

MEMORANDUM

Date: August 19, 2014 **TG:** 13305.03

To: Sandra Woods and Jonathan Williams - Seattle Department of Transportation

From: Stefanie Herzstein – Transpo Group

Subject: Westlake Avenue N On-Street Parking Study

This memorandum documents the on-street parking counts conducted for the Westlake Avenue N area of Seattle. The parking study area spans roughly 1.25 miles along Westlake Avenue N, starting just north of the Westlake Avenue N/Aloha Street intersection and ending at the 2700 Block of Westlake Avenue N (near Diamond Marina).

Data Collection

The intent of the data collection was to understand the occupancy of the Westlake Avenue N parking area as well as duration or length of stay for vehicles. Parking counts were conducted on a Wednesday from 6 AM to 2 AM and on a Saturday from 9 AM to 7 PM in August 2014. The counts were performed during the active boating season for Lake Union. Data were collected in 2 hour sweeps with the data collectors beginning parking counts at the same location in the study area every 2 hours. For example, data collection began at 6 AM at one end of the study area and ended at 8 AM at the other end. The 8 AM to 10 AM parking counts began at the same location as the 6 AM to 8 AM counts. The data collected gives an understanding of occupancy and duration within a two-hour window of time. The parking data collection also noted restricted parking zone (RPZ) permits for zone 25, car2go vehicles, and vehicles with disability permits.

The corridor was divided into 14 sections (B-N) consistent with previous data collection conducted for Westlake Avenue N and documented in the memorandum *City of Seattle Department of Transportation Westlake Avenue North Cycle Track Phase 1: Alternatives Evaluation Parking Utilization Study*; To: Barbara Lee, City of Seattle; From: Virginia Coffman, Kristen Lohse, and Peter Lagerwey, Toole Design Group, March 21, 2014. Figure 1 illustrates the study area and 14 sections. Table 1 provides a summary of the parking supply for each section. Data were collected for 1,234 parking spaces including 416 paid parking spaces and 818 unpaid parking spaces. The number of paid parking spaces includes marked accessible spaces.

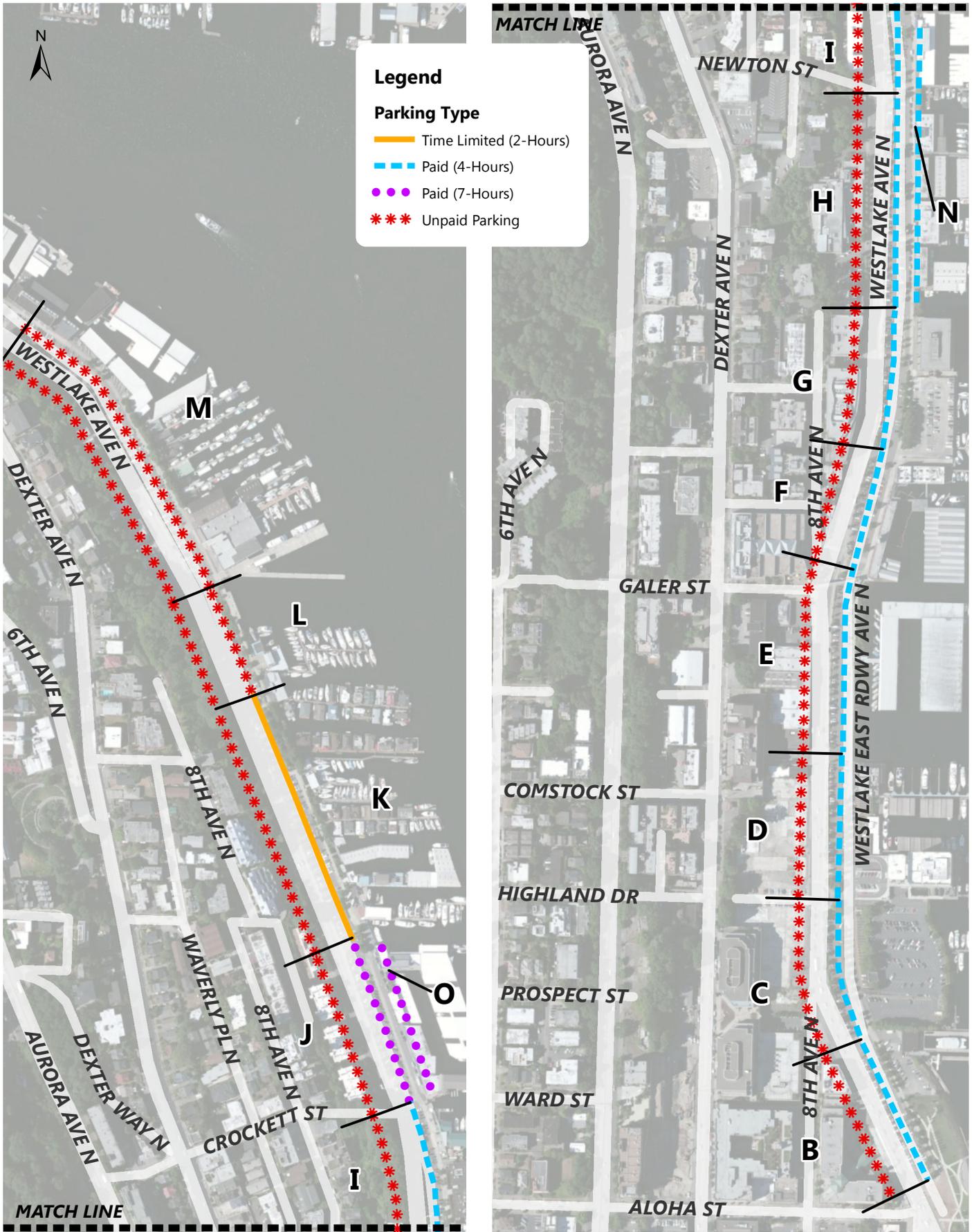


Table 1. Westlake Avenue N On-Street Parking Supply

Section	Location	Number of Spaces by Type		Total Spaces
		Paid ¹	Unpaid	
B	Aloha St to 8th Ave	28	37	65
C	8th Ave to Highland Drive	37	44	81
D	Highland Drive to Driveway #4	27	41	68
E	Driveway #4 to Pedestrian Bridge/Galer St	52	59	116
F	Galer St to Driveway #6 (Discovery Yachts)	29	33	62
G	Driveway #6 to Blaine St	32	42	76
H	Blaine St to Newton St	70	67	137
I	Newton St to Crockett St	54	58	112
J	Crockett St to McGraw St	39	44	86
K ²	McGraw St to Driveway #11	0	51 (2-Hour) 92 (Unrestricted)	143
L	Driveway #11 to Halladay St	0	62	62
M	Halladay St to Driveway #14 (Diamond Marina)	0	188	188
N	Blaine St to Bella Materna	28	0	28
O ³	Crockett St to McGraw St	20	0	29
Total Spaces		416	818	1,234

1. The number of parking spaces includes marked accessible spaces.

2. Section K has a 2-hour parking time restriction on the east side and no time restriction on the west. All of Section K is unpaid parking.

3. Section O includes the paid parallel parking spaces along east side of Westlake Avenue N.

Results and Analysis

As described above, for each study section of the Westlake Avenue N corridor, data were collected to determine parking occupancy and duration. Parking occupancy and duration was determined for the paid and unpaid parking areas separately. Paid parking areas include areas with both 4-hour and 7-hour paid restrictions or limits. Paid parking is in effect between 9 AM and 4 PM, so 7-hours represents paid parking time over the entire day. The unpaid parking areas include free parking that may or may not have time restrictions. The results by section for both weekday and Saturday are summarized on the following pages.

Parking occupancy represents the percent of total paid or unpaid spaces that were occupied over the 2 hour collection interval. Peak occupancy is the highest observed occupancy for the two-hour intervals occurring between 6 AM and 2 AM on the weekday and 9 AM and 7 PM on Saturday. Duration represents the length of stay for the vehicles observed during the data collection period. Duration will under report the number of short parking sessions because observations were only made every 2 hours.

The data show that on weekdays peak parking occupancy is 98 percent or higher in the majority of unpaid parking areas. There is more availability in the paid parking areas on the weekday; however, the peak parking occupancy is 91 percent or above for 6 of the 11 sections with paid parking.

Parking on Saturdays is unrestricted along the Westlake Avenue N corridor except for the east side of Section K, which has a 2-hour parking restriction between 7 AM and 6 PM. Peak parking occupancy is over 86 percent in 6 of the 14 sections. The remaining sections have a peak parking occupancy of 82 percent or less.

The majority of vehicles stayed 4 hours or less on both weekdays and Saturdays. There were a high proportion of the vehicles parked in Section B (45 percent) and Section K (32 percent) who parked longer than the 4-hour time limit in the paid parking area.

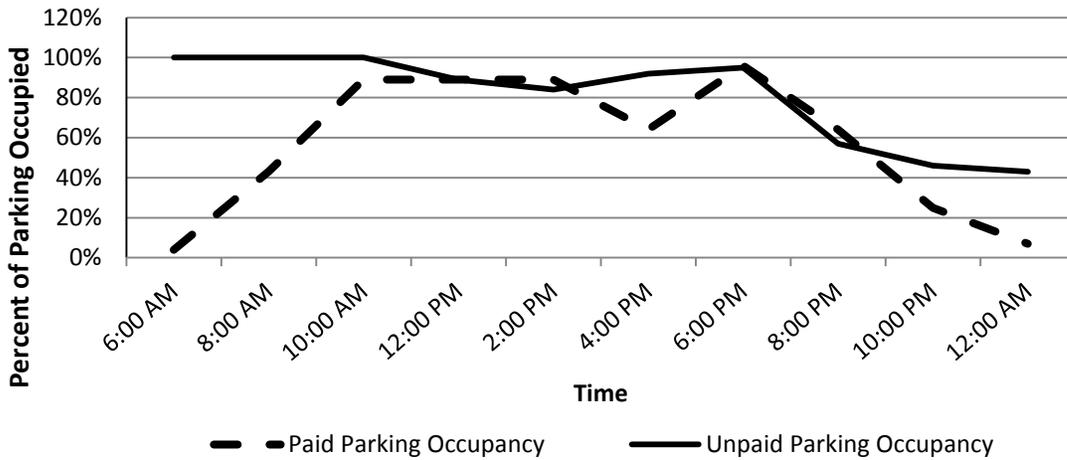


Section B - Weekday

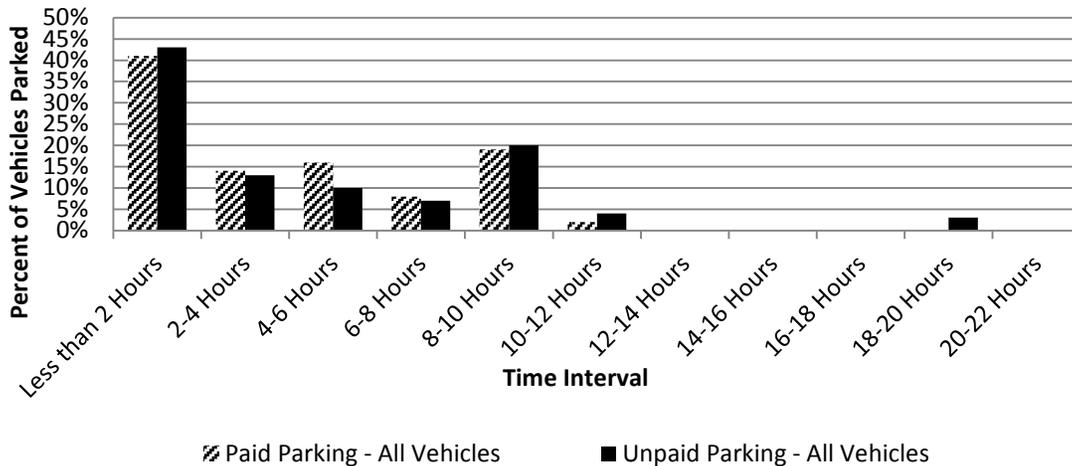
Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	28
Unpaid Parking Spaces	37

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	96%	1	1	-
Unpaid	100%	1	1	-

