

HOUSTON-GALVESTON AREA COUNCIL



Temporary Pedestrian/Bicycle Counters
Data Summary

Deployment Summary	
Sponsoring Agency	Buffalo Bayou Partnership
Deployment Period	Friday, February 19, 2016 – Tuesday, March 1, 2016
Number of Counters Deployed	13
Facility Description	Shared-Use Paths and Pedestrians Pathways along Buffalo Bayou near Downtown Houston
Locations Deployed (Houston-Galveston Area Council)	
Counter #1	Buffalo Bayou North Bank: St. Thomas High School (Pedestrian Path)
Counter #2	Buffalo Bayou North Bank: St. Thomas High School
Counter #3	Buffalo Bayou South Bank: Lost Lake
Counter #4	Buffalo Bayou South Bank: Johnny Steele Dog Park (Pedestrian Path)
Counter #5	Buffalo Bayou South Bank: Johnny Steele Dog Park (Main Shared-Use Path)
Counter #6	Buffalo Bayou South Bank: Johnny Steele Dog Park (Roadside Shared-Use Path)
Counter #7	Buffalo Bayou North Bank: Nature Play Area (Sabine Street Access)
Locations Deployed (Texas Transportation Institute)	
Counter A	Buffalo Bayou North Bank: Green Tree Nature Area
Counter B	Buffalo Bayou North Bank: Police Memorial
Counter C	Buffalo Bayou North Bank: Nature Play Area (Main Shared-Use Path)
Counter D	Buffalo Bayou North Bank: Nature Play Area (Pedestrian Path)
Counter E	Buffalo Bayou South Bank: Eleanor Tinsley Park
Counter F	Buffalo Bayou South Bank: Sesquicentennial Park

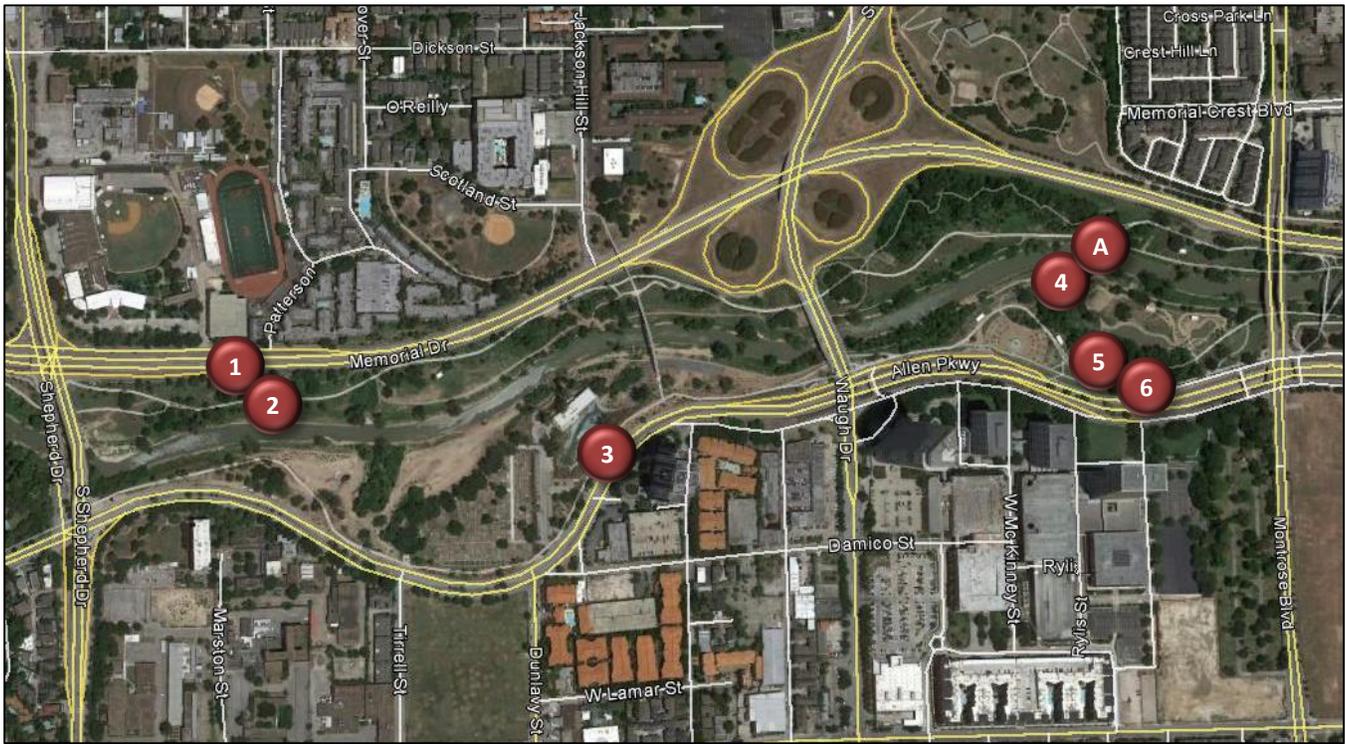
About the Temporary Pedestrian/Bicycle Counters

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

Shared-Use Paths and Pedestrian Pathways along Buffalo Bayou near Downtown Houston
(Shepherd Drive to Montrose Boulevard/Studemont Street)

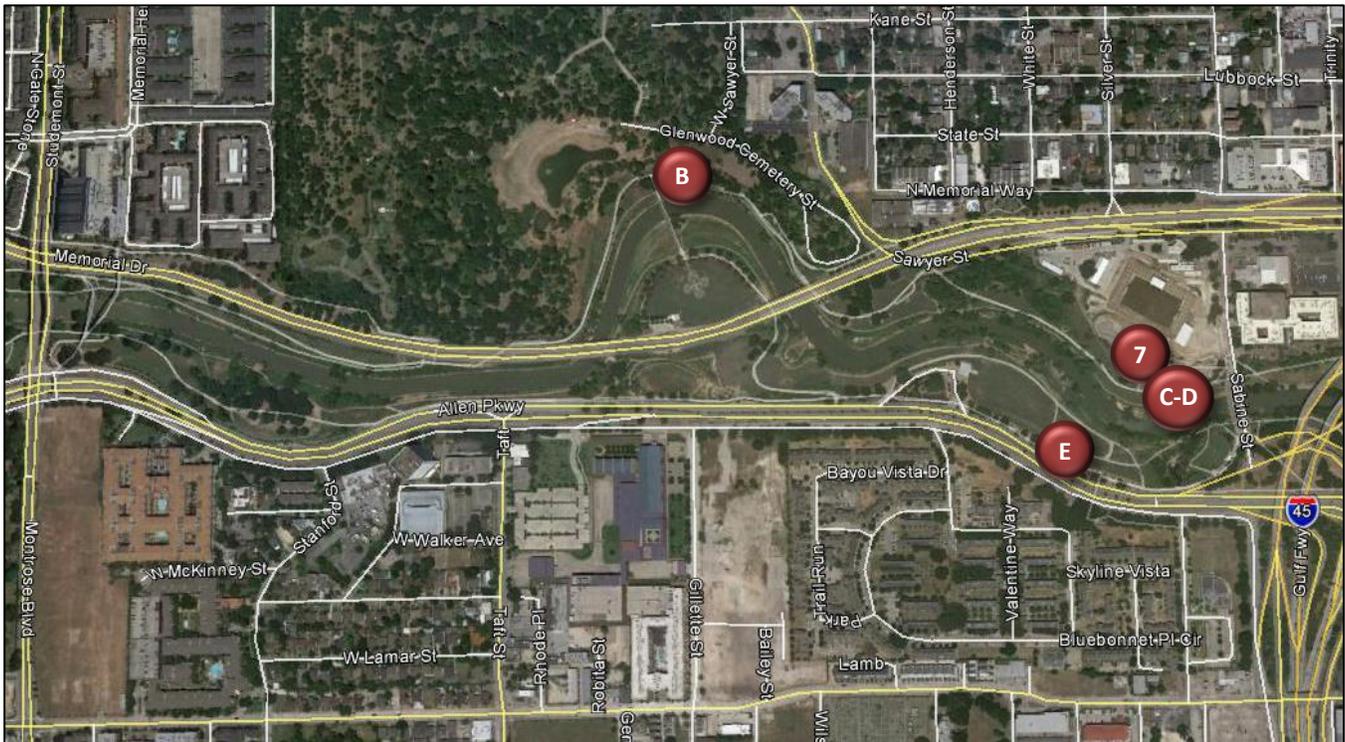


Counter	Location	Average Daily Usage	Total Users
1	Buffalo Bayou North Bank: St. Thomas High School (Pedestrian Path)	145	1,736
2	Buffalo Bayou North Bank: St. Thomas High School	768	9,211
3	Buffalo Bayou South Bank: Lost Lake	953	11,441
4	Buffalo Bayou South Bank: Johnny Steele Dog Park (Pedestrian Path)	876	10,511
5	Buffalo Bayou South Bank: Johnny Steele Dog Park (Main Shared-Use Path)	868	10,410
6	Buffalo Bayou South Bank: Johnny Steele Dog Park (Roadside Shared-Use Path)	566	6,793
A*	Buffalo Bayou North Bank: Green Tree Nature Area	1,403	13,678

*Counter A reached maximum storage capacity and stopped collecting data on Sunday, February 28, 2016 at approximately 6:00 p.m.

