Use Tax Rate Increase: Petition and Election. Petition to increase the rate is valid only if submitted to board and signed by at least 10% of the registered voters.	Not Applicable
Sec. 451.409(b)	Sales and Use Tax Rate Increase: Petition and Election. Board shall submit a petition for an election to increase the rate to the secretary of state.	Not Applicable
Sec. 451.409(c)	Sales and Use Tax Rate Increase: Petition and Election. Secretary of state shall respond no later than 30 days after receiving the petition.	Not Applicable
Sec. 451.409(d)	Sales and Use Tax Rate Increase: Petition and Election. Board shall call an election to increase the rate if the secretary validates the petition or fails to respond within the 30 day period.	Not Applicable
Sec. 451.409(e)	Sales and Use Tax Rate Increase: Petition and Election. Authority shall pay costs of validating a petition and election.	Not Applicable
Sec. 451.410	Sales and Use Tax Increase or Decrease Ballots: In an election the ballots shall be printed to provide for voting for or against the following proposition: "The (increase or decrease) of the local sales and use tax rate to (percentage)."	Not Applicable
Sec. 451.411(a)	Results of Election; Notice. If an increase/decrease to the rate is won by majority vote, it goes into effect according to Section 451.412.	Not Applicable

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Sec. 451.411(b)	Results of Election; Notice. Authority must send notice of election and certified copy of results to TxDOT and comptroller.	Not Applicable
Sec. 451.412	Effective Date of Tax Rate Change. Effective on the first day of the first calendar quarter that begins after the date the comptroller receives notice, or first day of the second calendar quarter that begins after the date the comptroller receives notice if comptroller requires more time within 10 days after receipt of the notice.	Not Applicable
Sec. 451.413(a)	Tax Effective Dates After Election Contest. Contestant of an election must notify the comptroller within 10 days after the date the contest is filed.	Not Applicable
Sec. 451.413(b)	Tax Effective Dates After Election Contest. Upon receiving the contest notice the effective date is suspended.	Not Applicable
Sec. 451.413(c)	Tax Effective Dates After Election Contest. Presiding Officer of the board must notify the comptroller when a final judgment of a contest is entered.	Not Applicable
Sec. 451.413(d)	Tax Effective Dates After Election Contest. If the result is sustained the comptroller must substitute the date of receipt of the notice of the final judgment for the date of receipt of the notice of election results.	Not Applicable
Sec. 451.414(a)	Maximum Rate of Vehicle Emissions Tax. Each year the Board imposes a Motor Vehicle Emissions Tax the rate is set as a percentage of the maximum rate specified for each class of vehicles.	Not Applicable
Sec. 451.414(b)	Maximum Rate of Vehicle Emissions Tax. Rate may not exceed 100% of the amount specified by the table.	Not Applicable
Sec. 451.415(a)	Exemptions. The following vehicles are exempt from vehicle emissions tax: exclusive use in U.S., state, county, municipality, school district, authority service; operated in the authority for an average period of <2 days each calendar week during a tax year/portion of a tax year during which the tax accrues.	Not Applicable
Sec. 451.415(b)	Exemptions. To receive (a)(3) exemption, owner must file with the county assessor-collector.	Not Applicable
Sec. 451.416(a)	Emissions Tax Year. Motor vehicle emissions tax year begins April 1 and is divided into quarters.	Not Applicable
Sec. 451.416(b)	Emissions Tax Year. Tax accruing during the second quarter is 3/4 of the amount of the annual tax. Tax accruing during the third quarter is 1/2 the amount of annual tax. Tax accruing during the fourth quarter is 1/4 the amount of the annual tax.	Not Applicable
Sec. 451.417	Emissions Tax Payments: Delinquency. Motor vehicle emissions taxes are payable February 1 and are delinquent if not paid by April 1. If payable on/after April 1, they are delinquent if not paid by the 61st day after they accrue.	Not Applicable
Sec. 451.418	Collection of Emissions Taxes by County-Assessor-Collector.	Not Applicable
Sec. 451.419(a)	Penalties and Interest: Emissions Taxes. Penalties apply to the late payment of motor vehicle emissions taxes.	Not Applicable
Sec. 451.419(b)	Penalties and Interest: Emissions Taxes. Delinquent tax bears interest at 6% a year until paid.	Not Applicable
Sec. 451.420	Board Rules: Emissions Taxes. Board may adopt rules relating to the collection and payment of the authority's motor vehicle emissions taxes.	Not Applicable
Sec. 451.451	Financial Audits. Board must have annual audit of affairs prepared by an independent CPA/firm. The audit must be open to public inspection.	Achieved

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Sec. 451.452(a)	Review of Audit: Certain Authorities. Board must deliver copy of each audit prepared to certain recipients.	Not Applicable
Sec. 451.452(b)	Review of Audit: Certain Authorities. State auditor may elect to file comments about the audit with the legislative audit committee and Board.	Not Applicable
Sec. 451.452(c)	Review of Audit: Certain Authorities. State auditor may examine workpapers from the audit or audit the financial transactions if deemed necessary.	Not Applicable
Sec. 451.452(d)	Review of Audit: Certain Authorities. Subsections (a)(5) and (6) don't apply if population of more than 1.9 million.	Not Applicable
Sec. 451.454(a)	Performance Audits: Certain Authorities. Board should contract a performance audit at least once every 4 years.	Achieved
Sec. 451.454(b)	Performance Audits: Certain Authorities. Audit should provide evaluation of oversight functions by state/local officers and information to assist in improvements of operations.	Achieved
Sec. 451.454(c)	Performance Audits: Certain Authorities. Audit must examine 1 of more: admin and management, transit operations, transit maintenance; statutory compliance; and performance indicators.	Achieved
Sec. 451.454(d)	Performance Audits: Certain Authorities. Subjects described in subsection (c)(1) must be examined at least once in every third audit.	Achieved
Sec. 451.455(a)	Computation of Performance Indicators. Operating cost per passenger = annual operating cost / passenger trips.	Achieved
Sec. 451.455(b)	Computation of Performance Indicators. Sales and use tax receipts per passenger = annual receipts from sales and use taxes / passenger trips.	Achieved
Sec. 451.455(c)	Computation of Performance Indicators. Operating cost/revenue hour = annual operating cost / total scheduled hours revenue vehicles are in revenue service.	Achieved
Sec. 451.455(d)	Computation of Performance Indicators. Operating cost / revenue mile = annual operating cost / # miles traveled by revenue vehicles while in revenue service.	Achieved
Sec. 451.455(e)	Computation of Performance Indicators. Fare recovery rate = annual revenue + fares, tokens, passes, tickets, route guarantees, sponsors / operating cost.	Achieved
Sec. 451.455(f)	Computation of Performance Indicators. Average vehicle occupancy = annual passenger miles / # miles traveled by revenue vehicles while in revenue service. Annual passenger miles = annual passenger trips X average distance ridden by passengers.	Achieved
Sec. 451.455(g)	Computation of Performance Indicators. On-time performance = annual % revenue vehicle trips departing from selected locations at a time not earlier than the published departure time, not later than 5 minutes after published time.	Achieved
Sec. 451.455(h)	Computation of Performance Indicators. # of accidents per 100,000 miles = annual # accidents by X 100,000 / # miles for all service.	Achieved
Sec. 451.455(i)	Computation of Performance Indicators. # miles between mechanical road calls = annual # miles for all service directly operated by an authority X # mechanical road calls.	Achieved
Sec. 451.455(j)	Computation of Performance Indicators.	Achieved
Sec. 451.456(a)	Performance Audit Response; Hearing. Must prepare written response to audit report.	Achieved