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM

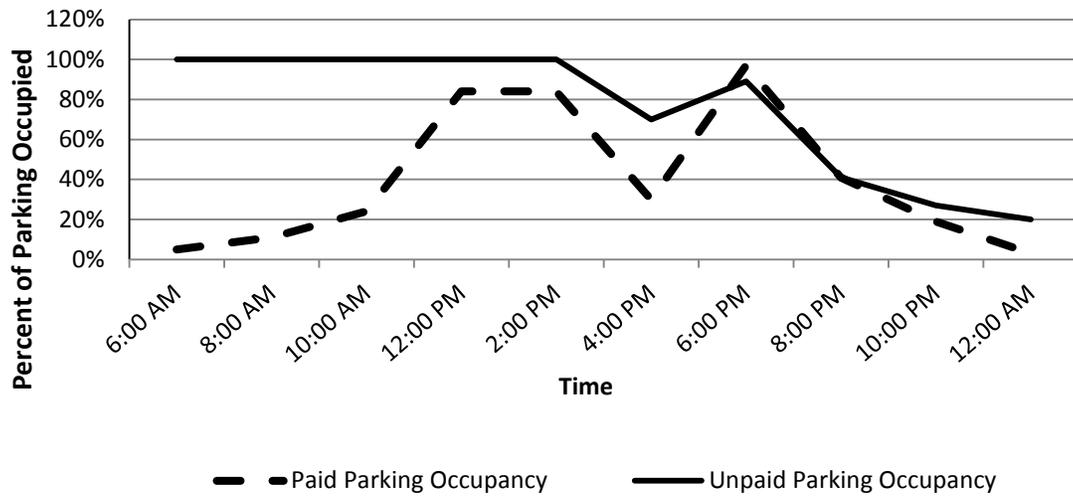


Section C - Weekday

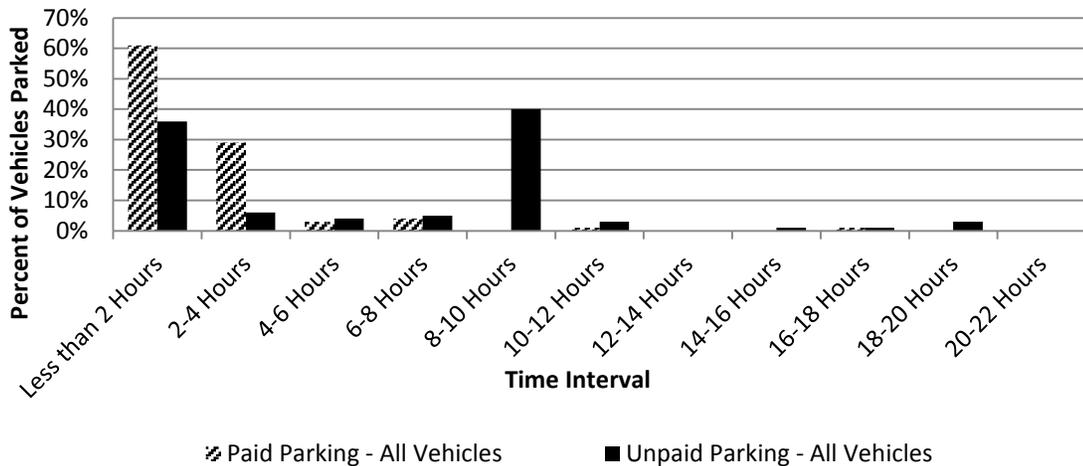
Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	37
Unpaid Parking Spaces	44

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	97%	-	1	-
Unpaid	100%	-	1	-

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM

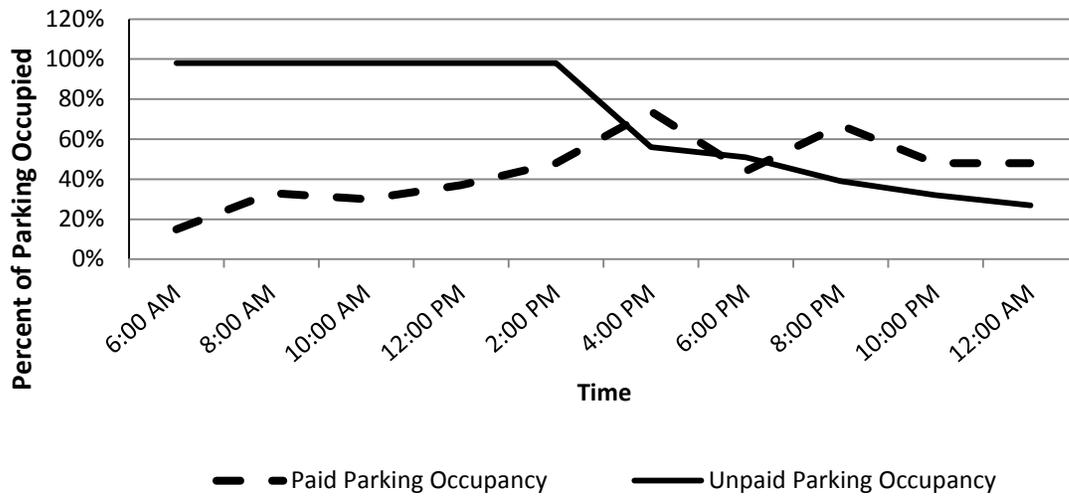


Section D - Weekday

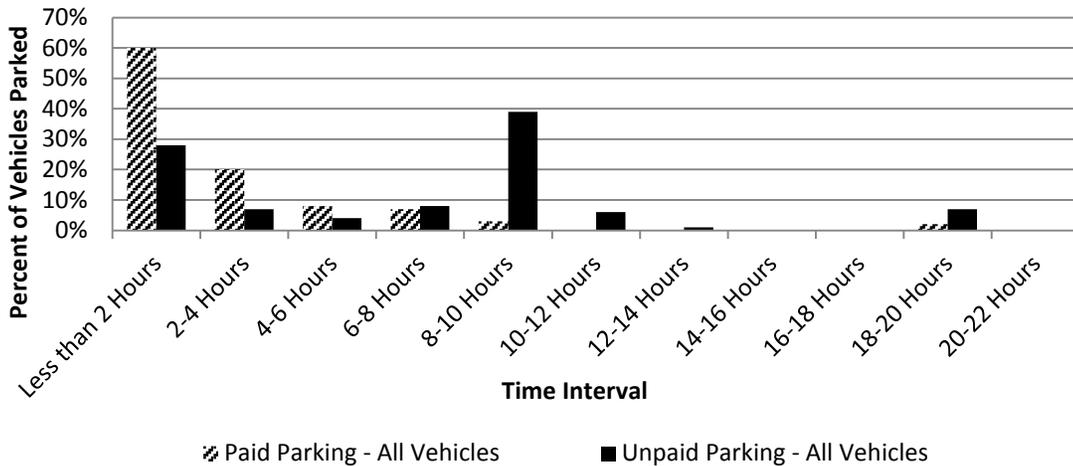
Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	27
Unpaid Parking Spaces	41

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	74%	1	-	1
Unpaid	98%	-	-	-

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM

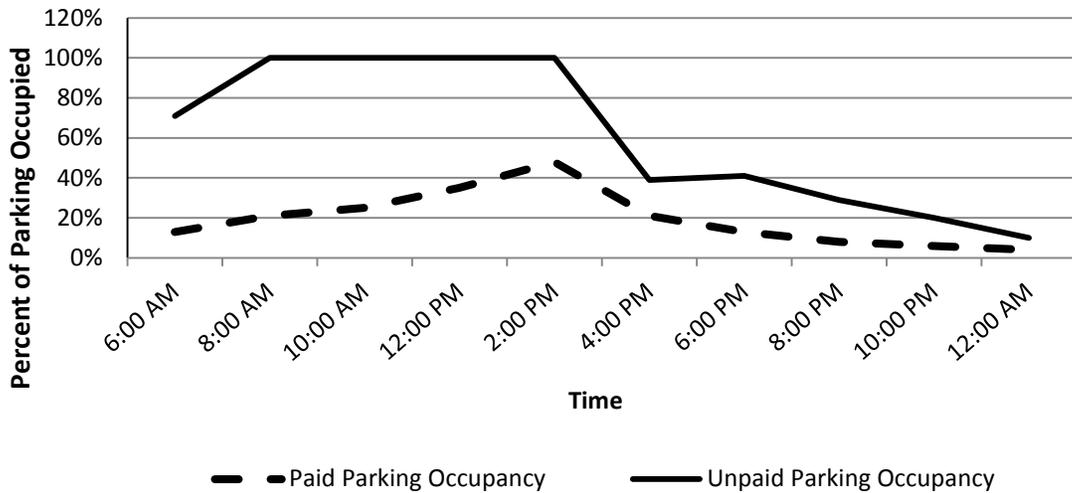


Section E - Weekday

Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	52
Unpaid Parking Spaces	59

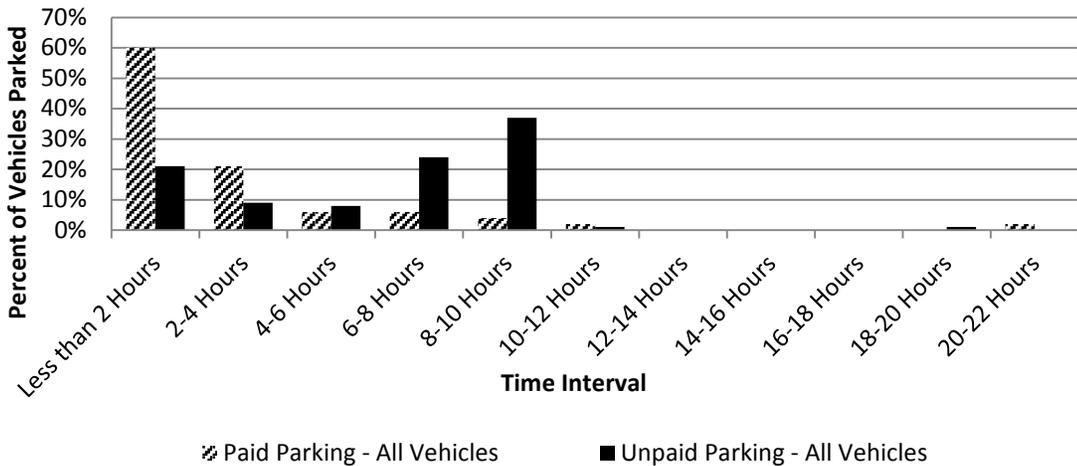
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	48%	1	-	-
Unpaid	100%	2	-	-

Parking Occupancy



Parking Duration

6:00 AM to 2:00 AM

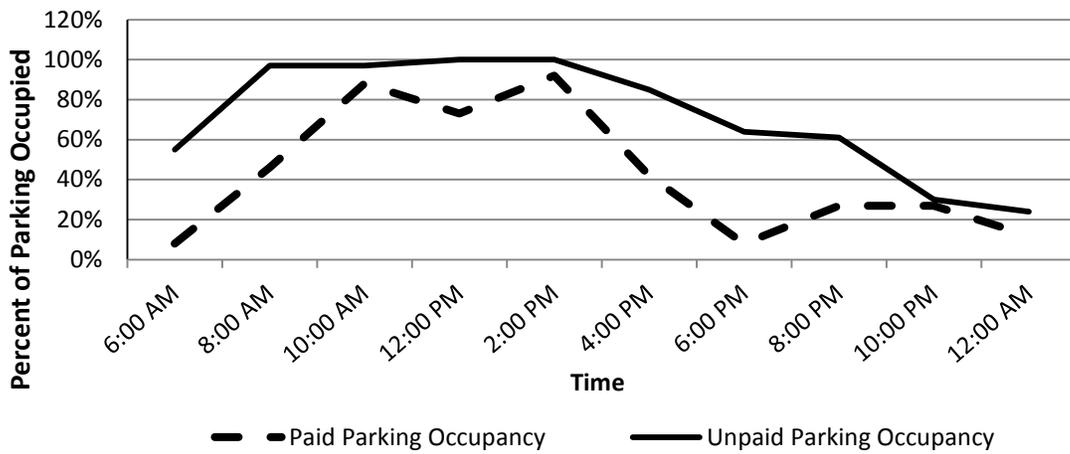


Section F - Weekday

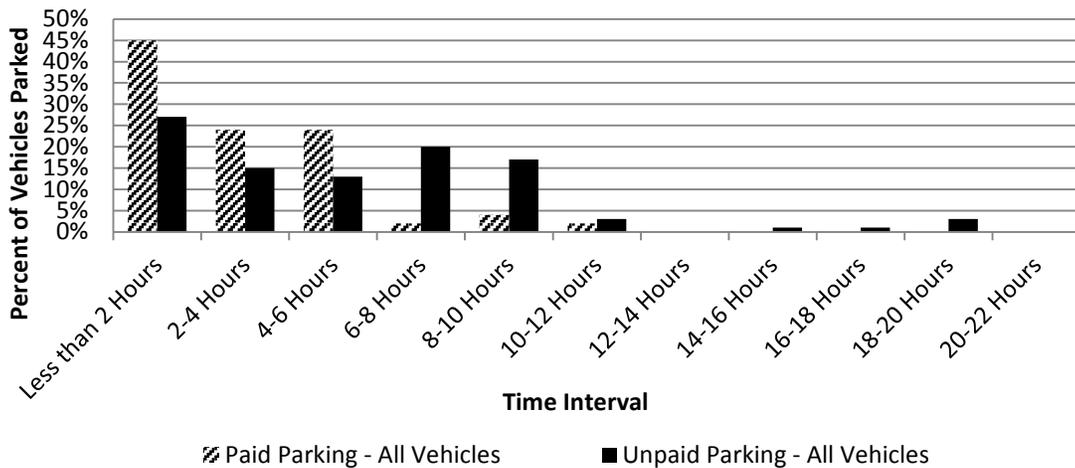
Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	26
Unpaid Parking Spaces	33

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	92%	1	-	-
Unpaid	100%	-	-	1