Counter Locations

Shared-Use Paths and Pedestrian Pathways along Buffalo Bayou near Downtown Houston
(Montrose Boulevard/Studemont Street to Interstate 45)



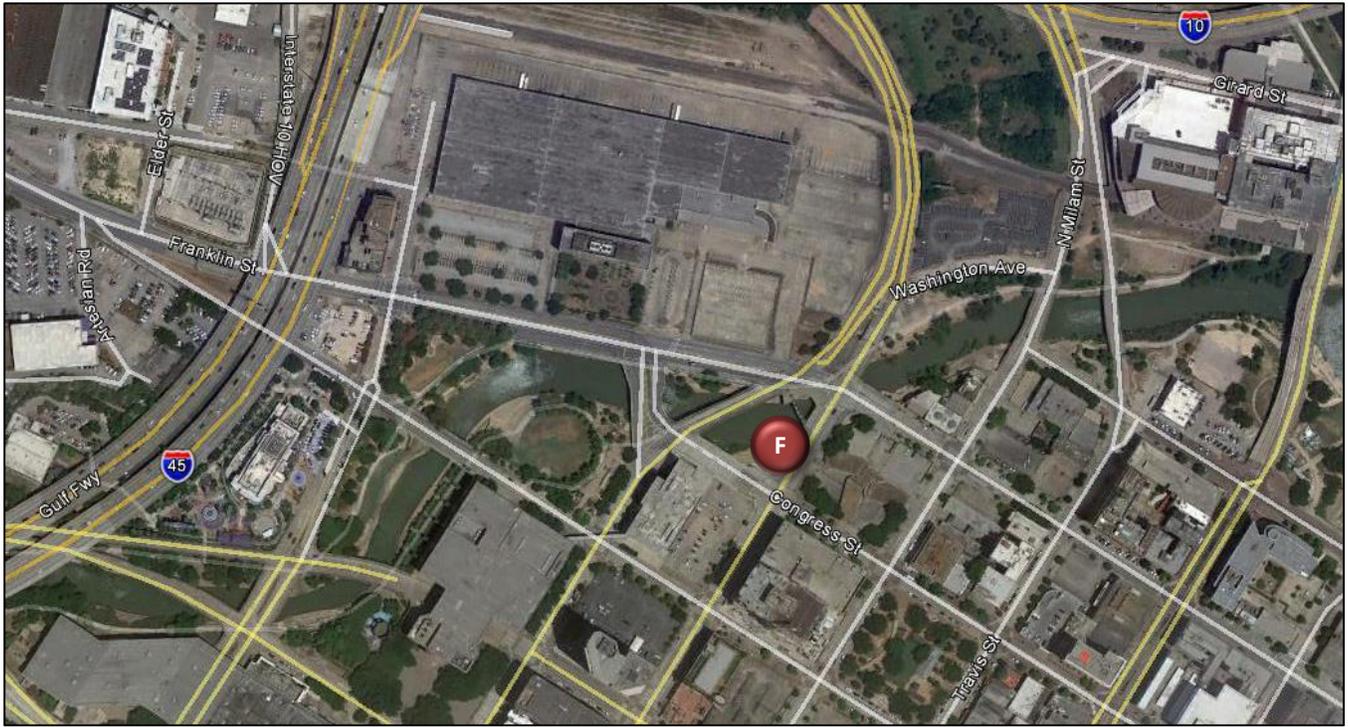
Counter	Location	Average Daily Usage	Total Users
B*	Buffalo Bayou North Bank: Police Memorial	1,581	13,599
C	Buffalo Bayou North Bank: Nature Play Area (Main Shared-Use Path)	481	5,767
D	Buffalo Bayou North Bank: Nature Play Area (Pedestrian Path)	386	4,633
7	Buffalo Bayou North Bank: Nature Play Area (Sabine Street Access)	660	7,924
E**	Buffalo Bayou South Bank: Eleanor Tinsley Park	1,569	13,807

*Counter B reached maximum storage capacity and stopped collecting data on Saturday, February 27, 2016 at approximately 2:15 p.m.

**Counter E reached maximum storage capacity and stopped collecting data on Saturday, February 27, 2016 at approximately 7:15 p.m.

Counter Locations

Shared-Use Paths and Pedestrian Pathways along Buffalo Bayou near Downtown Houston
(Interstate 45 to Main Street)



Counter	Location	Average Daily Usage	Total Users
F*	Buffalo Bayou South Bank: Sesquicentennial Park	N/A	N/A

*Counter F was vandalized and stolen during the deployment period, so no data was retrieved.

Overall Trends and Notes

- *Higher Weekend Usage*
At all locations, average daily usage was higher during weekends than on weekdays.
- *Evenings Busiest on Weekdays*
On weekdays, usage peaked in the evening at all locations. Peak usage during weekends was more variable.
- *Rain Impacts Usage*
Rain seems to impact usage. At all locations, days with significant rainfall (Monday, February 22 and Tuesday, February 23) had the least usage.
- *Increased Usage Since October 2014*
At some locations, this is the second time temporary pedestrian/bicycle counters were deployed. In October 2014, the counters were successfully deployed at Buffalo Bayou North Bank: St. Thomas High School (Counter #2) and Buffalo Bayou South Bank: Eleanor Tinsley Park (Counter E) (A counter was also deployed at Buffalo Bayou North Bank: Police Memorial in October 2014, but it malfunctioned and did not collect data). Average daily usage was higher in February 2016 than it was in October 2014.
 - Average daily usage at Counter #2 (Buffalo Bayou North Bank: St. Thomas High School) was 29.5% higher than what was recorded in October 2014 (768 users/day in February 2016 vs. 593 users/day in October 2014).
 - Average daily usage at Counter E (Buffalo Bayou South Bank: Eleanor Tinsley Park) was 118.8% higher than what was recorded in October 2014 (1,569 users/day in February 2016 vs. 717 users/day in October 2014). Note that major events were held near this location during both deployment periods.
- *Events along Allen Parkway*
Events along Allen Parkway may have impacted usage. For example, Allen Parkway was closed for events (ConocoPhillips Rodeo Run and Rodeo Parade) on Saturday, February 27; usage at Counter E (Buffalo Bayou South Bank: Eleanor Tinsley Park), which was placed immediately adjacent to Allen Parkway, was particularly high that day.
- *Counter Vandalized/Stolen*
Counter F (Buffalo Bayou South Bank: Sesquicentennial Park) was vandalized and stolen during the deployment period, so no data was retrieved.
- *Maximum Capacity Reached*
Three counters reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data prior to the end of the deployment period.
 - Counter A (Buffalo Bayou North Bank: Green Tree Nature Area) reached maximum storage capacity and stopped collecting data on Sunday, February 28, 2016 at approximately 6:00 p.m.
 - Counter B (Buffalo Bayou North Bank: Police Memorial) reached maximum storage capacity and stopped collecting data on Saturday, February 27, 2016 at approximately 2:15 p.m.
 - Counter E (Buffalo Bayou South Bank: Eleanor Tinsley Park) reached maximum storage capacity and stopped collecting data on Saturday, February 27, 2016 at approximately 7:15 p.m.
- *Allen Parkway Reconstruction*
During the deployment period, Allen Parkway was under construction and in the process of being reconfigured.

Comparing Usage along Shared-Use Paths to Parallel Pedestrian Pathways

A shared-use path runs along each bank of Buffalo Bayou between Shepherd Drive and Interstate 45. At some locations, pathways exclusively for pedestrians parallel the main shared-use paths. To compare usage of these different facilities, temporary pedestrian/bicycle counters were placed on shared-use paths and pedestrian pathways near each other to create a *screen line*.

Buffalo Bayou North Bank: St. Thomas High School					
<i>Counter</i>	<i>Location</i>	<i>Total Usage</i>	<i>Avg. Daily Usage</i>	<i>Avg. Daily Usage (Weekdays)</i>	<i>Avg. Daily Usage (Weekends)</i>
1	Pedestrian Pathway	1,736	145	91	252
2	Main Shared-Use Path	9,211	768	561	1,181

During the deployment period, 10,947 pedestrians and cyclists used either the pedestrians-only pathway next to Memorial Drive or the main shared-use path near St. Thomas High School, on the north bank of Buffalo Bayou east of Shepherd Drive. 84.1% of pedestrians and cyclists used the main shared-use path, and only 15.9% used the pedestrians-only pathway.

