

## HOUSTON-GALVESTON AREA COUNCIL



### Temporary Pedestrian/Bicycle Counters Data Summary

<b>Deployment Summary</b>	
Sponsoring Agency	City of Houston: Parks and Recreation Department
Deployment Period	Friday, March 18, 2016 – Tuesday, March 29, 2016
Number of Counters Deployed	12
Facility Description	Shared-Use Paths in East Houston (Brays Bayou Trail, Harrisburg Trail, Harrisburg Sunset Trail, Hunting Bayou Trail, and Wheeler Street Trail)
Locations Deployed (Houston-Galveston Area Council)	
Counter #1	Brays Bayou Trail at Pasadena Street
Counter #2	Brays Bayou Trail at Gus Wortham Golf Course
Counter #3	Brays Bayou Trail at Lawndale Street
Counter #4	Brays Bayou Trail at Telephone Road Access
Counter #5	Brays Bayou Trail at Old Spanish Trail Access
Counter #6	Wheeler Street Trail between S. Wayside Drive and Telephone Road
Counter #7	Harrisburg Sunset Trail at Avenue Q
Locations Deployed (Texas Transportation Institute)	
Counter A	Harrisburg Sunset Trail at Avenue I
Counter B	Harrisburg Trail at Lockwood Drive
Counter C	Harrisburg Trail at Drennan Street
Counter D	Hunting Bayou Trail at N. George Street
Counter E	Hunting Bayou Trail at Coal Street

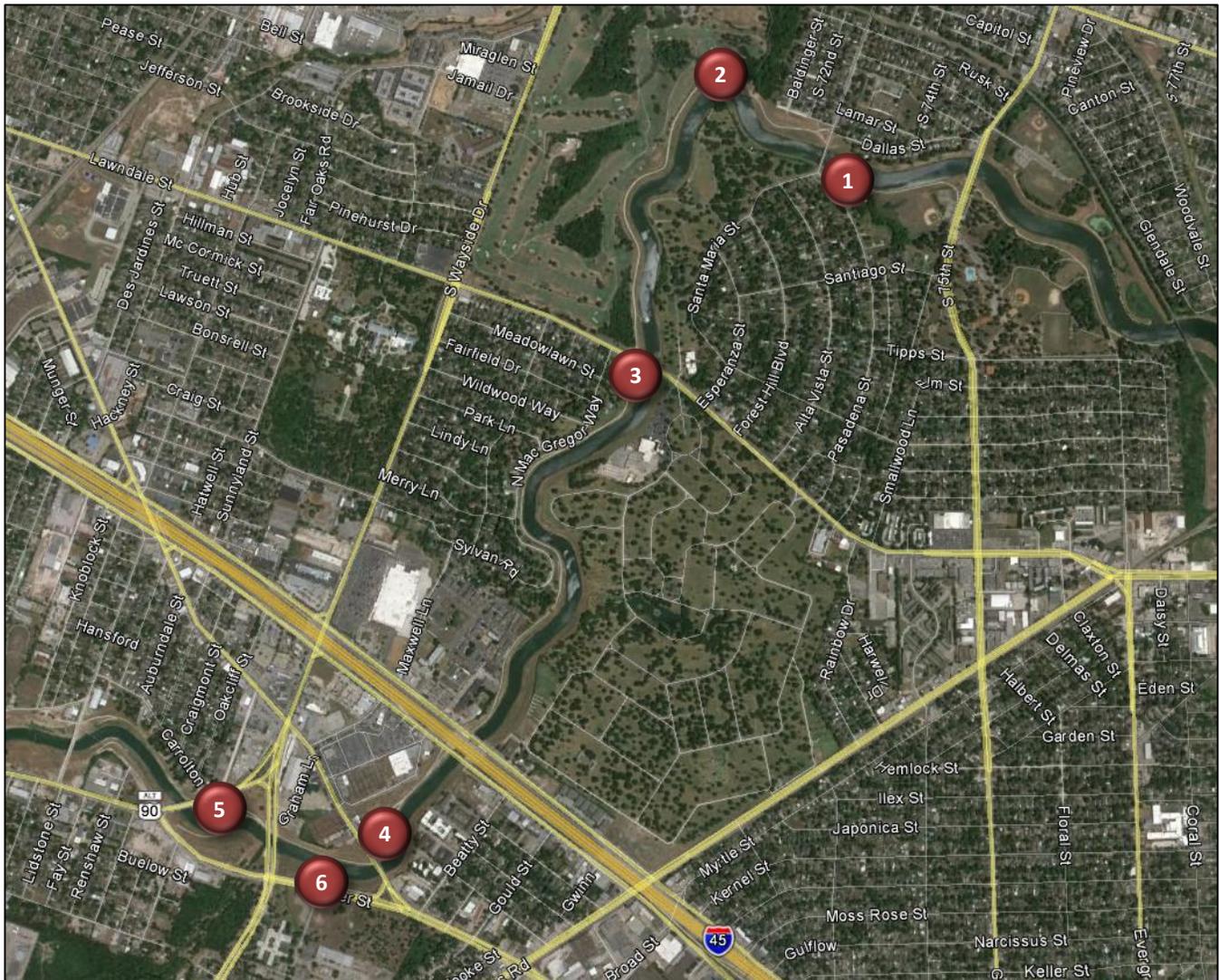
#### **About the Temporary Pedestrian/Bicycle Counters**

The Houston-Galveston Area Council (H-GAC) has temporary counters (TRAFx Infrared Trail Counters: Generation III) that can be borrowed by local governments and transportation agencies to count the number of people using off-street pedestrian and bicycle facilities. Infrared technology is used to count the number of people passing the counter. The counters do not differentiate between pedestrians and bicyclists, but count the total number of users.

The Texas Transportation Institute (TTI) owns additional temporary counters that it deploys along off-street pedestrian and bicycle facilities statewide.

## Counter Locations

Brays Bayou Trail in Southeast Houston  
(U.S. 90A: Old Spanish Trail to S. 75<sup>th</sup> Street)

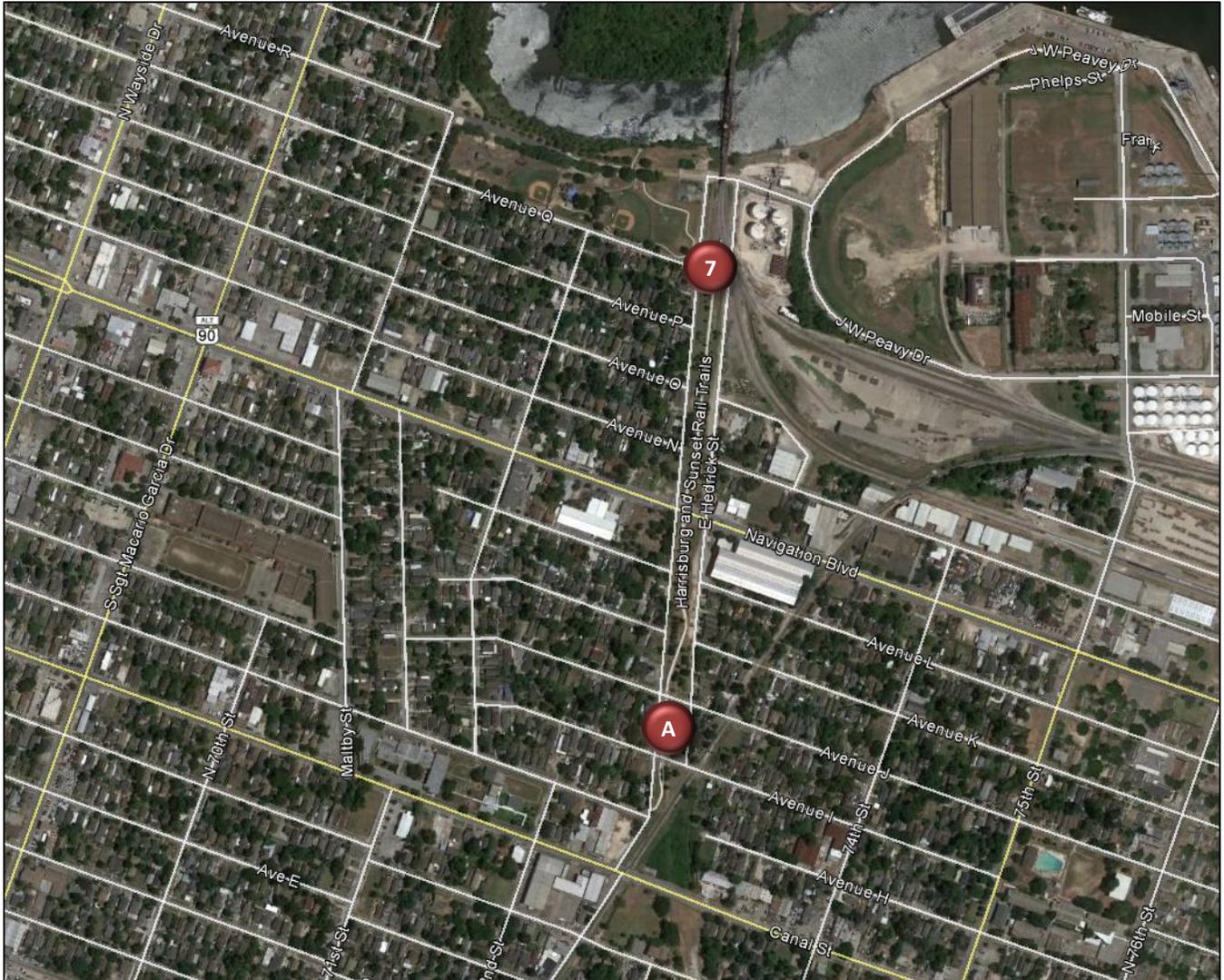


Counter	Location	Average Daily Usage	Total Users
1	Brays Bayou Trail at Pasadena Street	51	617
2	Brays Bayou Trail at Gus Wortham Golf Course	104	934*
3	Brays Bayou Trail at Lawndale Street	58	695
4	Brays Bayou Trail at Telephone Road Access	31	368
5	Brays Bayou Trail at Old Spanish Trail Access	32	378
6	Wheeler Street Trail between S. Wayside Drive and Telephone Road	16	190

\*Note: Counter #2 stopped collecting data prior to the end of the deployment period at approximately 8:00 p.m. on Saturday, March 26, 2016.

## Counter Locations

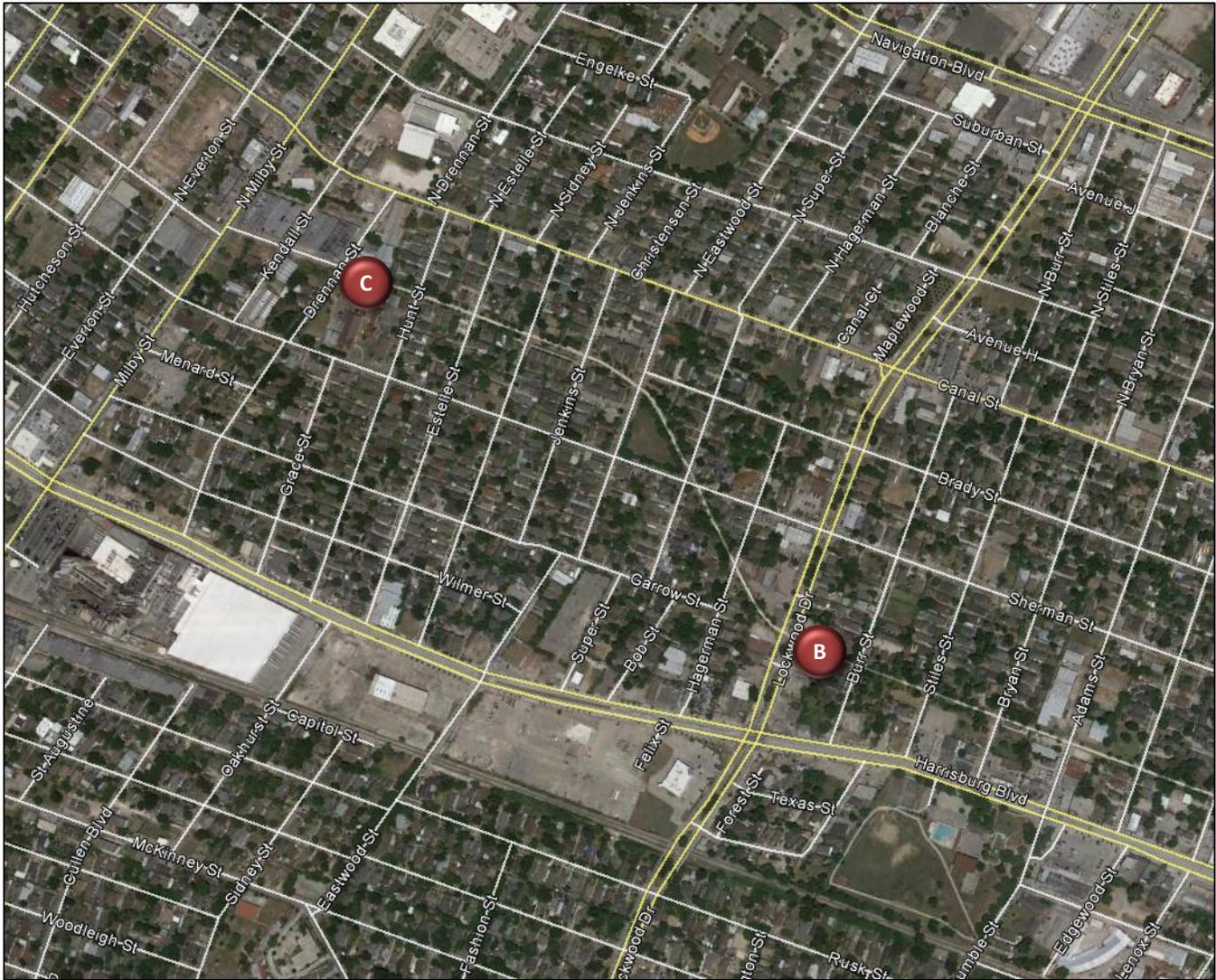
Harrisburg Sunset Trail in East End Houston



Counter	Location	Average Daily Usage	Total Users
7	Harrisburg Sunset Trail at Avenue Q	50	597
A	Harrisburg Sunset Trail at Avenue I	44	528

## Counter Locations

Harrisburg Trail in East End Houston  
(Drennan Street to Adams Street)

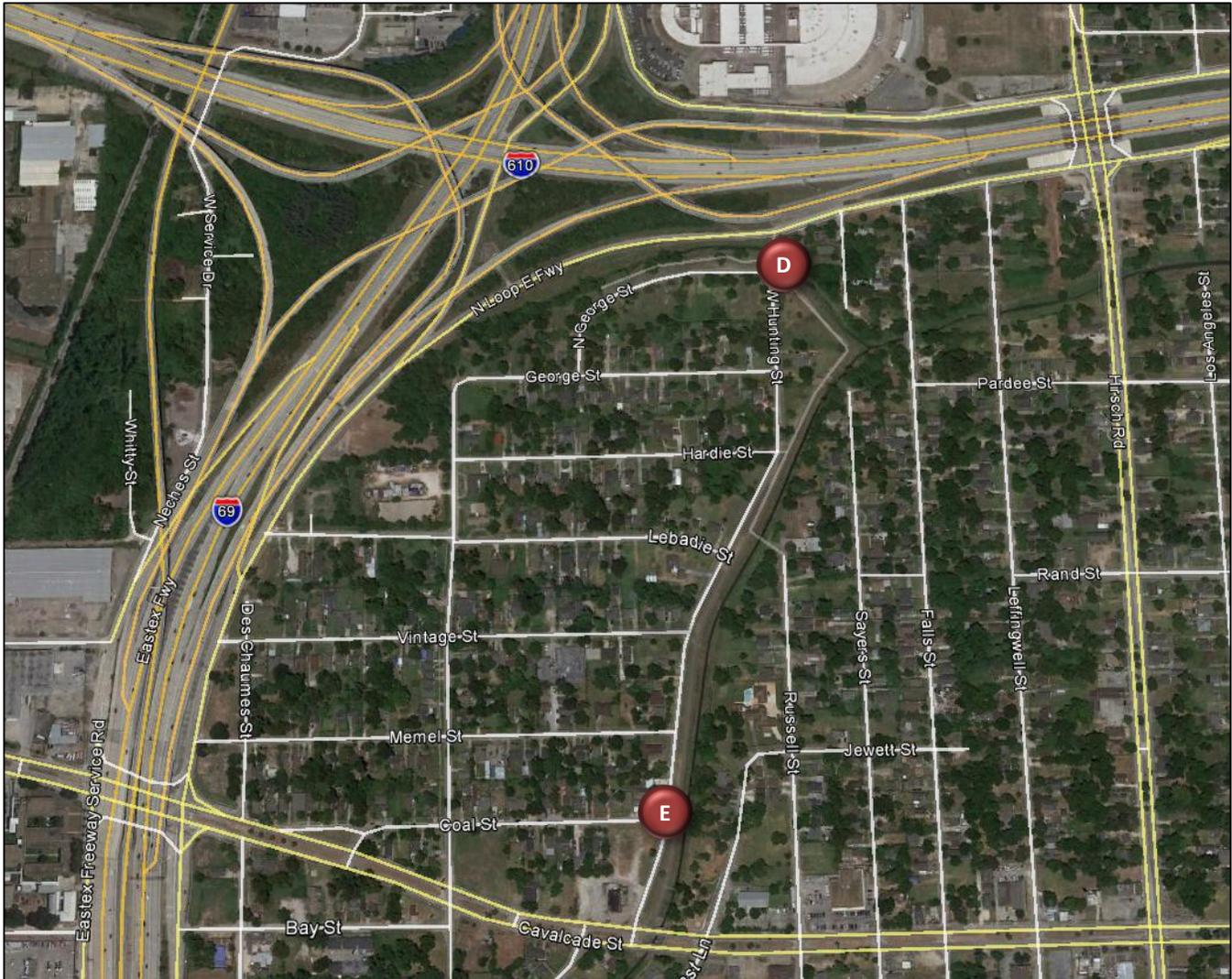


Counter	Location	Average Daily Usage	Total Users
B	Harrisburg Trail at Lockwood Drive	235	2,814
C	Harrisburg Trail at Drennan Street	54	653*

\*Note: Counter C recorded a significant drop in pedestrian/bicycle volumes during the second week of the deployment period. Another deployment at this location may be necessary to confirm the accuracy of the data collected.

## Counter Locations

Hunting Bayou Trail in Kashmere Gardens (Houston)  
 Cavalcade Street to Hirsch Road



Counter	Location	Average Daily Usage	Total Users
D	Hunting Bayou Trail at N. George Street	141	1,693*
E	Hunting Bayou Trail at Coal Street	61	733

\*Note: Daily usage at Counter D varied considerably. Another deployment at this location may be necessary to confirm the accuracy of the data collected.

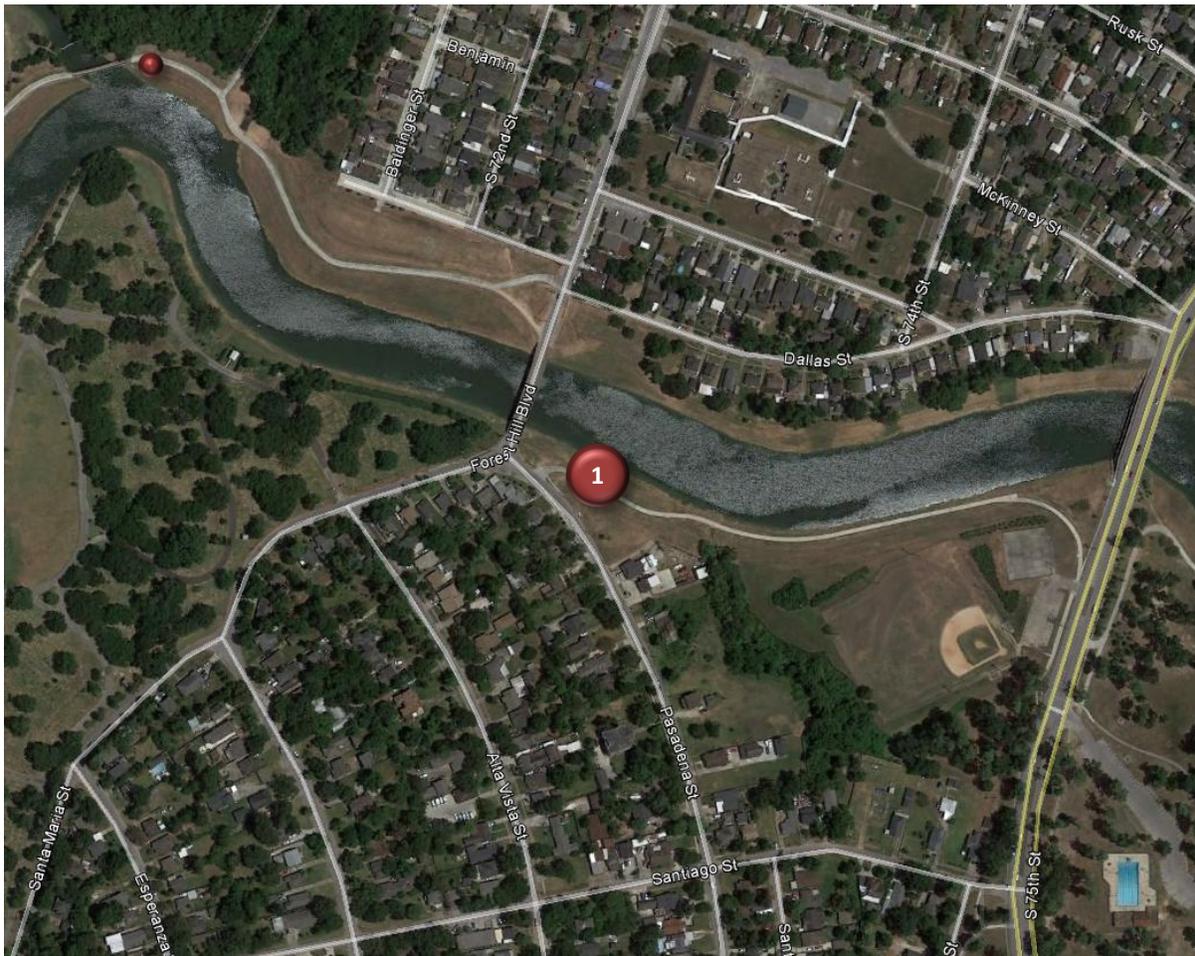
**Counter #1**

Brays Bayou Trail at Pasadena Street

Location Information		
Location Name	Brays Bayou Trail at Pasadena Street	
Location Description	Brays Bayou Trail (shared-use path) east of Forest Hill Boulevard/Pasadena Street Intersection	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°43'39.85"N, 95°17'57.61"W	
Surrounding Land Uses	North	Brays Bayou, Single-Family Residential, Briscoe Elementary School
	South	Single-Family Residential
	East	Single-Family Residential, Park
	West	Single-Family Residential, Cemetery
What object was device secured to?	Sign Post (Begin Bike Route)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>Usage tends to be higher during weekends (64 users/day) than on weekdays (45 users/day).</li> <li>While average daily usage is higher during weekends than on weekdays, Mondays had the highest average usage of any day of the week (75 users/day).</li> <li>On weekdays, usage is highest in the late afternoon (4:00 p.m. – 5:00 p.m.) and evening (6:00 p.m. – 8:00 p.m.).</li> <li>During weekends, usage is highest in the late afternoon (4:00 p.m. – 5:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 1: Brays Bayou Trail at Pasadena Street Facing East