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM

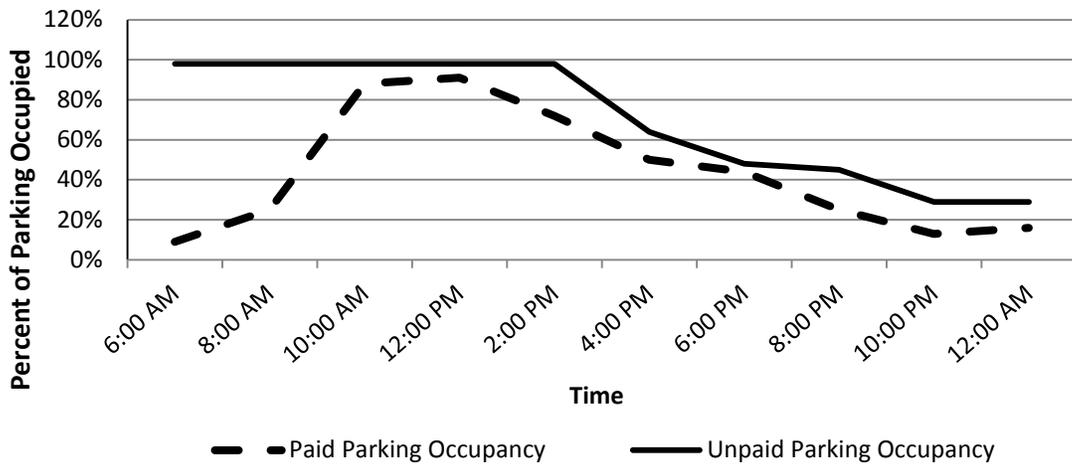


Section G - Weekday

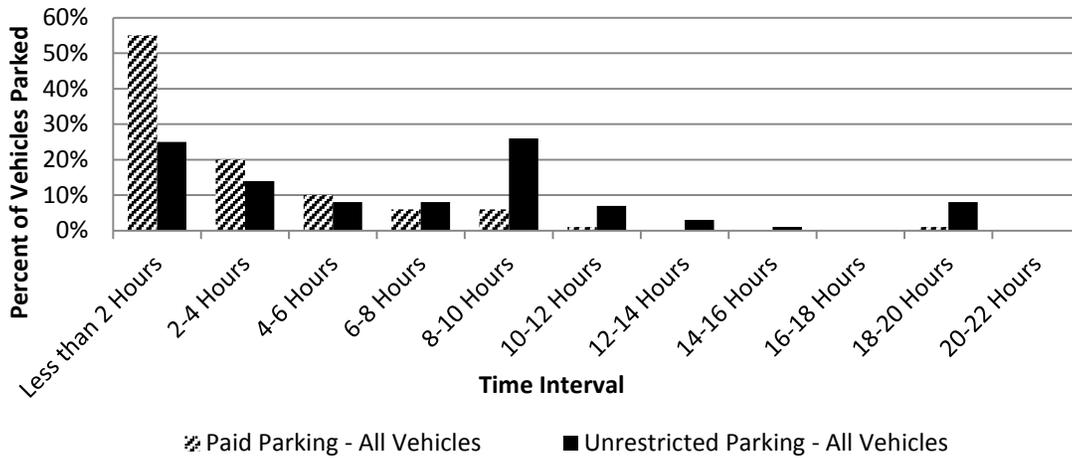
Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	32
Unpaid Parking Spaces	42

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	91%	2	-	2
Unpaid	98%	-	-	-

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM

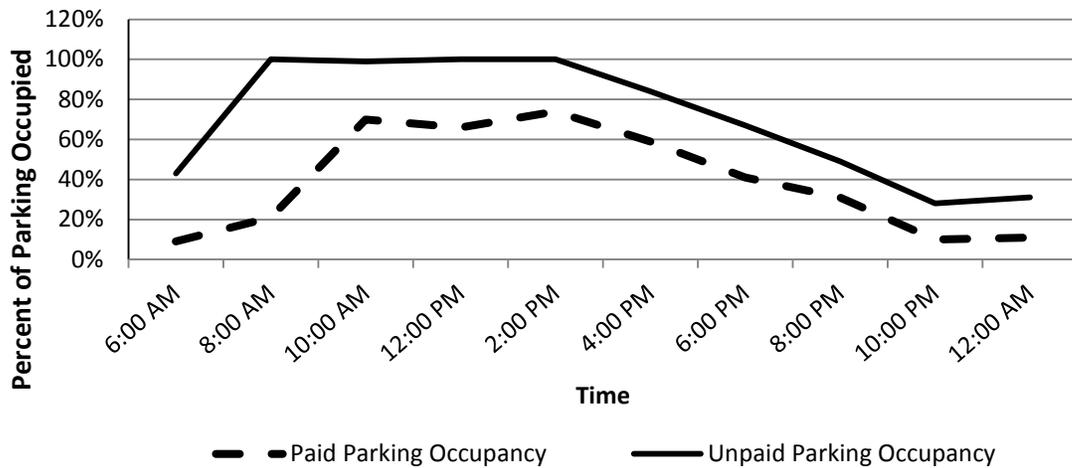


Section H - Weekday

Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	70
Unpaid Parking Spaces	67

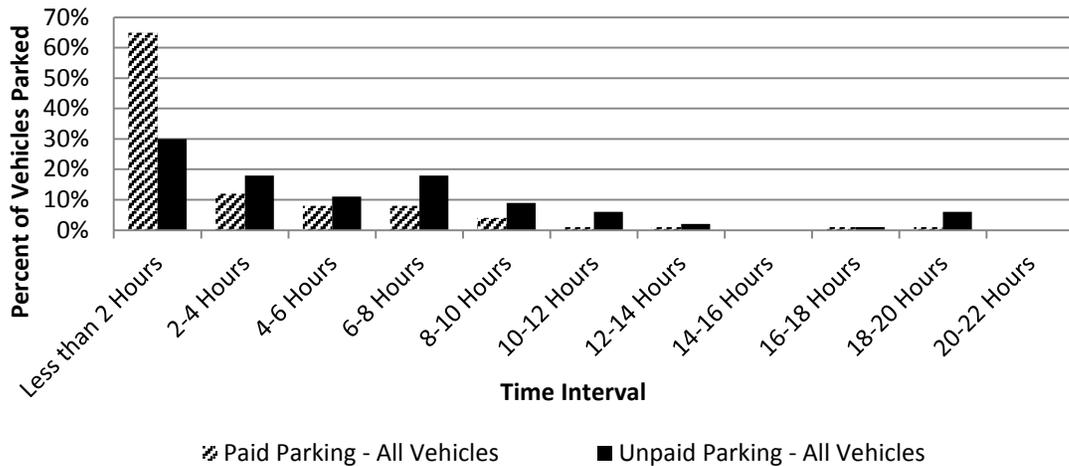
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	74%	5	1	3
Unpaid	100%	-	1	2

Parking Occupancy



Parking Duration

6:00 AM to 2:00 AM

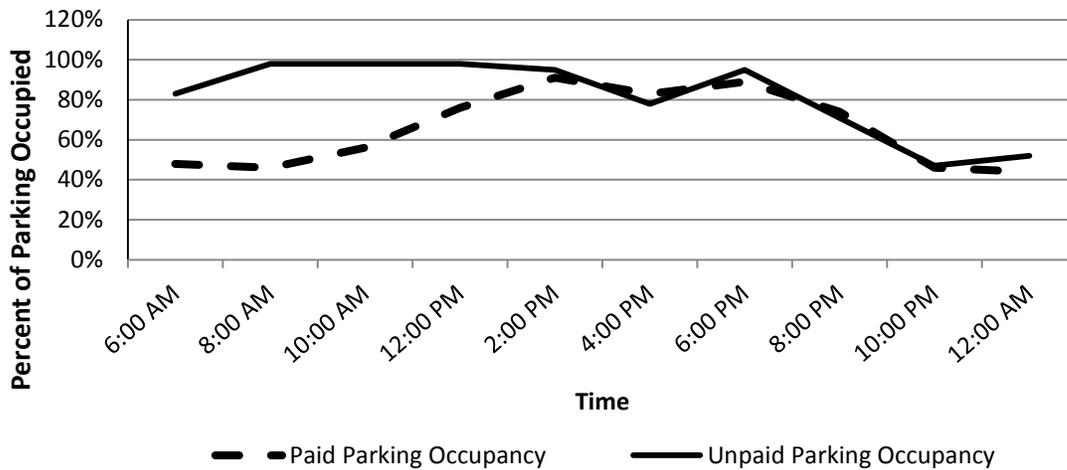


Section I - Weekday

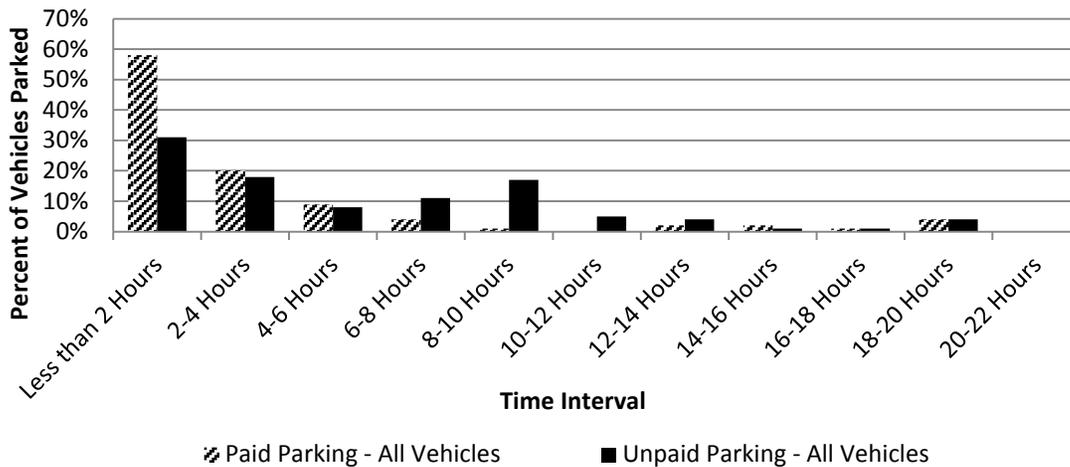
Paid Area Time Limit (During Paid Hours)	4 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	54
Unpaid Parking Spaces	58

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	91%	2	2	12
Unpaid	98%	-	-	2

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM

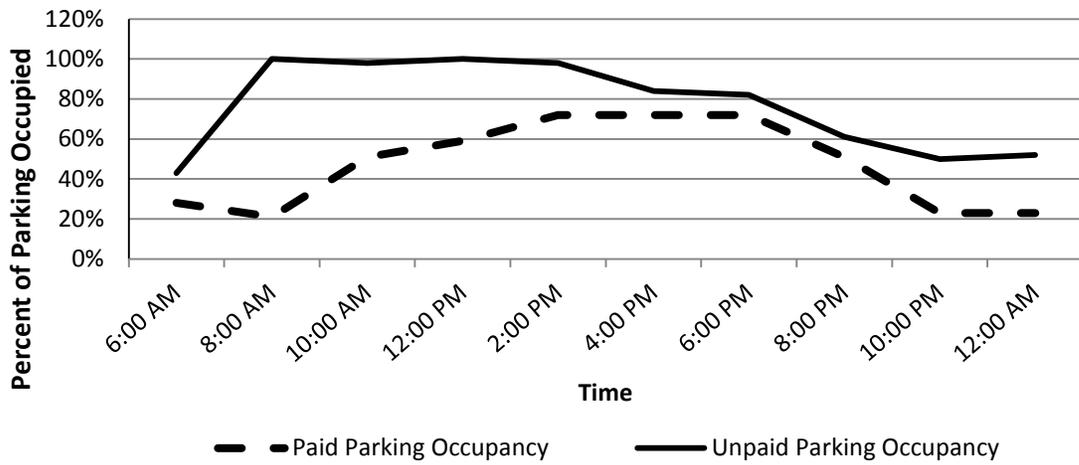


Section J - Weekday

Paid Area Time Limit (During Paid Hours)	7 Hours
Unpaid Area Time Limit	No Limit
Paid Parking Hours	9AM - 4PM
Paid Parking Spaces	39
Unpaid Parking Spaces	44

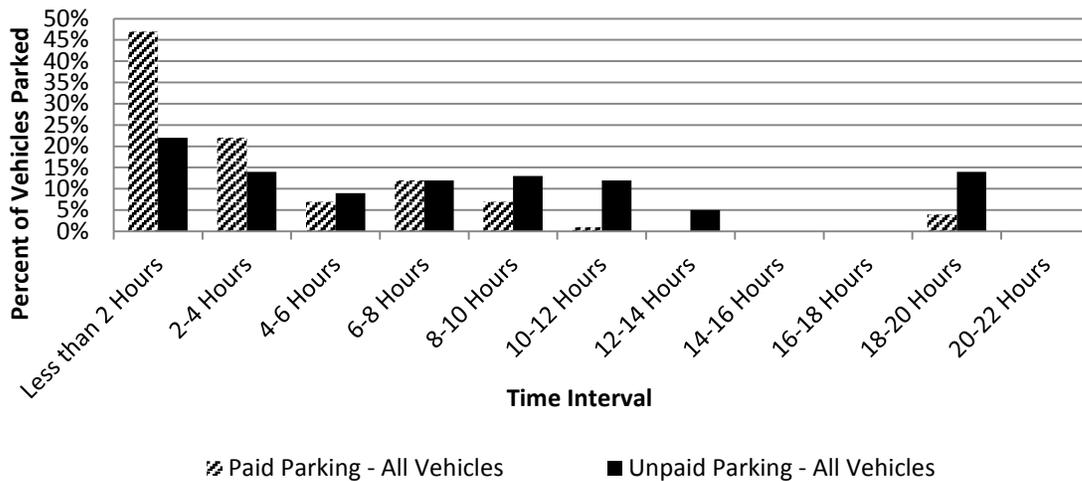
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	72%	1	-	6
Unpaid	100%	-	-	-