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Sec. 451.456(b)	Performance Audit Response; Hearing. Must make copies of report and response available for public inspection.	Achieved
Sec. 451.456(c)	Performance Audit Response; Hearing. Must conduct public hearing on each performance audit with notice of hearing at least 14 days before the meeting.	Achieved
Sec. 451.457	Delivery of Report and Response. Before February 1 of every second odd-numbered year, must deliver copy of audit report and response to certain recipients.	Achieved
Sec. 451.458	Internal Auditor. This section does not apply to authorities with populations greater than 850,000.	Not Applicable
Sec. 451.460	Annual Report. This section does not apply to authorities with populations greater than 850,000.	Not Applicable
Sec. 451.501(a)	Board Membership. Board is composed of 5 members + number of additional members determined in subsection (c)-(e).	Achieved
Sec. 451.501(b)	Board Membership. This statute only applies to authorities created by alternate municipalities.	Not Applicable
Sec. 451.501(c)	Board Membership. If less than 50% of population of principal county resides in the authority, 2 additional members.	Achieved
Sec. 451.501(d)	Board Membership. If 50% - 75% of population of principal county resides in the authority, 4 additional members.	Not Applicable
Sec. 451.501(e)	Board Membership. If 75% or more of population of principal county resides in the authority, 6 additional members.	Not Applicable
Sec. 451.501(f)	Board Membership. Principal county = where not <51% population resides.	Not Applicable
Sec. 451.501(g)	Board Membership. This section does not apply to authorities described by 451.5021(a).	Achieved
Sec. 451.502(a)	Appointment of Members. 5 Board members are appointed by the governing body of the principal municipality.	Achieved
Sec. 451.502(b)	Appointment of Members. This statute only applies to authorities created by alternate municipalities.	Not Applicable
Sec. 451.502(c)	Appointment of Members. 1 member must be appointed by the mayors of municipalities in the authority, 1 member appointed by the commissioners court of the principal county.	Achieved
Sec. 451.502(d)	Appointment of Members. This section does not apply as the board does not contain 4 additional members.	Not Applicable
Sec. 451.502(e)	Appointment of Members. This section does not apply as the board does not contain 6 additional members.	Not Applicable
Sec. 451.502(g)	Appointment of Members. At least 1 Board member must represent interests of the transportation disadvantaged.	Achieved
Sec. 451.5021	Board Composition; Certain Authorities.	Achieved

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Sec. 451.503(a)	Appointments Panel. Mayor of the most populous municipality represented on the panel under Sec. 451.502 is the presiding officer.	Achieved
Sec. 451.503(b)	Appointments Panel. Presiding officer must call a meeting of the panel to make an appointment to be made not later than 60th day after the date a position becomes vacant/position is created.	Achieved
Sec. 451.5035	Designation of Alternate by Mayor. This section does not apply to authorities with populations greater than 320,000.	Not Applicable
Sec. 451.504(a)	Board Vacancies. Vacancy is filled by person appointed the member who was in the position that is vacant.	Achieved
Sec. 451.504(b)	Board Vacancies. Vacancy for an unexpired term is for the remainder of the term only.	Achieved
Sec. 451.504(c)	Board Vacancies. Presiding Officer under Sec. 451.502(e)(3) vacates the previous board position.	Achieved
Sec. 451.505(a)	Board Terms. Term is 2 years.	Achieved
Sec. 451.505(b)	Board Terms. This section does not apply to authorities that were created after 1980 or have population counts greater than 1.9 million.	Not Applicable
Sec. 451.506(a)	Term Limitations. Member may be reappointed except as provided by this section.	Not Applicable
Sec. 451.506(b)	Term Limitations. May not serve >8 years on same board, may not be appointed to a term for which service to the completion of the term would exceed this limitation.	Not Applicable
Sec. 451.506(c)	Term Limitations. This section does not apply to authorities with populations greater than 850,000.	Not Applicable
Sec. 451.506(d)	Term Limitations. Term limit does not apply to service on the board by a holdover pending the qualification of a successor.	Not Applicable
Sec. 451.507	Board Membership: Residency in Authority. Board member must be qualified voter and resident.	Not Applicable
Sec. 451.508	Removal by Board. Board member may be removed because of a ground for removal in Sec. 451.510.	Not Applicable
Sec. 451.509(a)	Removal by Appointing Person or Entity. This section only applies to authorities with a population of less than 850,000.	Not Applicable
Sec. 451.509(b)	Removal by Appointing Person or Entity. This section only applies to authorities with a population of less than 320,000.	Not Applicable
Sec. 451.509(c)	Removal by Appointing Person or Entity. If person who appointed the removed member is the mayor of the principal municipality, removal is by recommendation of mayor and confirmation of governing body.	Not Applicable
Sec. 451.509(d)	Removal by Appointing Person or Entity. General manager with knowledge that a potential ground for removal exists must notify presiding officer who must notify the member subject for removal.	Not Applicable
Sec. 451.510	Grounds for Removal from Board. A person may be subjected to grounds for removal based on certain criteria.	Not Applicable

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Sec. 451.511(a)	Removal of Board Member: Notice and Hearing. Person proposing to remove a member must give member written statement of grounds for removal. Member is entitled to a hearing if they request one before the 11th day of receipt of notice.	Not Applicable
Sec. 451.511(b)	Removal of Board Member: Notice and Hearing. At hearing, board must confirm removal if charges are deemed true.	Not Applicable
Sec. 451.511(c)	Removal of Board Member: Notice and Hearing. Removal must be by majority vote.	Not Applicable
Sec. 451.512(a)	Ground for Removal: Validity of Board Acts. An action of the board is not invalid because a ground for removal of a board member exists.	Not Applicable
Sec. 451.512(b)	Ground for Removal: Validity of Board Acts. Action that was taken when a ground for removal existed that would not have passed without the vote of the person subject for removal is voidable.	Not Applicable
Sec. 451.513(a)	Recall of Members: Certain Authorities. Board member may be removed on a petition for the recall of the member submitted by the registered voters of the authority.	Not Applicable
Sec. 451.513(b)	Recall of Members: Certain Authorities. Entity that confirmed/appointed the board member must take action to remove the member/reconfirm the member's appointment.	Not Applicable
Sec. 451.513(c)	Recall of Members: Certain Authorities. Recalls are valid according to certain criteria.	Not Applicable
Sec. 451.513(d)	Recall of Members: Certain Authorities. After receiving the petition the entity shall send it to the secretary of state who shall determine validity no later than the 10th day of receipt.	Not Applicable
Sec. 451.513(e)	Recall of Members: Certain Authorities. Not later than the 30th day after member is removed, vacancy must be filled.	Not Applicable
Sec. 451.514(a)	Board Meetings: When Held. Board must meet at least once/month.	Achieved
Sec. 451.514(b)	Board Meetings: When Held. Presiding officer of board or general manager may call special meeting.	Achieved
Sec. 451.515(a)	Board Meetings: Voting. Action of Board requires majority vote unless bylaws require larger number for certain actions.	Achieved
Sec. 451.515(b)	Board Meetings: Voting. Section does not permit a board action in the absence of a quorum.	Achieved
Sec. 451.516	Increase of Membership: Continuity. If membership of Board is increased under Sec. 451.501, Board may continue as normal until the additional members are appointed.	Not Applicable
Sec. 451.517	Board Meetings: Rules and Bylaws. Board may adopt rules and bylaws which are recorded in the minutes of the board meetings.	Achieved
Sec. 451.518	Board Meetings: Notice. In addition to Ch. 551, Government Code, Board must post meeting notice in admin office and courthouse of most populous county on a bulletin board in a place convenient to the public.	Achieved
Sec. 451.519(a)	Board Members: Expenses; Per Diem. Board member must be reimbursed for all necessary expenses incurred in discharge of duties.	Achieved
Sec. 451.519(b)	Board Members: Expenses; Per Diem. Each member is paid \$50/meeting, not exceeding 5 meetings/month.	Not Applicable