Image 2: Brays Bayou Trail at Pasadena Street Facing West

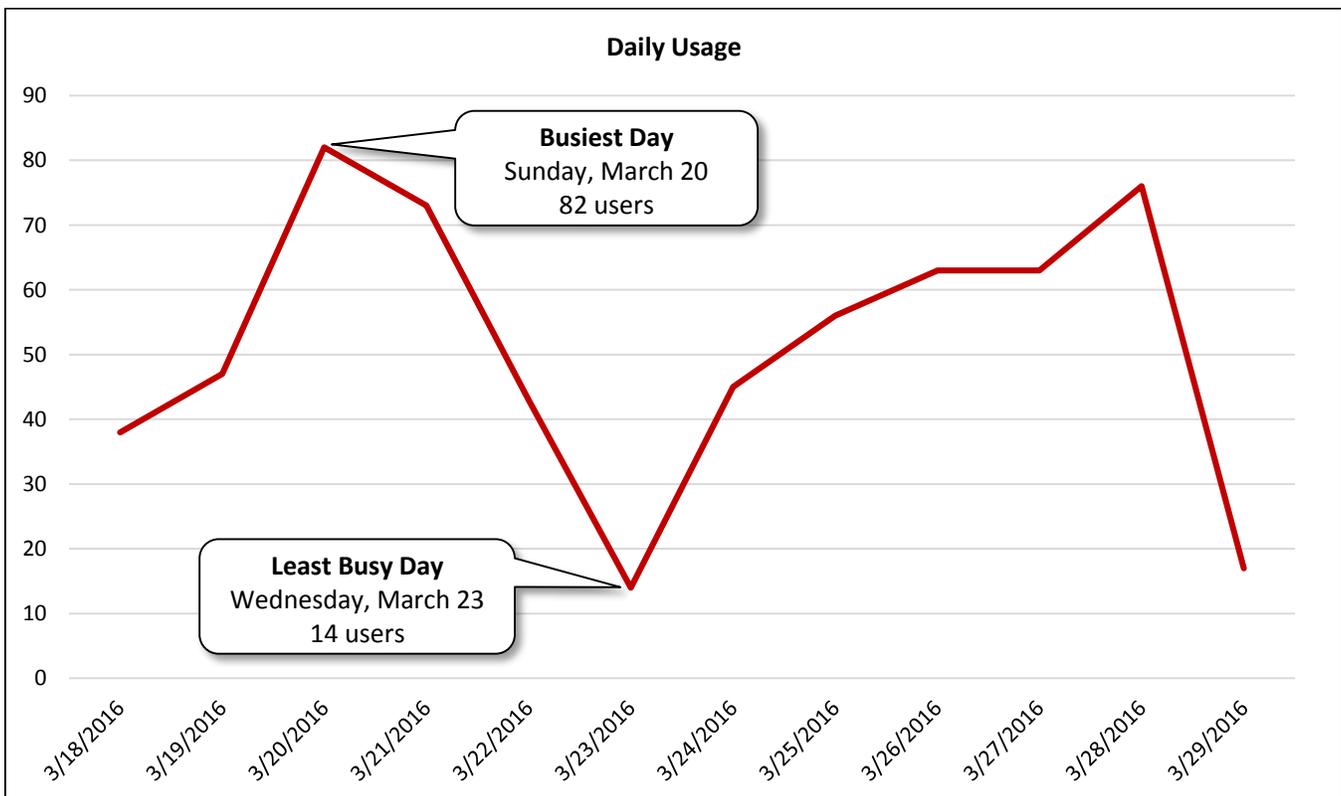
**Daily Usage**  
Brays Bayou Trail at Pasadena Street

Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	38	81	63	T
Saturday, March 19, 2016	47	69	50	0
Sunday, March 20, 2016	82	61	43	0
Monday, March 21, 2016	73	63	34	0
Tuesday, March 22, 2016	43	70	42	0
Wednesday, March 23, 2016	14	76	63	0.03
Thursday, March 24, 2016	45	69	51	0.38
Friday, March 25, 2016	56	70	42	0
Saturday, March 26, 2016	63	75	46	0
Sunday, March 27, 2016	63	77	57	0
Monday, March 28, 2016	76	75	49	0
Tuesday, March 29, 2016	17	71	59	T

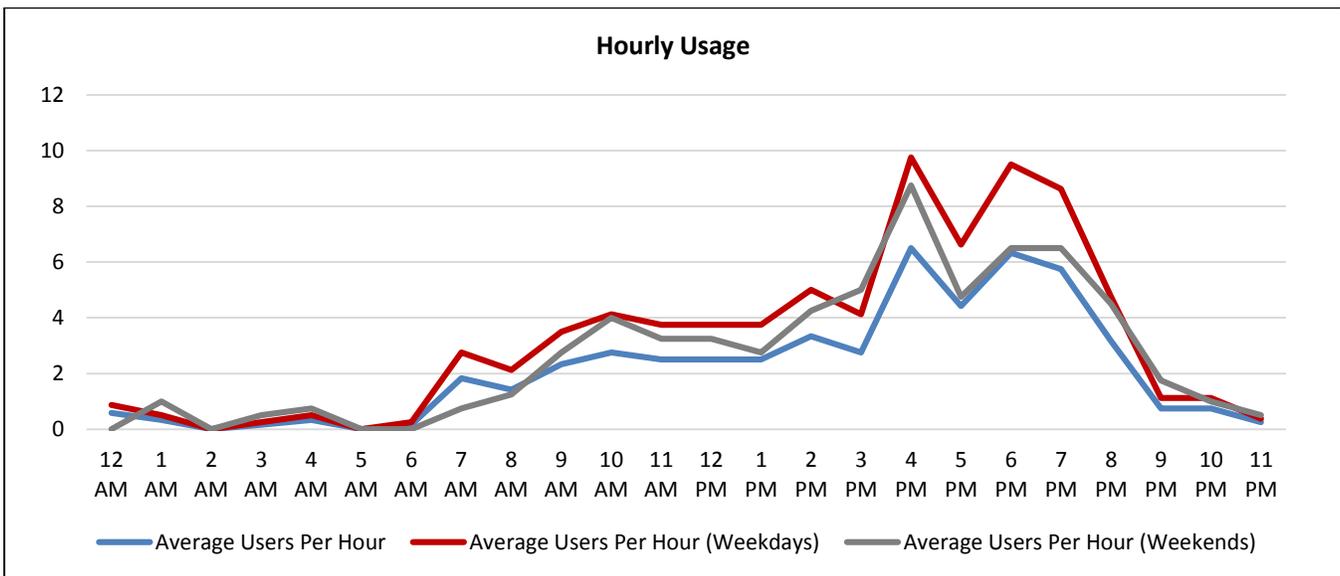
<b>Total</b>	617
<b>Average Daily Usage</b>	51
<b>Average Daily Usage (Weekday)</b>	45
<b>Average Daily Usage (Weekend)</b>	64

Notes
Houston ISD Spring Break: March 14, 2016 – March 18, 2016

\*Weather conditions recorded at KHOU.



Hourly Usage Brays Bayou Trail at Pasadena Street			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.6	0.9	0.0
1:00 a.m.	0.3	0.5	1.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.2	0.3	0.5
4:00 a.m.	0.3	0.5	0.8
5:00 a.m.	0.0	0.0	0.0
6:00 a.m.	0.2	0.3	0.0
7:00 a.m.	1.8	2.8	0.8
8:00 a.m.	1.4	2.1	1.3
9:00 a.m.	2.3	3.5	2.8
10:00 a.m.	2.8	4.1	4.0
11:00 a.m.	2.5	3.8	3.3
12:00 p.m.	2.5	3.8	3.3
1:00 p.m.	2.5	3.8	2.8
2:00 p.m.	3.3	5.0	4.3
3:00 p.m.	2.8	4.1	5.0
4:00 p.m.	6.5	9.8	8.8
5:00 p.m.	4.4	6.6	4.8
6:00 p.m.	6.3	9.5	6.5
7:00 p.m.	5.8	8.6	6.5
8:00 p.m.	3.2	4.8	4.5
9:00 p.m.	0.8	1.1	1.8
10:00 p.m.	0.8	1.1	1.0
11:00 p.m.	0.3	0.4	0.5



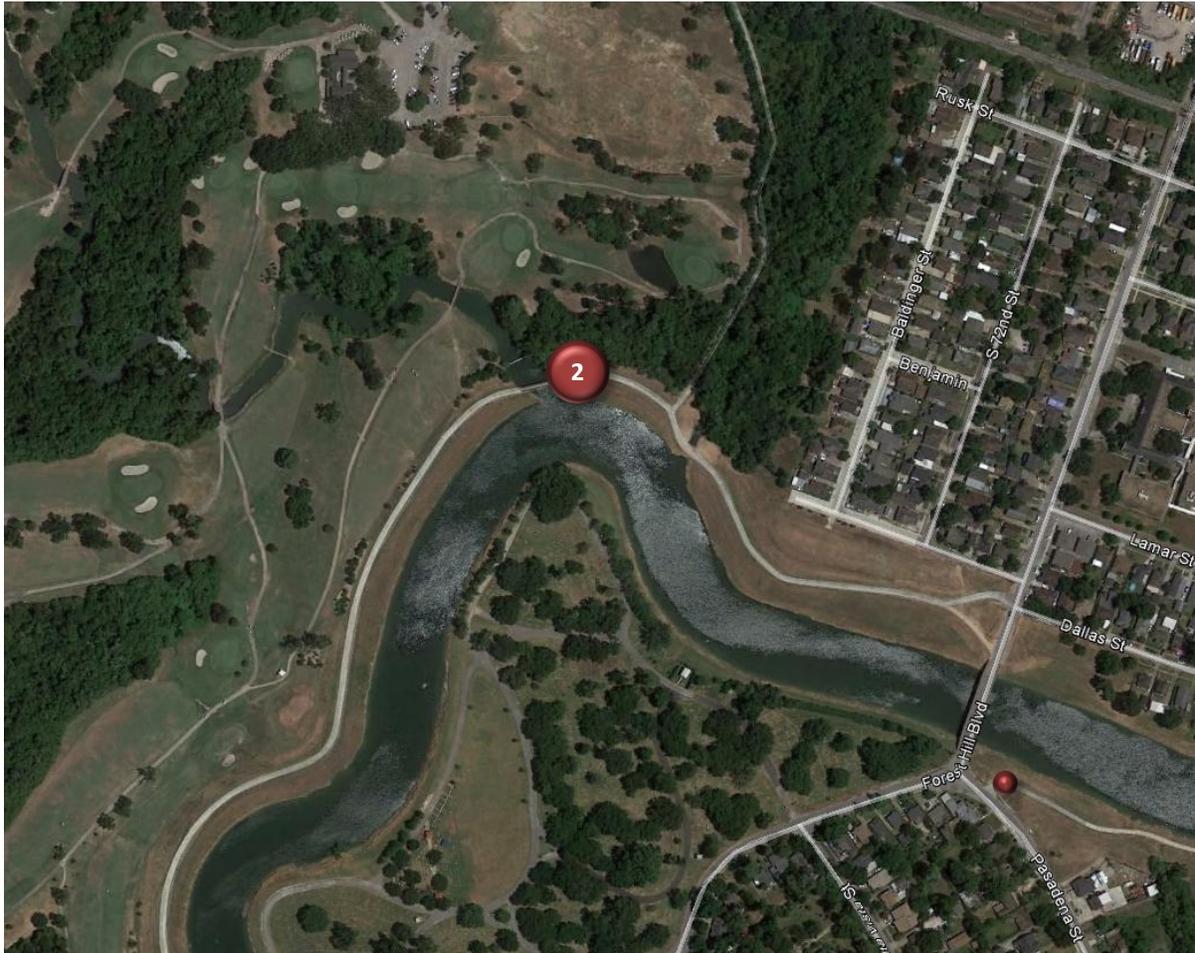
**Counter #2**

## Brays Bayou Trail at Gus Wortham Golf Course

Location Information		
Location Name	Brays Bayou Trail at Gus Wortham Golf Course	
Location Description	Brays Bayou Trail (Shared-Use Path) adjacent to Gus Wortham Golf Course on a bridge crossing tributary of Brays Bayou	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°43'49.33"N, 95°18'10.71"W	
Surrounding Land Uses	North	Gus Wortham Golf Course
	South	Brays Bayou, Cemetery, Single-Family Residential
	East	Single-Family Residential, Briscoe Elementary School
	West	Gus Wortham Golf Course
What object was device secured to?	Bridge Railing (Near Eastern End of Bridge)	
Sidewalk Width	14'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	No (Mostly Open)	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 31, 2015 - April 22, 2015; September 19, 2015 - October 6, 2015)	
Notes	Counter #2 stopped collecting data prior to the end of the deployment period at approximately 8:00 p.m. on Saturday, March 26 (battery stopped working).	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (135 users/day) than on weekdays (88 users/day).</li> <li>• On weekdays, usage gradually increases as the day progresses, peaking in the evening (5:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the afternoon (1:00 p.m. – 3:00 p.m.) and evening (4:00 p.m. – 7:00 p.m.).</li> <li>• Average daily usage in March 2016 remained the same as what was recorded in April 2015 (104 users/day); weekday usage increased, but pedestrian/bicycle volumes on weekends decreased. Usage in March 2016 (104 users/day) was 14% lower than what was recorded in September 2015 (121 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 3: Brays Bayou Trail at Gus Wortham Golf Course Facing East



Image 4: Brays Bayou Trail at Gus Wortham Golf Course Facing West

<b>Daily Usage</b> Brays Bayou Trail at Gus Wortham Golf Course				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	77	81	63	T
Saturday, March 19, 2016	132	69	50	0
Sunday, March 20, 2016	113	61	43	0
Monday, March 21, 2016	70	63	34	0
Tuesday, March 22, 2016	60	70	42	0
Wednesday, March 23, 2016	38	76	63	0.03
Thursday, March 24, 2016	74	69	51	0.38
Friday, March 25, 2016	209	70	42	0
Saturday, March 26, 2016	161	75	46	0

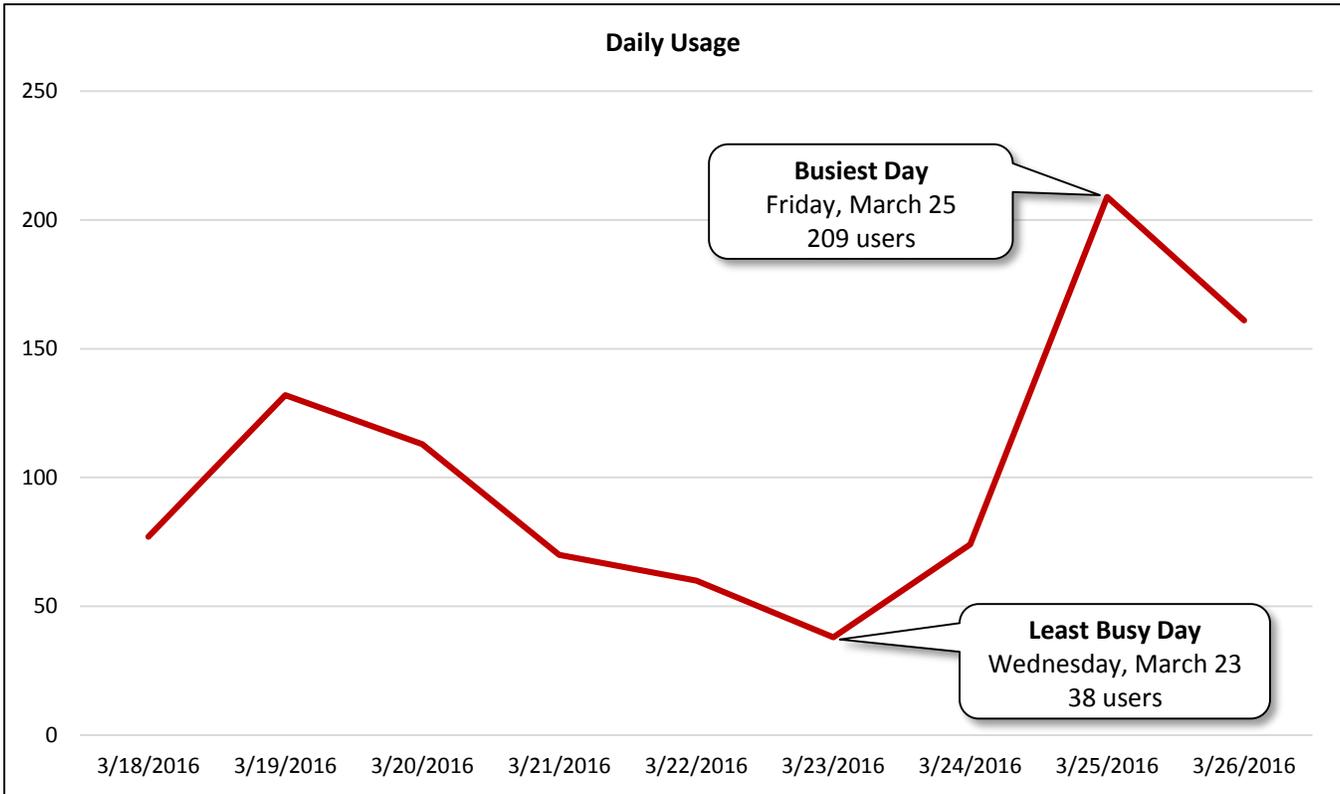
  

<b>Total</b>	934
<b>Average Daily Usage</b>	104
<b>Average Daily Usage (Weekday)</b>	88
<b>Average Daily Usage (Weekend)</b>	135

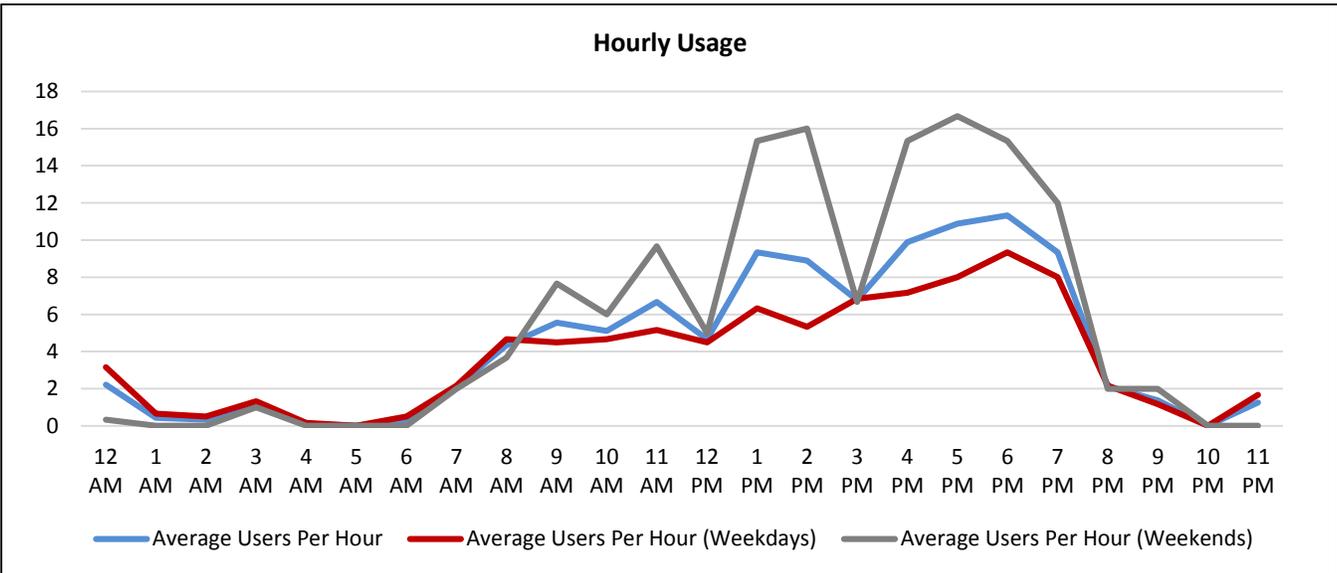
  

<b>Notes</b>	
Houston ISD Spring Break: March 14, 2016 – March 18, 2016	
Counter #2 stopped collecting data prior to the end of the deployment period at approximately 8:00 p.m. on Saturday, March 26 (battery stopped working).	

\*Weather conditions recorded at KHOU.