Buffalo Bayou South Bank: Johnny Steele Dog Park					
<i>Counter</i>	<i>Location</i>	<i>Total Usage</i>	<i>Avg. Daily Usage</i>	<i>Avg. Daily Usage (Weekdays)</i>	<i>Avg. Daily Usage (Weekends)</i>
4	Pedestrian Pathway	10,511	876	611	1,405
5	Main Shared-Use Path	10,410	868	603	1,397
6	Roadside Shared-Use Path	6,793	566	294	1,111

During the deployment period, 27,714 pedestrians and cyclists passed Johnny Steele Dog Park on either the pedestrians-only pathway adjacent to Buffalo Bayou, the main shared-use path, or the shared-use path adjacent to Allen Parkway. About 37.9% of pedestrian/bicycle traffic used the pedestrians-only pathway, while 37.6% used the main shared-use path. Only 24.5% of pedestrians and cyclists passing through the area used the shared-use path adjacent to Allen Parkway.

Counter A (Buffalo Bayou North Bank: Green Tree Natural Area) was located on the opposite side of Buffalo Bayou, across from the Johnny Steele Dog Park. Counter A reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data prior to the end of the deployment period (Sunday, February 28, 2016 at approximately 6:00 p.m.).

Buffalo Bayou North Bank: Nature Play Area					
<i>Counter</i>	<i>Location</i>	<i>Total Usage</i>	<i>Avg. Daily Usage</i>	<i>Avg. Daily Usage (Weekdays)</i>	<i>Avg. Daily Usage (Weekends)</i>
C	Main Shared-Use Path	5,767	481	327	789
D	Pedestrian Pathway	4,633	386	323	513
7	Sabine Street Access	7,924	660	396	1,189

During the deployment period, 18,324 pedestrians and cyclists passed the Nature Play Area using one of three facilities: the main shared-use path, the pedestrians-only pathway adjacent to Buffalo Bayou, or the shared-use path that passes between the Lee and Joe Jamail Skatepark and the Nature Play Area. 31.5% of pedestrian/bicycle traffic through the

area was along the main shared-use path, while 25.3% was along the pedestrians-only pathway. 43.2% of pedestrian/bicycle traffic in the area was along the shared-use path that provides access to Sabine Street.

Counter E (Buffalo Bayou South Bank: Eleanor Tinsley Park) was located on the opposite side of Buffalo Bayou, across from the Nature Play Area. Counter E reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data prior to the end of the deployment period (Saturday, February 27, 2016 at approximately 7:15 p.m.).

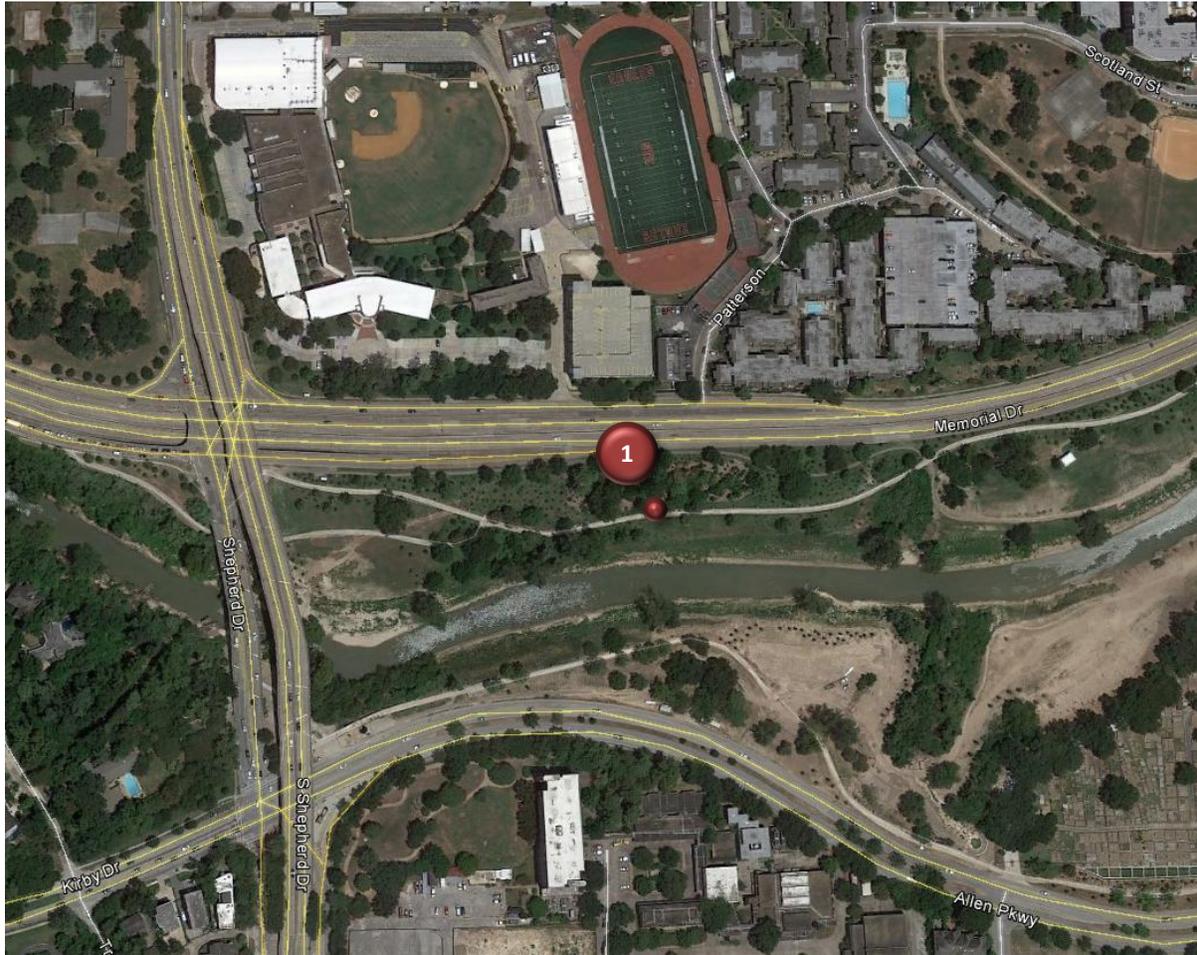
Counter #1

Buffalo Bayou North Bank: St. Thomas High School (Pedestrian Path)

Location Information		
Location Name	Buffalo Bayou North Bank: St. Thomas High School (Pedestrian Path)	
Location Description	Pedestrians-Only Pathway Adjacent to Memorial Drive near St. Thomas High School	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'41.42"N, 95°24'22.46"W	
Surrounding Land Uses	North	Institutional (St. Thomas High School), Commercial/Retail, Multi-Family Residential
	South	Park, Institutional (The Center)
	East	Park, Multi-Family Residential
	West	Institutional (St. Thomas High School), Park
What object was device secured to?	Light Post (Aligned with End of Acceleration Lane from Shepherd Drive to Memorial Drive)	
Sidewalk Width	5'	
Buffer Width	3'	
Street Width	Four-Lane Divided Roadway with Entrance/Exit Ramp on Each Side	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	50 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	37,922 (4400 Memorial Drive: City of Houston 2011)	
Transit	Nearby (METRO Bus Stop 650' West at Shepherd Drive/Memorial Drive Intersection)	
Shade	Intermittent	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the morning (9:00 a.m. – 11:00 a.m.). Usage was particularly high on Saturday mornings. • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13” of rain) had the least usage (45 users).