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Sec. 451.519(c)	Board Members: Expenses; Per Diem. This statutes only applies to authorities created by an alternate municipality.	Not Applicable
Sec. 451.520(a)	Board Officers and Secretaries. Board must elect a presiding officers among its members, an assistant presiding officer, and a secretary.	Achieved
Sec. 451.520(b)	Board Officers and Secretaries. Board may appoint 1+ assistant secretaries, not required to be members.	Achieved
Sec. 451.520(c)	Board Officers and Secretaries. Secretary and assistant secretary must keep permanent records of proceedings and transactions of Board and perform other duties required by the Board.	Achieved
Sec. 451.552(a)	Addition of Municipality By Election. Territories of municipalities may be added to an authority by election.	Achieved
Sec. 451.552(b)	Addition of Municipality By Election. Governing body of the added municipality shall certify to the authority the result of an election in which the addition is approved.	Achieved
Subchapter L	Addition of Territory	Not Applicable
Subchapter M	Withdrawal of Territory from Authority	Not Applicable
Subchapter N	Creation of Authority	Not Applicable
Subchapter O	Advanced Transportation District	Not Applicable
Sec. 451.751	Applicability. This subchapter only applies to an authority in which the principal municipality has a population of more than 1.5 million.	Achieved
Sec. 451.753(a)	General Provisions Relating to Agreements, Recognition, and Strikes. May not be denied local control over wages, salaries, rates of pay, hours of work, or other terms and conditions of employment.	Not Applicable
Sec. 451.753(b)	General Provisions Relating to Agreements, Recognition, and Strikes. Agreements under this subchapter must be written.	Not Applicable
Sec. 451.753(c)	General Provisions Relating to Agreements, Recognition, and Strikes. This subchapter doesn't require public employer or recognized association to meet and confer on any issue or reach an agreement.	Not Applicable
Sec. 451.753(d)	General Provisions Relating to Agreements, Recognition, and Strikes. A public employer and the recognized association may meet and confer only if the association does not advocate an illegal strike by public employee.	Not Applicable
Sec. 451.753(e)	General Provisions Relating to Agreements, Recognition, and Strikes. Peace officer may not participate in strikes, or else they forfeit rights, benefits, and privileges of the employment.	Not Applicable
Sec. 451.753(f)	General Provisions Relating to Agreements, Recognition, and Strikes. Public employer's CEO or the CEO designees must select group of persons to represent the public employer as its sole and exclusive bargaining agent for issues related to the employment of peace officers by the authority.	Not Applicable
Sec. 451.754(a)	Recognition of Peace Officer Association. Public employer must recognize association submitting a petition signed by majority of peace officers.	Not Applicable
Sec. 451.755(a)	Open Records. Proposed agreements and related documents must be available to the public under Ch. 522, Government Code.	Not Applicable

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Transportation Code	Requirement	Test Conclusion
Sec. 451.755(b)	Open Records. This section does not affect the application of Subchapter C, Chapter 522, Government Code.	Not Applicable
Sec. 451.756(a)	Ratification and Enforceability of Agreement. An agreement under this subchapter is enforceable and binding on the public employer, recognized association, and covered peace officers according to certain criteria.	Not Applicable
Sec. 451.756(b)	Ratification and Enforceability of Agreement. Agreement ratified may establish procedures by which parties agree to resolve disputes including binding arbitration.	Not Applicable
Sec. 451.756(c)	Ratification and Enforceability of Agreement. State district court has jurisdiction to hear and resolve disputes under a ratified agreement.	Not Applicable
Sec. 451.757(a)	Agreement Supersedes Conflicting Provisions. A written agreement ratified under this subchapter preempts all contrary state statutes, local ordinances, etc.	Not Applicable
Sec. 451.757(b)	Agreement Supersedes Conflicting Provisions. Agreement ratified under this subchapter may not interfere with the right of a member of a bargaining unit to pursue allegations of discrimination.	Not Applicable
Sec. 451.758(a)	Election to Repeal Agreement. Not later than the 60th day after the date an agreement is ratified, a petition of voters representing 10% of the votes cast at the most recent general election in the county must be filed calling for the repeal of the agreement.	Not Applicable
Sec. 451.758(b)	Election to Repeal Agreement. If petition is presented to the county clerk, authority shall repeal the agreement or certify that it is not repealing the agreement.	Not Applicable
Sec. 451.758(c)	Election to Repeal Agreement. Election may be held as part of regularly scheduled general election/special election with specific verbiage on the ballot.	Not Applicable
Sec. 451.758(d)	Election to Repeal Agreement. Majority vote is required to repeal and void the agreement.	Not Applicable

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Government Code	Requirement	Test Conclusion
551.002	All meetings (regular, special, called) must be open to the public.	Achieved
551.021(a)	Minutes or tape recordings of each open meeting of the body must be kept.	Achieved
551.021(b)	Minutes must state the subject for the meeting, and indicate voting results, order, decisions and/or other actions taken.	Achieved
551.022	Meeting minutes/records must be available for public inspection and copying on request to the governmental body's CAO or designee.	Achieved
551.043	Notice must be in a place readily accessible to the general public at all times for at least 72 hours before the scheduled time of the meeting,	Achieved
551.0411	Meeting notice requirements, certain circumstances - Notice not required for meetings recessed to following day, but must if recesses a further day. - May convene in another location in case of catastrophe within 72hrs, otherwise notice required.	Not Applicable
551.045	Notice of emergency meeting/addition to agenda.	Not Applicable
551.056	Additional posting requirements for certain municipalities, counties, school districts, junior college districts and development corporations.	Not Applicable
551.072	Body may conduct a closed meeting to deliberate purchase, exchange, lease or value of real property, if open meeting will impact its negotiation position.	Achieved
551.073	Body may conduct a closed meeting to deliberate prospective gifts and donations, if open meeting will impact its negotiation position.	Not Applicable
551.074	Closed meetings acceptable to deliberate appointments, employment, duties, hear complaints, etc.	Achieved
551.102	Vote or Final Action must take place in Open Meeting	Achieved
552.225	Requestor must complete examination within 10 business days of the information being made available.	Achieved
552.268	Efficient use of public resources.	Achieved
552.307	Must submit request to Attorney General for information that falls under a special right of access (Ch.552, S.023)	Achieved
552.221(c)	If information is unavailable at time of request, must certify in writing to requestor and set reasonable date.	Achieved
552.221(d)	If information cannot be produced in 10 business days after request, must certify in writing and set a date.	Achieved