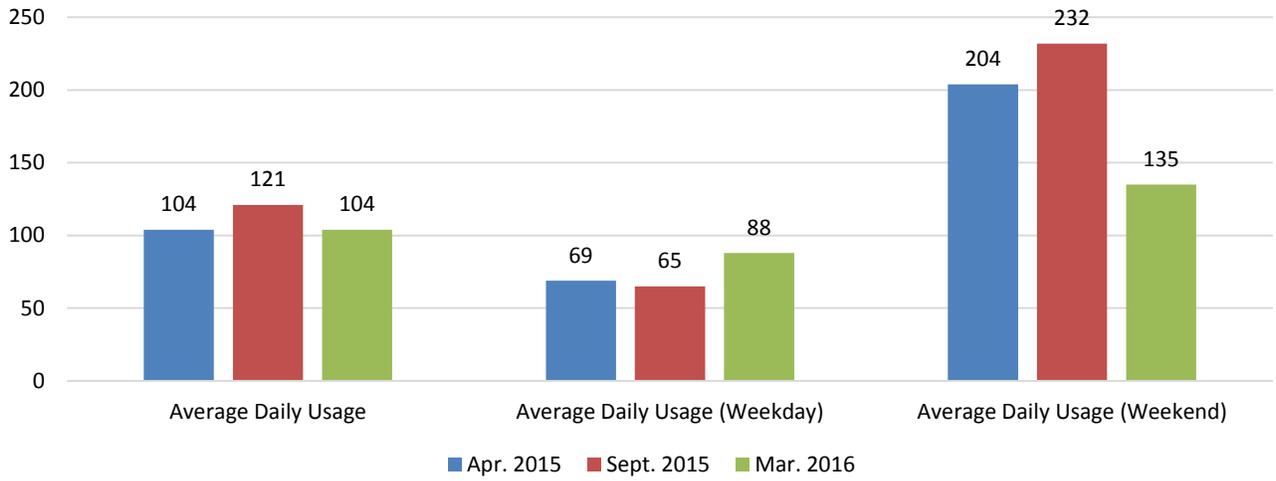


<b>Hourly Usage</b>			
Brays Bayou Trail at Gus Wortham Golf Course			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	2.2	3.2	0.3
1:00 a.m.	0.4	0.7	0.0
2:00 a.m.	0.3	0.5	0.0
3:00 a.m.	1.2	1.3	1.0
4:00 a.m.	0.1	0.2	0.0
5:00 a.m.	0.0	0.0	0.0
6:00 a.m.	0.3	0.5	0.0
7:00 a.m.	2.1	2.2	2.0
8:00 a.m.	4.3	4.7	3.7
9:00 a.m.	5.6	4.5	7.7
10:00 a.m.	5.1	4.7	6.0
11:00 a.m.	6.7	5.2	9.7
12:00 p.m.	4.7	4.5	5.0
1:00 p.m.	9.3	6.3	15.3
2:00 p.m.	8.9	5.3	16.0
3:00 p.m.	6.8	6.8	6.7
4:00 p.m.	9.9	7.2	15.3
5:00 p.m.	10.9	8.0	16.7
6:00 p.m.	11.3	9.3	15.3
7:00 p.m.	9.3	8.0	12.0
8:00 p.m.	2.1	2.2	2.0
9:00 p.m.	1.4	1.2	2.0
10:00 p.m.	0.0	0.0	0.0
11:00 p.m.	1.3	1.7	0.0

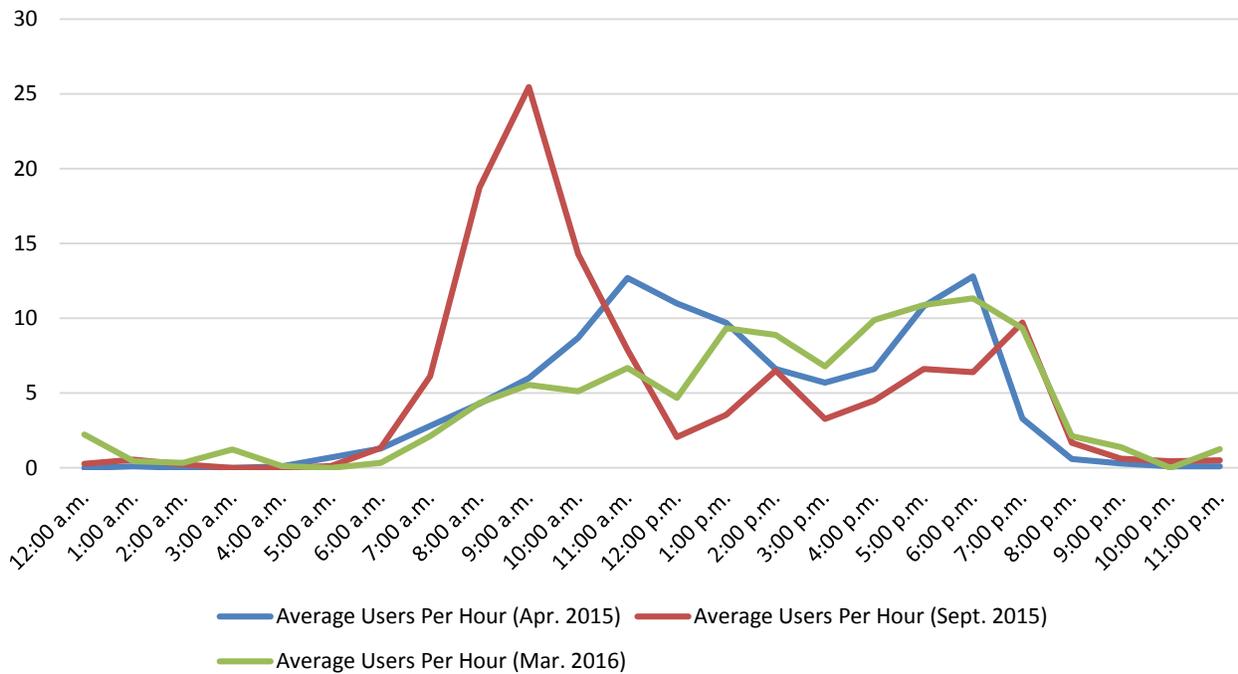


## Historical Comparison

### Comparison: Daily Usage



### Comparison: Hourly Usage



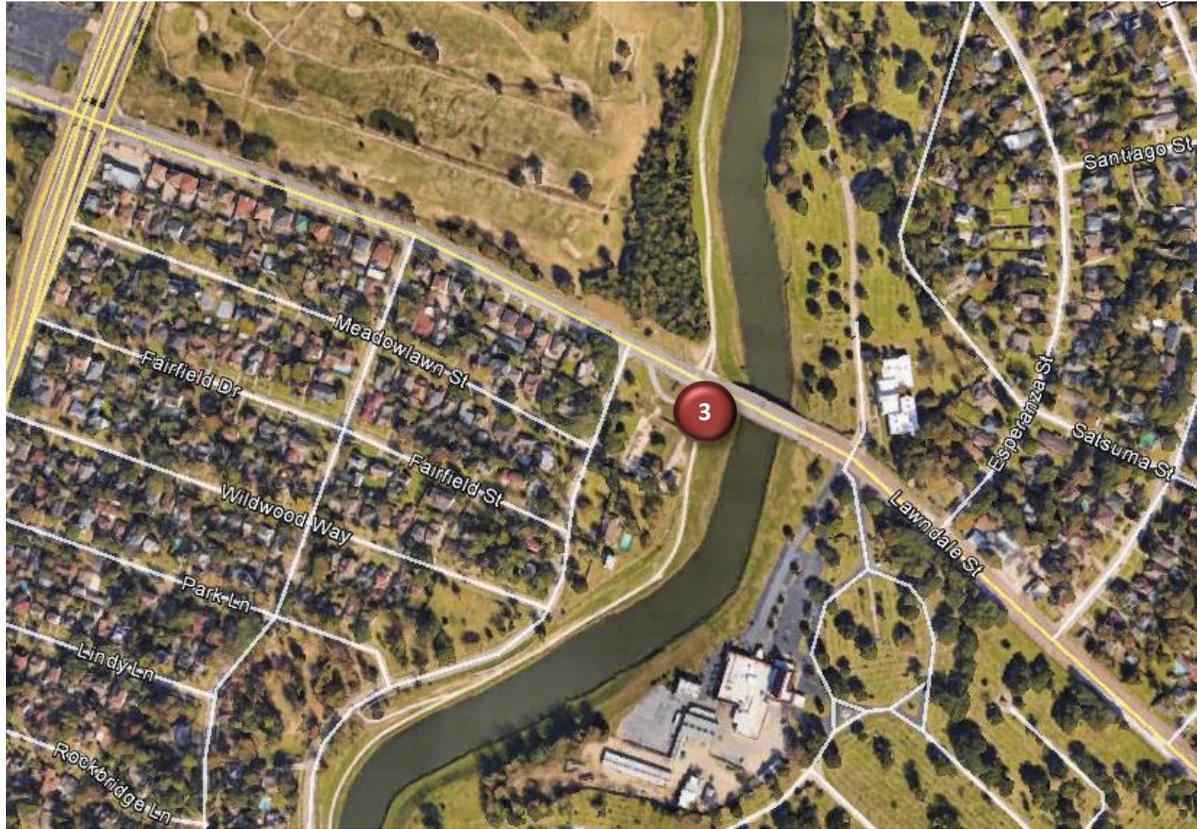
**Counter #3**

## Brays Bayou Trail at Lawndale Street

Location Information		
Location Name	Brays Bayou Trail at Lawndale Street	
Location Description	Brays Bayou Trail (shared-use path) south of Lawndale Street	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°43'20.55"N, 95°18'20.21"W	
Surrounding Land Uses	North	Gus Wortham Golf Course, Cemetery
	South	Single-Family Residential, Cemetery
	East	Brays Bayou, Cemetery, Single-Family Residential
	West	Single-Family Residential, Gus Wortham Golf Course
What object was device secured to?	Sign Post (No Motor Vehicles)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stop 320' West at Lawndale Street/N. MacGregor Way)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher during weekends (69 users/day) than on weekdays (53 users/day).</li> <li>• While average daily usage is higher during weekends than on weekdays, Monday had the highest average usage of any day of the week (89 users/day).</li> <li>• On weekdays, usage is highest in the evening (6:00 p.m. – 7:00 p.m.). There is also a pronounced increase in usage during the morning hours (9:00 a.m. – 10:00 a.m.).</li> <li>• During weekends, usage varies throughout the day. It is highest in the evening (6:00 p.m. – 7:00 p.m.), but there are also pronounced increases in usage during the morning (9:00 a.m. – 10:00 a.m.) and mid-afternoon hours (2:00 p.m. – 3:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 5: Brays Bayou Trail at Lawndale Street  
Facing North



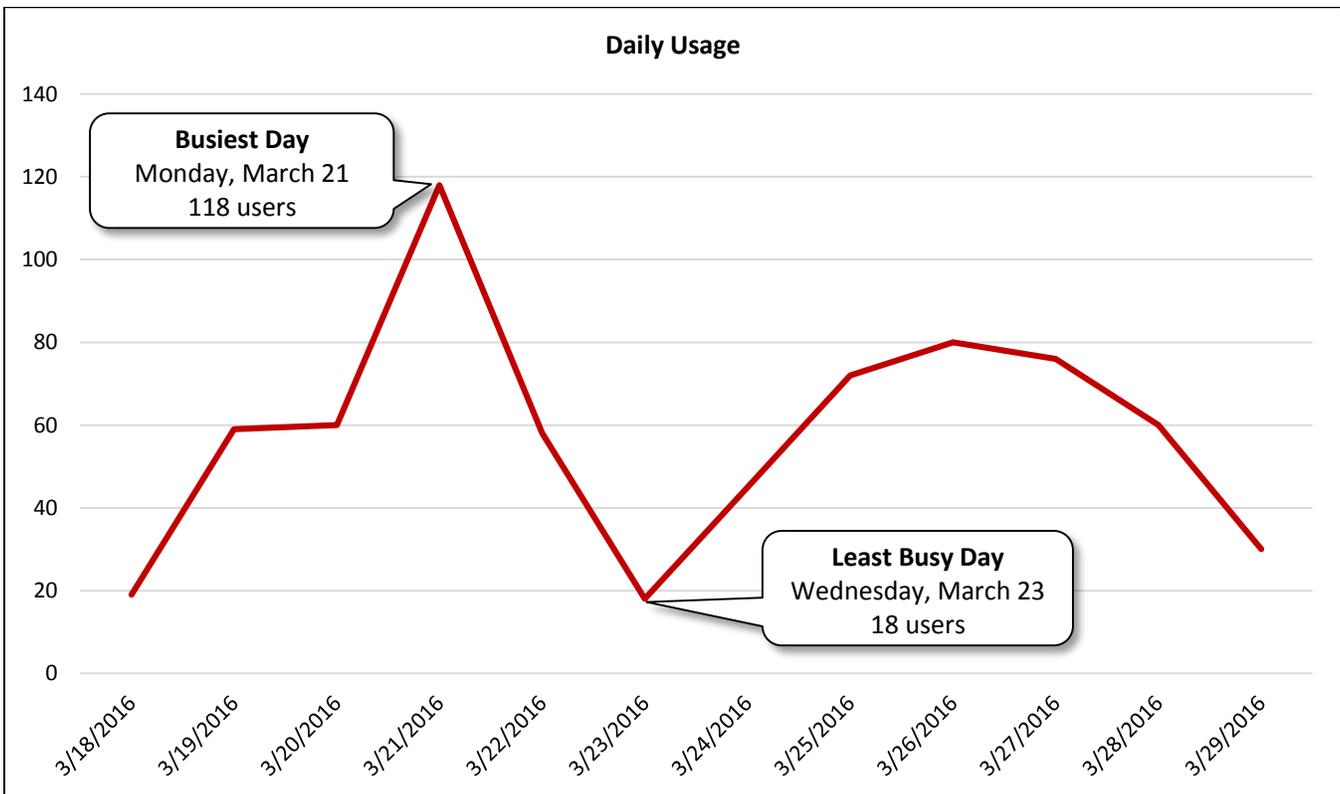
Image 6: Brays Bayou Trail at Lawndale Street  
Facing South

<b>Daily Usage</b> Brays Bayou Trail at Lawndale Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	19	81	63	T
Saturday, March 19, 2016	59	69	50	0
Sunday, March 20, 2016	60	61	43	0
Monday, March 21, 2016	118	63	34	0
Tuesday, March 22, 2016	58	70	42	0
Wednesday, March 23, 2016	18	76	63	0.03
Thursday, March 24, 2016	45	69	51	0.38
Friday, March 25, 2016	72	70	42	0
Saturday, March 26, 2016	80	75	46	0
Sunday, March 27, 2016	76	77	57	0
Monday, March 28, 2016	60	75	49	0
Tuesday, March 29, 2016	30	71	59	T
<b>Total</b>	695			
<b>Average Daily Usage</b>	58			
<b>Average Daily Usage (Weekday)</b>	53			
<b>Average Daily Usage (Weekend)</b>	69			

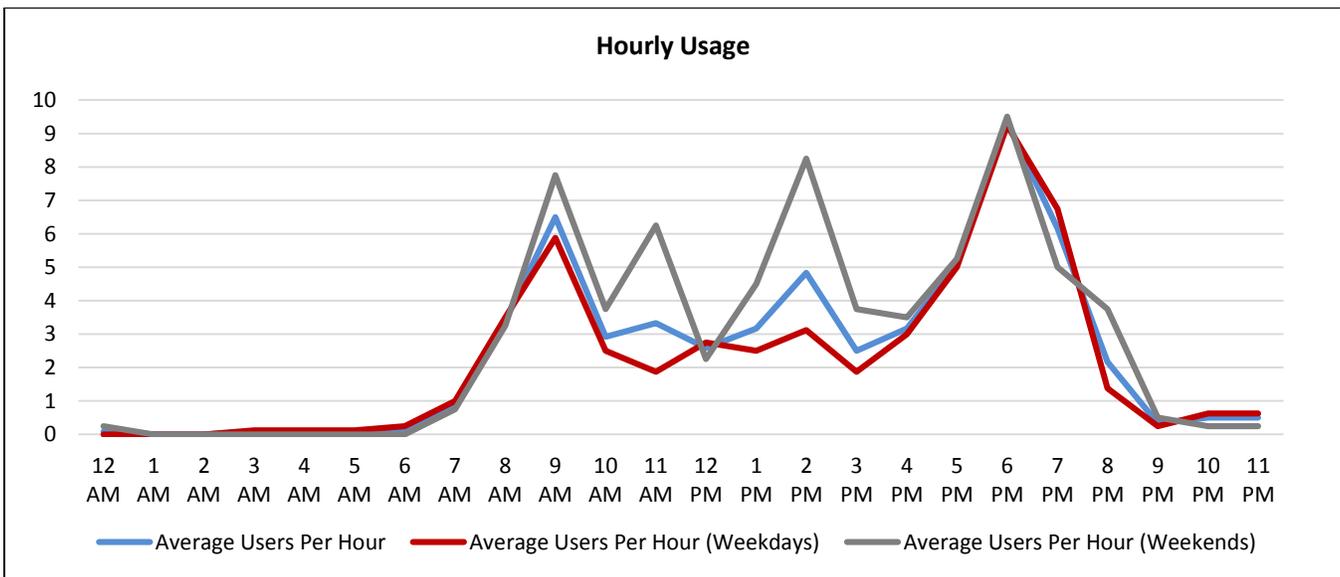
  

<b>Notes</b>	
Houston ISD Spring Break: March 14, 2016 – March 18, 2016	

\*Weather conditions recorded at KHOU.



Hourly Usage Brays Bayou Trail at Lawndale Street			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.1	0.0	0.3
1:00 a.m.	0.0	0.0	0.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.1	0.1	0.0
4:00 a.m.	0.1	0.1	0.0
5:00 a.m.	0.1	0.1	0.0
6:00 a.m.	0.2	0.3	0.0
7:00 a.m.	0.9	1.0	0.8
8:00 a.m.	3.4	3.5	3.3
9:00 a.m.	6.5	5.9	7.8
10:00 a.m.	2.9	2.5	3.8
11:00 a.m.	3.3	1.9	6.3
12:00 p.m.	2.6	2.8	2.3
1:00 p.m.	3.2	2.5	4.5
2:00 p.m.	4.8	3.1	8.3
3:00 p.m.	2.5	1.9	3.8
4:00 p.m.	3.2	3.0	3.5
5:00 p.m.	5.1	5.0	5.3
6:00 p.m.	9.3	9.3	9.5
7:00 p.m.	6.2	6.8	5.0
8:00 p.m.	2.2	1.4	3.8
9:00 p.m.	0.3	0.3	0.5
10:00 p.m.	0.5	0.6	0.3
11:00 p.m.	0.5	0.6	0.3



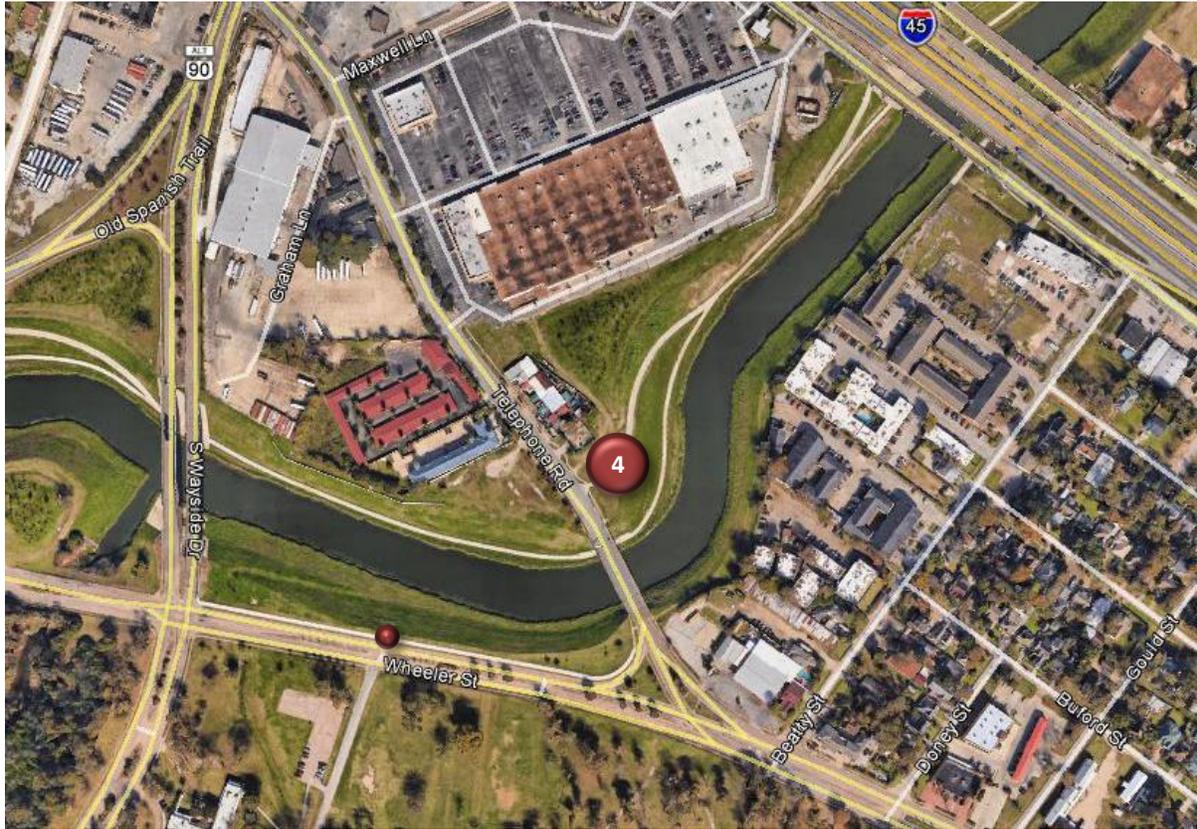
**Counter #4**

Brays Bayou Trail at Telephone Road Access

Location Information		
Location Name	Brays Bayou Trail at Telephone Road Access	
Location Description	Spur from Brays Bayou Trail (shared-use path) that provides street-level access to Telephone Road	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°42'34.23"N, 95°18'49.10"W	
Surrounding Land Uses	North	Commercial/Retail, Hotels
	South	Brays Bayou, Commercial/Retail, Park
	East	Brays Bayou, Multi-Family Residential, Single-Family Residential
	West	Vacant Land, Hotels
What object was device secured to?	Sign Post (End Bike Route)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stop 530' South at Telephone Road/Wheeler Street)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher during weekends (34 users/day) than on weekdays (29 users/day).</li> <li>• While average daily usage is higher during weekends than on weekdays, Mondays had the highest average usage of any day of the week (45 users/day).</li> <li>• On weekdays, usage is highest in the mornings (9:00 a.m. – 10:00 a.m.).</li> <li>• During weekends, usage is highest in the late afternoon (4:00 p.m. – 5:00 p.m.) and later in the evening (7:00 p.m. – 8:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 7: Brays Bayou Trail – Telephone Road Access Facing East



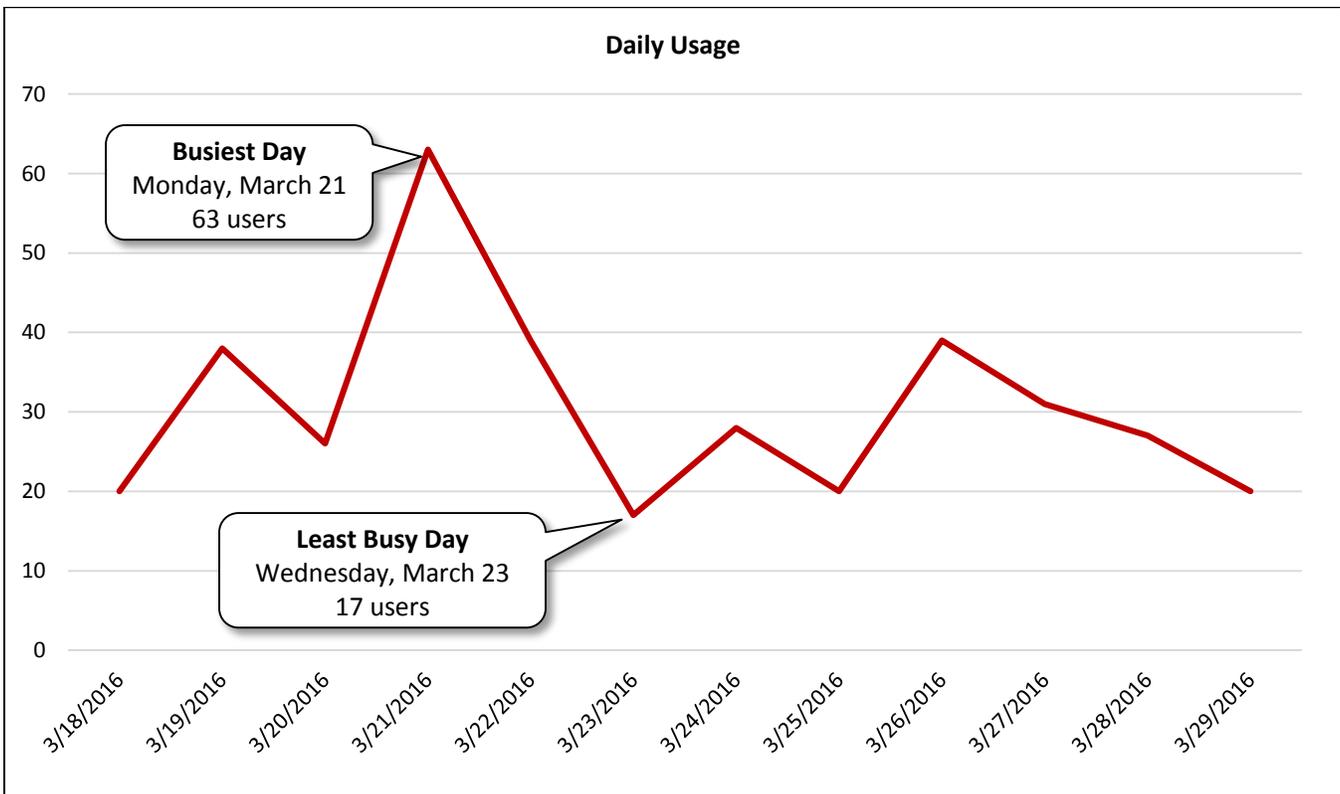
Image 8: Brays Bayou Trail – Telephone Road Access Facing West

