

# November 2014

## Monthly Operations Report



## Table of Contents

1.0	Volumes and Lane Usage .....	3
2.0	Bus Travel Time .....	5
3.0	Revenues .....	5
4.0	Operational Incidents, Issues, and Closures .....	5
5.0	Mean Time Between Failure (MTBF) and Mean Time to Repair (MTTR) .....	5
6.0	Hybrid Utilization .....	6

### TABLES

Table 1 - November 2014 Traffic Summary .....	3
Table 2 - Hybrid Utilization .....	6

### FIGURES

Figure 1 - Traffic by Type .....	4
Figure 2 - Daily Traffic Volumes .....	4

# INTRODUCTION

Pursuant to Schedule 6, Section 1.8.2(a) of the Concession Agreement, Plenary Roads Denver (“PRD”) is required to submit a monthly report covering all essential statistics related to the Managed Lanes. The following data covers the month of November 2014.

## 1.0 VOLUMES AND LANE USAGE

The total monthly traffic volume for November 2014 was 255,558.

The table below provides the monthly summary, along with a detailed breakdown of weekday volumes. For reference, the AM Peak Period is considered to be weekdays from 6:45 am – 8:45 am. The PM Peak Period is considered to be weekdays from 4:30pm – 6:00pm.

The following tables depict the daily traffic counts (Table 1) and distribution of traffic by type (Table 2) for the month.

Traffic Summary						
	AVI	LPT	HOV	Violation	Total	Hybrid
<b>Total Monthly Traffic</b>	66,760	29,497	158,639	662	255,558	3,581
<b>Maximum Weekday Traffic</b>	4,095	1,928	7,535	52	12,657	222
<b>Average Weekday Traffic</b>	2,225	983	5,288	22	8,519	119
<b>Average Hourly AM Peak Traffic</b>	1,113	492	2,644	12	4,259	128
<b>Average Hourly PM Peak Traffic</b>	1,484	655	3,525	16	5,679	128