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Government Code	Requirement	Test Conclusion
552.223	All requests to be treated uniformly.	Achieved
552.224	Must give requestor reasonable comfort and facility.	Achieved
617.002	Official of the state may not enter into a collective bargaining contract with a labor organization regarding wages, hours, or conditions of employment of public employees.	Achieved
552.228	Providing Suitable Copy of Public Information within Reasonable Time.	Achieved
552.23	Body may set reasonable rules for inspection and copying public information.	Achieved
552.263(a)	May require a deposit for payment of anticipated costs	Achieved
552.267(a)	Body must waive or reduce charge if it is in public interest.	Achieved
2253.021	A governmental entity that makes a public work contract with a prime contractor shall require the contractor, before beginning the work, to execute to the governmental entity a bond.	Achieved
791.011(d)	Interlocal contract must be authorized by each governing body to the party of the contract unless a party is a municipally owned electric utility may enter into interlocal contracts that do not exceed \$100,000.	Achieved
2254.003	The entity may not select a provider of professional services or award a contract on the basis of competitive bids submitted for the contract. Rather must be based on competence and qualifications and fair and reasonable price.	Achieved
2254.004	In procuring the above, the entity must select the most highly qualified, and negotiate a reasonable price.	Achieved
2258.052	On receipt of information, including a complaint by a worker, concerning an alleged violation of Section 2258.023 by a contractor or subcontractor, a public body must assess whether good cause exists to believe that the violation occurred.	Not Applicable
2251.021(a)	A payment by a governmental entity under a contract executed on or after September 1, 1987, is overdue on the 31st day after the later of: receiving the goods, performance of the service, receipt of invoice.	Achieved
2251.021(b)	A payment under a contract executed on or after September 1, 1993, owed by a political subdivision whose governing body meets only once a month or less frequently is overdue on the 46th day after the later event described by Subsections (a)(1) through (3).	Achieved
2256.005(a)	The governing body of an investing entity must adopt a written investment policy regarding the investment of its funds and funds under its control.	Achieved
2256.005(i)	An investment officer of an entity who has a personal business relationship with a business organization offering to engage in an investment transaction with the entity shall file a statement disclosing that personal business interest.	Achieved

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Government Code	Requirement	Test Conclusion
2256.023(d)	If an entity invests in other than money market mutual funds, investment pools or accounts offered by its depository bank in the form of certificates of deposit, the reports prepared by the investment officers must be formally reviewed annually by an independent auditor, and reported to its governing body.	Achieved
2257.023	A public entity shall determine if an investment security is eligible to secure deposits of public funds.	Achieved
2251.042(b)	If a dispute is resolved in favor of the vendor, the vendor is entitled to receive interest on the unpaid balance per 2251.021.	Achieved
2251.042(c)	If a dispute is resolved in favor of the governmental entity, the vendor shall submit a corrected invoice per 2251.021. The unpaid balance accrues interest if the corrected invoice is not paid by the appropriate date.	Achieved
2258.022(c)	The public body shall determine the general prevailing rate of per diem wages.	Achieved
2257.025(a)	A public entity's depository shall maintain a separate, accurate, and complete record relating to a pledged investment security.	Achieved
2257.041(c)	The custodian and the state agency shall agree in writing on the terms and conditions for securing a deposit of public funds.	Not Applicable
551.041	Must give written notice of the date, hour, place, and subject of each meeting held.	Achieved
2258.022(d)	A public body shall specify in the call for bids for the contract and in the contract itself the wage rates determined.	Achieved
551.101	Quorum of the body must first convene in open meeting (with notice) before a closed meeting is allowed.	Achieved
551.005(a)	Each elected/appointed public official must complete a (1-2hours) training course re. responsibilities of the governmental body and its members within 90 days of appointment/assumes responsibilities.	Achieved
551.054(a)	District / Political subdivision extending into < 4 counties. Notice to public and county clerks, place of posting notice.	Achieved
551.103(c)	Govt body must keep certified agenda or recording of closed meetings except for private consultation.	Achieved
552.301(a)	Must ask for decision from Attorney General to withhold requested information from public disclosure.	Achieved
552.301(b)	Must ask for decision within 10 days of request.	Achieved
552.301(d)	Must notify requestor within 10 days of intent to withhold.	Achieved
552.301(e)	Must submit reasons for request to be withheld within 15 days to Attorney General.	Achieved

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Government Code	Requirement	Test Conclusion
551.104(a)	Certified agenda/tape must be preserved for two years following meeting.	Achieved
551.104(c)	Must be available to public under court order.	Achieved
573.041	A public official may not appoint, confirm the appointment of, or vote for an individual to a position that is directly / indirectly compensated from public funds if they are related.	Achieved
573.062(a) (2)	That prior employment of the individual must be continuous for various lengths. See <i>Detail</i> .	Achieved
573.062(b)	If an individual continues in a position, the public official to whom the individual is related may not participate in any deliberation or voting on the appointments / reappointments of that person.	Achieved
552.012(b)	Must complete 1-2hrs course within 90 days of appointment/assuming responsibilities.	Achieved
552.012(c)	Public official may designate a public information coordinator to satisfy the training requirements.	Achieved
552.221(b)	Compliance by providing public information in the offices of governmental body, sending copies by first class mail.	Achieved
2256.005(b)	These policies must be documented, prioritize safety of principle and liquidity, address diversification, yield, etc.	Achieved
2256.005(e)	Policies must be reviewed annually.	Achieved
2256.005(m)	An investing entity other than a state agency, must perform a compliance audit of management controls on investments and adherence to the entity's established investment policies.	Achieved
2256.008(a) (1)	The treasurer, CFO and investment officer must attend at least one training session from an independent source approved by the governing body.	Achieved
2256.008(a) (2)	Must attend an investment training session at least once in a two-year period that begins on the first day of that local government's fiscal year. And receive not less than 10 hours of instruction relating to investment responsibilities.	Achieved
552.303(d)	Body must return the additional information within 7 calendar days.	Achieved

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Local Government Code	Requirement	Test Conclusion
<b>Ch. 171, S.003</b>	Offense if: - Officer violates section 171.004 - Acts as surety for an entity that has business/contract with the government entity.	<b>Achieved</b>
<b>Ch. 171, S.004</b>	If officer has substantial interest in entity, must file affidavit prior to vote, stating nature and extent of the interest.	<b>Achieved</b>
<b>Ch. 171, S.005</b>	Governing body of the entity must take a separate vote on any budget item related to an entity in which an officer has a substantial interest.	<b>Achieved</b>
<b>Ch. 176, S.003(a)</b>	Officer must file a conflict disclosure if vendor has a business relationship with the officer.	<b>Achieved</b>
<b>Ch. 176, S.003(b)</b>	Officer must file the disclosure with the records administrator by 5pm on the 7th business day after the Officer becomes aware of the facts.	<b>Achieved</b>
<b>Ch. 176, S.006(d)</b>	Vendor must file an updated completed questionnaire by 7th business day after being made aware of an event that makes the questionnaire inaccurate.	<b>Achieved</b>
<b>Ch. 176, S.009</b>	Government Entities with a website must provide access to the statements and questionnaires required to be filed.	<b>Not Applicable</b>
<b>Ch. 203, S.025</b>	Governing body for the entity must designate a records management officer.	<b>Achieved</b>
<b>Ch. 203, S.041</b>	Records Management Officer must prepare a records control schedule listing records to be retained and a retention period.	<b>Achieved</b>
<b>Ch. 203, S.046</b>	Records Management Officer shall keep accurate lists of records destroyed, their volume, and other information of Records Management activities.	<b>Achieved</b>
<b>S.272.001</b>	Before land owned by a political subdivision of the state may be sold or exchanged for other land, notice to the general public of the offer of the land for sale or exchange must be published in a newspaper of general circulation.	<b>Not Applicable</b>
<b>S.302.004</b>	Energy savings performance contract may be financed: Lease-purchase contract (not > 20 years), proceeds of bonds, contract with provider of energy/water (not > 20 years).	<b>Not Applicable</b>