<b>Daily Usage</b> Brays Bayou Trail at Telephone Road Access				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	20	81	63	T
Saturday, March 19, 2016	38	69	50	0
Sunday, March 20, 2016	26	61	43	0
Monday, March 21, 2016	63	63	34	0
Tuesday, March 22, 2016	39	70	42	0
Wednesday, March 23, 2016	17	76	63	0.03
Thursday, March 24, 2016	28	69	51	0.38
Friday, March 25, 2016	20	70	42	0
Saturday, March 26, 2016	39	75	46	0
Sunday, March 27, 2016	31	77	57	0
Monday, March 28, 2016	27	75	49	0
Tuesday, March 29, 2016	20	71	59	T
<b>Total</b>	368			
<b>Average Daily Usage</b>	31			
<b>Average Daily Usage (Weekday)</b>	29			
<b>Average Daily Usage (Weekend)</b>	34			

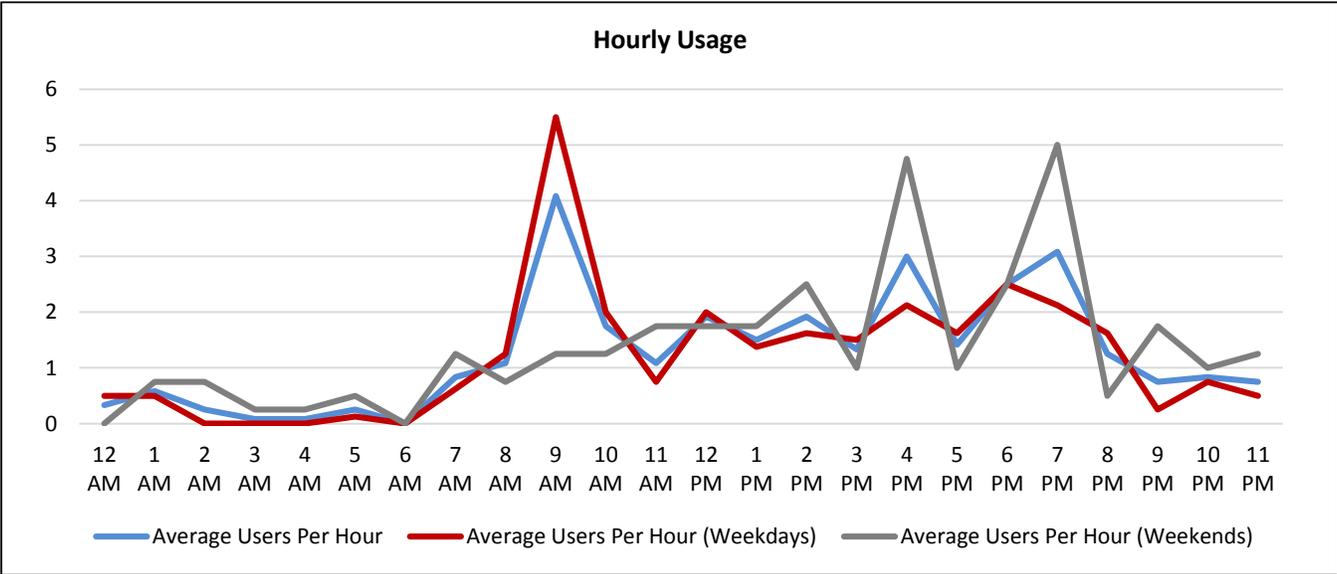
  

<b>Notes</b>	
Houston ISD Spring Break: March 14, 2016 – March 18, 2016	

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Brays Bayou Trail at Telephone Road Access			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.3	0.5	0.0
1:00 a.m.	0.6	0.5	0.8
2:00 a.m.	0.3	0.0	0.8
3:00 a.m.	0.1	0.0	0.3
4:00 a.m.	0.1	0.0	0.3
5:00 a.m.	0.3	0.1	0.5
6:00 a.m.	0.0	0.0	0.0
7:00 a.m.	0.8	0.6	1.3
8:00 a.m.	1.1	1.3	0.8
9:00 a.m.	4.1	5.5	1.3
10:00 a.m.	1.8	2.0	1.3
11:00 a.m.	1.1	0.8	1.8
12:00 p.m.	1.9	2.0	1.8
1:00 p.m.	1.5	1.4	1.8
2:00 p.m.	1.9	1.6	2.5
3:00 p.m.	1.3	1.5	1.0
4:00 p.m.	3.0	2.1	4.8
5:00 p.m.	1.4	1.6	1.0
6:00 p.m.	2.5	2.5	2.5
7:00 p.m.	3.1	2.1	5.0
8:00 p.m.	1.3	1.6	0.5
9:00 p.m.	0.8	0.3	1.8
10:00 p.m.	0.8	0.8	1.0
11:00 p.m.	0.8	0.5	1.3



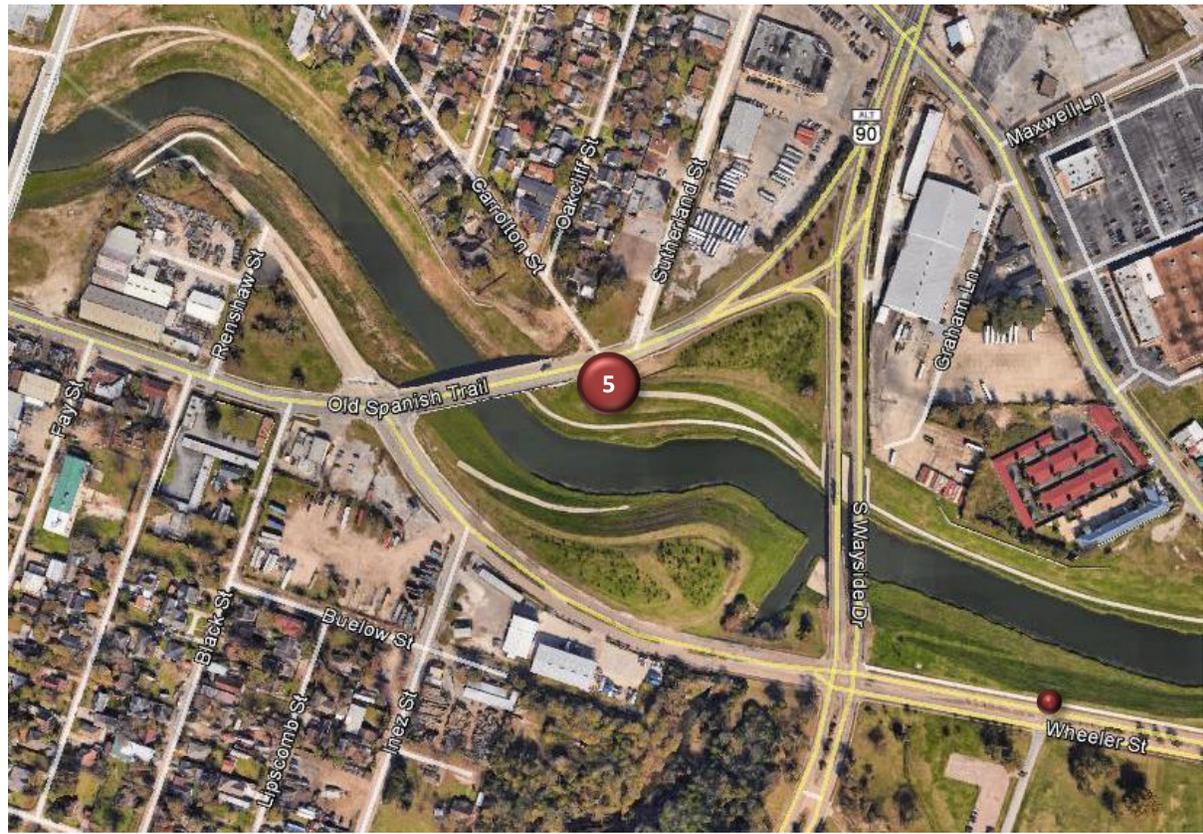
**Counter #5**

**Brays Bayou Trail at Old Spanish Trail Access**

Location Information		
Location Name	Brays Bayou Trail at Old Spanish Trail Access	
Location Description	Spur from Brays Bayou Trail (shared-use path) that provides street-level access to Old Spanish Trail (U.S. 90A)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°42'38.05"N, 95°19'6.37"W	
Surrounding Land Uses	North	Vacant Land, Industrial, Bus Terminal, Single-Family Residential
	South	Brays Bayou, Industrial, Vacant
	East	Vacant Land
	West	Vacant Land, Single-Family Residential
What object was device secured to?	Sign Post (Begin Bike Route)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Yes (METRO Bus Stop 50' West at Brays Bayou Trail Spur/Old Spanish Trail/Carrolton St.)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	Brays Bayou Trail currently ends at Old Spanish Trail (U.S. 90A).	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher during weekends (34 users/day) than on weekdays (30 users/day).</li> <li>• On weekdays, usage is highest in the morning (8:00 a.m. – 9:00 a.m.).</li> <li>• During weekends, usage is highest in the morning (9:00 a.m. – 12:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 9: Brays Bayou Trail – Old Spanish Trail Access Facing East



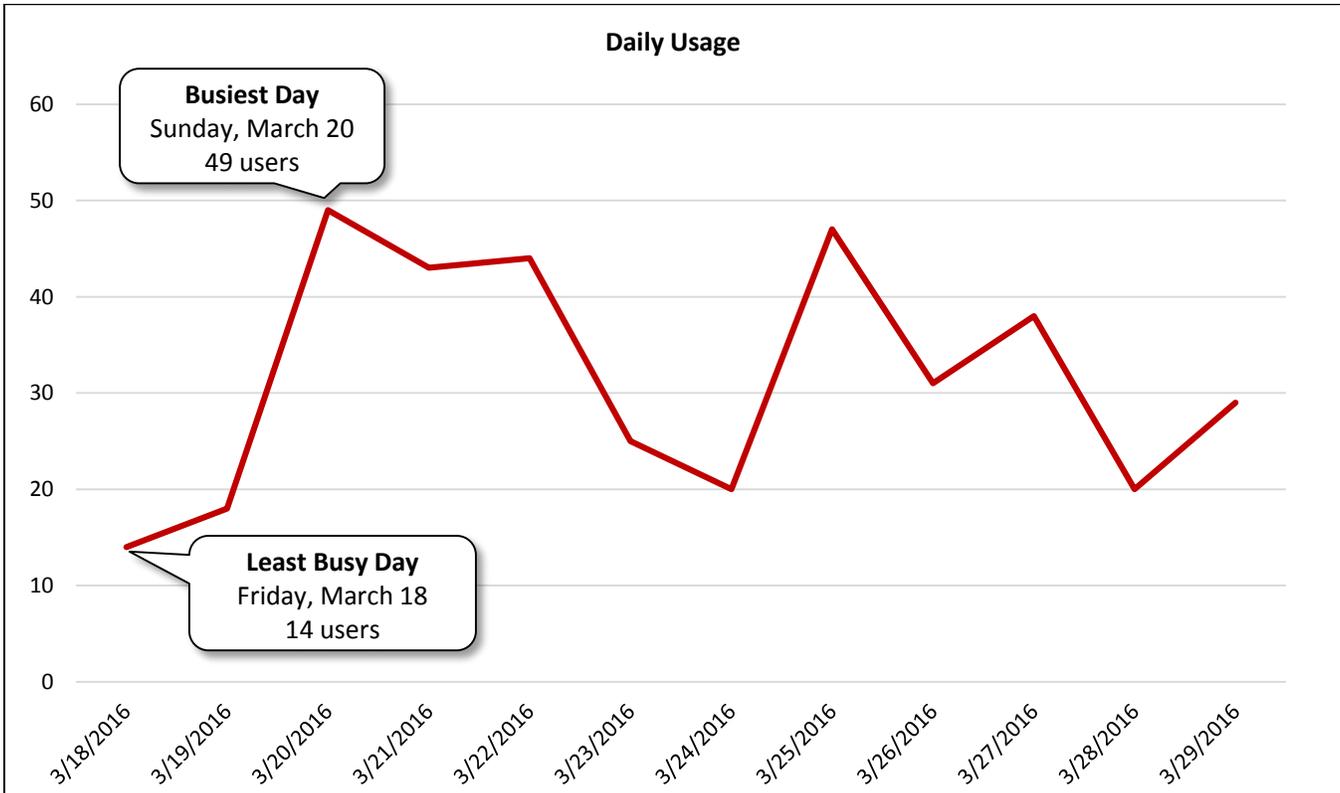
Image 10: Brays Bayou Trail – Old Spanish Trail Access Facing West

<b>Daily Usage</b>				
Brays Bayou Trail at Old Spanish Trail Access				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	14	81	63	T
Saturday, March 19, 2016	18	69	50	0
Sunday, March 20, 2016	49	61	43	0
Monday, March 21, 2016	43	63	34	0
Tuesday, March 22, 2016	44	70	42	0
Wednesday, March 23, 2016	25	76	63	0.03
Thursday, March 24, 2016	20	69	51	0.38
Friday, March 25, 2016	47	70	42	0
Saturday, March 26, 2016	31	75	46	0
Sunday, March 27, 2016	38	77	57	0
Monday, March 28, 2016	20	75	49	0
Tuesday, March 29, 2016	29	71	59	T
<b>Total</b>	378			
<b>Average Daily Usage</b>	32			
<b>Average Daily Usage (Weekday)</b>	30			
<b>Average Daily Usage (Weekend)</b>	34			

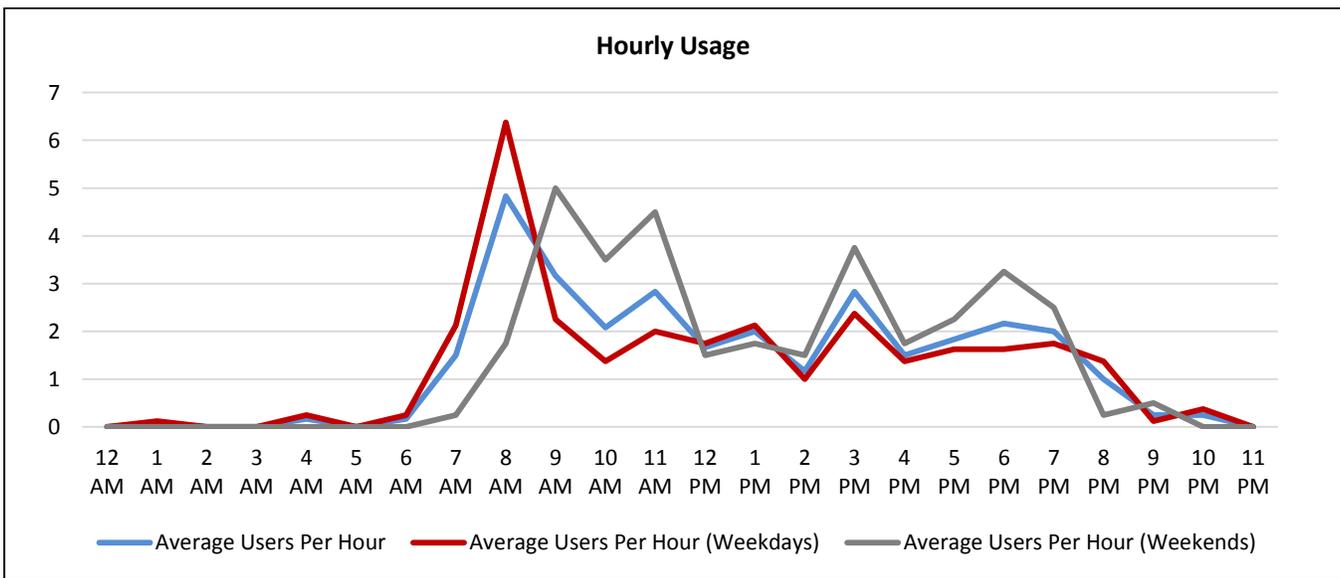
  

<b>Notes</b>	
Houston ISD Spring Break: March 14, 2016 – March 18, 2016	

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Brays Bayou Trail at Old Spanish Trail Access			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.0	0.0	0.0
1:00 a.m.	0.1	0.1	0.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.2	0.3	0.0
5:00 a.m.	0.0	0.0	0.0
6:00 a.m.	0.2	0.3	0.0
7:00 a.m.	1.5	2.1	0.3
8:00 a.m.	4.8	6.4	1.8
9:00 a.m.	3.2	2.3	5.0
10:00 a.m.	2.1	1.4	3.5
11:00 a.m.	2.8	2.0	4.5
12:00 p.m.	1.7	1.8	1.5
1:00 p.m.	2.0	2.1	1.8
2:00 p.m.	1.2	1.0	1.5
3:00 p.m.	2.8	2.4	3.8
4:00 p.m.	1.5	1.4	1.8
5:00 p.m.	1.8	1.6	2.3
6:00 p.m.	2.2	1.6	3.3
7:00 p.m.	2.0	1.8	2.5
8:00 p.m.	1.0	1.4	0.3
9:00 p.m.	0.3	0.1	0.5
10:00 p.m.	0.3	0.4	0.0
11:00 p.m.	0.0	0.0	0.0



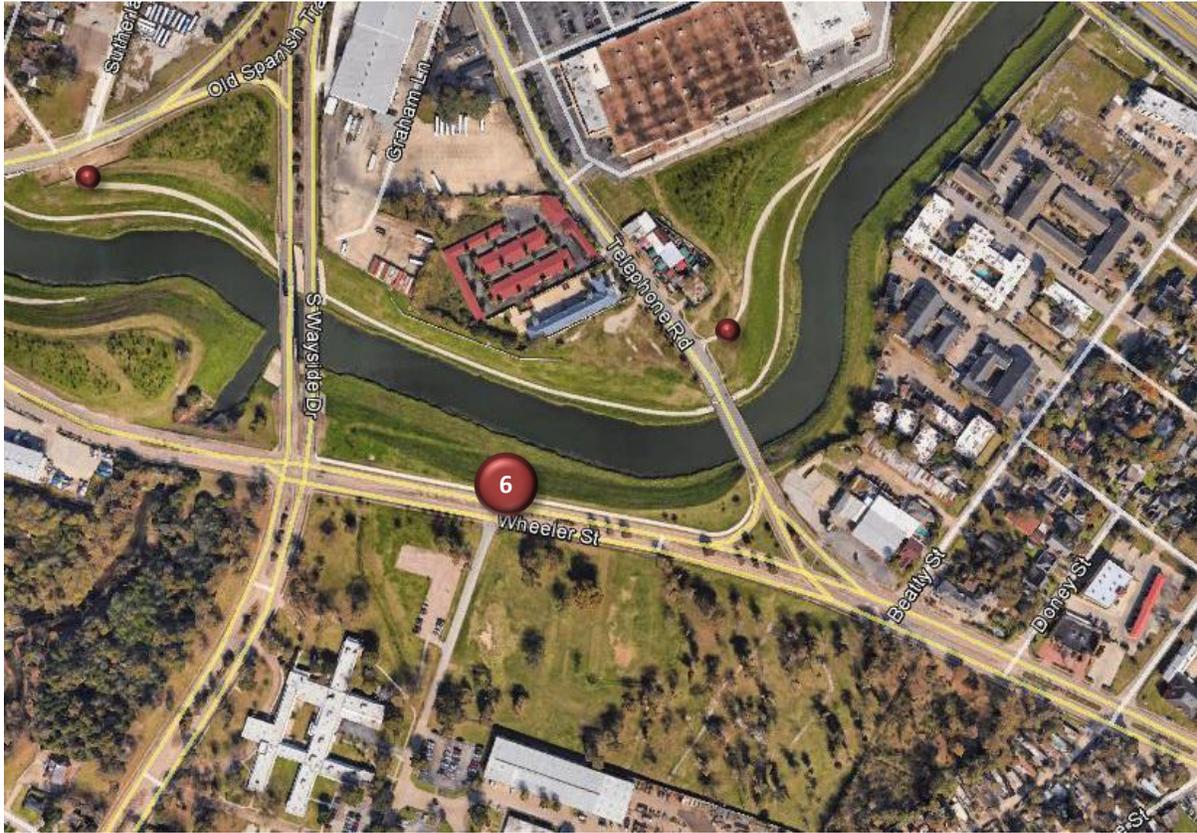
**Counter #6**

Wheeler Street Trail between S. Wayside Drive and Telephone Road

Location Information	
Location Name	Wheeler Street Trail between S. Wayside Drive and Telephone Road
Location Description	Wheeler Street Trail (shared-use path) between S. Wayside Drive and Telephone Road
Jurisdiction	City of Houston
Agency Deployed	City of Houston: Parks and Recreation Department
GPS Coordinates	29°42'30.55"N, 95°18'54.55"W
Surrounding Land Uses	North   Brays Bayou, Hotels
	South   Park, Office (City of Houston: Parks and Recreation Department)
	East   Park, Commercial/Retail
	West   Vacant Land
What object was device secured to?	Light Post (Opposite Driveway to City of Houston: Parks and Recreation Department)
Sidewalk Width	10'
Buffer Width	4'
Street Width	Four-Lane Divided Roadway
Parallel Parking	No
Landscaping or Trees	Yes
Sidewalk Pavement Type	Concrete
ADA Ramps	Yes
Sidewalk Condition	Excellent
Speed Limit	35 miles per hour
Street Lighting	Yes
Street Traffic Volume	4,626 (6200 Wheeler Street: City of Houston – 2012)
Transit	Nearby (METRO Bus Stop 675' East at Telephone Road/Wheeler Street)
Shade	No
Have counts been collected by H-GAC at this location before?	No
Notes	This shared-use path currently only extends approximately 1,100' between S. Wayside Drive and Telephone Road.