Location Information: Map



Location Information: Photos



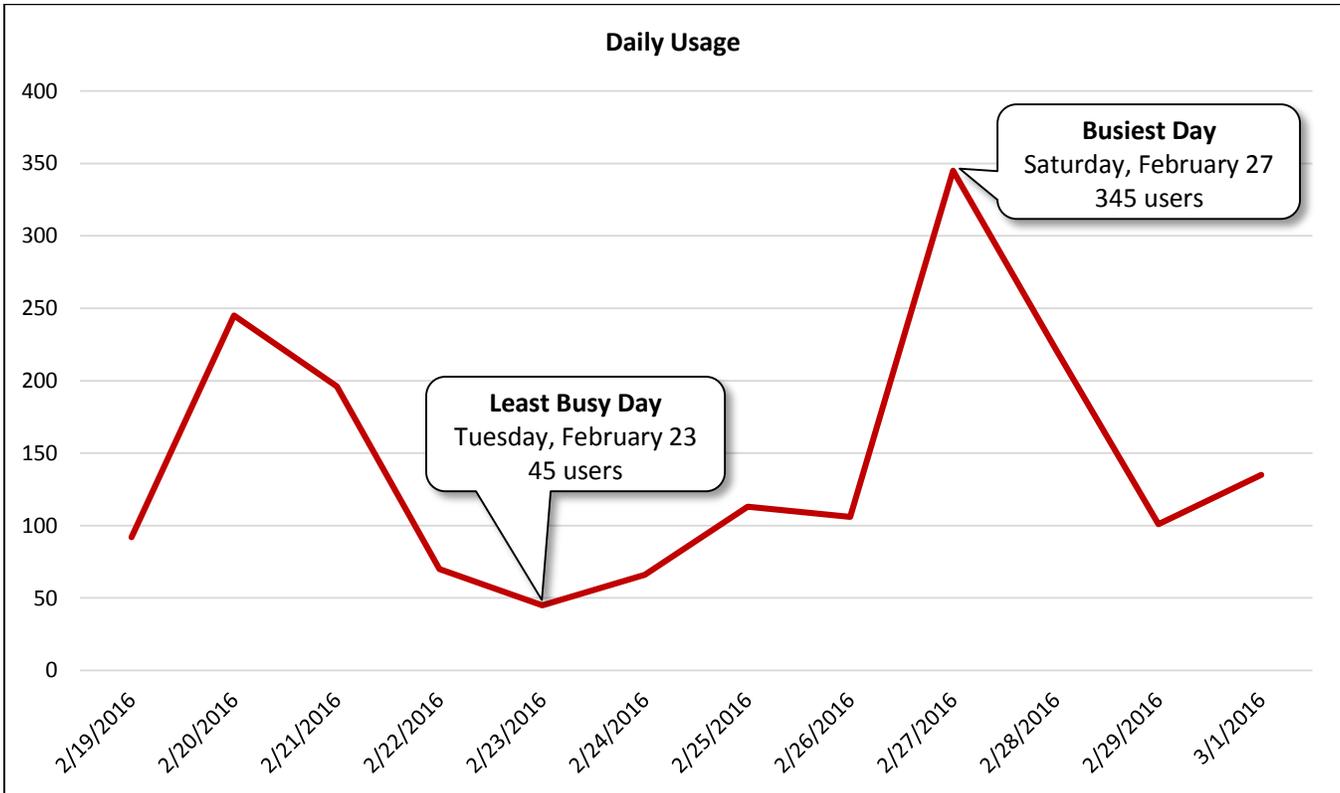
Image 1: Pedestrian Pathway Adjacent to Memorial Drive Facing East



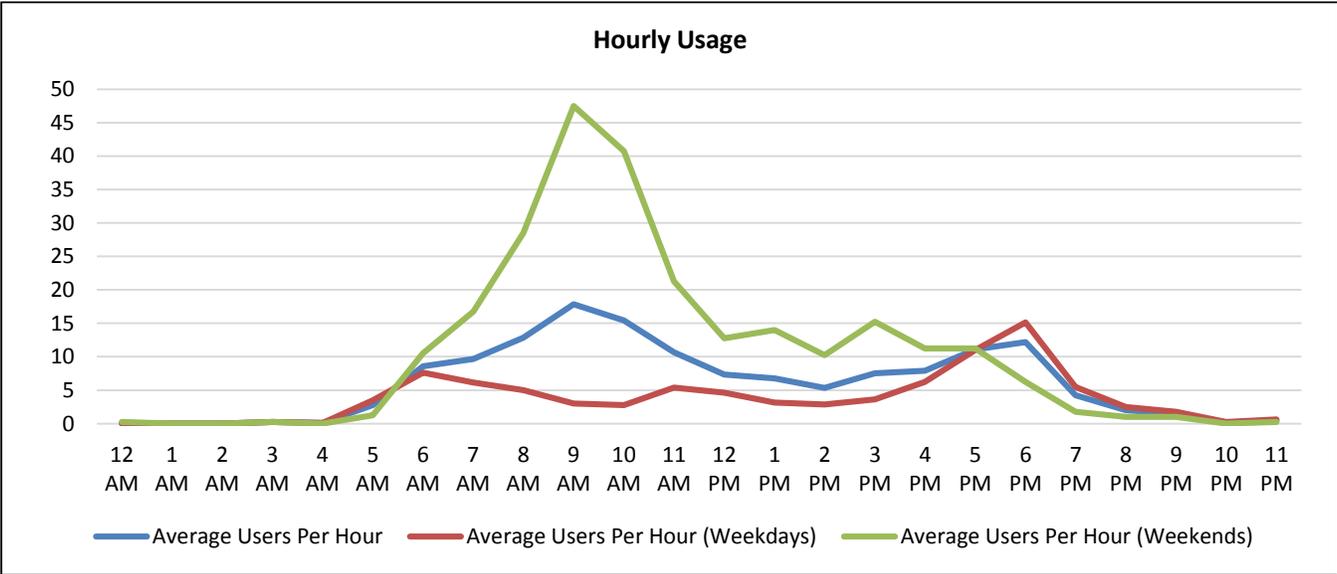
Image 2: Pedestrian Pathway Adjacent to Memorial Drive Facing West

Daily Usage				
Buffalo Bayou North Bank: St. Thomas High School (Pedestrian Path)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	92	81	63	0
Saturday, February 20, 2016	245	79	63	0
Sunday, February 21, 2016	196	74	63	0
Monday, February 22, 2016	70	68	57	0.67
Tuesday, February 23, 2016	45	73	48	1.13
Wednesday, February 24, 2016	66	63	41	T
Thursday, February 25, 2016	113	72	40	0
Friday, February 26, 2016	106	63	39	0
Saturday, February 27, 2016	345	71	40	0
Sunday, February 28, 2016	222	74	44	0
Monday, February 29, 2016	101	78	55	0
Tuesday, March 1, 2016	135	78	62	0
Total	1,736			
Average Daily Usage	145			
Average Daily Usage (Weekday)	91			
Average Daily Usage (Weekend)	252			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou North Bank: St. Thomas High School (Pedestrian Path)			
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.	0.3	0.3	0.3
4:00 a.m.	0.1	0.1	0.0
5:00 a.m.	2.8	3.5	1.3
6:00 a.m.	8.6	7.6	10.5
7:00 a.m.	9.7	6.1	16.8
8:00 a.m.	12.8	5.0	28.5
9:00 a.m.	17.8	3.0	47.5
10:00 a.m.	15.4	2.8	40.8
11:00 a.m.	10.7	5.4	21.3
12:00 p.m.	7.3	4.6	12.8
1:00 p.m.	6.8	3.1	14.0
2:00 p.m.	5.3	2.9	10.3
3:00 p.m.	7.5	3.6	15.3
4:00 p.m.	7.9	6.3	11.3
5:00 p.m.	11.1	11.0	11.3
6:00 p.m.	12.2	15.1	6.3
7:00 p.m.	4.3	5.5	1.8
8:00 p.m.	2.0	2.5	1.0
9:00 p.m.	1.5	1.8	1.0
10:00 p.m.	0.2	0.3	0.0
11:00 p.m.	0.5	0.6	0.3