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Property Code	Requirement	Test Conclusion
Ch. 21, S. 042(a)	Special Commissioners must assess damages in a condemnation proceeding according to evidence presented at the hearing.	Not Applicable
Ch. 21, S. 042(b)	If an entire tract or parcel of real property is condemned, the damage to the property owner is the local market value of the property at the time of the special commissioners' hearing.	Not Applicable
Ch. 21, S. 042(c)	If a portion is condemned, the special commissioners must determine the damage to the property owner after estimating the extent of the injury and benefit to the property owner.	Not Applicable
Ch. 21, S. 042(d)	In estimating injury or benefit must consider an injury / benefit that is peculiar to the property owner. May not consider injury / benefit that the property owner experiences in common with the general community.	Not Applicable
Ch. 21, S. 042(e)	If a portion of a tract or parcel of real property is condemned for the use, construction, operation, or maintenance of the state highway system or of a county toll project - Commissioners must determine the damage to the property owner regardless of whether the property owner makes a claim for damages.	Not Applicable

Health and Safety Code	Requirement	Test Conclusion
Ch. 388, S.005 (b)	Each political subdivision, institution of higher education, or state agency must implement energy efficiency measures that meet the standards under Section 302.004(b), Local Government Code.	Achieved
Ch. 388, S.005(c)	Must establish a goal to reduce the electric consumption by the entity by at least 5% annually for 7 years, beginning September 1, 2019.	Achieved
Ch. 388, S.005(d)	Reporting requirements for failing to meet the targets set out at 388.005(c).	Achieved
Ch. 388, S.005(e)	Must report annually to the State Energy Conservation Office regarding the entity's goal, efforts to meet the goal, and progress.	Achieved

Penal Code	Requirement	Test Conclusion
Ch. 36, S.02(a)	Offense committed if a person intentionally accepts any benefit as consideration for: - a decision, vote, or similar. - the recipients decision vote, etc. - a violation of duty.	Achieved
Ch. 36, S.07(a)	Offense committed where the public servant solicits/accepts an honorarium in consideration for services that the public servant would not have been requested to provide.	Not Applicable
Ch. 36, S.08(e)	A public servant with judicial or administrative authority, commits an offense if he solicits/accepts benefit from a person the public servant knows is interested in any matter before the public servant or tribunal.	Achieved

# Appendix C

## Task 3 - FY 2012 to 2019 Data Tables and Performance Indicators

# Capital Metropolitan Transportation Authority

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### Appendix C: Task 3 – FY 2012 to 2019 Data Tables and Performance Indicators

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All performance indicators (PIs) reflect inputs from beginning of FY 2016 to end of FY 2019 (four periods). Additionally, FY 2012 to 2015 data was also included in instances to show comparisons from the previous quadrennial performance audit period. The Compound Annual Growth Rate (CAGR) is used to describe any change in performance and is based on the four-year period. With the exception of On-Time Performance (OTP) and YR accidents, all data is sourced from the National Transit Database.

Table A18: NTD Sources of Performance Indicator Data

Data	Source
Sales and Use Tax Receipts	NTD – Form F10
Fares	NTD – Form F10
Operating Expense	NTD – Form F30
Unlinked Passenger Trips	NTD – Form S-10
Revenue Hours	NTD – Form S-10
Revenue Miles	NTD – Form S-10
Passenger Miles	NTD – Form S-10

Table A19: Operating Expense and CAGR by Mode

	MB	DR	YR	CB	Total
2012	\$110,289,057	\$30,830,005	\$11,358,085	\$9,763,524	\$162,240,671
2013	\$111,596,832	\$31,687,932	\$13,712,449	\$7,724,750	\$164,721,963
2014	\$127,143,429	\$33,311,664	\$15,810,047	\$7,722,055	\$183,987,195
2015	\$134,285,474	\$37,308,642	\$14,795,764	\$4,827,344	\$191,217,224
2016	\$145,841,719	\$39,500,530	\$23,076,368	\$5,123,771	\$213,542,388
2017	\$145,785,748	\$41,569,776	\$21,750,211	\$5,406,635	\$214,512,370
2018	\$154,505,921	\$40,692,443	\$23,184,423	\$7,404,336	\$225,787,123
2019	\$165,238,005	\$38,568,595	\$19,319,510	\$8,400,308	\$231,526,418
CAGR 2012-2015	6.78%	6.56%	9.21%	-20.93%	5.63%
CAGR 2016-2019	5.32%	0.83%	6.90%	14.85%	4.90%

Table A20: Total Cost by Function\*

	Vehicle Operations	Vehicle Maintenance	Non-Vehicle (Facility) Maintenance	General Administration	Total
2016	\$104,182,998	\$39,102,388	\$12,346,253	\$58,990,098	\$214,621,737
2017	\$107,503,430	\$40,842,625	\$12,088,876	\$55,146,012	\$215,580,943
2018	\$115,545,695	\$42,666,581	\$11,580,773	\$56,699,273	\$226,492,322
2019	\$122,420,865	\$39,067,940	\$11,828,203	\$59,364,938	\$232,681,946
CAGR 2016-2019	6.25%	1.45%	5.28%	4.83%	21.35%

Note: Total excludes deductions and vanpool expense

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Table A21: Total Line Item Expense Change and CAGR

	2016	2017	2018	2019	CAGR
Other Salaries/Wages	\$20,146,973	\$21,797,472	\$22,925,650	\$23,556,061	6.60%
Fringe Benefits	\$12,258,897	\$15,678,282	\$14,867,268	\$15,496,929	6.72%
Services	\$18,644,238	\$17,063,298	\$18,561,700	\$18,487,249	0.74%
Fuel/Lube	\$13,063,615	\$11,192,183	\$11,029,488	\$12,197,392	-4.70%
Other Materials/Supplies	\$3,350,829	\$3,477,924	\$3,153,671	\$1,823,018	3.55%
Utilities	\$2,623,392	\$2,766,559	\$2,750,751	\$2,960,176	3.83%
Casualty/Liability Costs	\$332,164	\$492,774	\$1,347,185	\$703,076	-12.28%
Taxes	\$1,043,772	\$1,056,241	\$1,089,406	\$1,192,211	2.60%
Purchased Transportation	\$140,575,276	\$140,112,764	\$148,480,275	\$155,018,897	6.42%
Miscellaneous Expenses	\$2,582,581	\$1,842,050	\$1,367,290	\$1,246,937	5.42%
Less Deductions*	-	\$101,396	\$919,638	\$1,155,528	
<b>Total</b>	<b>\$214,621,737</b>	<b>\$215,580,943</b>	<b>\$226,492,322</b>	<b>\$231,526,418</b>	<b>4.83%</b>