Table 1 - November 2014 Traffic Summary

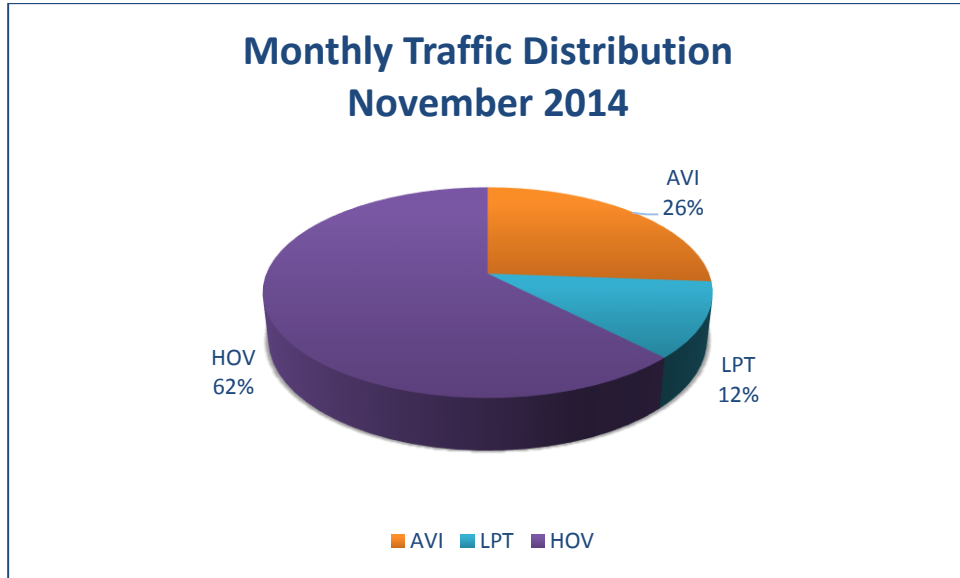


Figure 1 – Daily Traffic Counts

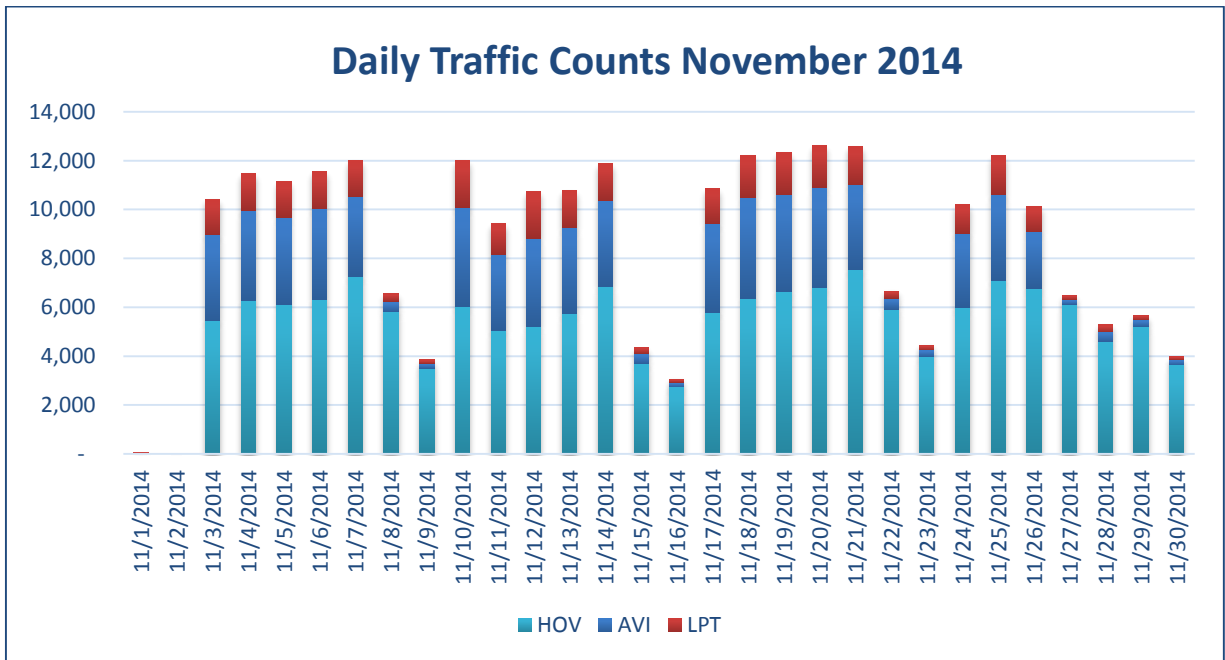


Figure 2 – Monthly Traffic Distribution

## 2.0 BUS TRAVEL TIME

Beginning in 2013, RTD has been replacing its old T21 plastic case transponders with new 6C sticker transponders. The travel time indicators (“TTIs”) in the lanes are only able to read the T21 protocol. As a result, there is not an ability to track the travel times of the buses in the Express Lanes during the month of November 2014. Updated TTIs have been procured and will be installed during the coming months.

## 3.0 REVENUES

During the month of November 2014, PRD collected \$254,694 from users of the Managed Lanes. For the purposes of this report, revenues are recognized at the time of collection, which is typically sometime after they have been incurred for those customers who are billed based on their license plate. For example, if a single-occupant vehicle uses the lanes in March but pays in November, the associated revenue is attributed to November.

## 4.0 OPERATIONAL INCIDENTS, ISSUES, AND CLOSURES

In addition to three routine lighting and sweeping incidents, the Project experienced two Category 1 incidents during the month. Brief descriptions of the both are provided below:

- **11/15/2014** –A vehicle struck both barriers within the Managed Lanes, leaving a lengthy trail of debris. The Concessionaire assisted the CSP with an accident cleanup in the Managed Lanes.
- **11/17/2014** – The Concessionaire received a report of a debris in the Managed Lanes. The debris was removed from the Managed Lanes.

All incident responses and rectifications were completed within the allowable timeframes.

## 5.0 MEAN TIME BETWEEN FAILURE (MTBF) AND MEAN TIME TO REPAIR (MTTR)

Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR) data is provided in the table below. Only Maintained Elements that were repaired during the reporting period and had a failure type breakdown are listed in the table. We consider a breakdown to be a failure when the element cannot be used for its intended purpose until repaired.

Maintained Element	Mean Time Between Failure (MTBF) (Hours)	Mean Time To Repair (MTTR) (Hours)
040-I25-GAT-GS07-GATE10	3181.75	1.25

## 6.0 HYBRID UTILIZATION

Total Hybrid Trips	Average AM Peak	Average PM Peak
3,581	128	128

Table 2 - Hybrid Utilization

Fuel efficient “Hybrid” vehicles are permitted to access the Express Lanes free of charge, regardless of occupant numbers, provided that they have obtained a permit from CDOT, obtained a Hybrid transponder from E-470, and display an E-470 Hybrid decal on the vehicle’s windshield.