Parking Occupancy



Parking Duration

6:00 AM to 2:00 AM



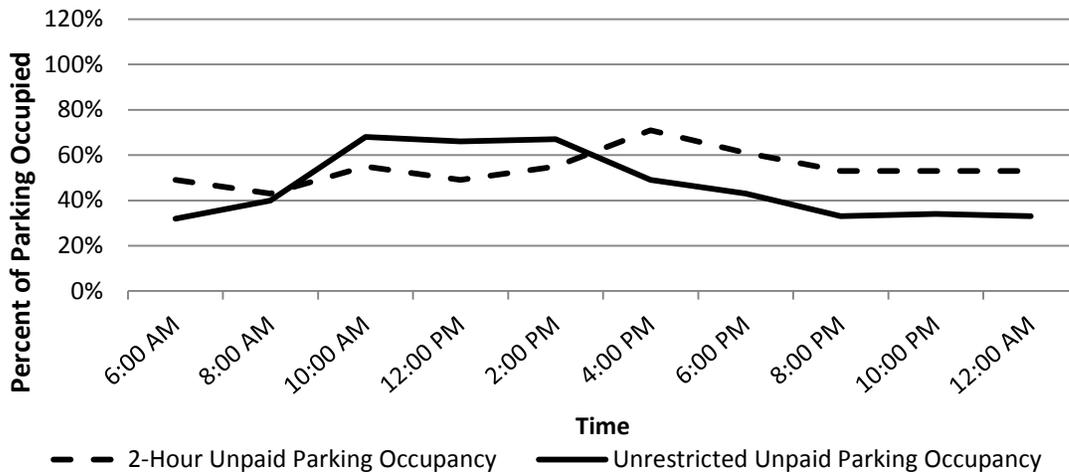
Section K - Weekday

Time Limit (During Restriction Hours)	2 Hours
Parking Restriction Hours (East side Westlake)	7AM - 6 PM
2-Hour Unpaid Parking Spaces	51
Unrestricted Unpaid Parking Spaces	92*

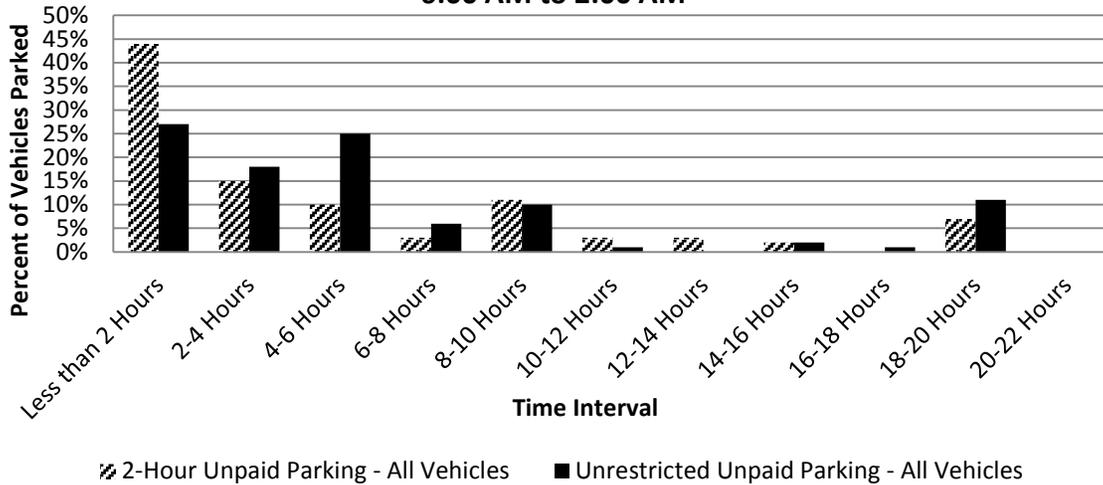
* The unrestricted parking has no parking time restrictions.

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
2-Hour Parking	71%	3	-	19
Unrestricted Parking	68%	2	-	6

Parking Occupancy Westlake - Weekday (Section K)



Parking Duration 6:00 AM to 2:00 AM



Section L - Weekday

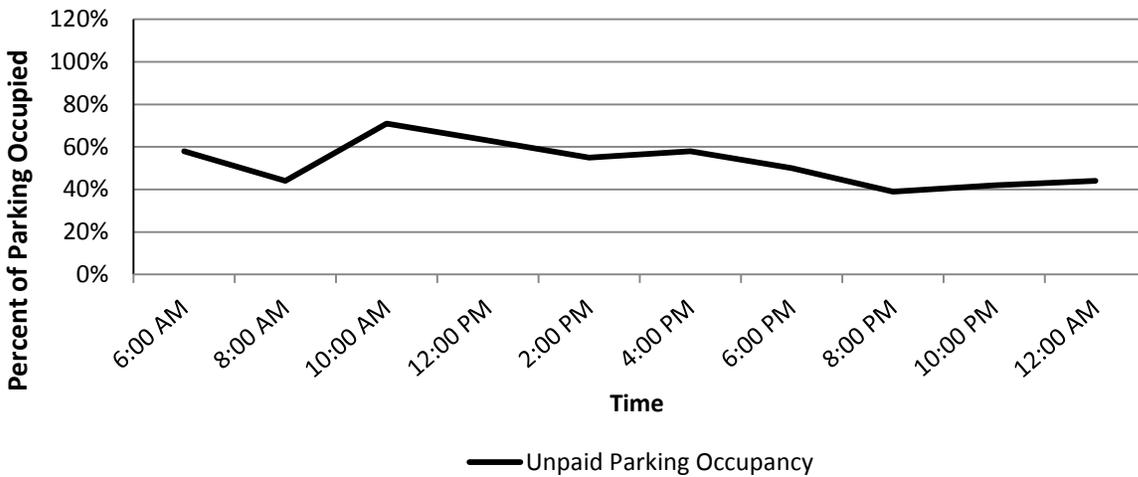
Unpaid Area Time Limit No Limit

Paid Parking Spaces 0

Unpaid Parking Spaces 62

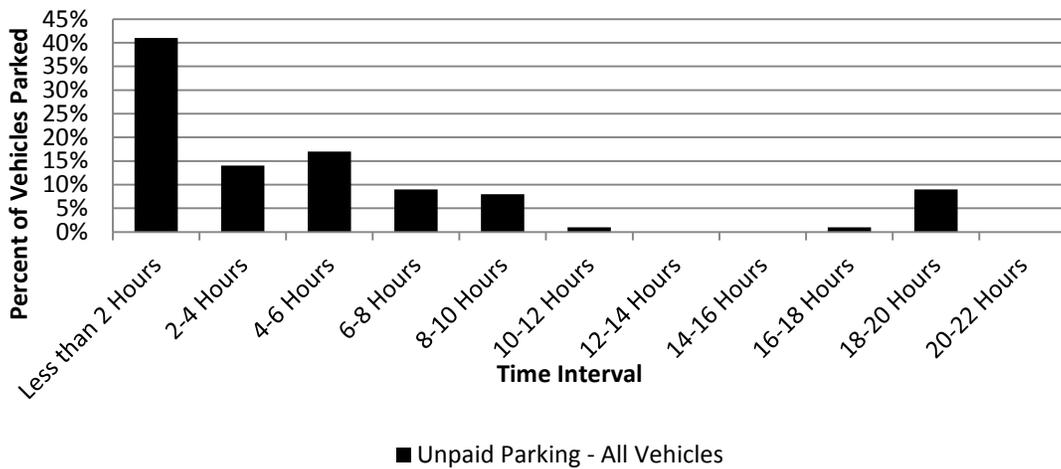
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	-	-	-	-
Unpaid	71%	-	-	9

Parking Occupancy



Parking Duration

6:00 AM to 2:00 AM

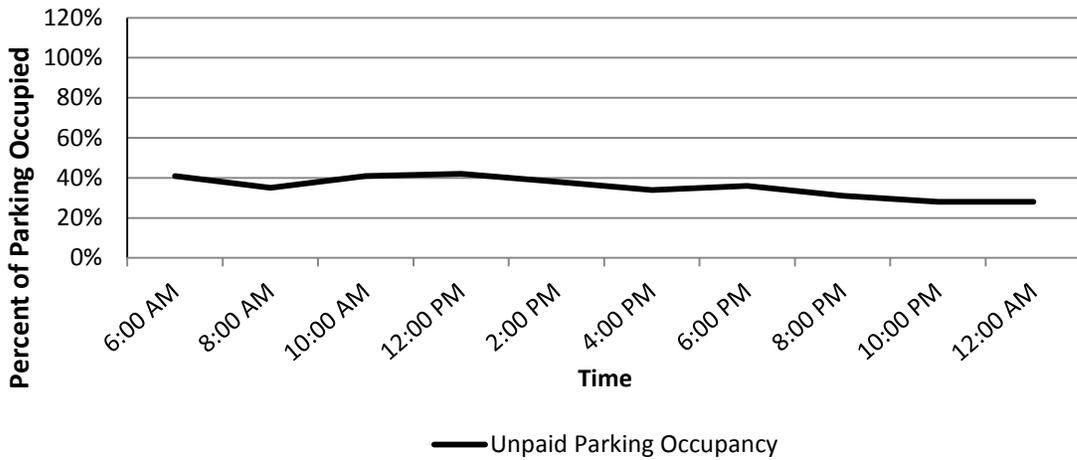


Section M - Weekday

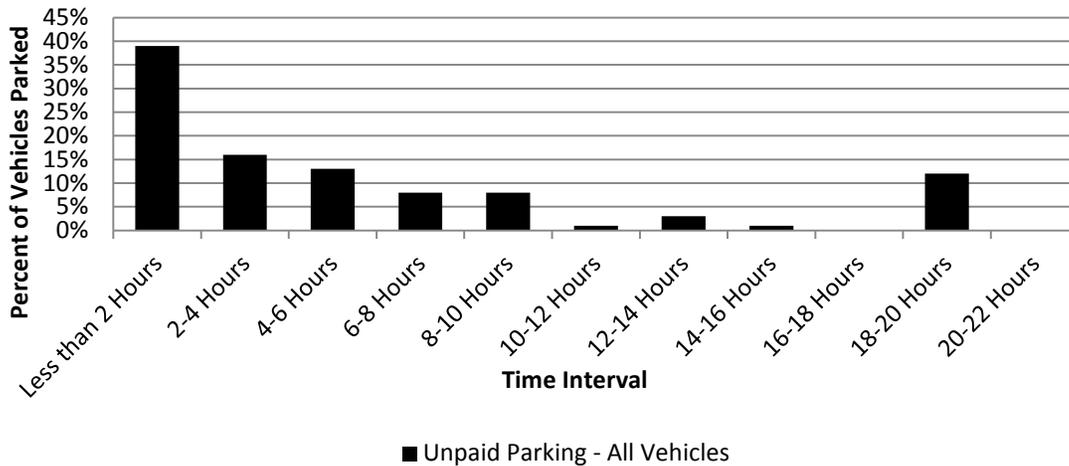
Unpaid Area Time Limit	No Limit
Paid Parking Spaces	0
Unpaid Parking Spaces	188

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	-	-	-	-
Unpaid	42%	2	1	6

Parking Occupancy



Parking Duration 6:00 AM to 2:00 AM



Section N - Weekday

Paid Area Time Limit (During Paid Hours) 7 Hours

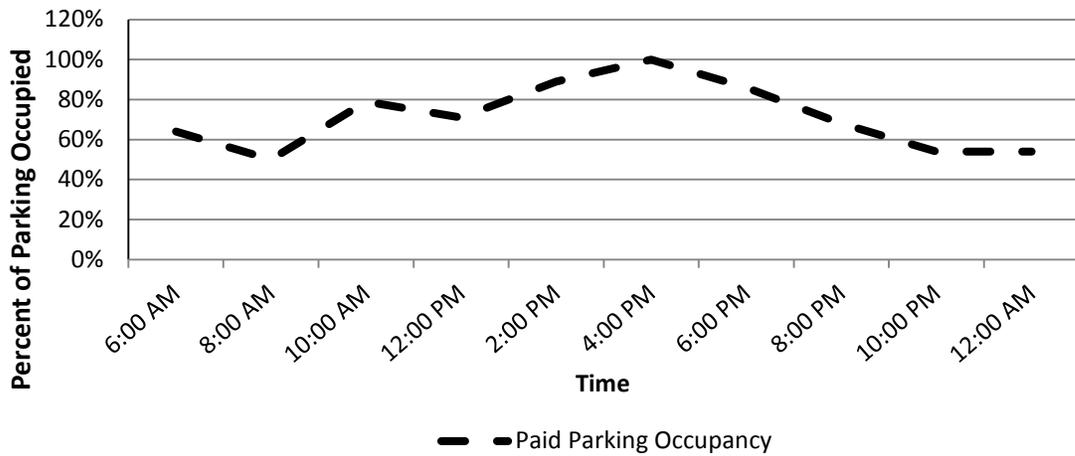
Paid Parking Hours 9AM - 4PM

Paid Parking Spaces 28

Unpaid Parking Spaces 0

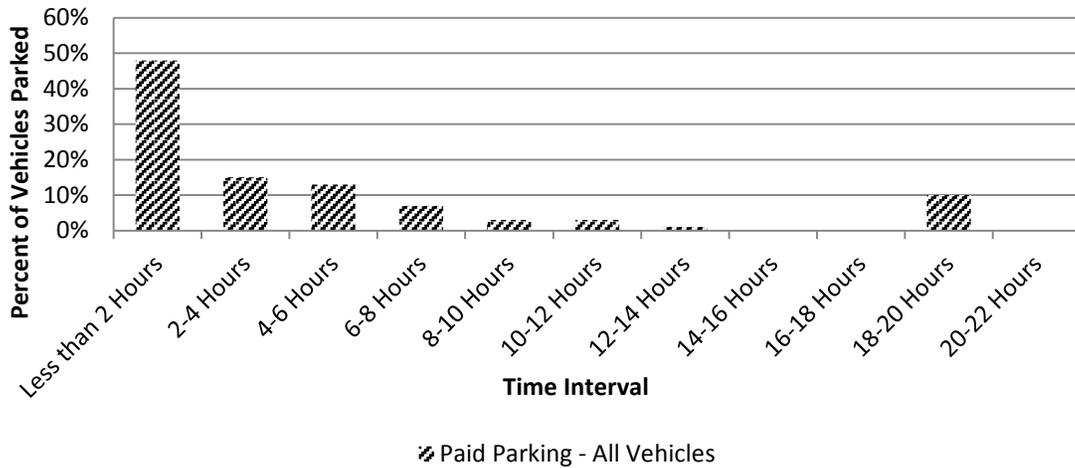
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	100%	2	-	12
Unpaid	-	-	-	-