\*Expense Filing Separate Report, Deductions, Vanpool Expense

Table A22: CapMetro Revenue Hours of Service by Mode and CAGR

	MB	DR	YR	CB	Total
2012	1,032,535	317,087	10,174	36,953	1,396,749
2013	1,039,621	319,660	11,557	36,780	1,407,618
2014	1,065,774	339,370	11,613	39,564	1,456,321
2015	1,162,528	374,778	11,976	40,132	1,589,414
2016	1,222,015	388,813	12,536	40,182	1,663,546
2017	1,230,076	380,052	12,725	40,364	1,663,217
2018	1,325,923	380,407	13,157	47,486	1,766,973
2019	1,434,961	402,917	12,365	61,632	1,911,875
CAGR 2012-2015	4.03%	5.73%	5.59%	2.79%	4.40%
CAGR 2016-2019	5.40%	1.83%	0.80%	11.32%	4.73%

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Table A23: CapMetro Revenue Miles of Service by Mode and CAGR

	MB	DR	YR	CB	Total
2012	12,870,145	4,721,982	237,125	706,716	18,535,968
2013	12,830,437	4,609,647	279,358	701,561	18,421,003
2014	12,982,104	4,777,232	279,757	739,055	18,778,148
2015	14,001,707	5,092,088	287,997	747,633	20,129,425
2016	14,475,601	5,174,877	298,379	736,798	20,685,655
2017	14,473,436	5,260,345	301,020	737,780	20,772,581
2018	15,396,804	5,453,261	310,272	928,475	22,088,812
2019	15,952,995	5,617,274	290,764	1,147,318	23,008,351
CAGR 2012-2015	2.85%	2.55%	6.69%	1.89%	2.79%
CAGR 2016-2019	3.32%	2.48%	0.24%	11.30%	3.40%

Table A24: CapMetro Passenger Trips by Mode

	MB	DR	YR	CB	Total
2012	33,548,378	611,746	527,370	599,652	35,287,146
2013	34,093,992	612,186	834,699	641,492	36,182,369
2014	31,976,519	633,320	763,551	571,212	33,944,602
2015	32,261,330	675,732	833,195	585,298	34,355,555
2016	28,585,274	682,378	806,331	542,266	30,616,249
2017	27,297,092	670,693	824,704	527,351	29,319,840
2018	26,879,274	675,564	811,242	613,852	28,979,932
2019	28,313,270	706,883	729,507	779,887	30,529,547
CAGR 2012-2015	-1.30%	3.37%	16.47%	-0.80%	-0.89%
CAGR 2016-2019	-3.21%	1.13%	-3.27%	7.44%	-2.91%

Table A25: Passenger Miles Travelled by Mode

	MB	DR	YR	CB	Total
2012	131,676,207	4,832,199	8,534,175	9,295,310	154,337,891
2013	133,207,492	4,910,984	13,281,938	9,728,554	161,128,968
2014	135,348,047	5,073,075	12,006,789	8,920,034	161,347,945
2015	144,788,219	5,185,900	13,491,230	9,596,464	173,061,813
2016	116,469,788	5,391,655	13,241,488	8,811,515	143,914,446
2017	115,795,824	5,548,080	13,034,972	7,701,902	142,080,778
2018	116,078,145	5,591,419	12,269,528	10,387,840	144,326,932
2019	115,922,295	6,003,749	11,187,645	14,695,729	147,809,418
CAGR 2012-2015	3.21%	2.38%	16.49%	1.07%	3.89%
CAGR 2016-2019	-5.41%	3.73%	-4.57%	11.24%	-3.87%

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Table A26: Passenger Fares by Mode

	MB	DR	YR	CB	Total
2012	\$15,785,352	\$779,567	\$2,265,523	\$1,036,453	\$20,646,462
2013	\$16,681,175	\$632,143	\$3,358,278	\$677,343	\$21,981,082
2014	\$18,367,924	\$729,725	\$3,136,133	\$480,978	\$23,444,485
2015	\$19,255,701	\$849,791	\$2,487,225	\$503,847	\$23,946,355
2016	\$19,158,387	\$856,540	\$2,135,825	\$564,651	\$23,571,943
2017	\$18,261,674	\$851,016	\$1,974,227	\$948,523	\$22,886,456
2018	\$17,602,367	\$801,828	\$1,927,996	\$992,587	\$22,126,606
2019	\$16,515,594	\$749,550	\$1,526,429	\$2,113,839	\$21,654,962
CAGR 2012-2015	6.85%	2.92%	9.79%	-51.39%	15.98%
CAGR 2016-2019	-3.76%	-3.09%	-28.53%	274.36%	-8.13%

Table A27: Accidents: Total of Collisions, Injuries, and Fatalities

	MB	DR	YR	CB	Total
2012	133	22	-	0	155
2013	144	12	-	0	156
2014	146	12	-	0	158
2015	168	24	-	0	192
2016	143	11	5	0	154
2017	141	28	2	0	169
2018	160	14	4	0	174
2019	159	25	5	6	190
CAGR 2012-2015	8.10%	2.94%	-	-	7.40%
CAGR 2016-2019	-1.37%	1.03%	-	-	-0.26%

Table A28: Major Mechanical Failures

	MB	DR	YR	CB	Total
2012	2,883	120	6	128	3,137
2013	2,156	11	7	73	2,247
2014	414	186	4	98	702
2015	4,902	173	15	99	5,189
2016	4,078	285	3	99	4,465
2017	2,938	393	4	143	3,478
2018	3,455	291	6	14	3,766
2019	3,971	241	5	31	4,248
CAGR 2012-2015	19.36%	12.97%	35.72%	-8.21%	18.27%
CAGR 2016-2019	-5.13%	8.64%	-24.02%	-25.19%	-4.88%

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Table A29: Other Mechanical Failures

	MB	DR	YR	CB	Total
2012	1,198	8	6	3	1,215
2013	1,517	180	7	32	1,736
2014	212	122	16	22	372
2015	418	131	16	22	587
2016	921	202	0	11	1,134
2017	487	183	0	27	697
2018	492	155	0	9	656
2019	597	146	0	4	747
CAGR 2012-2015	-29.60%	153.94%	38.67%	94.28%	-21.53%
CAGR 2016-2019	9.32%	2.75%	-100.00%	-34.70%	6.21%

#### Performance Indicators

Table A30: Operating Cost per Passenger Trip

	MB	DR	YR	CB	Average
2012	\$3.29	\$50.40	\$21.54	\$16.28	\$4.60
2013	\$3.27	\$51.76	\$16.43	\$12.04	\$4.55
2014	\$3.98	\$52.60	\$20.71	\$13.52	\$5.42
2015	\$4.16	\$55.21	\$17.76	\$8.25	\$5.57
2016	\$5.10	\$57.89	\$28.62	\$9.45	\$6.97
2017	\$5.34	\$61.98	\$26.37	\$10.25	\$7.32
2018	\$5.75	\$60.23	\$28.58	\$12.06	\$7.79
2019	\$5.84	\$54.56	\$26.48	\$10.77	\$7.58
CAGR 2012-2015	8.18%	3.09%	-6.23%	-20.28%	6.58%
CAGR 2016-2019	8.82%	-0.30%	10.51%	6.90%	8.04%

Table A31: Operating Cost per Revenue Hour

	MB	DR	YR	CB	Average
2012	\$106.81	\$97.23	\$1,116.38	\$264.21	\$116.16
2013	\$107.34	\$99.13	\$1,186.51	\$210.03	\$117.02
2014	\$119.30	\$98.16	\$1,361.41	\$195.18	\$126.34
2015	\$115.51	\$99.55	\$1,235.45	\$120.29	\$120.31
2016	\$119.35	\$101.59	\$1,840.81	\$127.51	\$128.37
2017	\$118.52	\$109.38	\$1,709.25	\$133.95	\$128.97
2018	\$116.53	\$106.97	\$1,762.14	\$155.93	\$127.78
2019	\$115.15	\$95.72	\$1,562.44	\$136.30	\$121.10
CAGR 2012-2015	2.64%	0.79%	3.44%	-23.07%	1.18%
CAGR 2016-2019	-0.08%	-0.97%	6.05%	3.17%	0.16%