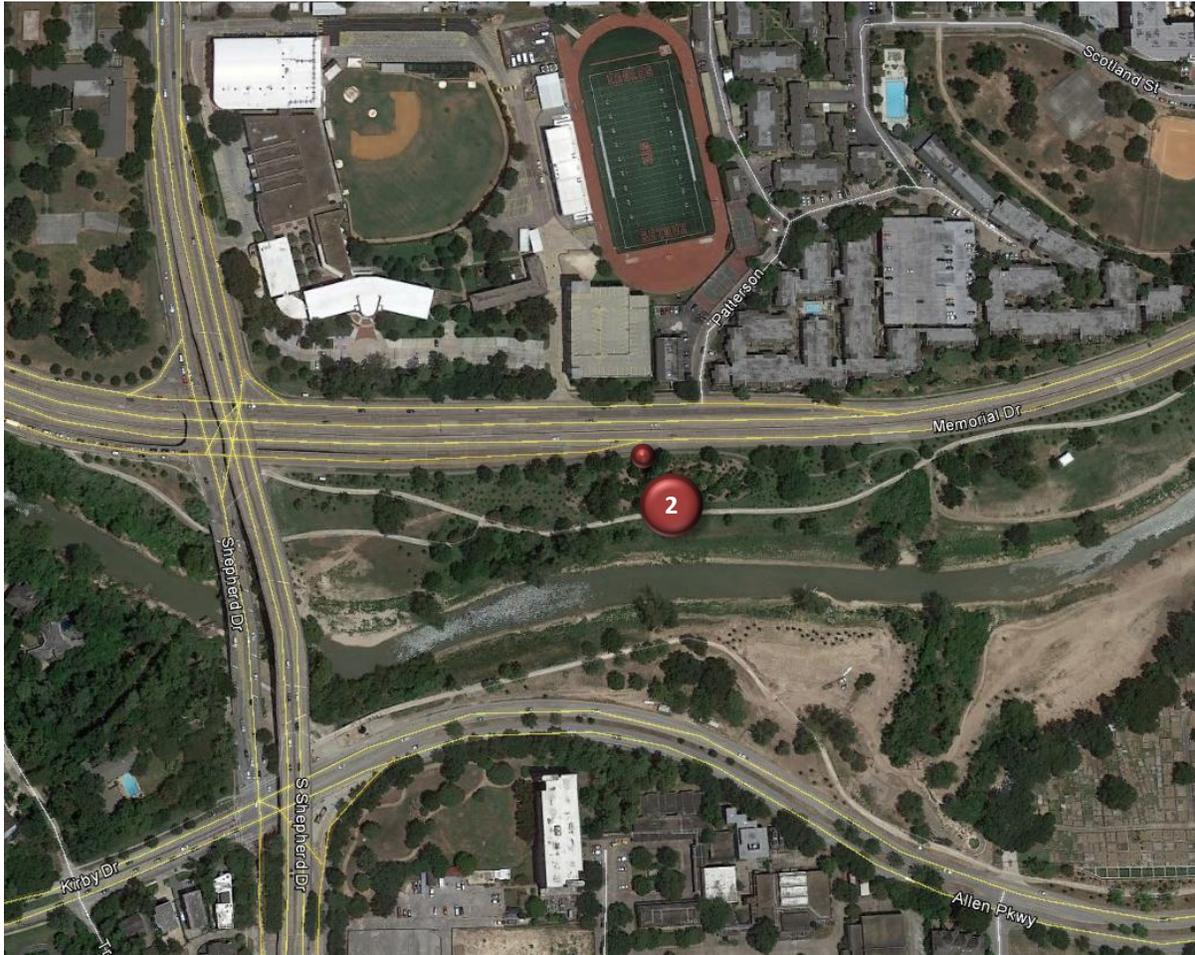
Counter #2

Buffalo Bayou North Bank: St. Thomas High School

Location Information		
Location Name	Buffalo Bayou North Bank: St. Thomas High School	
Location Description	Shared-Use Path along Buffalo Bayou: North Bank east of Memorial Drive/Shepherd Drive Intersection near St. Thomas High School (Light Post #84)	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'40.32"N, 95°24'22.42"W	
Surrounding Land Uses	North	Institutional (St. Thomas High School), Commercial/Retail, Multi-Family Residential
	South	Park, Institutional (The Center)
	East	Park, Multi-Family Residential
	West	Institutional (St. Thomas High School), Park
What object was device secured to?	Light Post #84	
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 Stop 680' Northwest at Shepherd Drive/Memorial Drive Intersection)	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	Yes (September/October 2014)	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the morning (9:00 a.m. – 12:00 p.m.). • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13” of rain) had the least usage (305 users). • Average daily usage at this location was 29.5% higher than what was recorded in October 2014 (768 users/day in February 2016 vs. 593 users/day in October 2014).

Location Information: Map



Location Information: Photos



Image 3: Buffalo Bayou Trail near St. Thomas High School Facing East

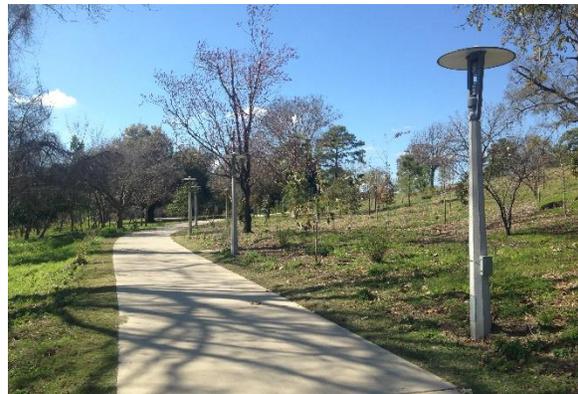
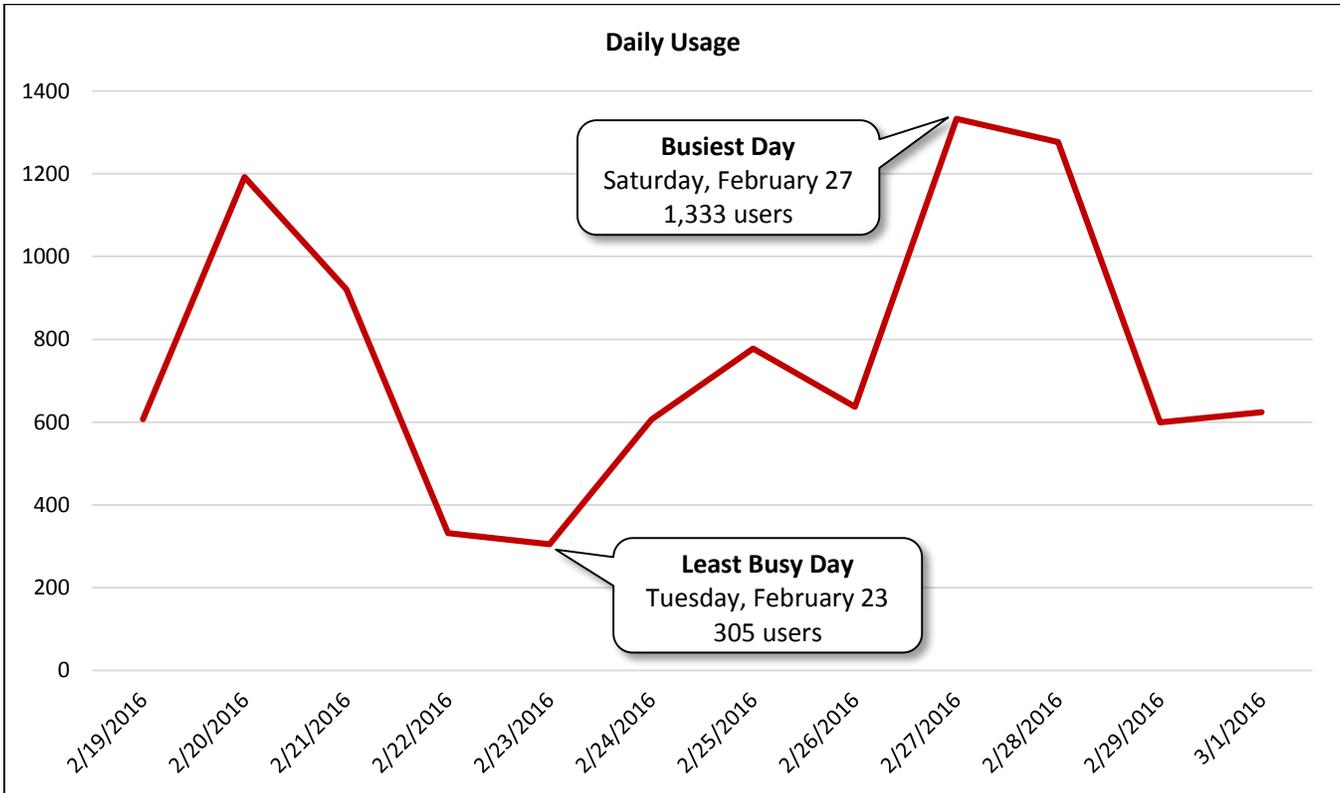


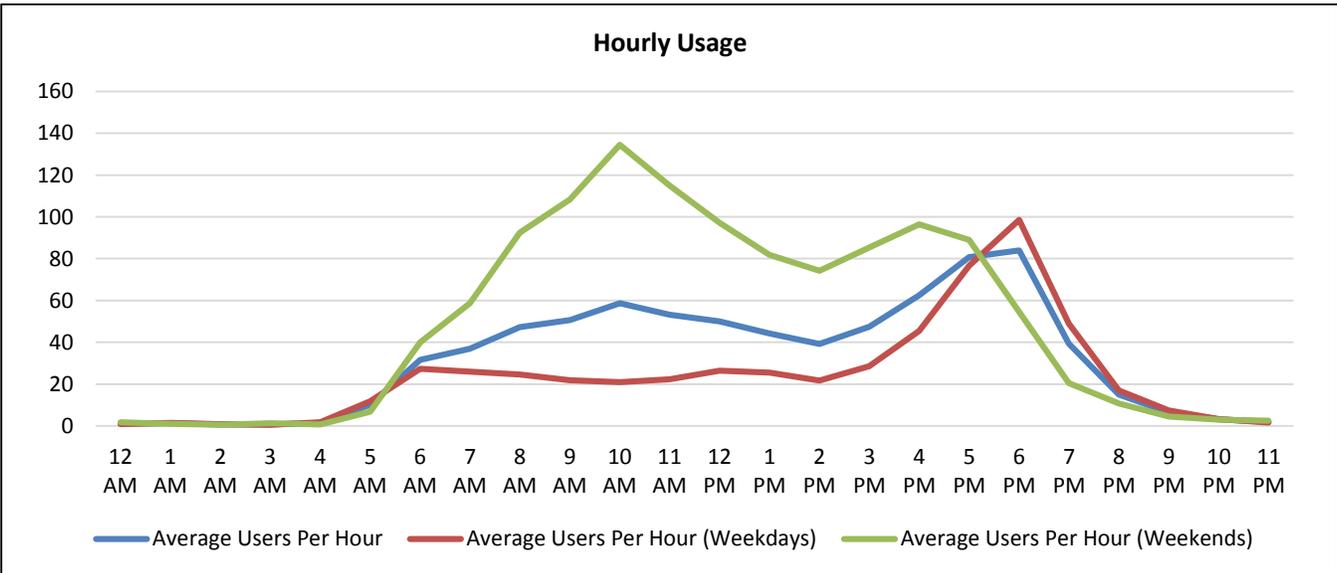
Image 4: Buffalo Bayou Trail near St. Thomas High School Facing West