Parking Occupancy



Parking Duration

6:00 AM to 2:00 AM



Section O - Weekday

Paid Area Time Limit (During Paid Hours) 7 Hours

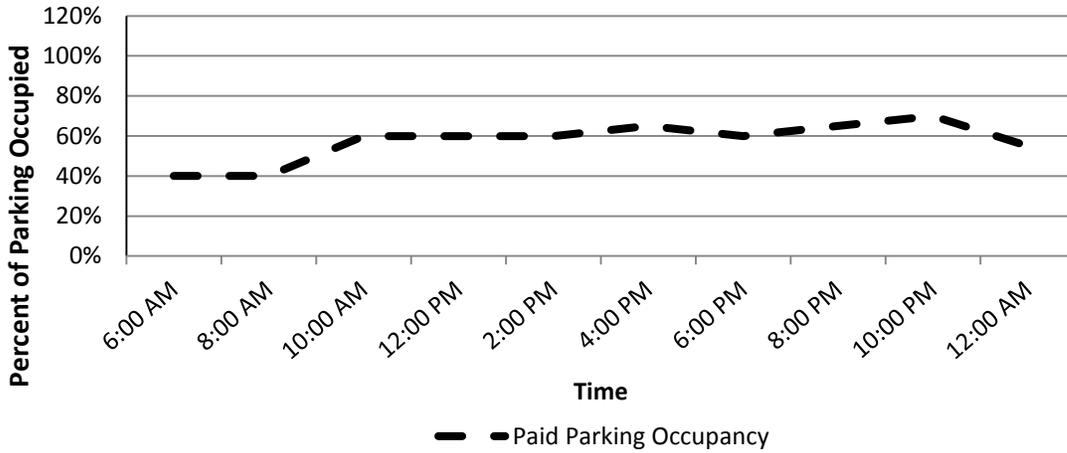
Paid Parking Hours 9AM - 4PM

Paid Parking Spaces 20

Unpaid Parking Spaces 0

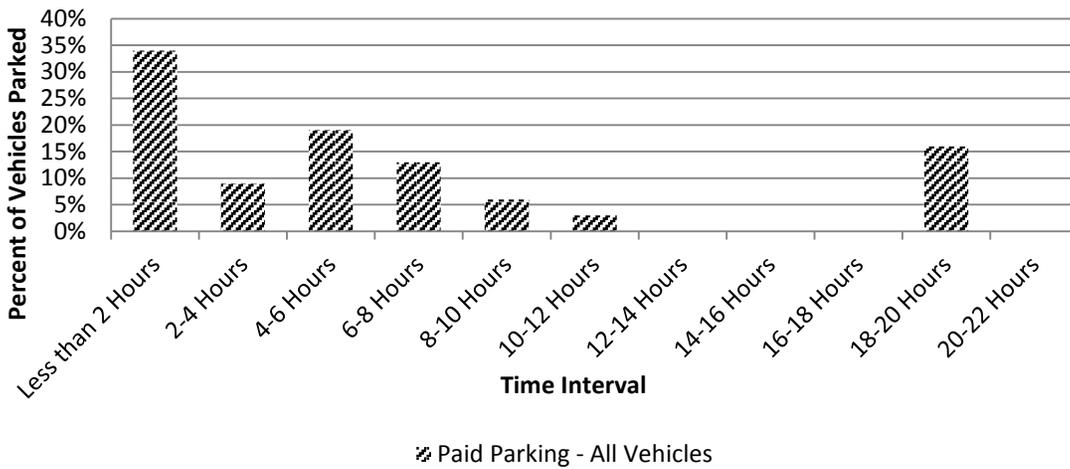
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	70%	1	-	4
Unpaid	-	-	-	-

Parking Occupancy



Parking Duration

6:00 AM to 2:00 AM



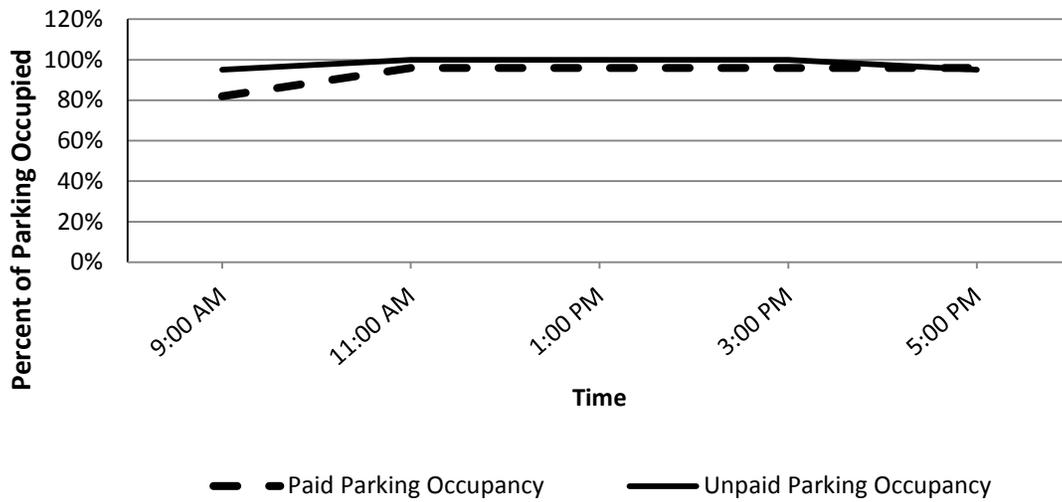
Section B - Saturday

Paid Parking Spaces	28*
Unpaid Parking Spaces	37

* All parking is unrestricted on Saturdays with no paid parking or time limits.

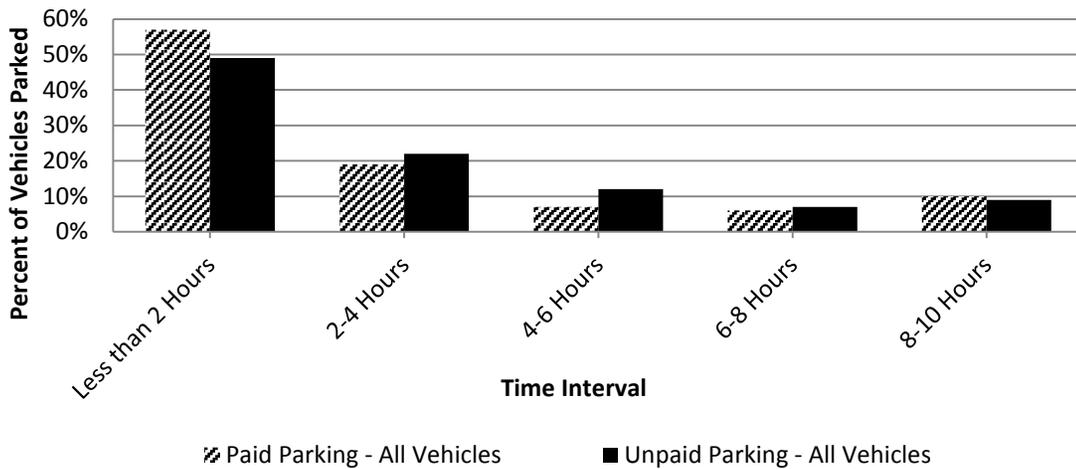
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	96%	1	-	-
Unpaid	100%	1	-	-

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



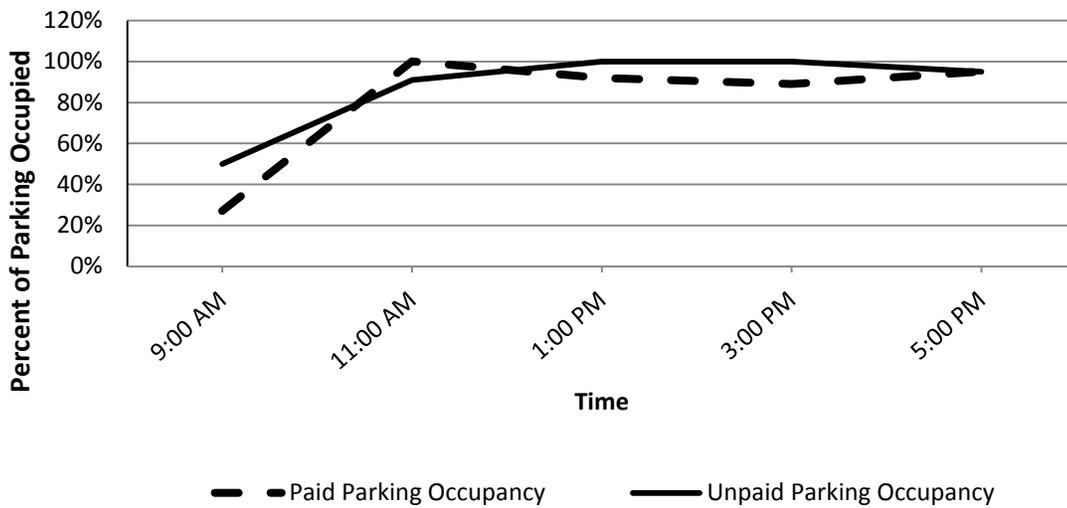
Section C - Saturday

Paid Parking Spaces	37*
Unpaid Parking Spaces	44

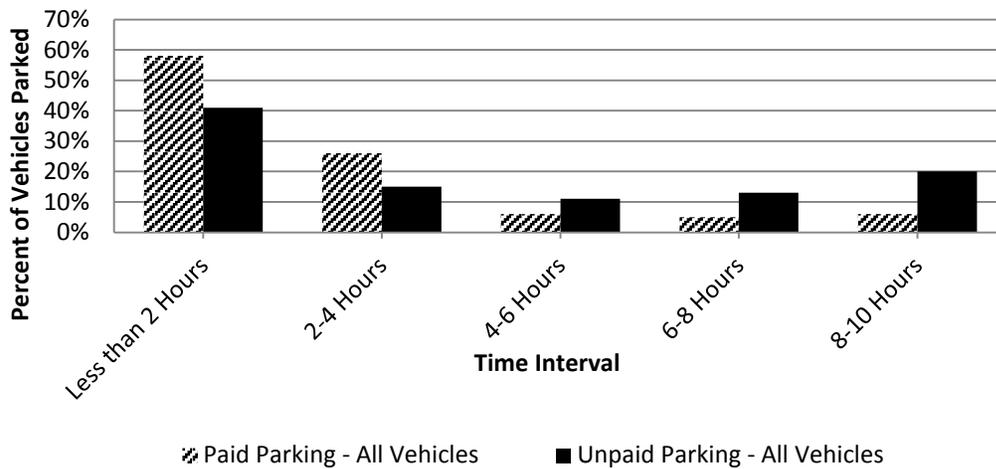
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<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
<u>Peak Occupancy</u>		<u>ADA</u>	<u>Car2Go</u>	<u>RPZ</u>
Paid	100%	1	1	1
Unpaid	100%	-	-	-

Parking Occupancy



Parking Duration 9:00 AM to 7:00 PM



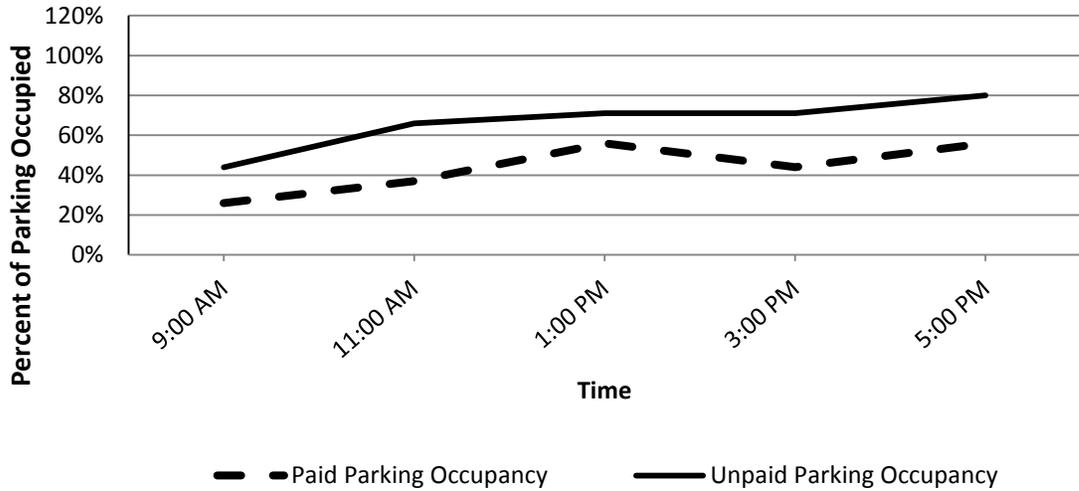
Section D - Saturday

Paid Parking Spaces	27*
Unpaid Parking Spaces	41

* All parking is unrestricted on Saturdays with no paid parking or time limits.