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Table A32: Operating Cost per Revenue Mile

	MB	DR	YR	CB	Average
2012	\$106.81	\$97.23	\$1,116.38	\$264.21	\$116.16
2013	\$107.34	\$99.13	\$1,186.51	\$210.03	\$117.02
2014	\$119.30	\$98.16	\$1,361.41	\$195.18	\$126.34
2015	\$115.51	\$99.55	\$1,235.45	\$120.29	\$120.31
2016	\$119.35	\$101.59	\$1,840.81	\$127.51	\$128.37
2017	\$118.52	\$109.38	\$1,709.25	\$133.95	\$128.97
2018	\$116.53	\$106.97	\$1,762.14	\$155.93	\$127.78
2019	\$115.15	\$95.72	\$1,562.44	\$136.30	\$121.10
CAGR 2012-2015	2.64%	0.79%	3.44%	-23.07%	1.18%
CAGR 2016-2019	-0.08%	-0.97%	6.05%	3.17%	0.16%

Table A33: Tax Receipts per Passenger (All Modes)

Year	Total
2012	\$4.68
2013	\$4.95
2014	\$5.71
2015	\$6.12
2016	\$7.23
2017	\$7.79
2018	\$8.40
2019	\$8.57
CAGR 2012-2015	9.36%
CAGR 2016-2019	8.75%

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Table A34: Fare Recovery

	MB	DR	YR	CB	Average
2012	14.31%	2.53%	19.95%	10.62%	12.25%
2013	14.95%	1.99%	24.49%	8.77%	12.96%
2014	14.45%	2.19%	19.84%	6.23%	12.35%
2015	14.34%	2.28%	16.81%	10.44%	12.08%
2016	13.14%	2.17%	9.26%	11.02%	10.64%
2017	12.53%	2.05%	9.08%	17.54%	10.27%
2018	11.39%	1.97%	8.32%	13.41%	9.44%
2019	10.00%	1.94%	7.90%	25.16%	9.03%
CAGR 2012-2015	0.06%	-3.42%	-5.54%	-0.56%	-0.46%
CAGR 2016-2019	-8.63%	-3.89%	-17.20%	24.61%	-7.02%

Table A35: Vehicle Occupancy by Mode

	MB	DR	YR	CB	Average
2012	10.23	1.02	35.99	13.15	8.33
2013	10.38	1.07	47.54	13.87	8.75
2014	10.43	1.06	42.92	12.07	8.59
2015	10.34	1.02	46.85	12.84	8.60
2016	8.05	1.04	44.38	11.96	6.96
2017	8.00	1.05	43.30	10.44	6.84
2018	7.54	1.03	39.54	11.19	6.53
2019	7.27	1.07	38.48	12.81	6.42
CAGR 2012-2015	0.36%	-0.16%	9.18%	-0.81%	1.07%
CAGR 2016-2019	-8.44%	1.21%	-4.80%	-0.05%	-7.03%

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Table A36: On-Time Performance by Mode

	MB	DR	YR	CB	Average
2012	87.20%	95.50%	99.10%	87.30%	87.20%
2013	88.50%	94.30%	97.60%	89.00%	88.50%
2014	88.90%	93.70%	96.40%	87.80%	88.90%
2015	87.10%	91.30%	96.90%	90.40%	87.10%
2016	81.15%	93.86%	95.97%	77.50%	81.15%
2017	82.47%	93.85%	97.65%	82.00%	82.47%
2018	84.45%	92.39%	96.54%	85.57%	84.45%
2019	84.16%	90.34%	97.21%	81.46%	84.16%
CAGR 2012-2015	-0.04%	-1.49%	-0.75%	1.17%	-0.04%
CAGR 2016-2019	-0.85%	-0.26%	0.08%	-2.57%	-0.85%

Table A37: Accident Rate per 100,000 Miles by Mode

	MB	DR	YR	CB	Total
2012	0.93	0.40	-	0.00	0.73
2013	1.01	0.22	-	0.00	0.74
2014	1.01	0.22	-	0.00	0.74
2015	1.08	0.40	-	0.00	0.83
2016	0.89	0.18	1.49	0.00	0.67
2017	0.87	0.45	0.59	0.00	0.72
2018	0.93	0.21	1.78	0.00	0.70
2019	0.90	0.37	2.27	0.34	0.72

Table A38: Miles Between Road Calls by Mode

	MB	DR	YR	CB	Total
2012	3,510	42,759	23,777	8,391	4,867
2013	3,881	28,371	23,648	10,353	5,295
2014	23,066	17,995	16,537	9,319	19,954
2015	2,936	19,517	10,823	9,344	3,985
2016	3,212	12,438	112,213	10,176	4,210
2017	4,709	10,877	84,804	6,599	5,713
2018	4,346	14,757	64,149	63,632	5,786
2019	3,882	17,416	150,117	50,120	5,401
CAGR 2012-2015	-5.78%	-23.01%	-23.07%	3.65%	-6.45%
CAGR 2016-2019	7.23%	-2.81%	92.98%	52.18%	7.90%

# Appendix D

## Recommendations for Management Matrix

**Capital Metropolitan Transit Authority**  
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**Recommendations for Management:** The following Quadrennial Performance Audit areas identified are considered to be enhancements to internal controls, processes, procedures, efficiency and effectiveness of operations or improvements to the management of the Authority.

Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
<b>TASK 1 - Administration and Management of the Authority</b>				
REC 1	<p><b>Contract Management System</b>                      CMTA's primary operations (such as Bus and Rail services) are outsourced to third parties and require effective, efficient, and timely contract management by internal contract managers. However, current procedures and processes are not uniform across the Authority or performed systematically to monitor and manage performance and financial status.</p>	<p>Lack of uniform processes across contract managers and operations may negatively impact program efficiencies across the authority to ensure consistent and effective contract management practices.</p>	<p>Management should consider implementing a contract management system that incorporates performance measures, budget to actual financial data, tracking of quality assurance measures performed, and dashboards for monitoring compliance and performance of the data being received, which will ensure a more uniform practice and methodology across the Authority. In addition, a contract management system can result in decisions that are driven and supported through data that can be easily verified by management.</p>	<p><b>Management's Response:</b>                      Management agrees that a contract management system would streamline and more easily align contract oversight activities across the modes of service. Previous efforts to identify such a solution were not successful. We will survey the offerings available for such a system and determine if the cost of the system is warranted given the functionality available.</p> <p><b>Responsible Party:</b> Dottie Watkins</p> <p><b>Implementation Date:</b> Initiation of the review of system options to begin March 2021</p>