Daily Usage				
Buffalo Bayou North Bank: St. Thomas High School				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	607	81	63	0
Saturday, February 20, 2016	1,192	79	63	0
Sunday, February 21, 2016	921	74	63	0
Monday, February 22, 2016	332	68	57	0.67
Tuesday, February 23, 2016	305	73	48	1.13
Wednesday, February 24, 2016	606	63	41	T
Thursday, February 25, 2016	778	72	40	0
Friday, February 26, 2016	637	63	39	0
Saturday, February 27, 2016	1,333	71	40	0
Sunday, February 28, 2016	1,277	74	44	0
Monday, February 29, 2016	599	78	55	0
Tuesday, March 1, 2016	624	78	62	0
Total	9,211			
Average Daily Usage	768			
Average Daily Usage (Weekday)	561			
Average Daily Usage (Weekend)	1,181			

*Weather conditions recorded at KHOU.

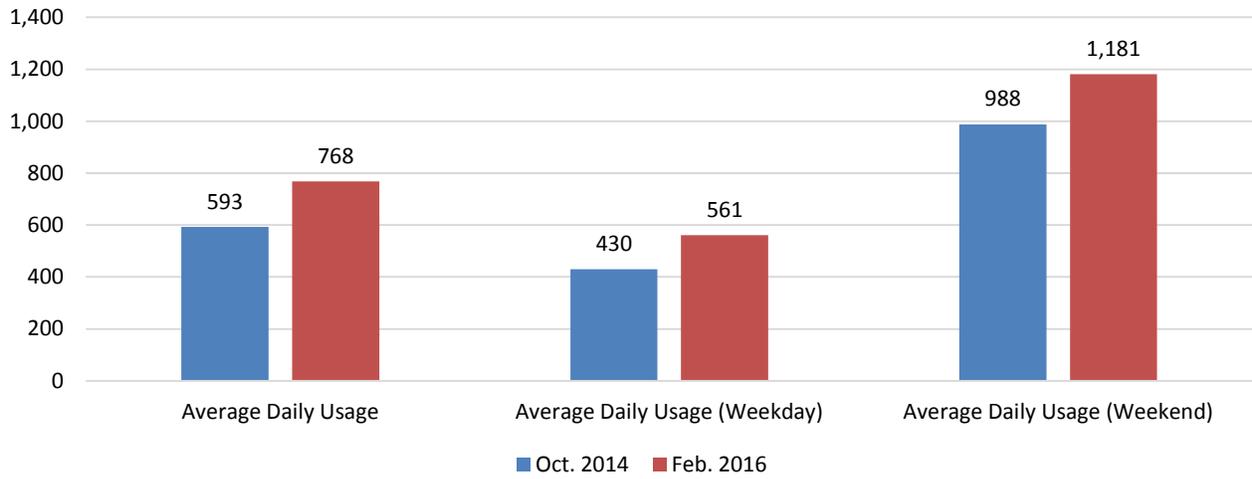


Hourly Usage			
Buffalo Bayou North Bank: St. Thomas High School			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	1.2	0.9	1.8
1:00 a.m.	1.3	1.4	1.0
2:00 a.m.	0.8	0.9	0.5
3:00 a.m.	0.8	0.5	1.3
4:00 a.m.	1.4	1.8	0.8
5:00 a.m.	10.1	11.8	6.8
6:00 a.m.	31.6	27.4	40.0
7:00 a.m.	36.9	26.0	58.8
8:00 a.m.	47.3	24.6	92.5
9:00 a.m.	50.7	21.9	108.3
10:00 a.m.	58.8	20.9	134.5
11:00 a.m.	53.2	22.3	115.0
12:00 p.m.	50.0	26.4	97.3
1:00 p.m.	44.3	25.5	81.8
2:00 p.m.	39.2	21.6	74.3
3:00 p.m.	47.4	28.5	85.3
4:00 p.m.	62.5	45.5	96.5
5:00 p.m.	80.8	76.6	89.0
6:00 p.m.	83.9	98.6	54.5
7:00 p.m.	39.4	48.9	20.5
8:00 p.m.	14.9	17.0	10.8
9:00 p.m.	6.4	7.4	4.5
10:00 p.m.	3.2	3.3	3.0
11:00 p.m.	1.9	1.6	2.5