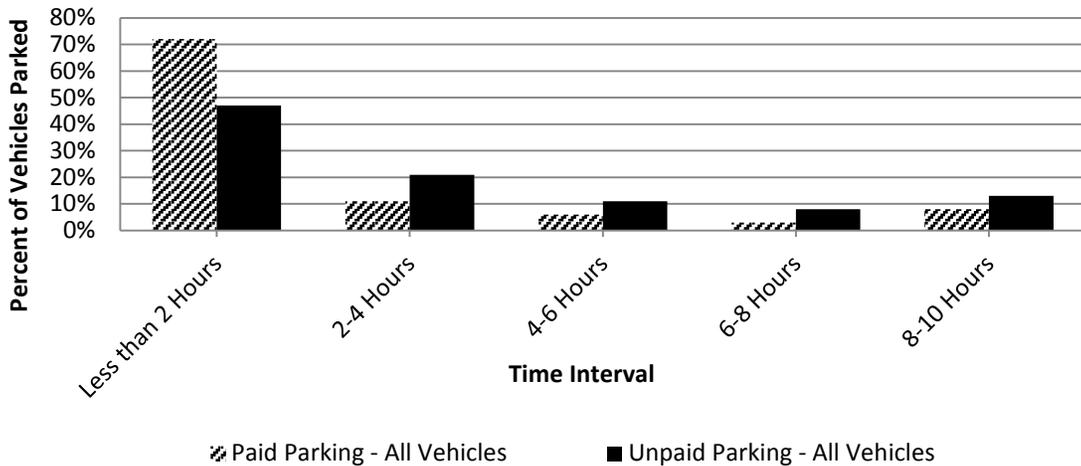
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	56%	-	-	2
Unpaid	80%	-	-	-

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



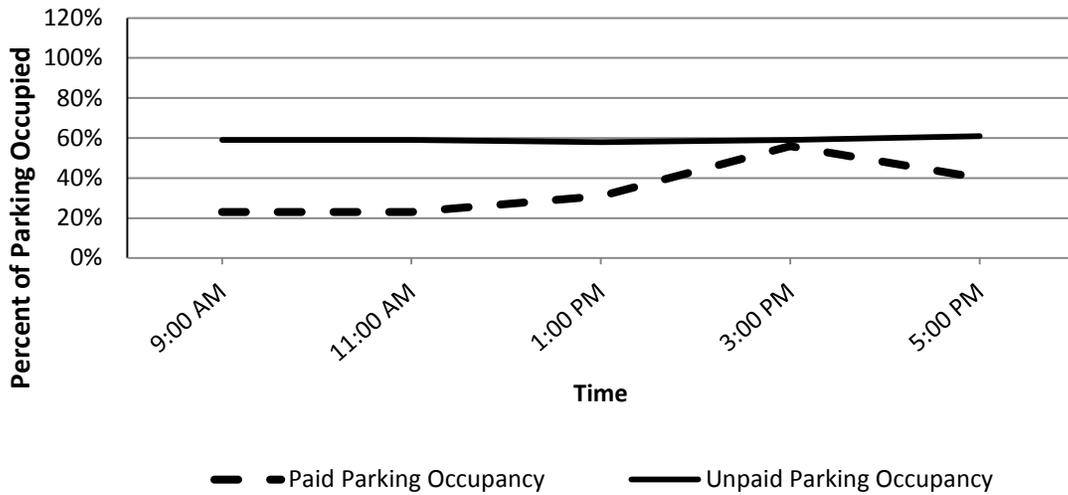
Section E - Saturday

Paid Parking Spaces	52*
Unpaid Parking Spaces	59

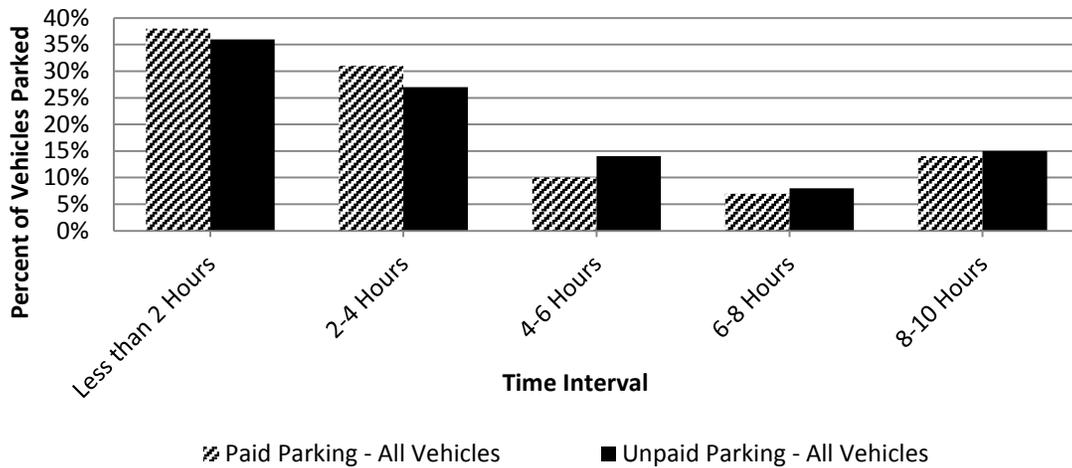
* All parking is unrestricted on Saturdays with no paid parking or time limits.

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	56%	2	-	-
Unpaid	61%	-	-	1

Parking Occupancy



Parking Duration 9:00 AM to 7:00 PM



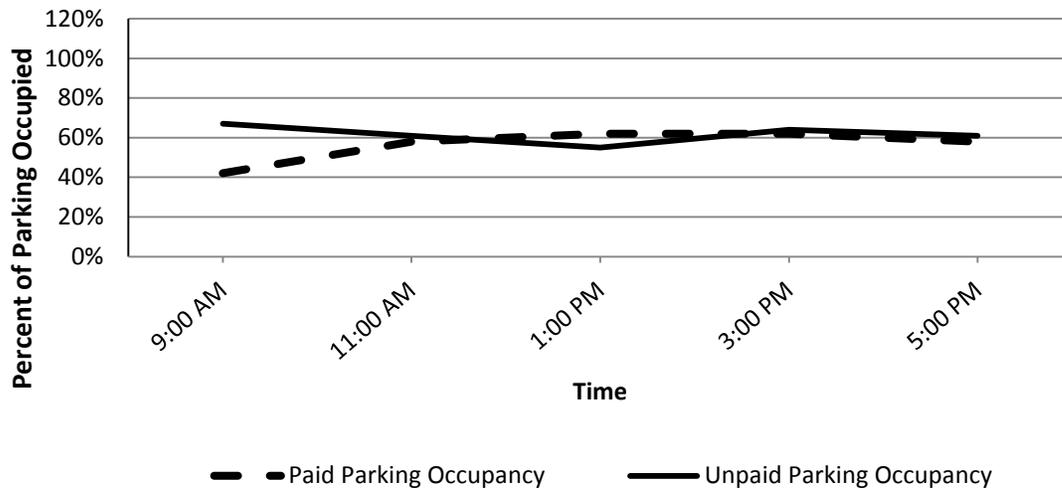
Section F - Saturday

Paid Parking Spaces	26*
Unpaid Parking Spaces	33

* All parking is unrestricted on Saturdays with no paid parking or time limits.

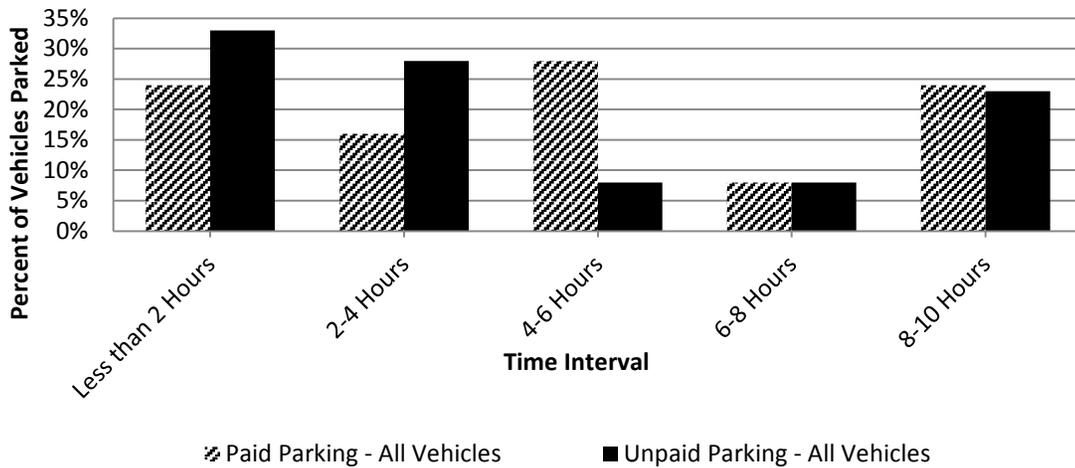
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
<u>Peak Occupancy</u>		<u>ADA</u>	<u>Car2Go</u>	<u>RPZ</u>
Paid	62%	1	-	2
Unpaid	67%	-	-	-

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



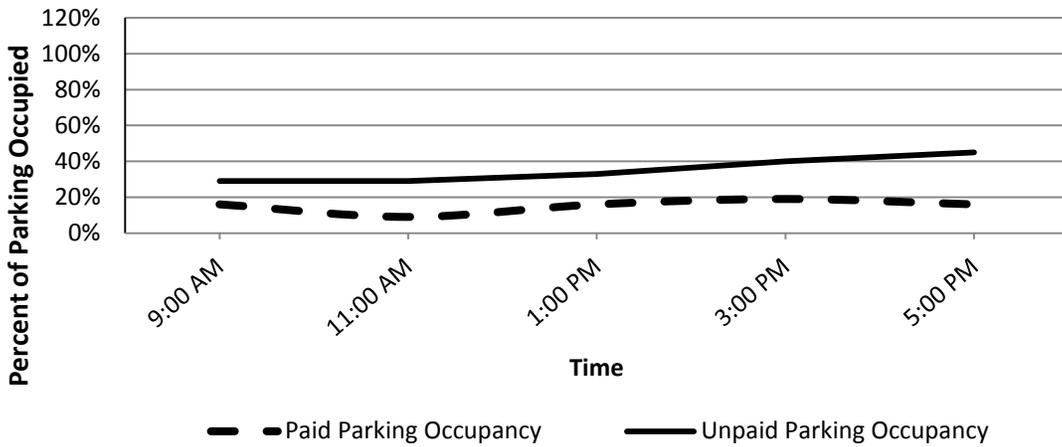
Section G - Saturday

Paid Parking Spaces	32*
Unpaid Parking Spaces	42

* All parking is unrestricted on Saturdays with no paid parking or time limits.

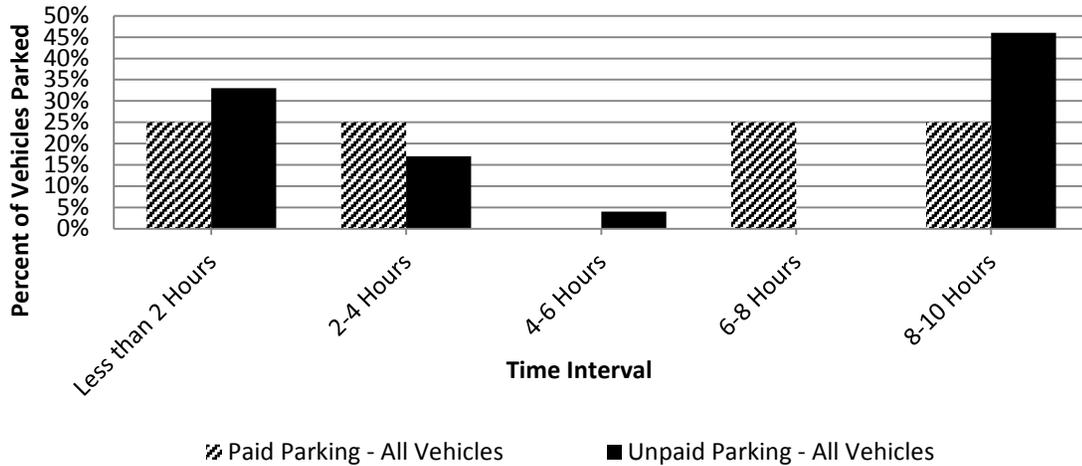
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	19%	-	-	3
Unpaid	45%	-	-	1

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



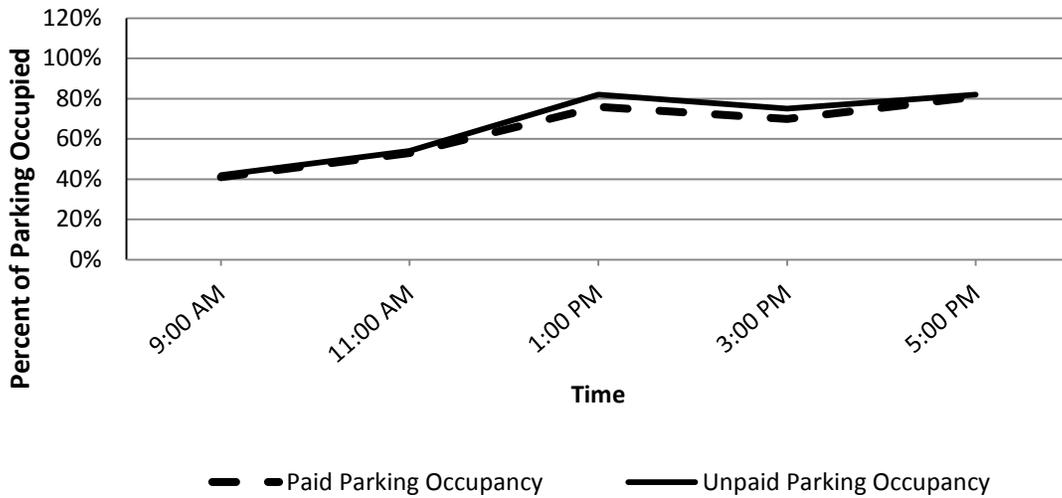
Section H - Saturday

Paid Parking Spaces	70*
Unpaid Parking Spaces	67

* All parking is unrestricted on Saturdays with no paid parking or time limits.