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be slightly higher on weekdays (17 users/day) than during weekends (15 users/day).</li> <li>• On weekdays, usage tends to be highest in the morning (9:00 a.m. – 10:00 a.m.).</li> <li>• During weekends, usage tends to be highest in the late morning (10:00 a.m. – 11:00 a.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 11: Wheeler Street Trail Facing East



Image 12: Wheeler Street Trail Facing West

<b>Daily Usage</b>				
Wheeler Street Trail between S. Wayside Drive and Telephone Road				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	38	81	63	T
Saturday, March 19, 2016	21	69	50	0
Sunday, March 20, 2016	5	61	43	0
Monday, March 21, 2016	9	63	34	0
Tuesday, March 22, 2016	13	70	42	0
Wednesday, March 23, 2016	12	76	63	0.03
Thursday, March 24, 2016	13	69	51	0.38
Friday, March 25, 2016	16	70	42	0
Saturday, March 26, 2016	21	75	46	0
Sunday, March 27, 2016	11	77	57	0
Monday, March 28, 2016	19	75	49	0
Tuesday, March 29, 2016	12	71	59	T

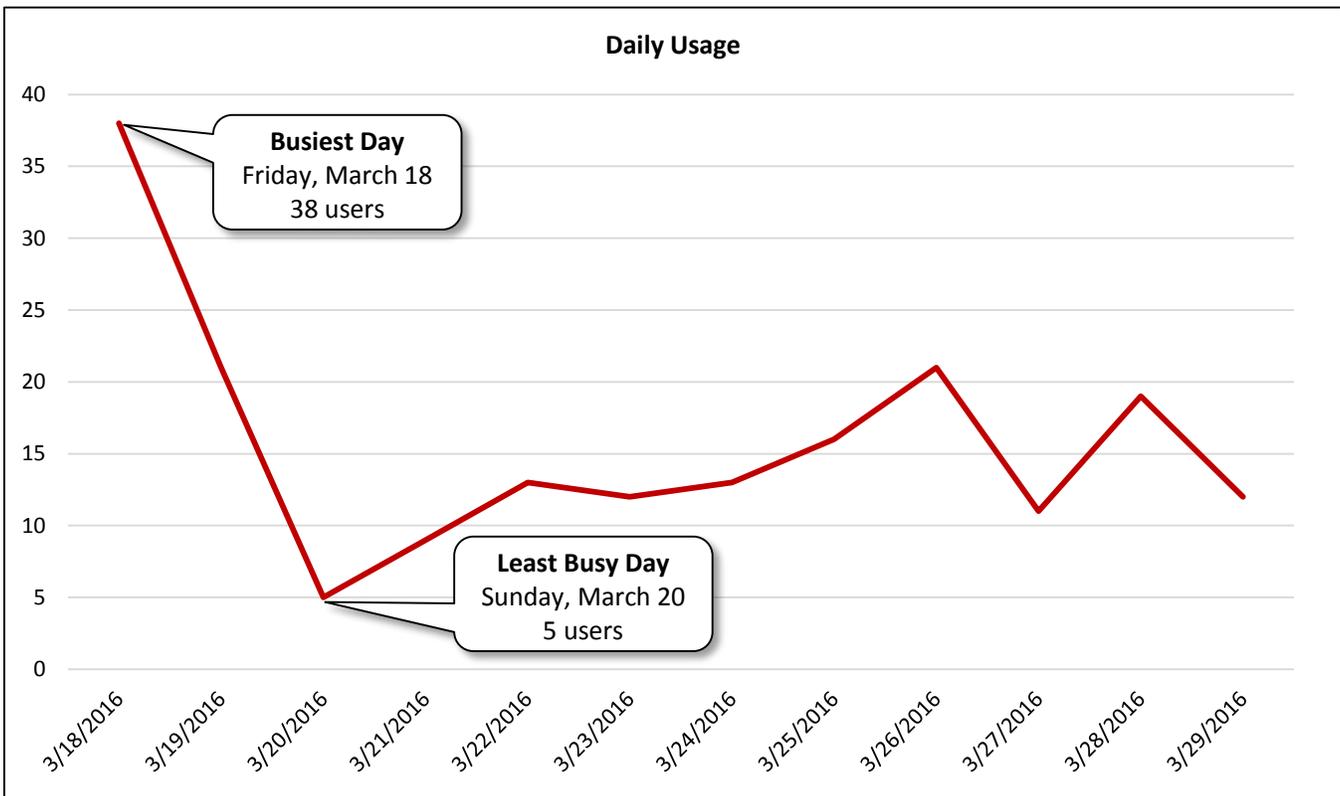
  

<b>Total</b>	190
<b>Average Daily Usage</b>	16
<b>Average Daily Usage (Weekday)</b>	17
<b>Average Daily Usage (Weekend)</b>	15

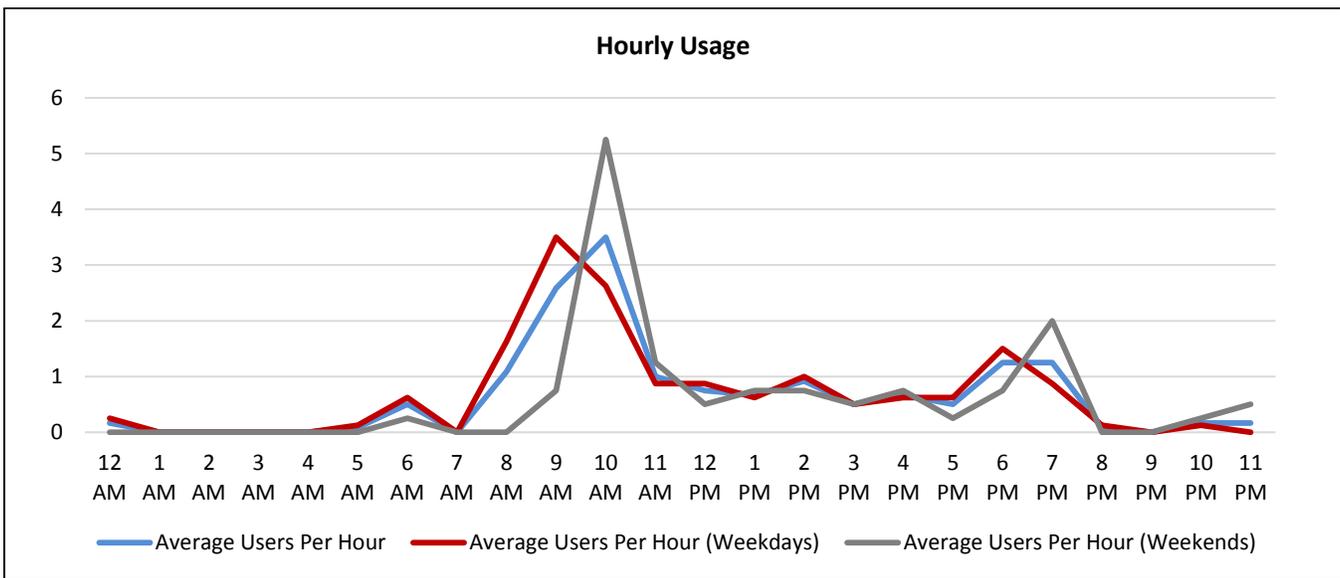
  

Notes
Houston ISD Spring Break: March 14, 2016 – March 18, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Wheeler Street Trail between S. Wayside Drive and Telephone Road			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.2	0.3	0.0
1:00 a.m.	0.0	0.0	0.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.0	0.0	0.0
5:00 a.m.	0.1	0.1	0.0
6:00 a.m.	0.5	0.6	0.3
7:00 a.m.	0.0	0.0	0.0
8:00 a.m.	1.1	1.6	0.0
9:00 a.m.	2.6	3.5	0.8
10:00 a.m.	3.5	2.6	5.3
11:00 a.m.	1.0	0.9	1.3
12:00 p.m.	0.8	0.9	0.5
1:00 p.m.	0.7	0.6	0.8
2:00 p.m.	0.9	1.0	0.8
3:00 p.m.	0.5	0.5	0.5
4:00 p.m.	0.7	0.6	0.8
5:00 p.m.	0.5	0.6	0.3
6:00 p.m.	1.3	1.5	0.8
7:00 p.m.	1.3	0.9	2.0
8:00 p.m.	0.1	0.1	0.0
9:00 p.m.	0.0	0.0	0.0
10:00 p.m.	0.2	0.1	0.3
11:00 p.m.	0.2	0.0	0.5



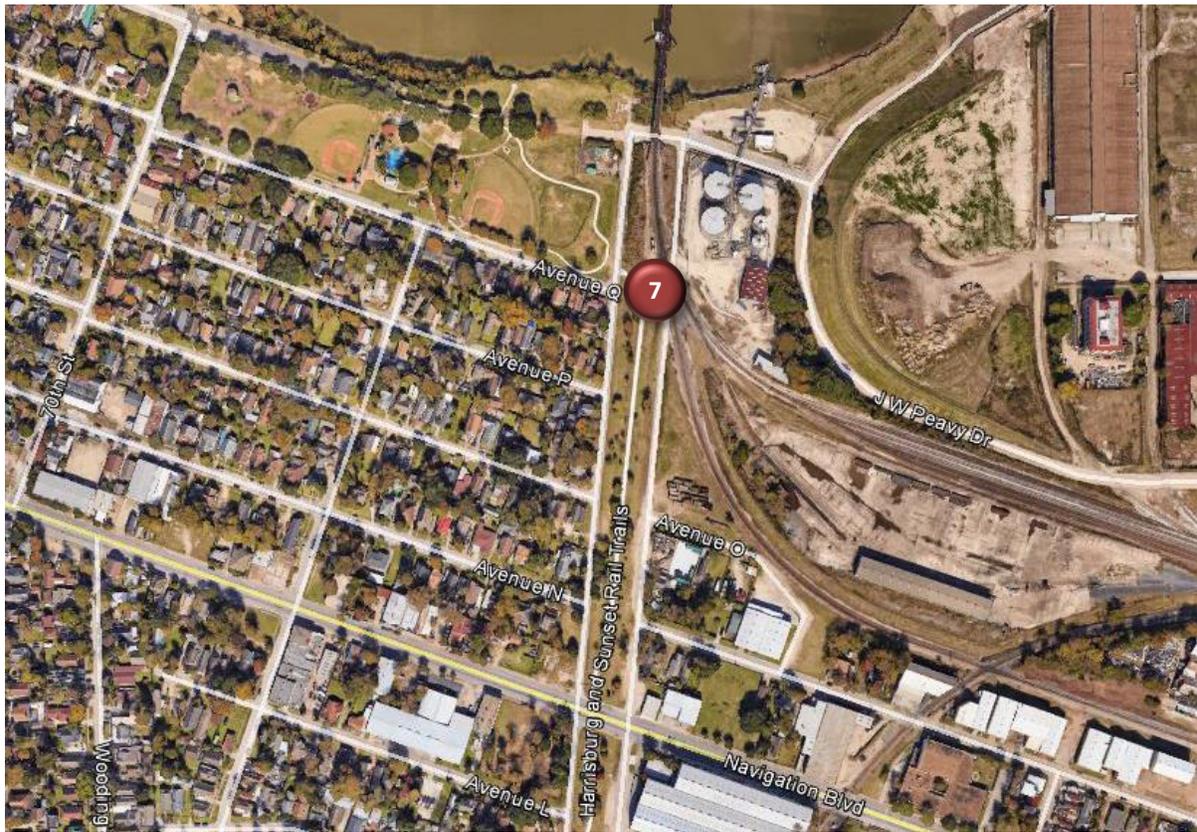
**Counter #7**

## Harrisburg Sunset Trail at Avenue Q

Location Information		
Location Name	Harrisburg Sunset Trail at Avenue Q	
Location Description	Harrisburg Sunset Trail (shared-use path) near intersection of Avenue Q/W. Hedrick Street	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°44'42.28"N, 95°17'38.00"W	
Surrounding Land Uses	North	Park, Buffalo Bayou
	South	Single-Family Residential, Industrial
	East	Vacant Land, Industrial
	West	Park, Single-Family Residential
What object was device secured to?	Light Post (Second Light Post from W. Hendrick Street)	
Sidewalk Width	10'	
Buffer Width	60' (from W. Hendrick Street)	
Street Width	Two-Lane Undivided Roadway	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	30 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	N/A	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be similar on weekdays (44 users/day) and during weekends (45 users/day).</li> <li>• Mondays had the highest average usage of any day of the week (78 users/day).</li> <li>• On weekdays, usage is highest in the morning (9:00 a.m. – 11:00 a.m.).</li> <li>• During weekends, usage is highest midday (11:00 a.m. – 1:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 23: Harrisburg Sunset Trail at Avenue Q  
Facing North



Image 24: Harrisburg Sunset Trail at Avenue Q  
Facing South

<b>Daily Usage</b> Harrisburg Sunset Trail at Avenue Q				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	14	81	63	T
Saturday, March 19, 2016	14	69	50	0
Sunday, March 20, 2016	72	61	43	0
Monday, March 21, 2016	50	63	34	0
Tuesday, March 22, 2016	50	70	42	0
Wednesday, March 23, 2016	15	76	63	0.03
Thursday, March 24, 2016	19	69	51	0.38
Friday, March 25, 2016	69	70	42	0
Saturday, March 26, 2016	39	75	46	0
Sunday, March 27, 2016	53	77	57	0
Monday, March 28, 2016	106	75	49	0
Tuesday, March 29, 2016	27	71	59	T

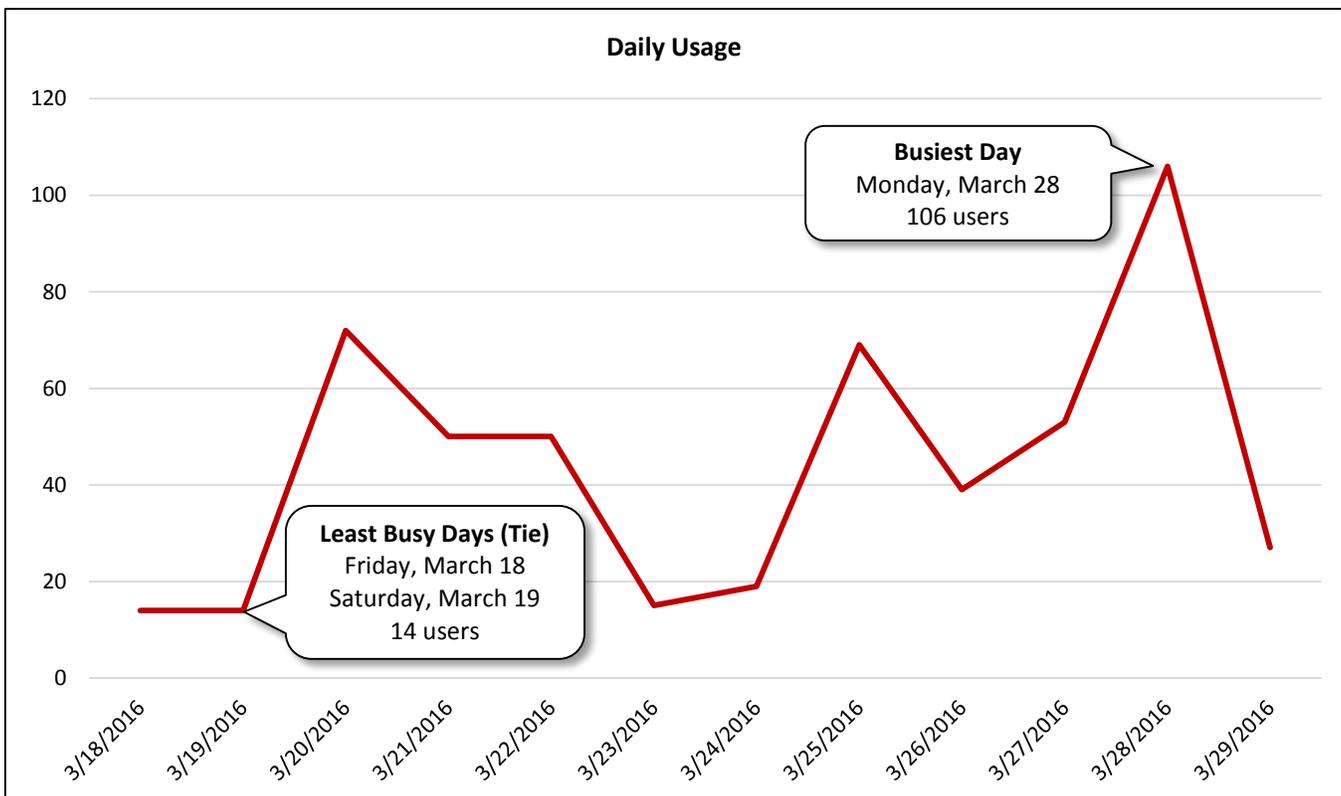
  

<b>Total</b>	528
<b>Average Daily Usage</b>	44
<b>Average Daily Usage (Weekday)</b>	44
<b>Average Daily Usage (Weekend)</b>	45

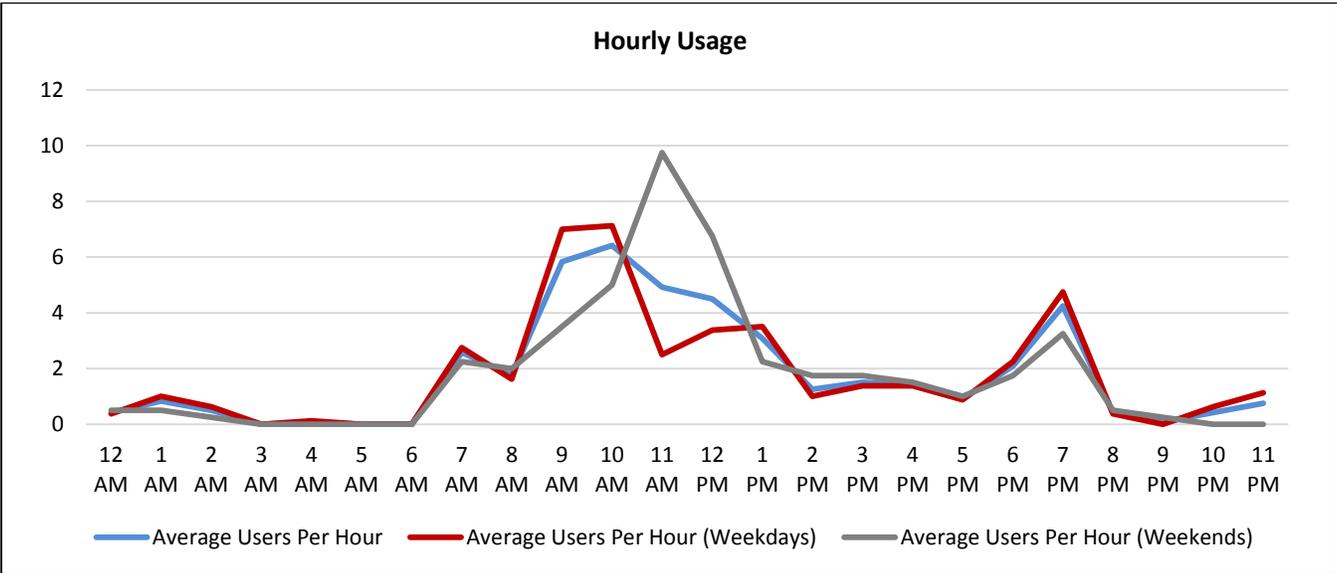
  

Notes
Houston ISD Spring Break: March 14, 2016 – March 18, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Harrisburg Sunset Trail at Avenue Q			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.4	0.4	0.5
1:00 a.m.	0.8	1.0	0.5
2:00 a.m.	0.5	0.6	0.3
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.1	0.1	0.0
5:00 a.m.	0.0	0.0	0.0
6:00 a.m.	0.0	0.0	0.0
7:00 a.m.	2.6	2.8	2.3
8:00 a.m.	1.8	1.6	2.0
9:00 a.m.	5.8	7.0	3.5
10:00 a.m.	6.4	7.1	5.0
11:00 a.m.	4.9	2.5	9.8
12:00 p.m.	4.5	3.4	6.8
1:00 p.m.	3.1	3.5	2.3
2:00 p.m.	1.3	1.0	1.8
3:00 p.m.	1.5	1.4	1.8
4:00 p.m.	1.4	1.4	1.5
5:00 p.m.	0.9	0.9	1.0
6:00 p.m.	2.1	2.3	1.8
7:00 p.m.	4.3	4.8	3.3
8:00 p.m.	0.4	0.4	0.5
9:00 p.m.	0.1	0.0	0.3
10:00 p.m.	0.4	0.6	0.0
11:00 p.m.	0.8	1.1	0.0



**Counter A**

Harrisburg Sunset Trail at Avenue I

Location Information		
Location Name	Harrisburg Sunset Trail at Avenue I	
Location Description	Harrisburg Sunset Trail (shared-use path) north of Avenue I	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°44'22.83"N, 95°17'40.69"W	
Surrounding Land Uses	North	Single-Family Residential
	South	Single-Family Residential, Industrial, Vacant Land
	East	Single-Family Residential
	West	Single-Family Residential
What object was device secured to?	Utility Pole (First Pole North of Avenue I)	
Sidewalk Width	10'	
Buffer Width	11'	
Street Width	Two-Lane Undivided Roadway	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	30 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	N/A	
Transit	Nearby (METRO Bus Stop 600' South at W. Hedrick Street/Canal Street)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be similar on weekdays (49 users/day) and during weekends (51 users/day).</li> <li>• Mondays had the highest average usage of any day of the week (71 users/day).</li> <li>• On weekdays, usage is highest in the morning (8:00 a.m. – 9:00 a.m.). There is also a pronounced increase in usage during in the evening (4:00 p.m. – 5:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 9:00 a.m.) and remains relatively steady throughout the day.</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 13: Harrisburg Sunset Trail Facing North