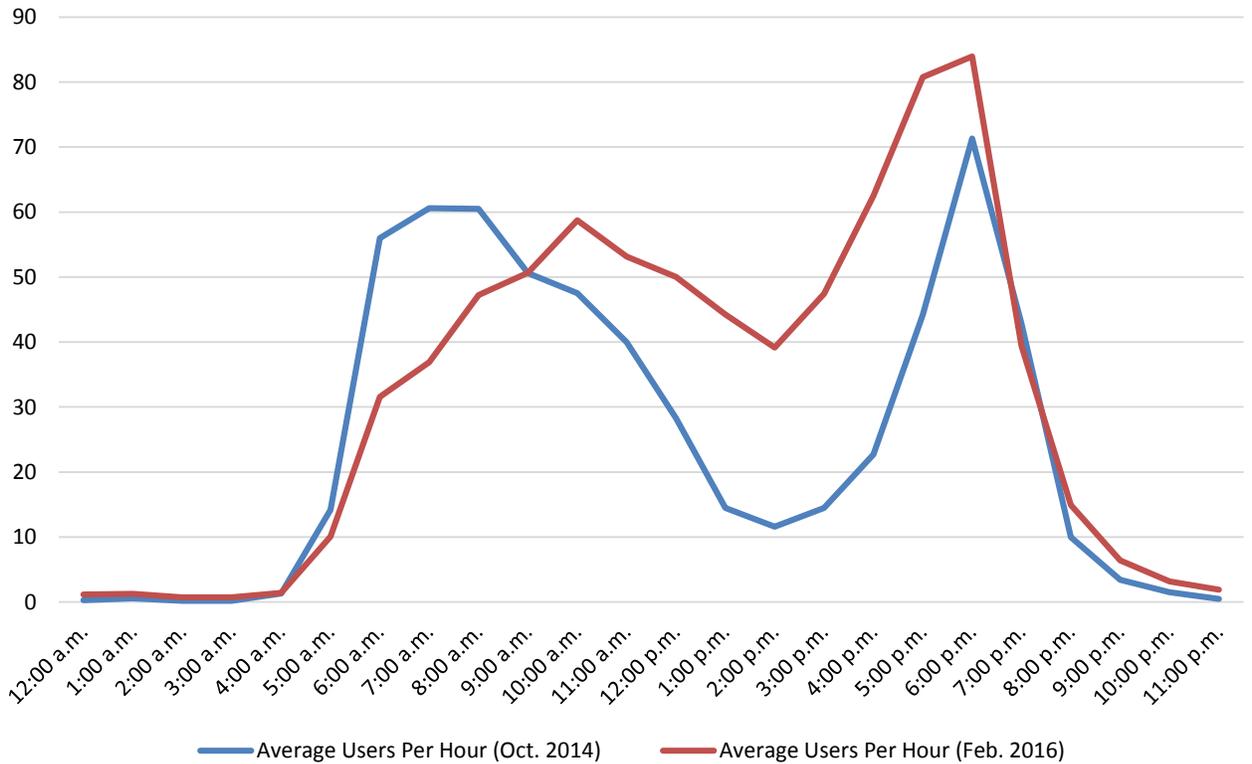


Historical Comparison

Comparison: Daily Usage



Comparison: Hourly Usage



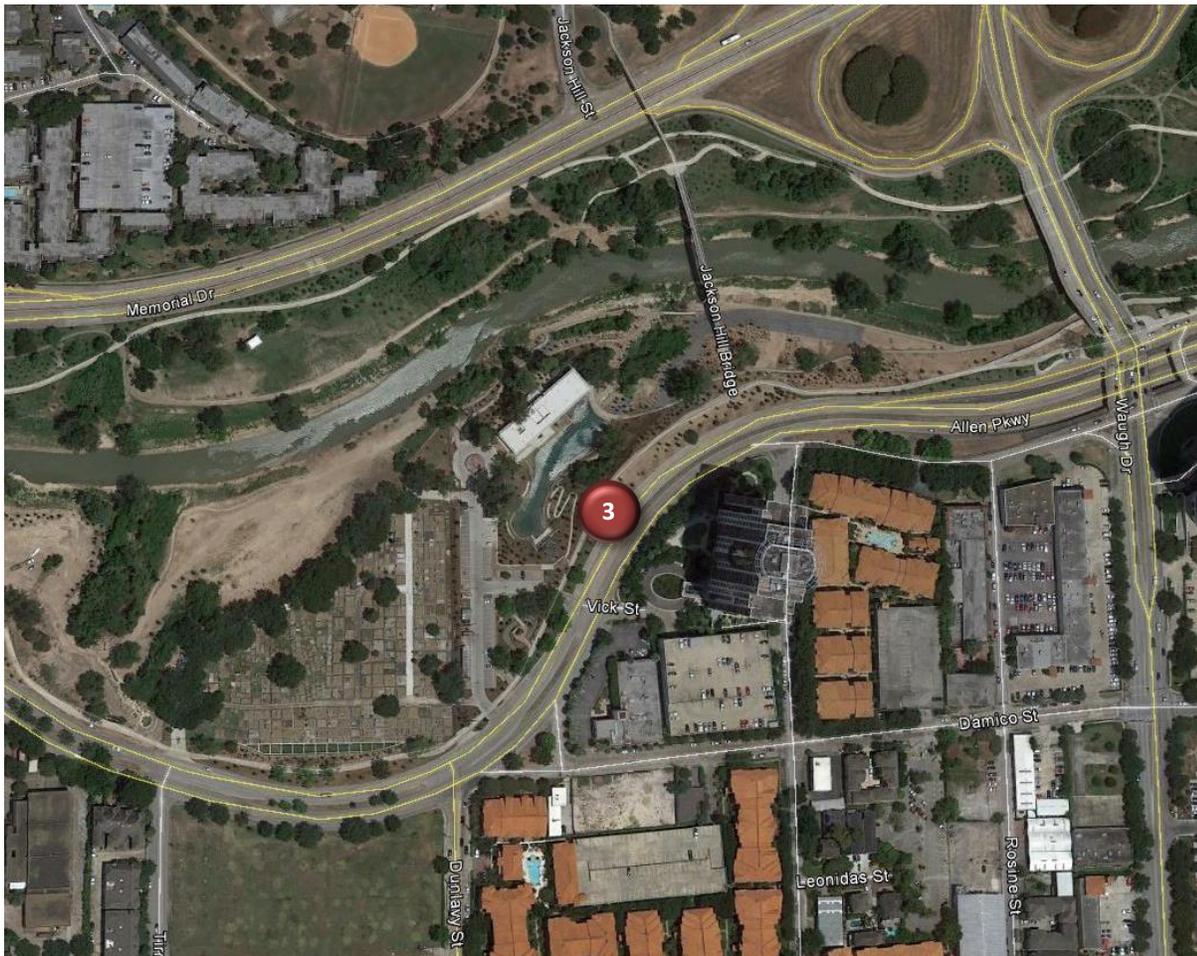
Counter #3

Buffalo Bayou South Bank: Lost Lake

Location Information		
Location Name	Buffalo Bayou South Bank: Lost Lake	
Location Description	Shared-Use Path along Buffalo Bayou: South Bank near Lost Lake (Parallel to Allen Parkway)	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'38.07"N, 95°24'5.66"W	
Surrounding Land Uses	North	Park, Recreational Facility/Restaurant (The Dunlavy), Multi-Family Residential
	South	Multi-Family Residential, Office
	East	Multi-Family Residential, Commercial/Retail, Office
	West	Park, Cemetery, Multi-Family Residential, Vacant Land
What object was device secured to?	Tree Stake	
Sidewalk Width	10'	
Buffer Width	30' (Varies)	
Street Width	Six-Lane Divided Roadway (Under Construction During Deployment Period)	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	40 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	25,876 (3601 Allen Parkway: City of Houston 2013)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	Allen Parkway was under construction during the deployment period. West of Counter #3, a traffic signal was being installed at the Allen Parkway/Dunlavy Street intersection, but was not yet operational when the counter was deployed.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the morning (10:00 a.m. – 11:00 a.m.) and remains relatively steady until 6:00 p.m. • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13” of rain) had the least usage (396 users).

Location Information: Map



Location Information: Photos



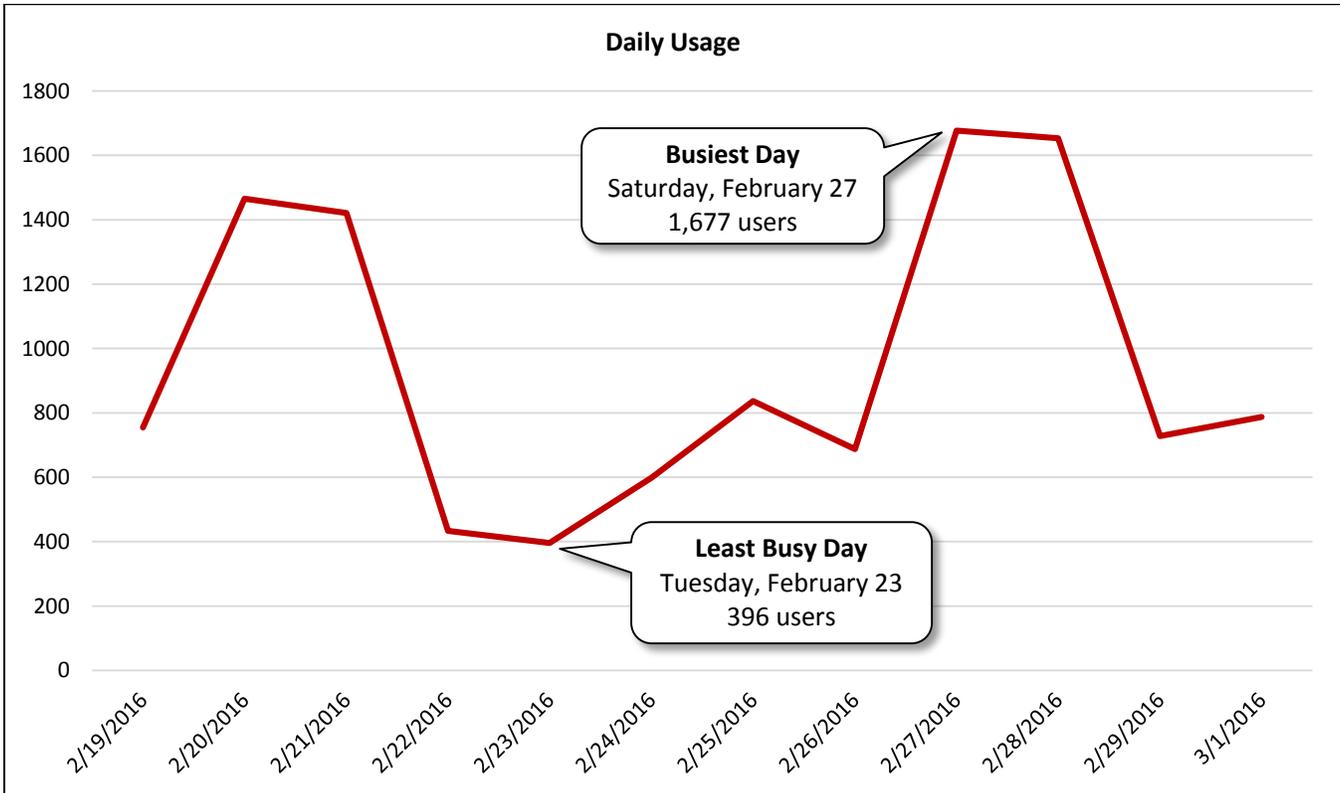
Image 5: Buffalo Bayou Trail near Lost Lake Facing East