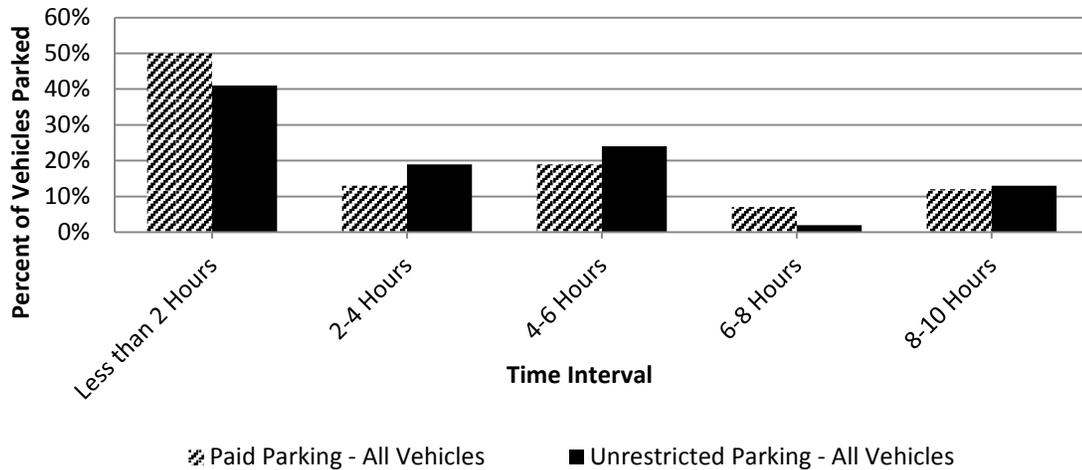
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	81%	1	1	2
Unpaid	82%	-	1	4

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



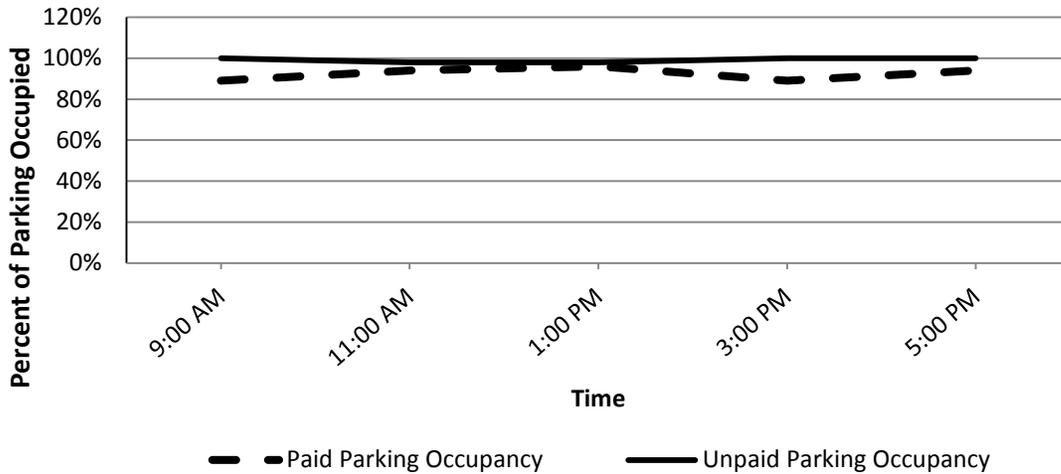
Section I - Saturday

Paid Parking Spaces	54*
Unpaid Parking Spaces	58

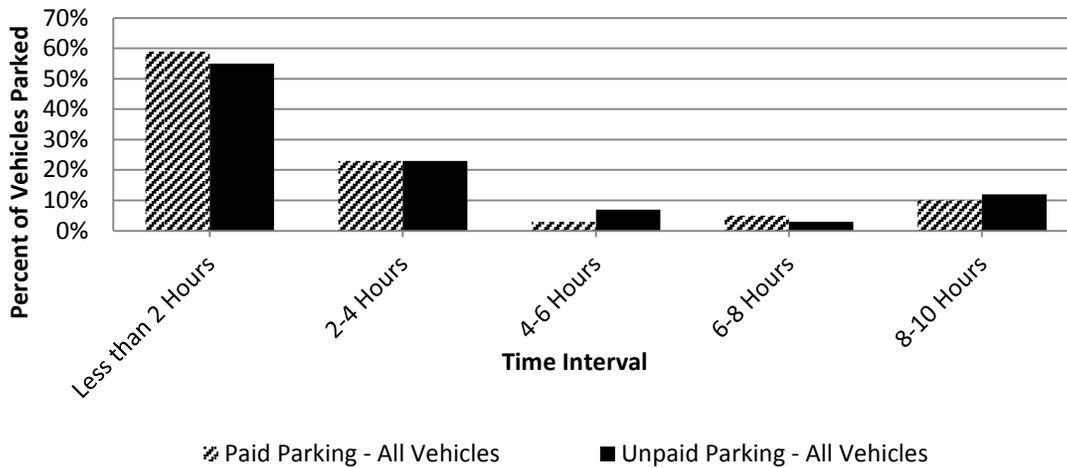
* All parking is unrestricted on Saturdays with no paid parking or time limits.

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
<u>Peak Occupancy</u>		<u>ADA</u>	<u>Car2Go</u>	<u>RPZ</u>
Paid	96%	2	1	9
Unpaid	100%	-	2	1

Parking Occupancy



Parking Duration 9:00 AM to 7:00 PM



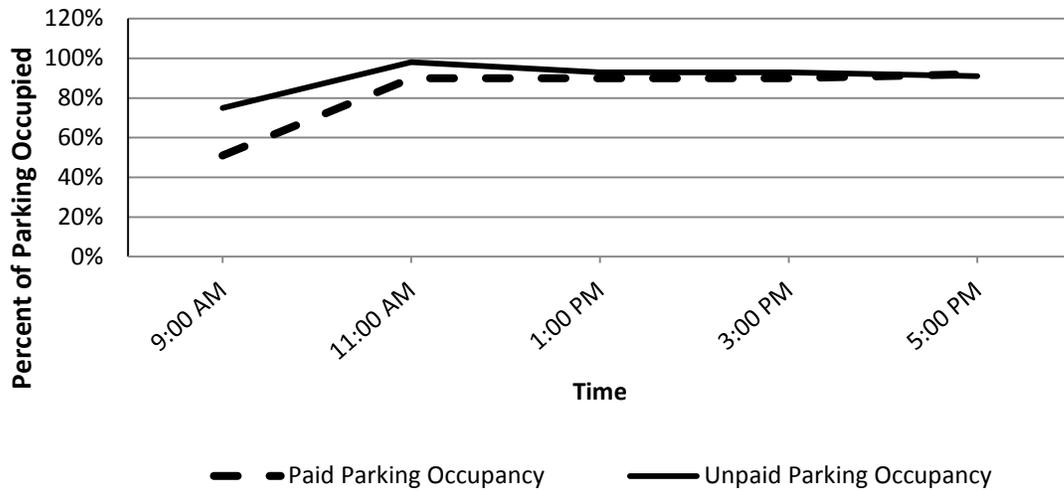
Section J - Saturday

Paid Parking Spaces	39*
Unpaid Parking Spaces	44

* All parking is unrestricted on Saturdays with no paid parking or time limits.

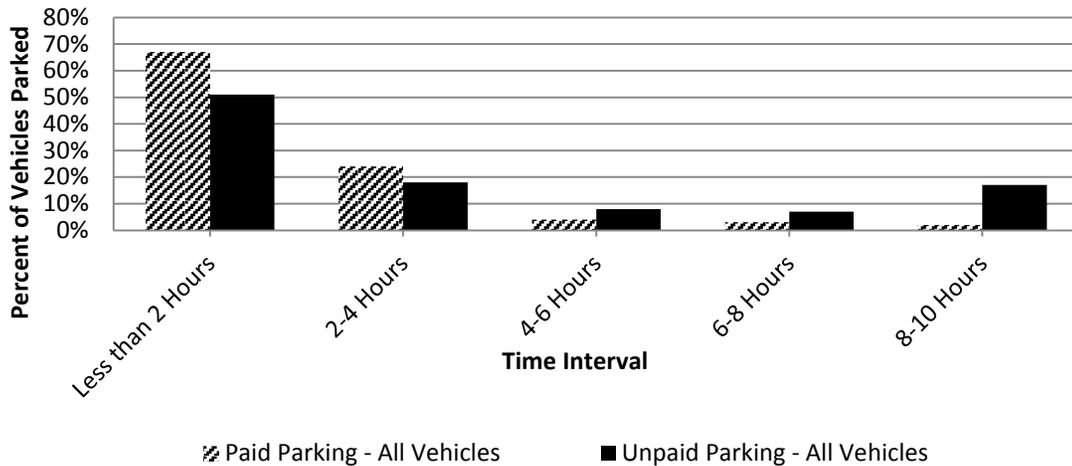
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
<u>Peak Occupancy</u>		<u>ADA</u>	<u>Car2Go</u>	<u>RPZ</u>
Paid	92%	2	-	2
Unpaid	98%	-	-	-

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



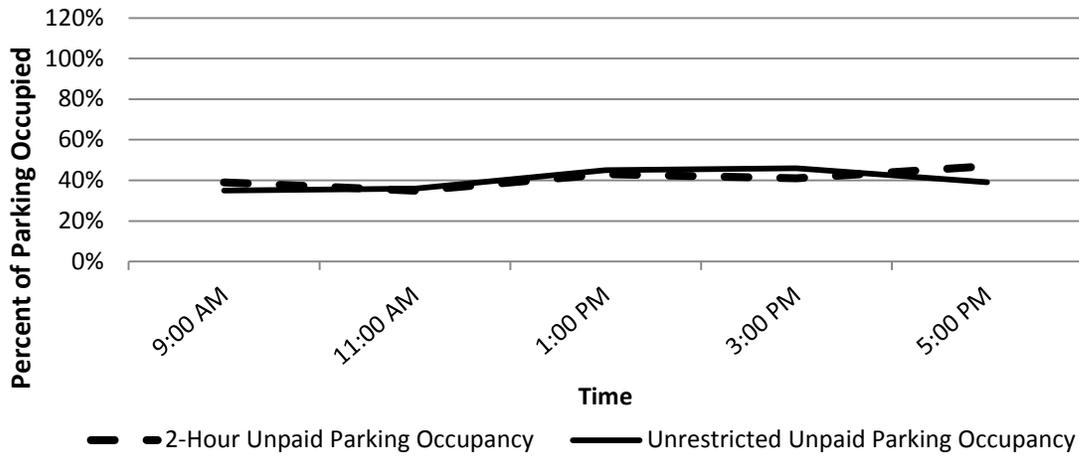
Section K - Saturday

Time Limit (During Restriction Hours)	2 Hours
Parking Restriction Hours (East side Westlake)	7AM - 6 PM
2-Hour Unpaid Parking Spaces	51
Unrestricted Unpaid Parking Spaces	92*

* The unrestricted parking has no parking time restrictions.