Image 14: Harrisburg Sunset Trail Facing South

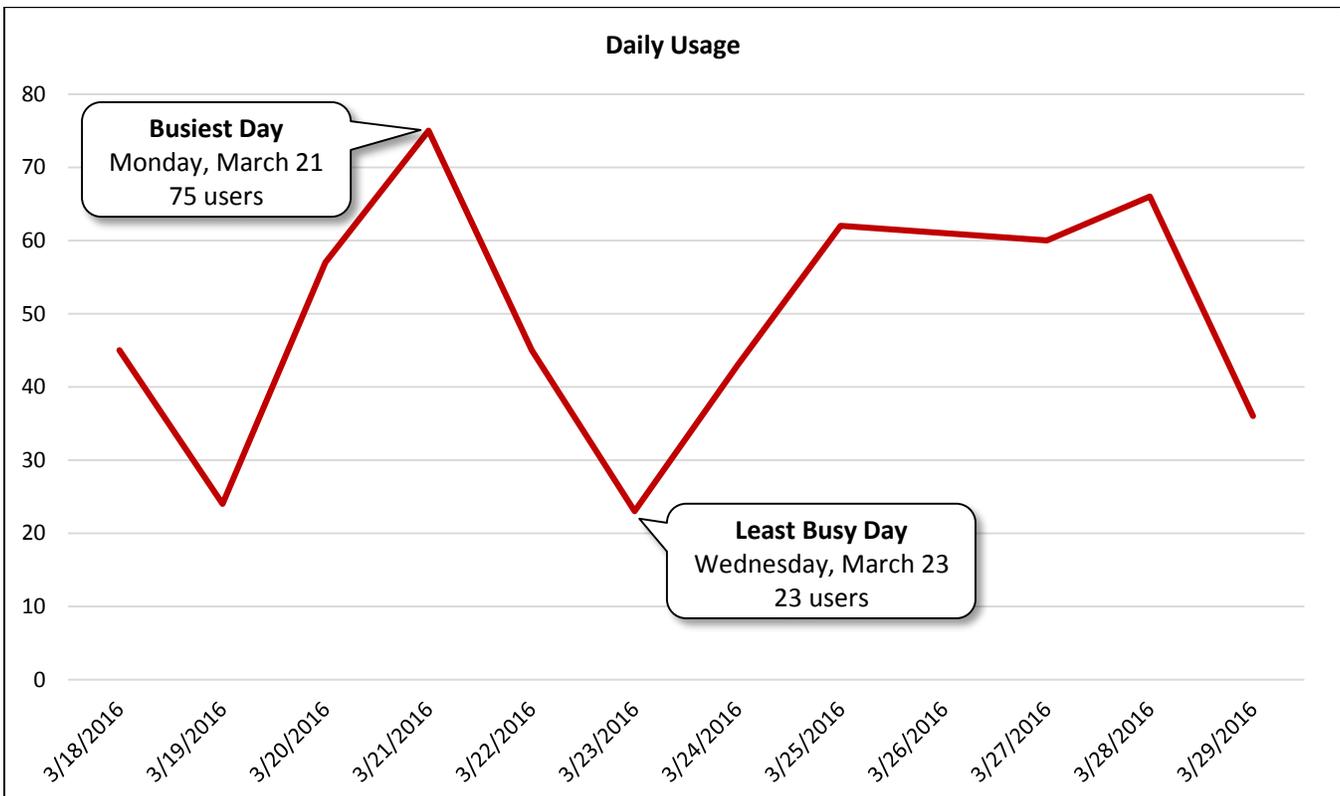
**Daily Usage**  
Harrisburg Sunset Trail at Avenue I

Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	45	81	63	T
Saturday, March 19, 2016	24	69	50	0
Sunday, March 20, 2016	57	61	43	0
Monday, March 21, 2016	75	63	34	0
Tuesday, March 22, 2016	45	70	42	0
Wednesday, March 23, 2016	23	76	63	0.03
Thursday, March 24, 2016	43	69	51	0.38
Friday, March 25, 2016	62	70	42	0
Saturday, March 26, 2016	61	75	46	0
Sunday, March 27, 2016	60	77	57	0
Monday, March 28, 2016	66	75	49	0
Tuesday, March 29, 2016	36	71	59	T

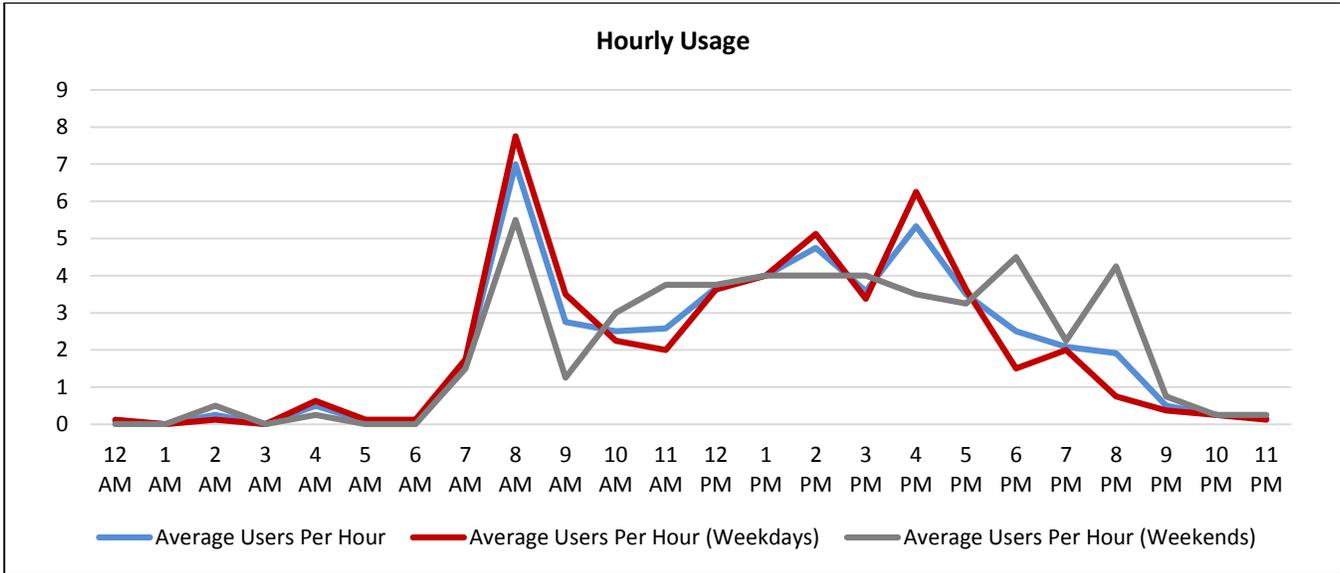
<b>Total</b>	597
<b>Average Daily Usage</b>	50
<b>Average Daily Usage (Weekday)</b>	49
<b>Average Daily Usage (Weekend)</b>	51

Notes
Houston ISD Spring Break: March 14, 2016 – March 18, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Harrisburg Sunset Trail at Avenue I			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.1	0.1	0.0
1:00 a.m.	0.0	0.0	0.0
2:00 a.m.	0.3	0.1	0.5
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.5	0.6	0.3
5:00 a.m.	0.1	0.1	0.0
6:00 a.m.	0.1	0.1	0.0
7:00 a.m.	1.7	1.8	1.5
8:00 a.m.	7.0	7.8	5.5
9:00 a.m.	2.8	3.5	1.3
10:00 a.m.	2.5	2.3	3.0
11:00 a.m.	2.6	2.0	3.8
12:00 p.m.	3.7	3.6	3.8
1:00 p.m.	4.0	4.0	4.0
2:00 p.m.	4.8	5.1	4.0
3:00 p.m.	3.6	3.4	4.0
4:00 p.m.	5.3	6.3	3.5
5:00 p.m.	3.5	3.6	3.3
6:00 p.m.	2.5	1.5	4.5
7:00 p.m.	2.1	2.0	2.3
8:00 p.m.	1.9	0.8	4.3
9:00 p.m.	0.5	0.4	0.8
10:00 p.m.	0.3	0.3	0.3
11:00 p.m.	0.2	0.1	0.3



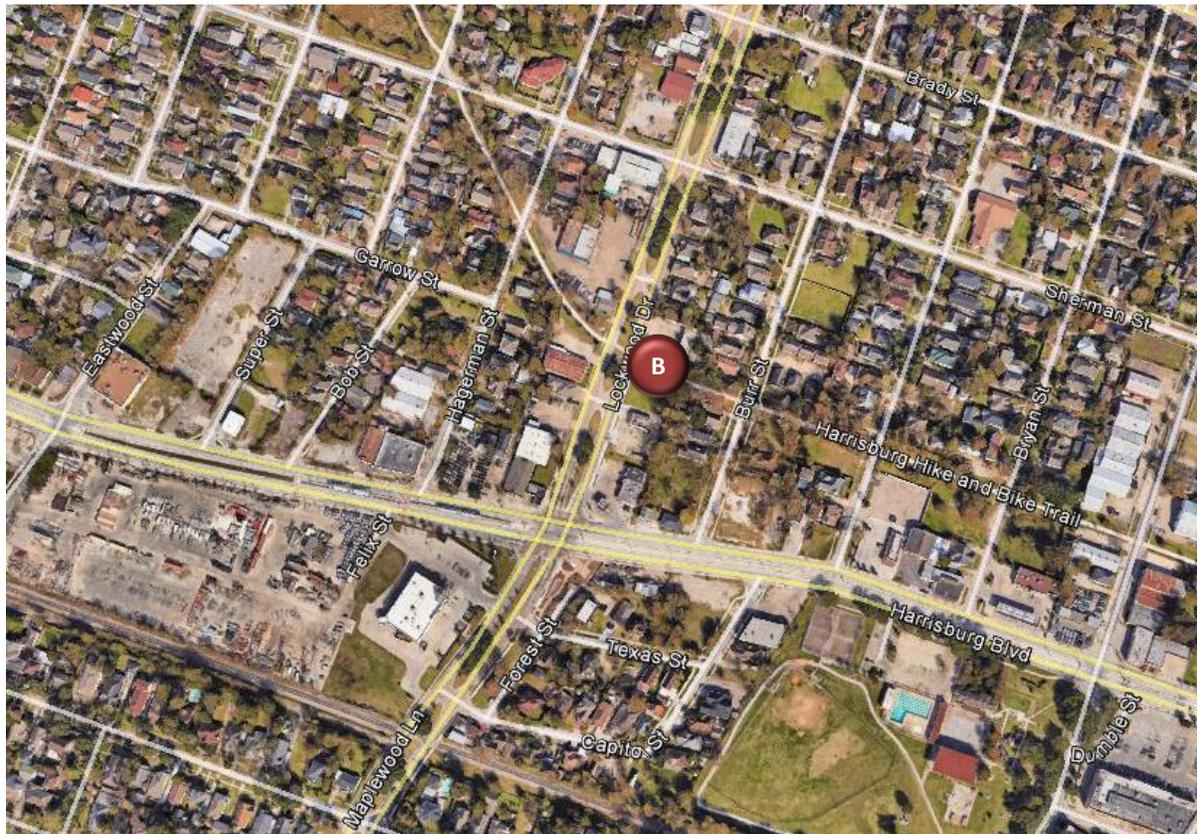
**Counter B**

## Harrisburg Trail at Lockwood Drive

Location Information		
Location Name	Harrisburg Trail at Lockwood Drive	
Location Description	Harrisburg Trail (shared-use path) east of Lockwood Drive	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°44'41"N, 95°19'41"W	
Surrounding Land Uses	North	Commercial, Single-Family Residential
	South	Commercial, Single-Family Residential
	East	Single-Family Residential
	West	Commercial, Single-Family Residential
What object was device secured to?	Sign Post (Bike Route/Directional Signs)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	Yes	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stops 400' South at Harrisburg Blvd./Lockwood Drive and 500' North at Sherman St./Lockwood Dr.)	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	Yes (September 19, 2015 - September 28, 2015)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher on weekdays (243 users/day) than during weekends (218 users/day).</li> <li>• On weekdays, usage generally increases as the day progresses, peaking in the evening hours (5:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage remains relatively steady throughout the day, with highest usage in the evening hours (4:00 p.m. – 7:00 p.m.).</li> <li>• Between September 2015 (when pedestrian/bicycle counts were first collected at this location) and March 2016, average daily usage increased 54% (153 users/day to 235 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 15: Harrisburg Trail at Lockwood Drive Facing East



Image 16: Harrisburg Trail at Lockwood Drive Facing West

<b>Daily Usage</b> Harrisburg Trail at Lockwood Drive				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	187	81	63	T
Saturday, March 19, 2016	197	69	50	0
Sunday, March 20, 2016	220	61	43	0
Monday, March 21, 2016	228	63	34	0
Tuesday, March 22, 2016	287	70	42	0
Wednesday, March 23, 2016	238	76	63	0.03
Thursday, March 24, 2016	230	69	51	0.38
Friday, March 25, 2016	275	70	42	0
Saturday, March 26, 2016	235	75	46	0
Sunday, March 27, 2016	221	77	57	0
Monday, March 28, 2016	302	75	49	0
Tuesday, March 29, 2016	194	71	59	T

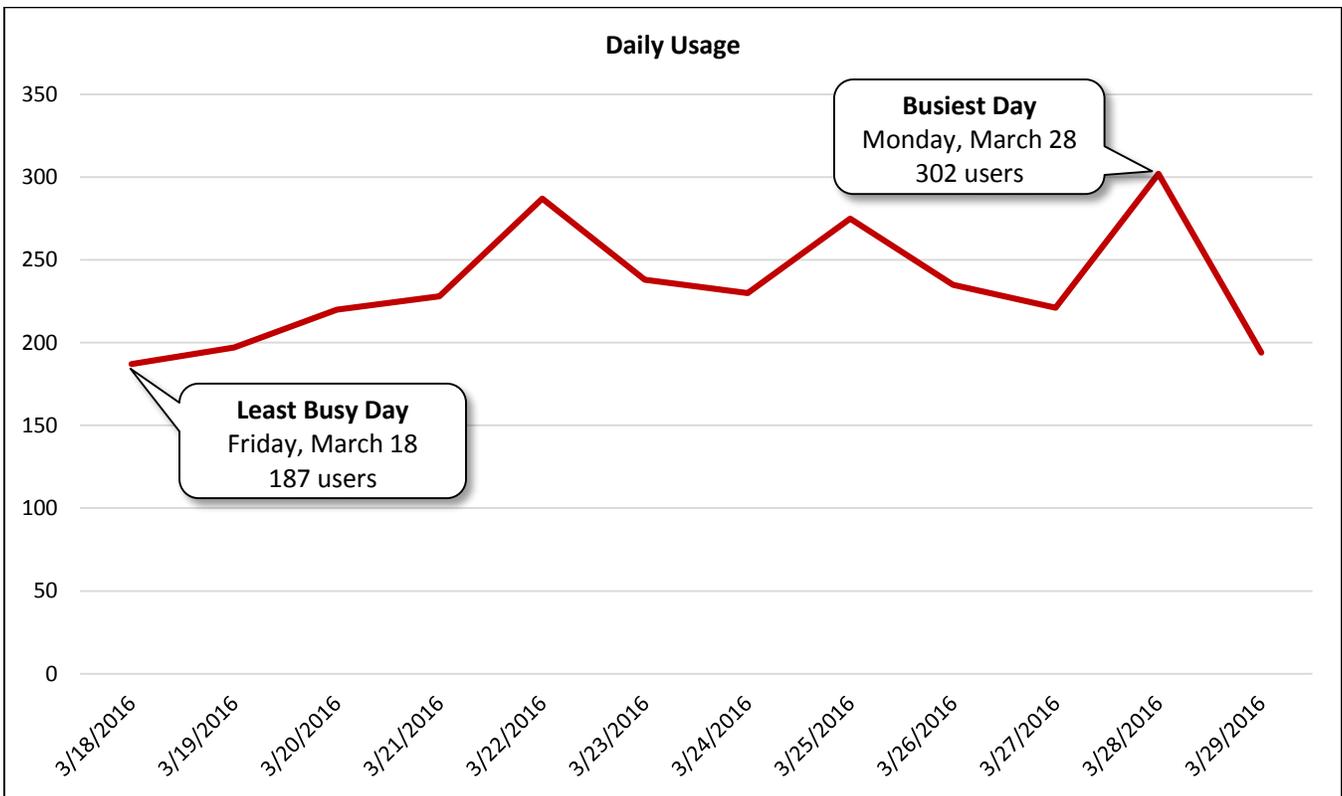
  

<b>Total</b>	2,814
<b>Average Daily Usage</b>	235
<b>Average Daily Usage (Weekday)</b>	243
<b>Average Daily Usage (Weekend)</b>	218

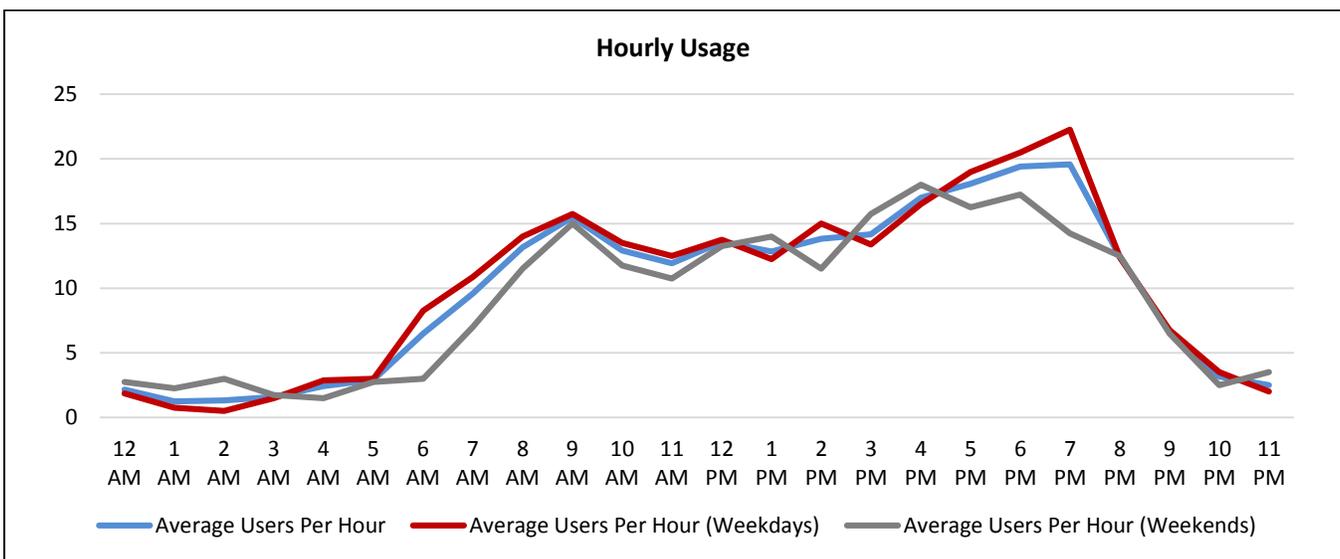
  

Notes
Houston ISD Spring Break: March 14, 2016 – March 18, 2016

\*Weather conditions recorded at KHOU.

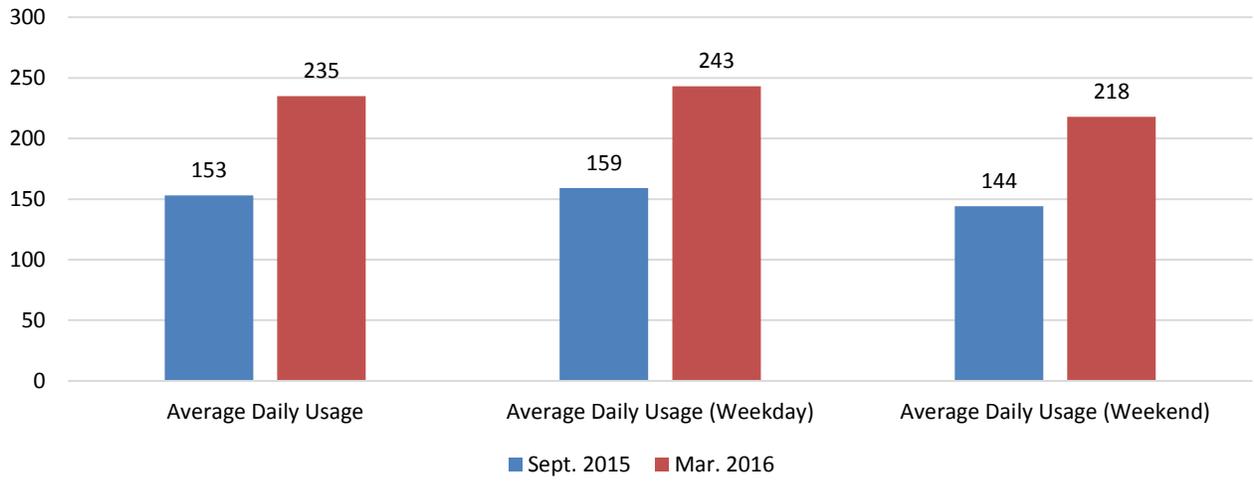


<b>Hourly Usage</b> Harrisburg Trail at Lockwood Drive			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	2.2	1.9	2.8
1:00 a.m.	1.3	0.8	2.3
2:00 a.m.	1.3	0.5	3.0
3:00 a.m.	1.6	1.5	1.8
4:00 a.m.	2.4	2.9	1.5
5:00 a.m.	2.9	3.0	2.8
6:00 a.m.	6.5	8.3	3.0
7:00 a.m.	9.6	10.9	7.0
8:00 a.m.	13.2	14.0	11.5
9:00 a.m.	15.5	15.8	15.0
10:00 a.m.	12.9	13.5	11.8
11:00 a.m.	11.9	12.5	10.8
12:00 p.m.	13.6	13.8	13.3
1:00 p.m.	12.8	12.3	14.0
2:00 p.m.	13.8	15.0	11.5
3:00 p.m.	14.2	13.4	15.8
4:00 p.m.	17.0	16.5	18.0
5:00 p.m.	18.1	19.0	16.3
6:00 p.m.	19.4	20.5	17.3
7:00 p.m.	19.6	22.3	14.3
8:00 p.m.	12.4	12.4	12.5
9:00 p.m.	6.7	6.8	6.5
10:00 p.m.	3.2	3.5	2.5
11:00 p.m.	2.5	2.0	3.5