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Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
REC 2	<p><b>Credential and Qualification Tracking of Staff within Operations and Maintenance Oversight (OMO)</b>                      Personnel files for staff within OMO can appear to include credential or qualification gaps. However, OMO personnel have historically acquired needed skills and experience through on-the-job training and tenure with the Authority, which is common for Transportation Authority's.</p>	<p>The lack of up to date personnel files prevents management from effectively assessing credentials and qualifications of staff to identify resource and/or training needs.</p>	<p>Management should consider a review of credential and qualifications among OMO staff and ensure files are reflected of this experience that is gained through on-the-job training.</p>	<p><b>Management's Response:</b> The People and Culture Department will review the personnel files for each of the six employees identified to ensure their experience gained through on the job training is documented.</p> <p><b>Responsible Party:</b> Donna Simmons</p> <p><b>Implementation Date:</b> February 2021</p>
<b>TASK 2 - Chapter 451 Compliance Review</b>				
REC 3	<p><b>Board Meeting Quorum</b>                      Texas Government Code § 551.101 states that a quorum must be present to enter into a closed session. While the meeting minutes shows the voting results and apparent quorum after mentioning the closed session occurring, the board minutes do not formally state that a quorum is present prior to the movement to a closed session.</p>	<p>The lack of formal documentation of a quorum being met prior to entering closed session could result in future non-compliance with Texas Government Code § 551.101.</p>	<p>Management should revise current practices to ensure the board meeting minutes note that a quorum is present in the recorded minutes before referencing the movement to a closed session.</p>	<p><b>Management's Response:</b> The process to document a quorum is present before moving to closed session for inclusion in the minutes has been revised to reflect the recommendation.</p> <p><b>Responsible Party:</b> Kerri Butcher</p> <p><b>Implementation Date:</b> Implemented effective January 1, 2021</p>

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Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
REC 4	<p><b>Dispositions and Destruction Central Tracker</b>                      Texas Local Government Code § 203.046, states that the governing body may require the Records Management Officer to keep accurate lists of records destroyed and other information as part of their responsibilities, in which CMTA is in compliance with this statute. However, current practices do not include the Records Management Officer maintaining a central tracker to validate the accuracy of destroyed records.</p>	<p>The lack of a centralized tracker for validating destroyed records could result in future non-compliance with Texas Local Government Code § 203.046.</p>	<p>Management should consider revising the Records Management Officer's Policies and Procedures to include a process for developing and maintaining a central tracker for compiling lists of dispositions and destruction of documents. This could also include the adoption of a systematic tracking tool that can be easily referenced by Records Management and other stakeholders to validate the accuracy of destroyed records.</p>	<p><b>Management's Response:</b> Capital Metro will develop a procedure and process to track dispositioned records.</p> <p><b>Responsible Party:</b>                      Kerri Butcher</p> <p><b>Implementation Date:</b> July 2021</p>

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Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
REC 5	<p><b>Training Requirement</b>            Texas Transportation Code § 451.0612(b), requires the Fare Enforcement Officers complete a 40-hour training before commencing their respective duties. However, since this process is outsourced to Herzog, CMTA does not independently maintain files for the training attended to validate completion and ensure the requirements are being met.</p>	<p>The lack of a independent validation and retaining of training records of Fare Enforcement Officer training could result in future non-compliance with Texas Transportation Code § 451.0612(b).</p>	<p>Management should consider updating record retention procedures to include maintaining a file with the relevant fare enforcement trainings' documentation to independently validate compliance with the statute. The contract managers should ensure that the required training is being achieved by all the Fare Enforcement Officers by obtaining the training records and storing them within the contract files and other appropriate locations to validate completion.</p>	<p><b>Management's Response:</b> Capital Metro requires its service provider to maintain training records for their employees. Maintaining a duplicate set of records is likely to create issues with inconsistency and confusion about which record is accurate. In lieu of maintaining an Authority copy of the records, Capital Metro will implement periodic file audits of employees tasked with fare enforcement to document that adequate training is properly documented in their file.</p> <p><b>Responsible Party:</b> Dottie Watkins</p> <p><b>Implementation Date:</b> January 2021</p>

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Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
REC 6	<p><b>Quadrennial Report Delivery</b>            Texas Transportation Code § 451.457, requires the quadrennial reports be delivered to specific recipients (e.g. Texas Governor, Lt. Governor, etc.). CMTA provided the cover memorandum as supporting documentation evidencing the recipient list of the 2012-2015 quadrennial performance report and proof of submission was obtained from the State Auditor's Office. However, CMTA did not maintain proof of submission to more efficiently verify compliance.</p>	<p>The lack of retaining proof of submission of the quadrennial performance report to the appropriate stakeholders could result in future non-compliance with Texas Transportation Code § 451.457.</p>	<p>Management should consider implementing a process to retain receipt and proof of submission, for the delivery of the quadrennial reports to the applicable recipients in accordance with the statute. The proof of submission should be part of the record retention procedures and maintained with the final and approved Quadrennial Performance Report.</p>	<p><b>Management's Response:</b> Staff will retain copies of the transmittal records in a shared file with documents related to the Quadrennial Report for future access.</p> <p><b>Responsible Party:</b> Kerri Butcher</p> <p><b>Implementation Date:</b> February 2021</p>

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Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
<b>TASK 3 - Performance Indicator Review</b>				
<b>REC 7</b>	<p><b>Increase of Fares</b>                      CMTA fare recovery is low at approximately 10% of its costs and declined across all modes except for Commuter Bus. Addressing low fare recovery in an environment of declining riderships would be counterproductive. However, as ridership recovers, fare increases may be warranted and should be further evaluated.</p>	<p>CMTA's fare pricing model may not be sustainable with the increases in the cost of transit operations.</p>	<p>Management, in coordination with the Board of Directors, should continue to review and evaluate its fare policy and pricing model annually and provide recommendations for adjustments that take into consideration the impacts to the community and customer demographics. Additionally, Management should consider the impact of the unlimited monthly MetroAccess pass on fare recovery and identify alternative options that are favorable to the community while increasing fare recovery.</p>	<p><b>Management's Response:</b>                      While Management makes recommendations with regards to fares, fares policy is under the purview of the Board of Directors. Fare revenues are regularly evaluated as one of the agency's funding sources and in terms of the long term financial sustainability of the agency. The impacts of fare increases on the community and customer demographics are also important factors to be considered.</p> <p><b>Responsible Party:</b> Reinet Marneweck</p> <p><b>Implementation Date:</b> Ongoing</p>

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Ref	Issue Identified	Effect / Risk Exposure	Recommendation	Management's Response
REC 8	<p><b>Documentation of Data Reporting and Validation Process</b>                      The sampling and data validation process reflected consistent reporting across all modes, with the exception of Demand Response (DR) revenue miles, hours, and passenger trips for 2016, 2017, and 2018, which was due to data collection and storage being performed within OMO. The loss of the staff person in charge of the collection efforts resulted in gaps in the process documentation to capture and validate revenue mile and hour reporting for all modes. Although the data was able to be verified and interpreted for the review, improvement to the documentation and storage of data reporting and validation by the appropriate department will ensure accurate records for the future.</p>	<p>Lack of uniform processes for validating data and maintaining documentation may negatively impact program efficiencies within the authority.</p>	<p>Management should consider formalizing processes for maintaining documentation and the storage of data reporting and validation within the Demand Response Oversight Department. The storage of the documentation should also be accessible to Management to ensure information is not lost due to turnover.</p>	<p><b>Management's Response:</b> The issue with data consistency for the demand response mode has previously been identified and corrected by staff. All demand response NTD data is now managed from within the demand response department and has been organized into a single SharePoint location for record storage.</p> <p><b>Responsible Party:</b> Dottie Watkins</p> <p><b>Implementation Date:</b> Implemented June 2020 prior to the initiation of the FY2016-2019 Quadrennial Performance Audit procedures</p>

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