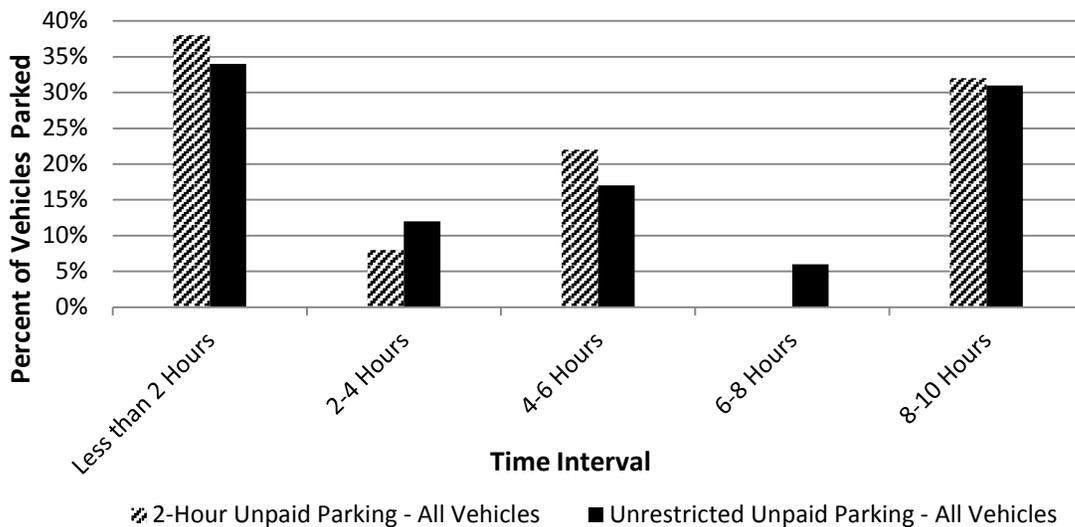
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
2-Hour	47%	3	-	15
Unrestricted	46%	2	-	5

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



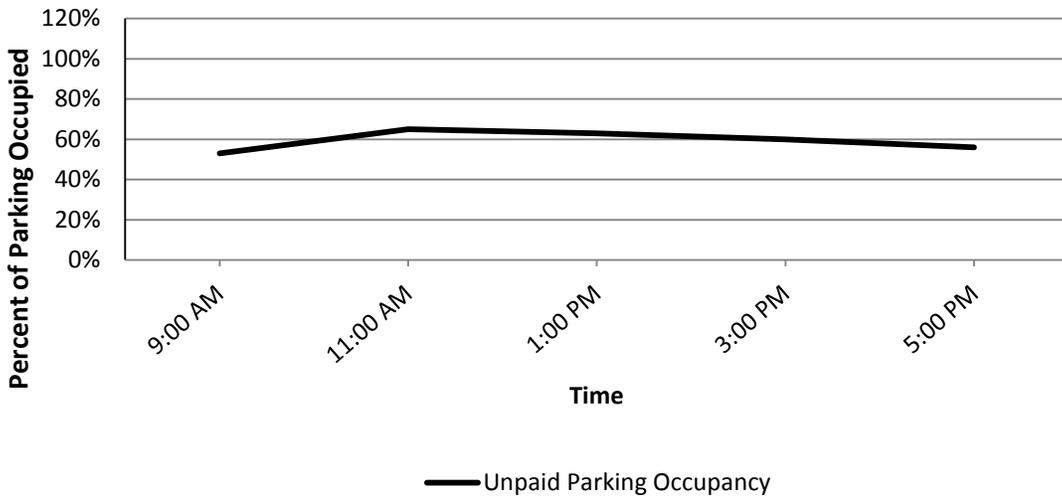
Section L - Saturday

Paid Parking Spaces	0*
Unpaid Parking Spaces	62

* All parking is unrestricted on Saturdays with no paid parking or time limits.

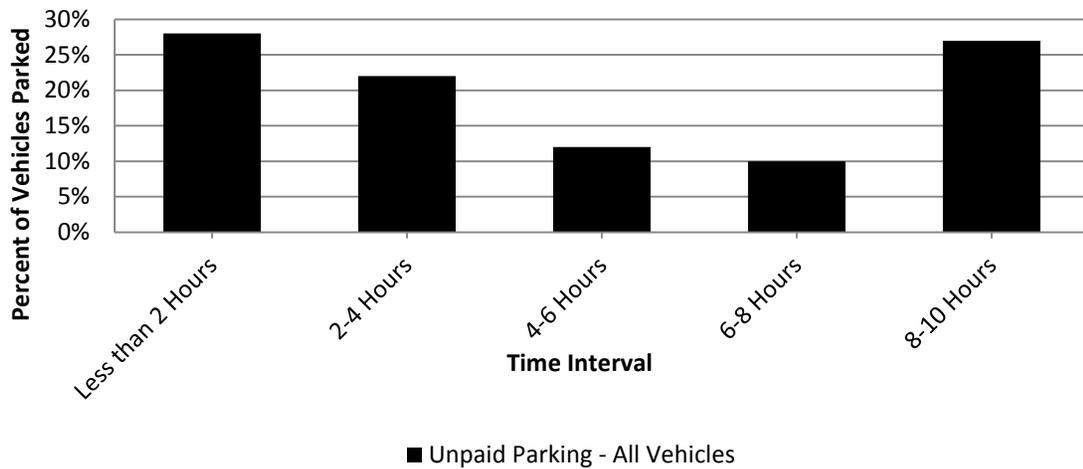
<u>Section Data</u>	<u>Peak Number of Vehicles</u>		
Peak Occupancy	ADA	Car2Go	RPZ
Paid	-	-	-
Unpaid	65%	1	9

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



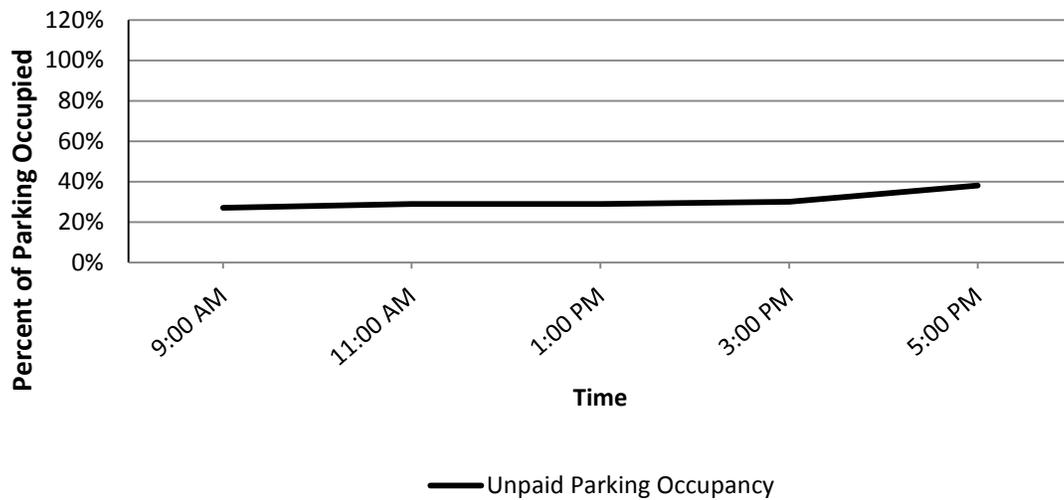
Section M - Saturday

Paid Parking Spaces	0*
Unpaid Parking Spaces	188

* All parking is unrestricted on Saturdays with no paid parking or time limits.

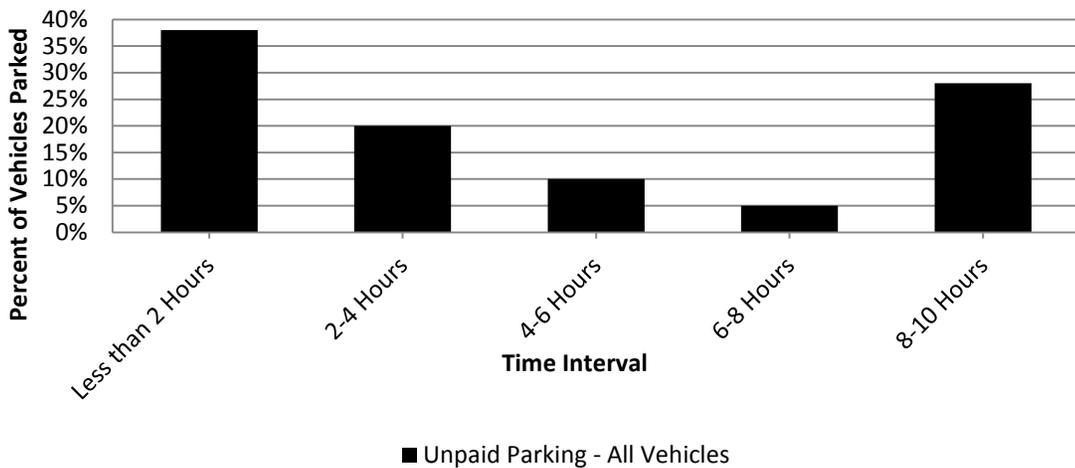
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	-	-	-	-
Unpaid	38%	1	-	6

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



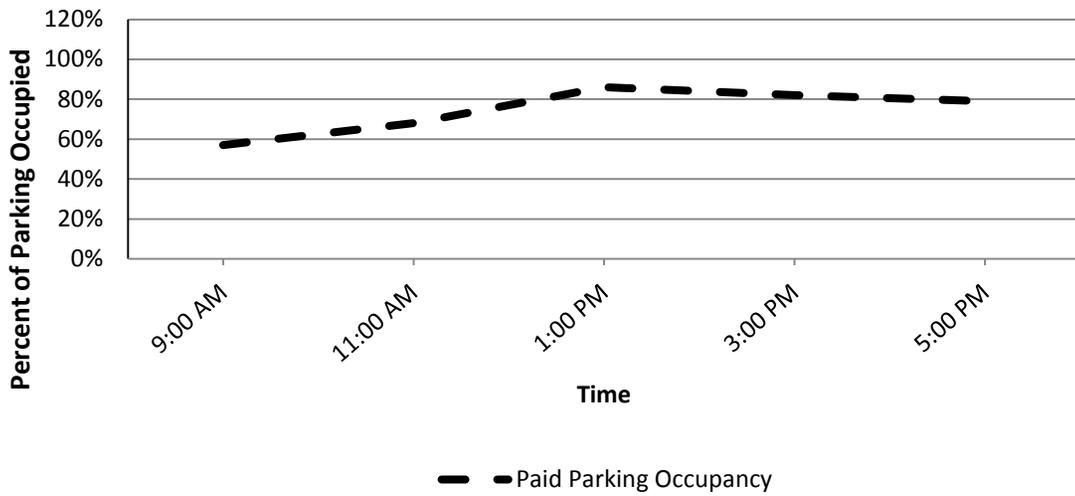
Section N - Saturday

Paid Parking Spaces	28*
Unpaid Parking Spaces	0

* All parking is unrestricted on Saturdays with no paid parking or time limits.

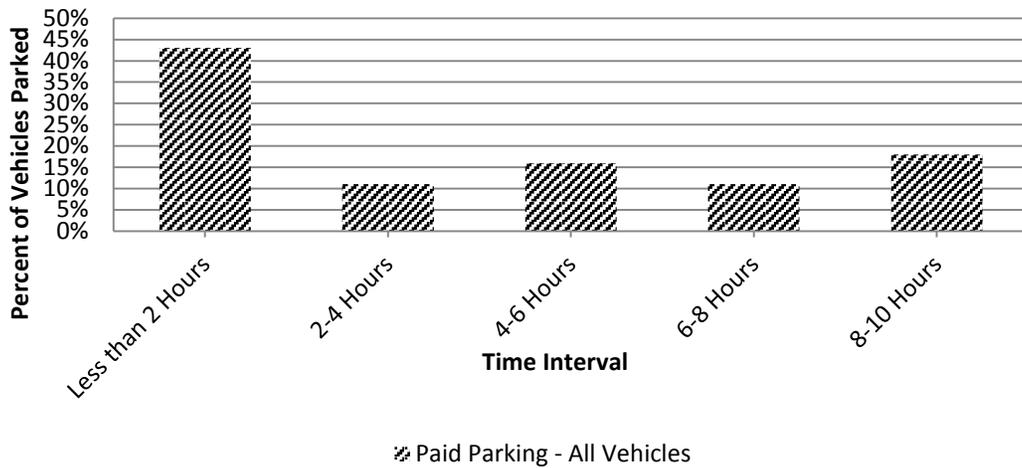
<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	86%	1	-	7
Unpaid	-	-	-	-

Parking Occupancy



Parking Duration

9:00 AM to 7:00 PM



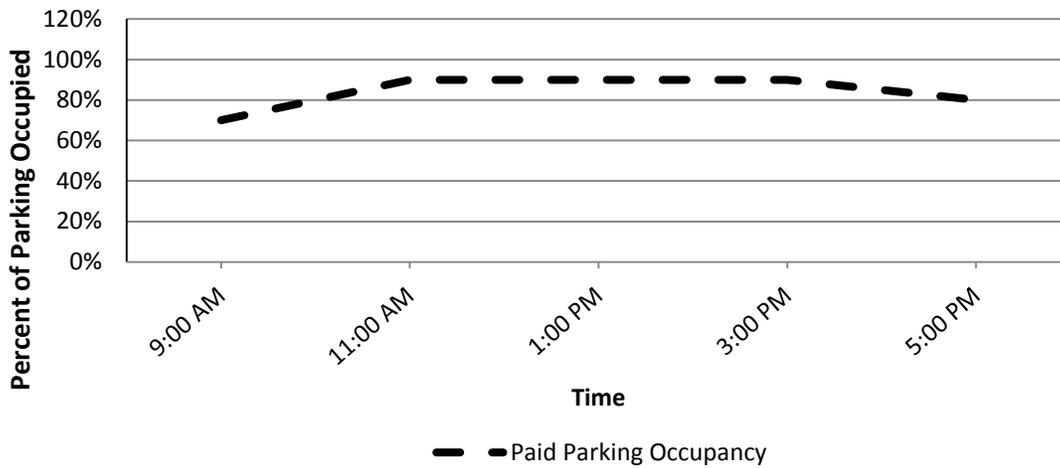
Section O - Saturday

Paid Parking Spaces	20*
Unpaid Parking Spaces	0

* All parking is unrestricted on Saturdays with no paid parking or time limits.

<u>Section Data</u>		<u>Peak Number of Vehicles</u>		
Peak Occupancy		ADA	Car2Go	RPZ
Paid	90%	-	-	1
Unpaid	-	-	-	-

Parking Occupancy



Parking Duration 9:00 AM to 7:00 PM