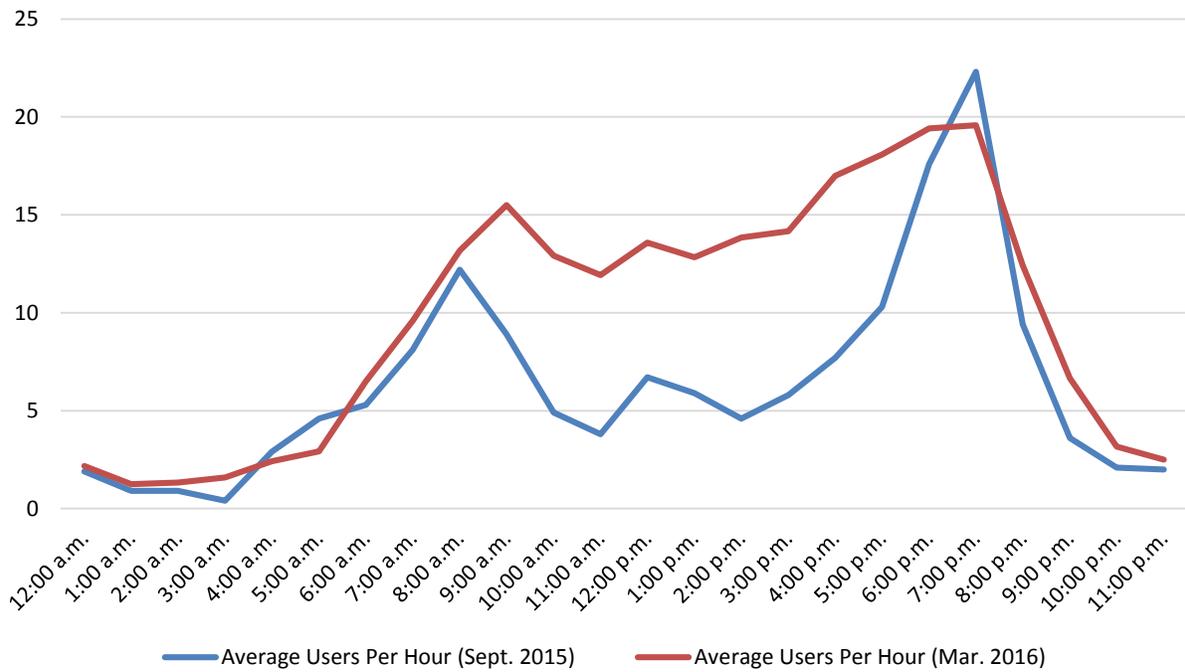


**Historical Comparison**

**Comparison: Daily Usage**



**Comparison: Hourly Usage**



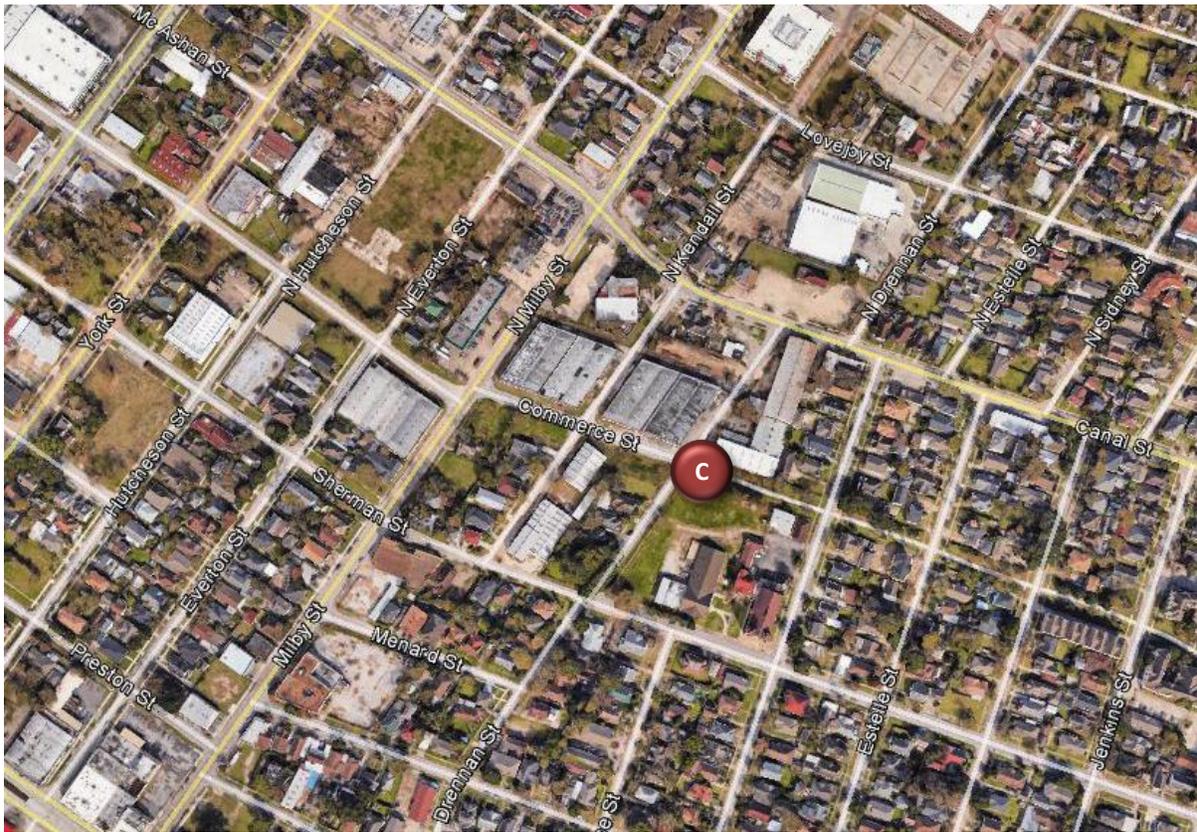
## Counter C

### Harrisburg Trail at Drennan Street

Location Information		
Location Name	Harrisburg Trail at Drennan Street	
Location Description	Harrisburg Trail (shared-use path) east of Drennan Street	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°44'56.82"N, 95°20'3.33"W	
Surrounding Land Uses	North	Industrial, Single-Family Residential
	South	Institutional (Church), Single-Family Residential
	East	Institutional (Church), Single-Family Residential
	West	Industrial, Single-Family Residential
What object was device secured to?	Sign Post (Stop/Bicycle Crossing/Keep Houston Safe Signs)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	Yes (Trees Planted at Regular Intervals)	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	Yes	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stop 600' Northeast at Canal St./Hunt St. Intersection)	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	Yes (September 19, 2015 - October 6, 2015)	
Notes	Counter C recorded a significant drop in pedestrian/bicycle volumes during the second week of the deployment period. Another deployment at this location may be necessary to confirm the accuracy of the data collected.	

Trends
<ul style="list-style-type: none"> <li>Counter C recorded a significant drop in pedestrian/bicycle volumes during the second week of the deployment period. Average daily usage between Friday, March 18 and Tuesday, March 22 was 124 users/day, but it dropped to 5 users/day between Wednesday, March 23 and Tuesday, March 29. Based on a follow-up visit to the site on Tuesday, April 5, it does not appear that conditions changed during the deployment period.</li> <li>Usage tends to be higher during weekends (72 users/day) than on weekdays (46 users/day).</li> <li>On weekdays, usage is highest in the early afternoon (1:00 p.m. – 2:00 p.m.).</li> <li>During weekends, usage is highest in the evening (4:00 p.m. – 7:00 p.m.).</li> <li>Average daily usage decreased between September 2015 (when pedestrian/bicycle counts were first collected at this location) and March 2016, but that decrease could be attributable to the significant reduction in average daily usage during the second week of the deployment period.</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 17: Harrisburg Trail at Drennan Street Facing East



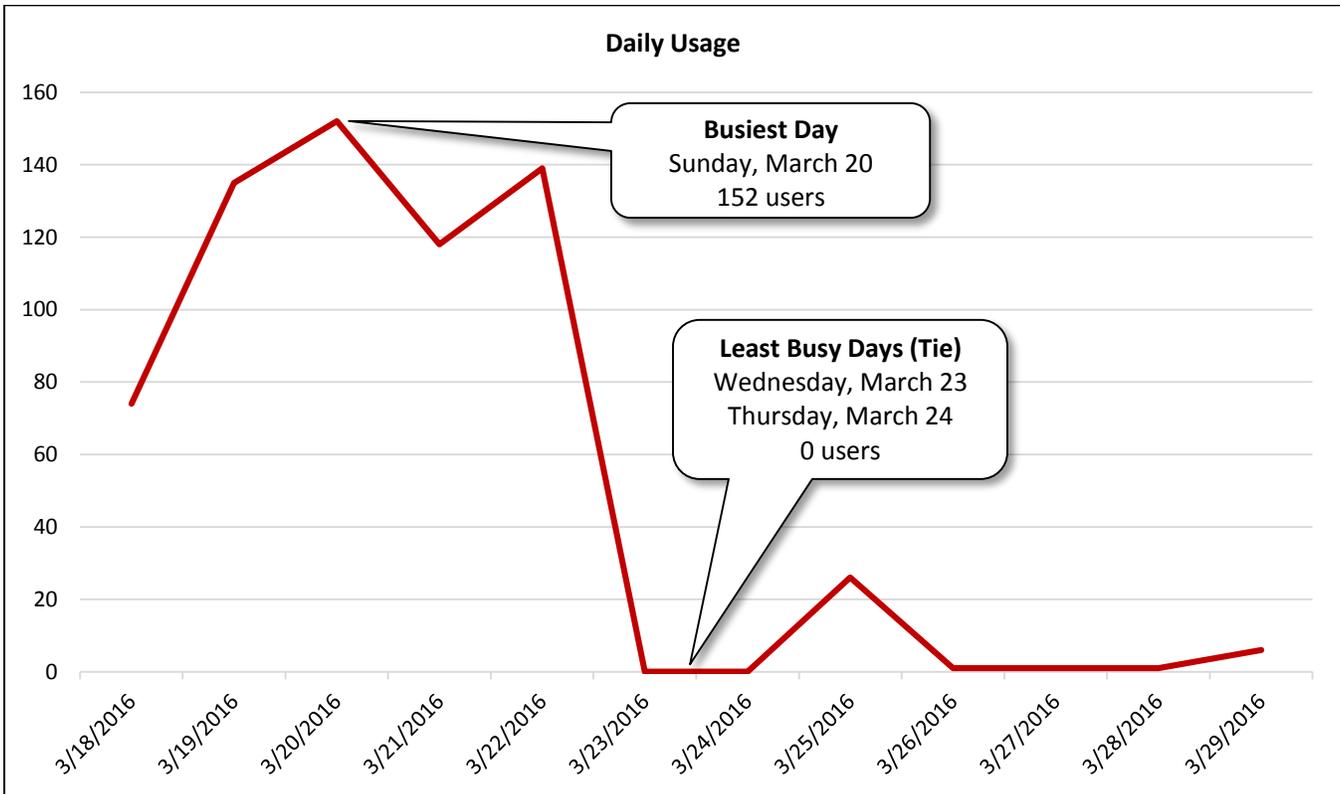
Image 18: Harrisburg Trail at Drennan Street Facing West

<b>Daily Usage</b> Harrisburg Trail at Drennan Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	74	81	63	T
Saturday, March 19, 2016	135	69	50	0
Sunday, March 20, 2016	152	61	43	0
Monday, March 21, 2016	118	63	34	0
Tuesday, March 22, 2016	139	70	42	0
Wednesday, March 23, 2016	0	76	63	0.03
Thursday, March 24, 2016	0	69	51	0.38
Friday, March 25, 2016	26	70	42	0
Saturday, March 26, 2016	1	75	46	0
Sunday, March 27, 2016	1	77	57	0
Monday, March 28, 2016	1	75	49	0
Tuesday, March 29, 2016	6	71	59	T
<b>Total</b>	653			
<b>Average Daily Usage</b>	54			
<b>Average Daily Usage (Weekday)</b>	46			
<b>Average Daily Usage (Weekend)</b>	72			

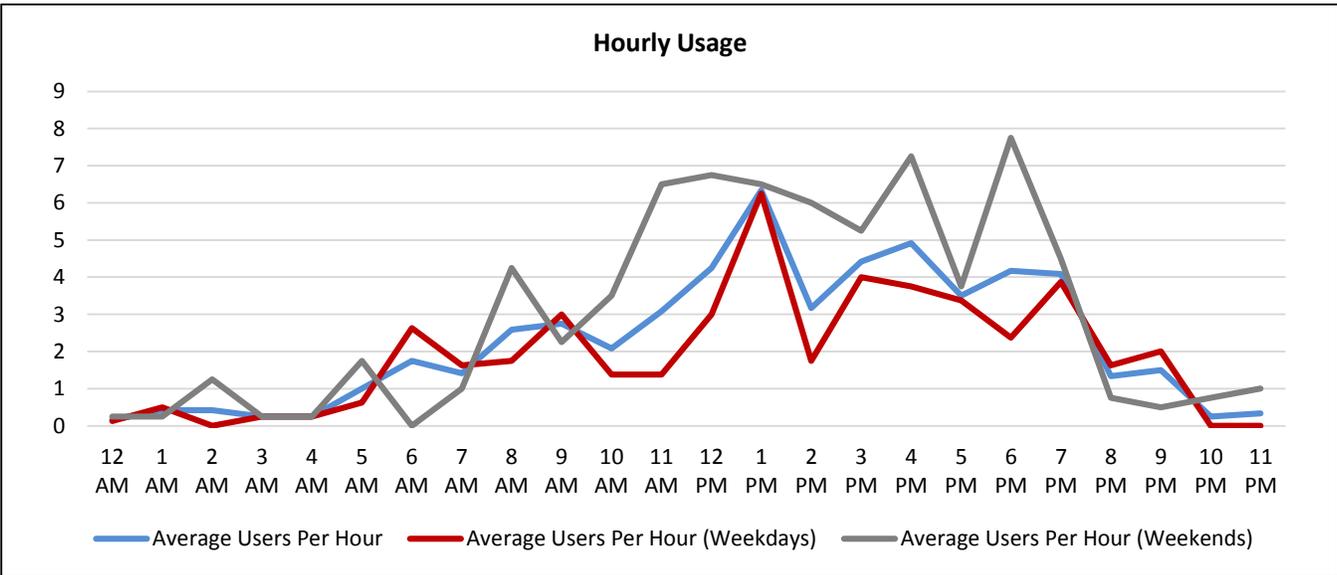
  

<b>Notes</b>	
Houston ISD Spring Break: March 14, 2016 – March 18, 2016	

\*Weather conditions recorded at KHOU.

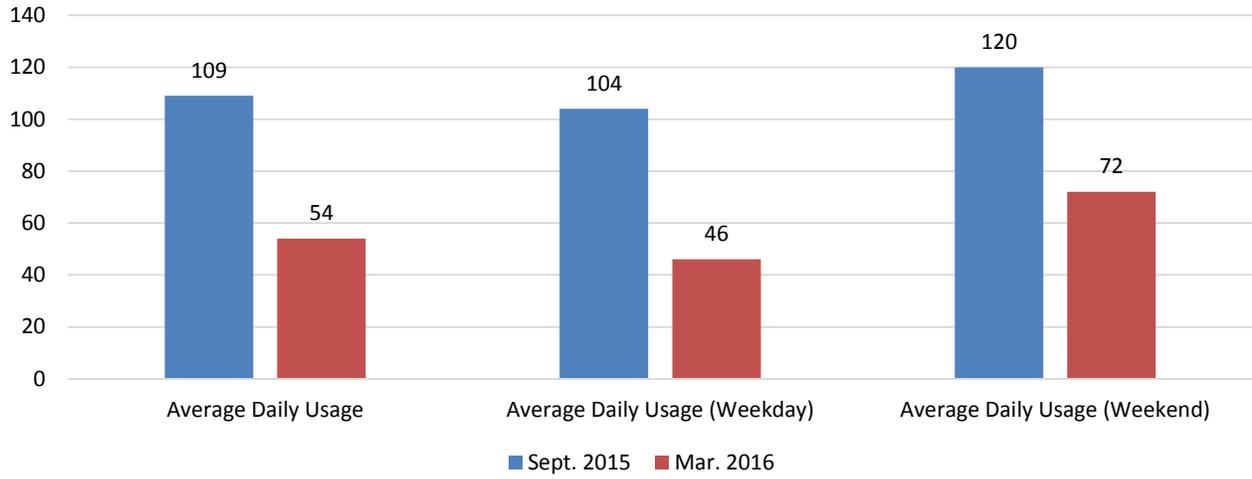


Hourly Usage Harrisburg Trail at Drennan Street			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.2	0.1	0.3
1:00 a.m.	0.4	0.5	0.3
2:00 a.m.	0.4	0.0	1.3
3:00 a.m.	0.3	0.3	0.3
4:00 a.m.	0.3	0.3	0.3
5:00 a.m.	1.0	0.6	1.8
6:00 a.m.	1.8	2.6	0.0
7:00 a.m.	1.4	1.6	1.0
8:00 a.m.	2.6	1.8	4.3
9:00 a.m.	2.8	3.0	2.3
10:00 a.m.	2.1	1.4	3.5
11:00 a.m.	3.1	1.4	6.5
12:00 p.m.	4.3	3.0	6.8
1:00 p.m.	6.3	6.3	6.5
2:00 p.m.	3.2	1.8	6.0
3:00 p.m.	4.4	4.0	5.3
4:00 p.m.	4.9	3.8	7.3
5:00 p.m.	3.5	3.4	3.8
6:00 p.m.	4.2	2.4	7.8
7:00 p.m.	4.1	3.9	4.5
8:00 p.m.	1.3	1.6	0.8
9:00 p.m.	1.5	2.0	0.5
10:00 p.m.	0.3	0.0	0.8
11:00 p.m.	0.3	0.0	1.0

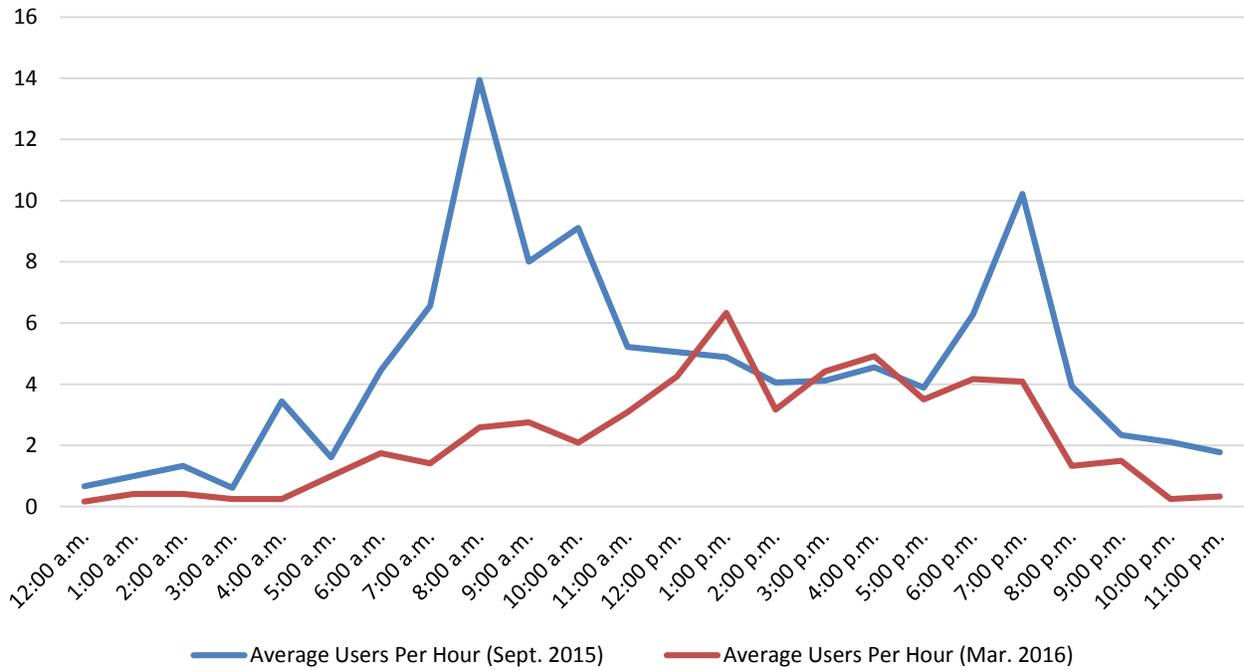


## Historical Comparison

### Comparison: Daily Usage



### Comparison: Hourly Usage



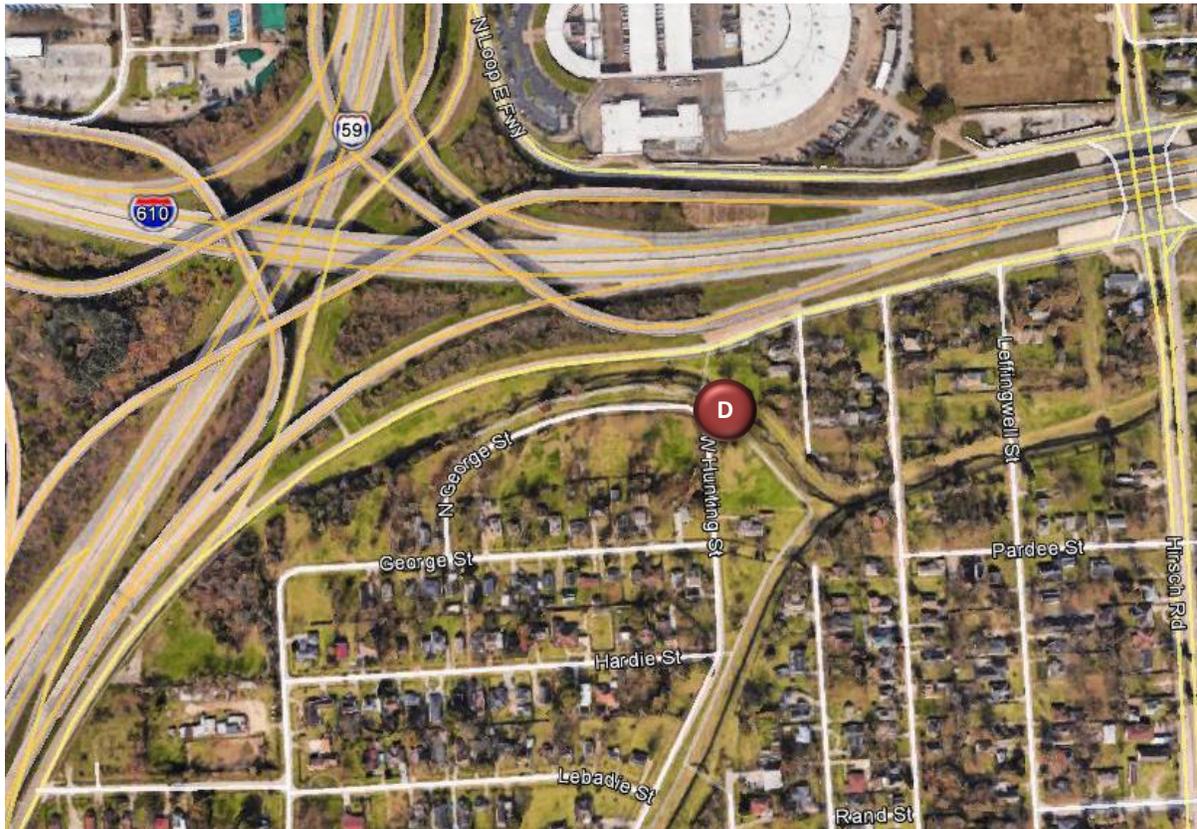
**Counter D**

Hunting Bayou Trail at N. George Street

Location Information		
Location Name	Hunting Bayou Trail at N. George Street	
Location Description	Hunting Bayou Trail (shared-use path) near N. George Street/W. Hunting Street Intersection	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°48'25.20"N, 95°19'56.71"W	
Surrounding Land Uses	North	Vacant Land, Interstate 610, METRO Kashmere Gardens Operations Facility
	South	Vacant Land, Single-Family Residential
	East	Vacant Land, Single-Family Residential
	West	Vacant Land
What object was device secured to?	Post Supporting Red/White Striped Signs at End of W. Hunting Street	
Sidewalk Width	8'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	Per H-GAC's Transportation Improvement Plan (TIP), a new segment of Hunting Bayou Trail is planned between Falls Street and Lockwood Drive. Project letting is currently scheduled for May 2016.  Daily usage at Counter D varied considerably. Another deployment at this location may be necessary to confirm the accuracy of the data collected.	

Trends
<ul style="list-style-type: none"> <li>Daily usage varied considerably. Another deployment at this location may be necessary to confirm the accuracy of the data collected.</li> <li>Usage tends to be much higher on weekdays (170 users/day) than during weekends (83 users/day).</li> <li>On weekdays, usage remains low in the morning hours, then increases dramatically in the afternoon, peaking between 3:00 p.m. and 4:00 p.m.</li> <li>During weekends, usage remains low in the morning hours, then increases dramatically in the afternoon, peaking between 3:00 p.m. and 4:00 p.m.</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 19: Hunting Bayou Trail at N. George Street  
Facing Southeast



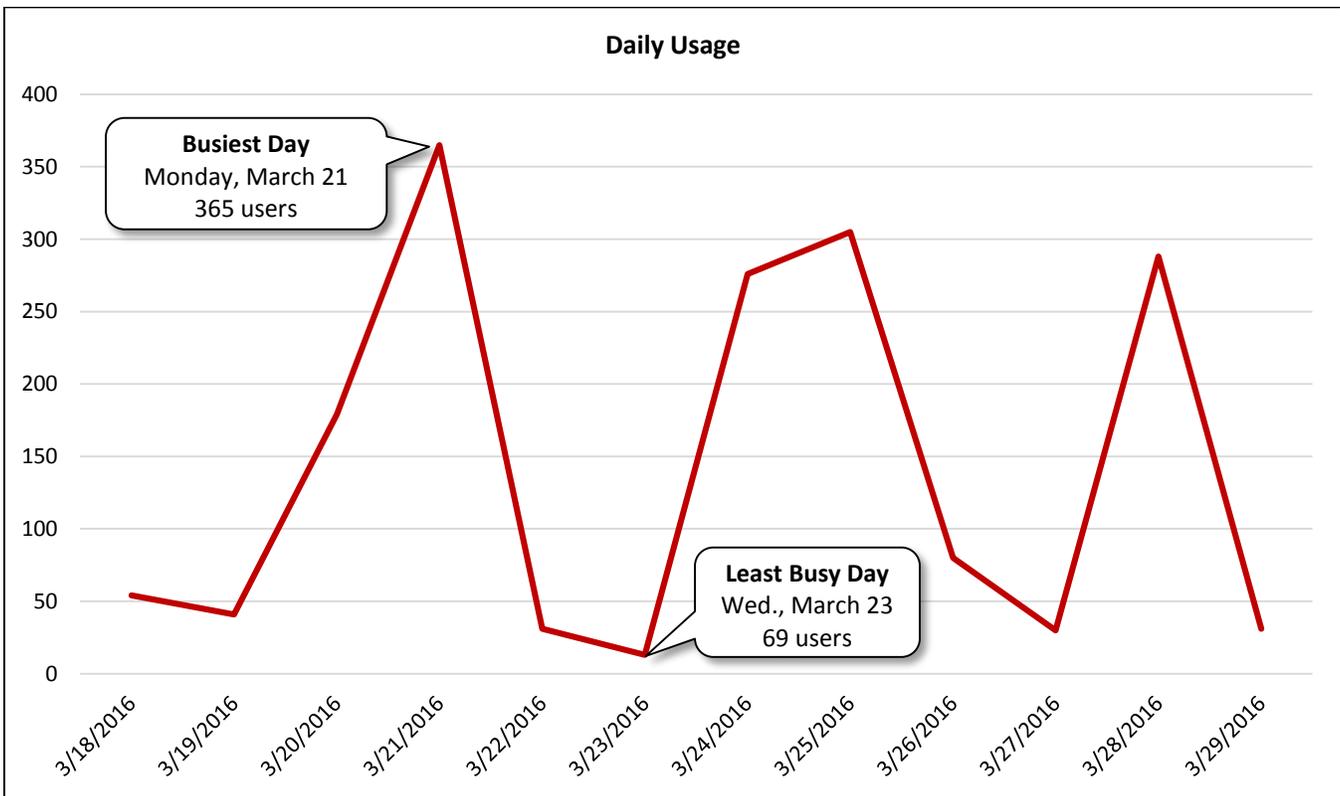
Image 20: Hunting Bayou Trail at N. George Street  
Facing West

<b>Daily Usage</b> Hunting Bayou Trail at N. George Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	54	81	63	T
Saturday, March 19, 2016	41	69	50	0
Sunday, March 20, 2016	179	61	43	0
Monday, March 21, 2016	365	63	34	0
Tuesday, March 22, 2016	31	70	42	0
Wednesday, March 23, 2016	13	76	63	0.03
Thursday, March 24, 2016	276	69	51	0.38
Friday, March 25, 2016	305	70	42	0
Saturday, March 26, 2016	80	75	46	0
Sunday, March 27, 2016	30	77	57	0
Monday, March 28, 2016	288	75	49	0
Tuesday, March 29, 2016	31	71	59	T
<b>Total</b>	1,693			
<b>Average Daily Usage</b>	141			
<b>Average Daily Usage (Weekday)</b>	170			
<b>Average Daily Usage (Weekend)</b>	83			

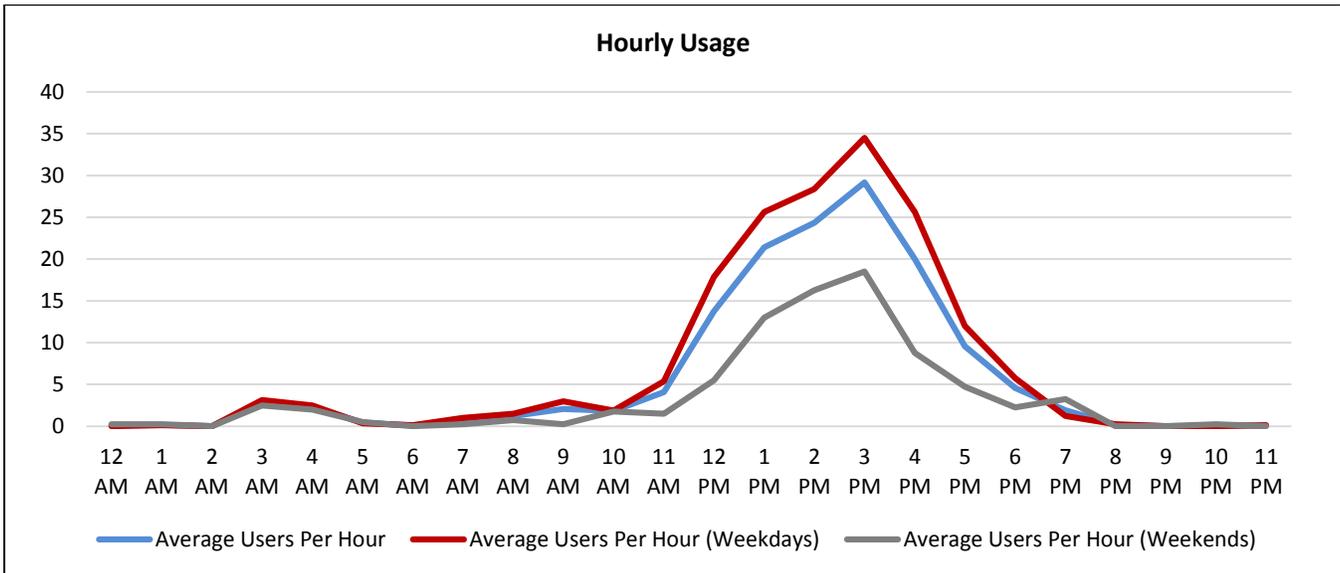
  

<b>Notes</b>	
Houston ISD Spring Break: March 14, 2016 – March 18, 2016	

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Hunting Bayou Trail at N. George Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.1	0.0	0.3
1:00 a.m.	0.2	0.1	0.3
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	2.9	3.1	2.5
4:00 a.m.	2.3	2.5	2.0
5:00 a.m.	0.4	0.4	0.5
6:00 a.m.	0.1	0.1	0.0
7:00 a.m.	0.8	1.0	0.3
8:00 a.m.	1.3	1.5	0.8
9:00 a.m.	2.1	3.0	0.3
10:00 a.m.	1.8	1.9	1.8
11:00 a.m.	4.1	5.4	1.5
12:00 p.m.	13.8	17.9	5.5
1:00 p.m.	21.4	25.6	13.0
2:00 p.m.	24.3	28.4	16.3
3:00 p.m.	29.2	34.5	18.5
4:00 p.m.	20.0	25.6	8.8
5:00 p.m.	9.6	12.0	4.8
6:00 p.m.	4.6	5.8	2.3
7:00 p.m.	1.9	1.3	3.3
8:00 p.m.	0.2	0.3	0.0
9:00 p.m.	0.0	0.0	0.0
10:00 p.m.	0.1	0.0	0.3
11:00 p.m.	0.1	0.1	0.0



### Why is Usage High during Afternoon Hours?

At Counter D, daily usage was quite variable. Pedestrian/bicycle volumes tended to increase dramatically during the afternoon hours. Below are possible explanations as to why counts may be high at certain times. Another deployment at this location may be necessary to confirm the data collected and validate these possibilities.

#### Mowing

Vacant lots surround Counter D. Crews mowing in the area could have been counted as pedestrians/cyclists.

#### Pedestrians/Cyclists Traveling to/from Destinations North of Interstate 610

Near Counter D, there is a pedestrian bridge across Hunting Bayou. This pedestrian bridge provides the most direct access between surrounding neighborhoods and destinations along and north of Interstate 610. There is a worn path from the bridge to a sidewalk along the Interstate 610 eastbound frontage road, and it curves to the east. Pedestrians and cyclists traveling from destinations north of I-610 (METRO Kashmere Operations Facility, McDade Elementary School, Francis Scott Key Middle School, Barbara Jordan High School, etc.) may cross the freeway at Hirsch Road, walk along the frontage road, and then use the pedestrian bridge to access surrounding neighborhoods.



#### Illegal Dumping/Burning

There was evidence of illegal dumping and burning near the counter. People dumping and burning garbage may have generated activity in the area and been counted as pedestrians/cyclists.

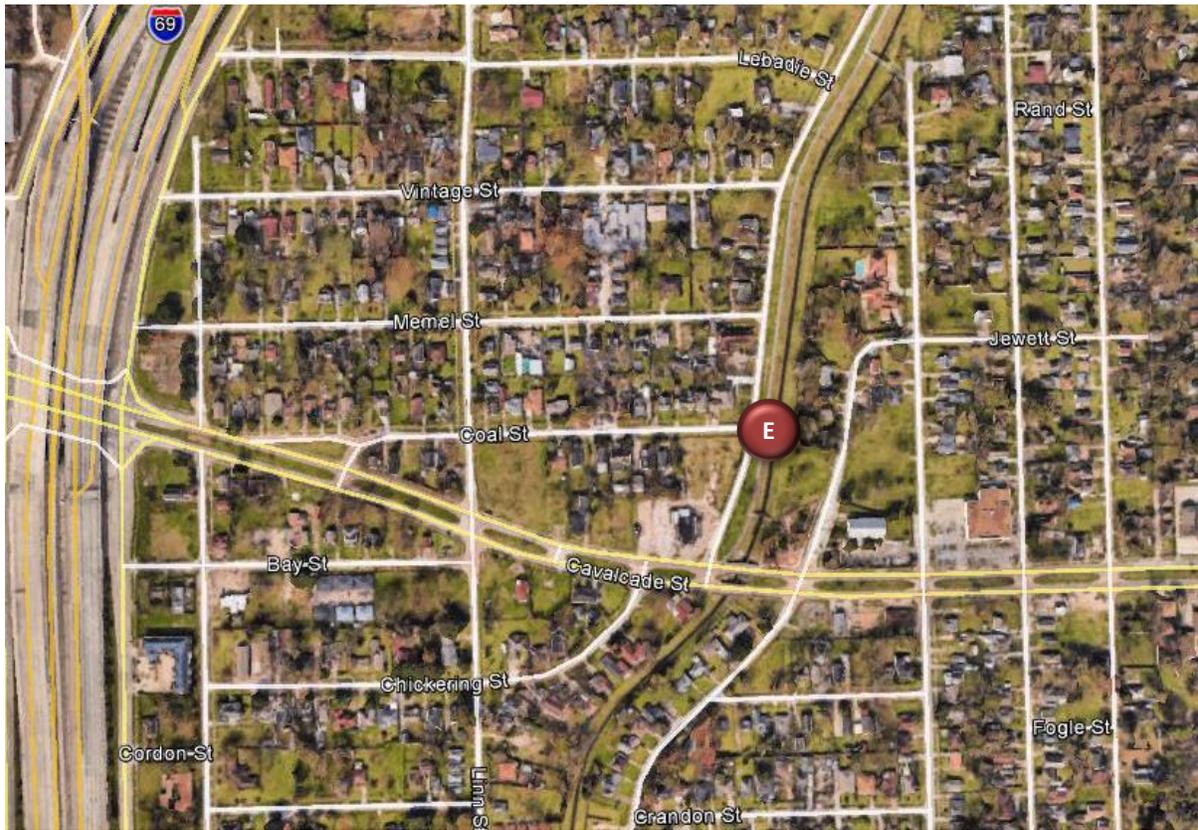
**Counter E**

Hunting Bayou Trail at Coal Street

Location Information		
Location Name	Hunting Bayou Trail at Coal Street	
Location Description	Hunting Bayou Trail (shared-use path) near Coal Street/W. Hunting Street Intersection	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°48'4.76"N, 95°20'1.45"W	
Surrounding Land Uses	North	Single-Family Residential
	South	Vacant Land, Commercial/Retail, Park, Single-Family Residential
	East	Single-Family Residential, Vacant Land
	West	Single-Family Residential, Vacant Land
What object was device secured to?	Utility Pole (Opposite Coal Street)	
Sidewalk Width	8'	
Buffer Width	20' from W. Hunting Street (varies)	
Street Width	Two-Lane Undivided Roadway	
Parallel Parking	No	
Landscaping or Trees	No	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	30 miles per hour	
Street Lighting	No	
Street Traffic Volume	N/A	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be similar on weekdays (61 users/day) and during weekends (61 users/day).</li> <li>• On weekdays, usage varies throughout the day. It is highest in the early afternoon (1:00 p.m. – 2:00 p.m.) and late afternoon (4:00 p.m. – 5:00 p.m.).</li> <li>• During weekends, usage remains relatively steady during daylight hours, peaking in the mid-afternoon (2:00 p.m. – 3:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 21: Hunting Bayou Trail at Coal Street  
Facing North



Image 22: Hunting Bayou Trail at Coal Street  
Facing South

<b>Daily Usage</b> Hunting Bayou Trail at Coal Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, March 18, 2016	63	81	63	T
Saturday, March 19, 2016	42	69	50	0
Sunday, March 20, 2016	52	61	43	0
Monday, March 21, 2016	68	63	34	0
Tuesday, March 22, 2016	37	70	42	0
Wednesday, March 23, 2016	35	76	63	0.03
Thursday, March 24, 2016	50	69	51	0.38
Friday, March 25, 2016	84	70	42	0
Saturday, March 26, 2016	91	75	46	0
Sunday, March 27, 2016	59	77	57	0
Monday, March 28, 2016	71	75	49	0
Tuesday, March 29, 2016	81	71	59	T

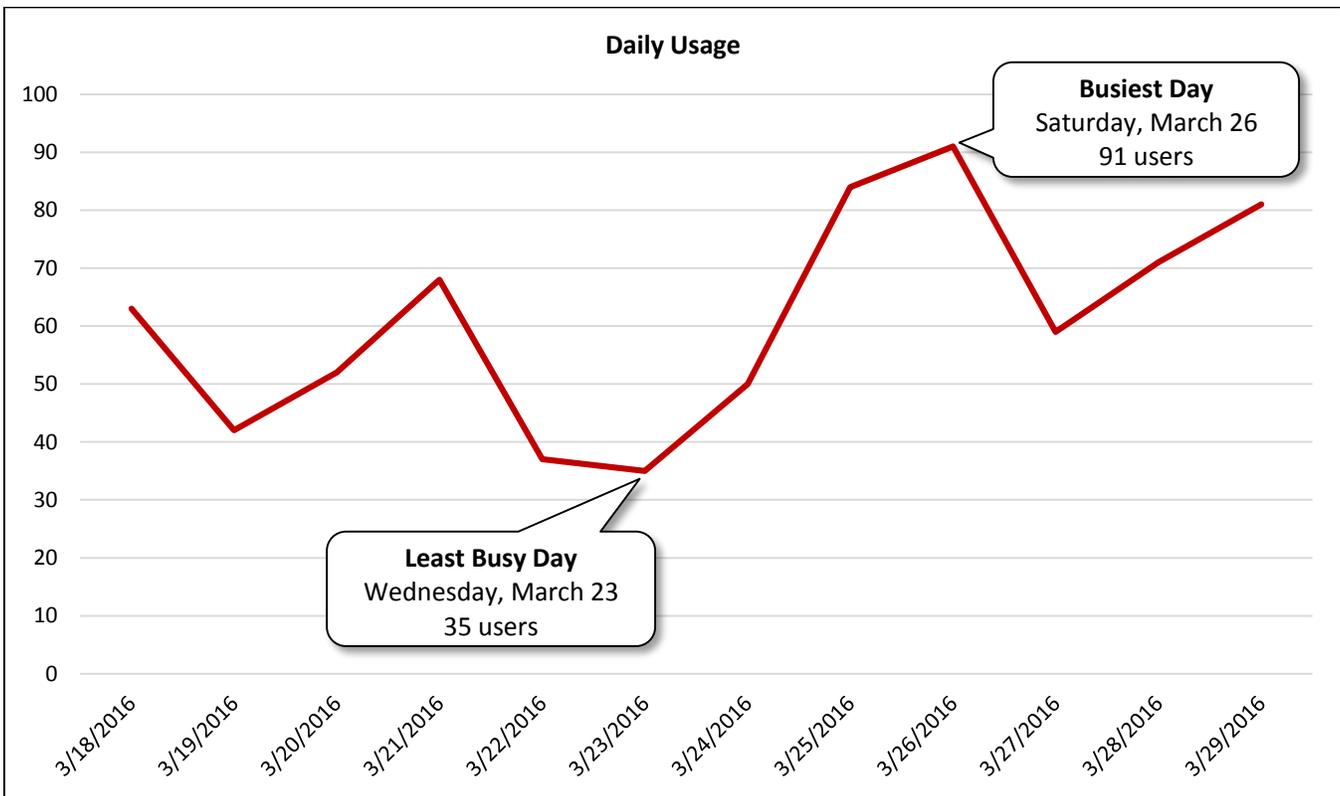
  

<b>Total</b>	733
<b>Average Daily Usage</b>	61
<b>Average Daily Usage (Weekday)</b>	61
<b>Average Daily Usage (Weekend)</b>	61

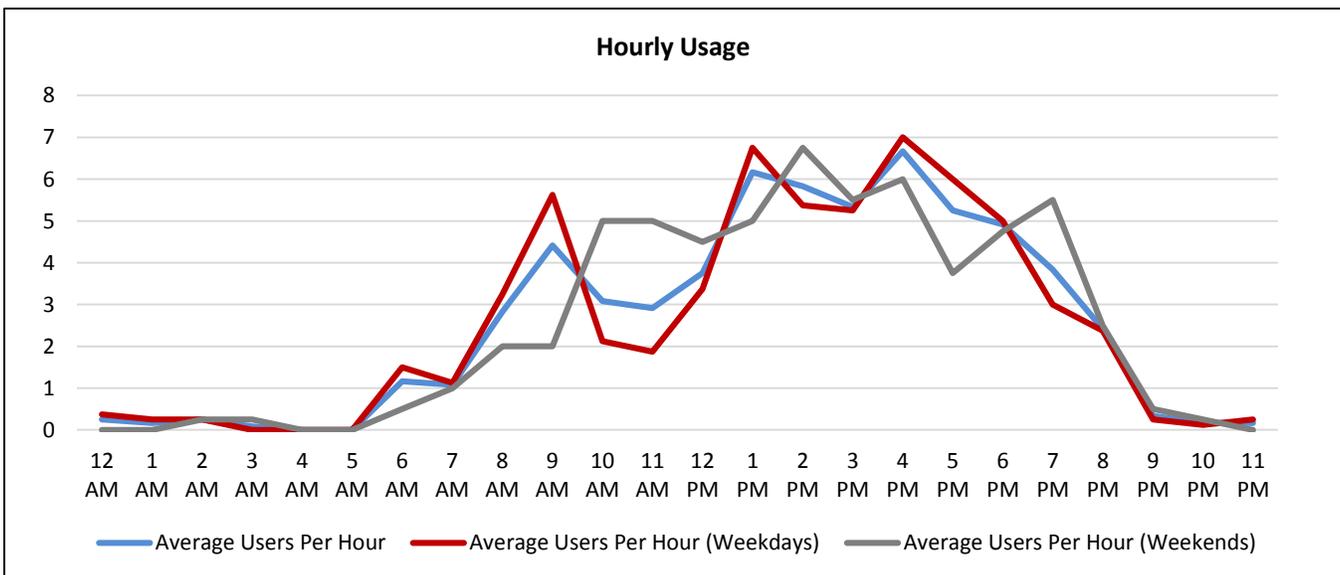
  

Notes
Houston ISD Spring Break: March 14, 2016 – March 18, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> Hunting Bayou Trail at Coal Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.3	0.4	0.0
1:00 a.m.	0.2	0.3	0.0
2:00 a.m.	0.3	0.3	0.3
3:00 a.m.	0.1	0.0	0.3
4:00 a.m.	0.0	0.0	0.0
5:00 a.m.	0.0	0.0	0.0
6:00 a.m.	1.2	1.5	0.5
7:00 a.m.	1.1	1.1	1.0
8:00 a.m.	2.8	3.3	2.0
9:00 a.m.	4.4	5.6	2.0
10:00 a.m.	3.1	2.1	5.0
11:00 a.m.	2.9	1.9	5.0
12:00 p.m.	3.8	3.4	4.5
1:00 p.m.	6.2	6.8	5.0
2:00 p.m.	5.8	5.4	6.8
3:00 p.m.	5.3	5.3	5.5
4:00 p.m.	6.7	7.0	6.0
5:00 p.m.	5.3	6.0	3.8
6:00 p.m.	4.9	5.0	4.8
7:00 p.m.	3.8	3.0	5.5
8:00 p.m.	2.4	2.4	2.5
9:00 p.m.	0.3	0.3	0.5
10:00 p.m.	0.2	0.1	0.3
11:00 p.m.	0.2	0.3	0.0



## Participants

City of Houston: Parks and Recreation Department

[www.houstontx.gov/parks/](http://www.houstontx.gov/parks/)

Houston-Galveston Area Council: Pedestrian-Bicyclist Planning

[www.h-gac.com/go/pedbike](http://www.h-gac.com/go/pedbike)

Texas Transportation Institute

<http://tti.tamu.edu/>