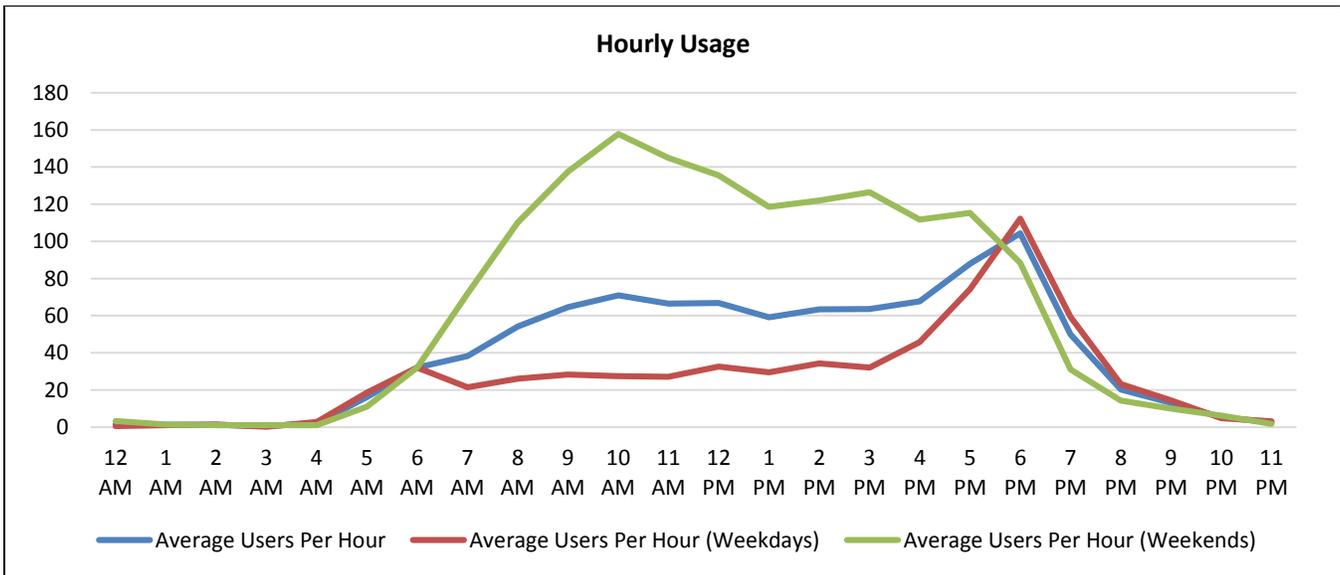
Image 6: Buffalo Bayou Trail near Lost Lake Facing West

Daily Usage				
Buffalo Bayou South Bank: Lost Lake				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	755	81	63	0
Saturday, February 20, 2016	1,466	79	63	0
Sunday, February 21, 2016	1,421	74	63	0
Monday, February 22, 2016	434	68	57	0.67
Tuesday, February 23, 2016	396	73	48	1.13
Wednesday, February 24, 2016	599	63	41	T
Thursday, February 25, 2016	837	72	40	0
Friday, February 26, 2016	688	63	39	0
Saturday, February 27, 2016	1,677	71	40	0
Sunday, February 28, 2016	1,653	74	44	0
Monday, February 29, 2016	728	78	55	0
Tuesday, March 1, 2016	787	78	62	0
Total	11,441			
Average Daily Usage	953			
Average Daily Usage (Weekday)	653			
Average Daily Usage (Weekend)	1,554			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou South Bank: Lost Lake			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	1.4	0.5	3.3
1:00 a.m.	1.3	1.1	1.5
2:00 a.m.	1.3	1.5	1.0
3:00 a.m.	0.5	0.3	1.0
4:00 a.m.	2.2	2.8	1.0
5:00 a.m.	16.1	18.6	11.0
6:00 a.m.	32.0	32.0	32.0
7:00 a.m.	38.2	21.4	71.8
8:00 a.m.	54.2	26.1	110.3
9:00 a.m.	64.7	28.3	137.5
10:00 a.m.	70.9	27.5	157.8
11:00 a.m.	66.4	27.1	145.0
12:00 p.m.	66.9	32.6	135.5
1:00 p.m.	59.2	29.5	118.5
2:00 p.m.	63.5	34.3	122.0
3:00 p.m.	63.6	32.1	126.5
4:00 p.m.	67.8	45.8	111.8
5:00 p.m.	87.9	74.3	115.3
6:00 p.m.	104.3	112.3	88.5
7:00 p.m.	49.9	59.4	31.0
8:00 p.m.	20.3	23.3	14.3
9:00 p.m.	13.0	14.5	10.0
10:00 p.m.	5.3	4.9	6.3
11:00 p.m.	2.7	3.1	1.8



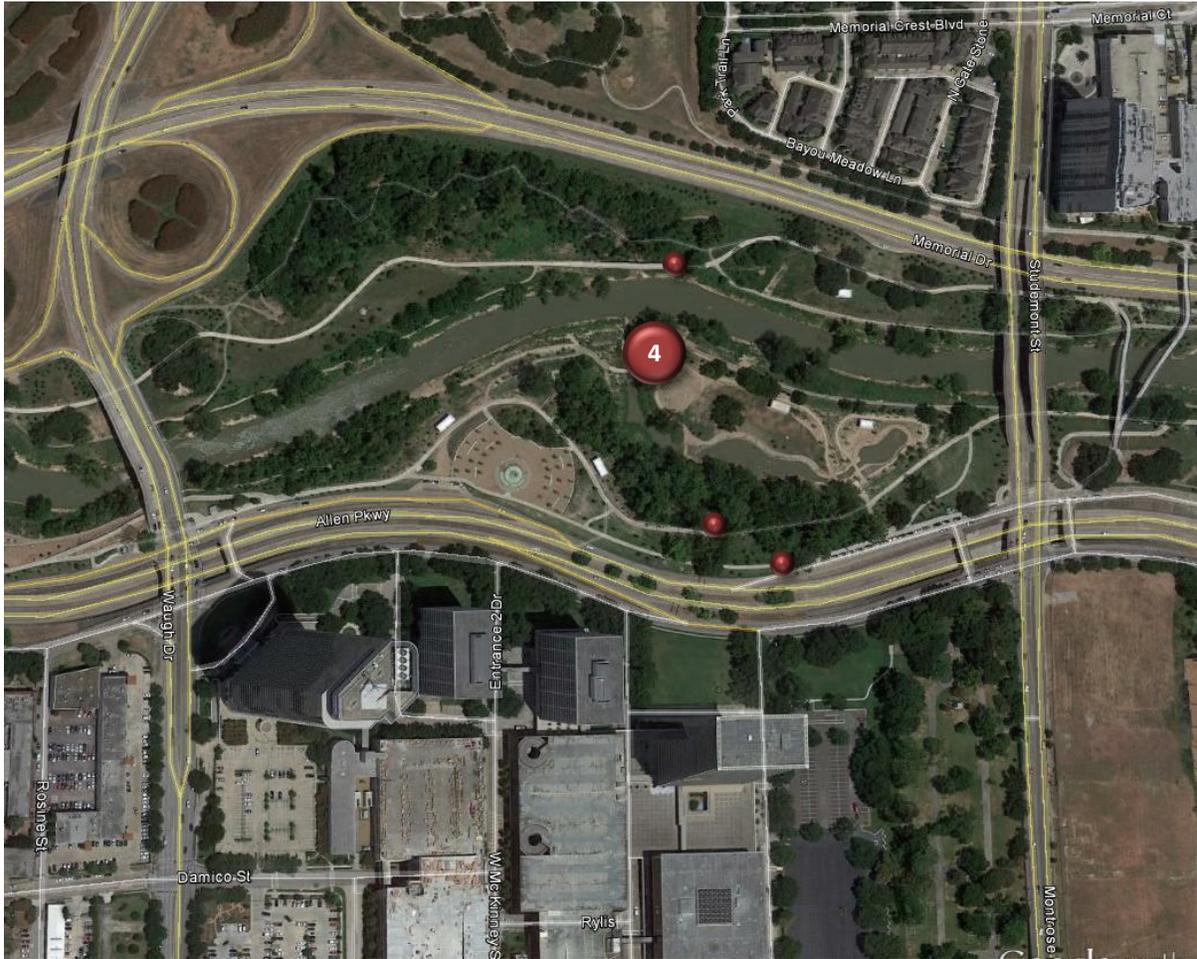
Counter #4

Buffalo Bayou South Bank: Johnny Steele Dog Park (Pedestrian Path)

Location Information		
Location Name	Buffalo Bayou South Bank: Johnny Steele Dog Park (Pedestrian Path)	
Location Description	Pedestrians-Only Pathway along Buffalo Bayou: South Bank near Johnny Steele Dog Park	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'45.10"N, 95°23'42.57"W	
Surrounding Land Uses	North	Park, Multi-Family Residential
	South	Park, Office, Cemetery
	East	Park, Cemetery, Multi-Family Residential
	West	Park, Office
What object was device secured to?	Tree Stake near Northwest Corner of Johnny Steele Dog Park and West of Pedestrian Bridge across Buffalo Bayou Tributary	
Sidewalk Width	5'	
Buffer Width	N/A (Off-Road Pedestrian Pathway)	
Street Width	N/A (Off-Road Pedestrian Pathway)	
Parallel Parking	N/A (Off-Road Pedestrian Pathway)	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Pedestrian Pathway)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Pedestrian Pathway)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the late morning (11:00 a.m. – 12:00 p.m.) and remains relatively steady until 6:00 p.m. • Rain seems to impact usage. The two days with significant rain had the least usage (Monday, February 22: 0.67” of rain – 351 users and Tuesday, February 23: 1.13” of rain – 369 users).

Location Information: Map



Location Information: Photos



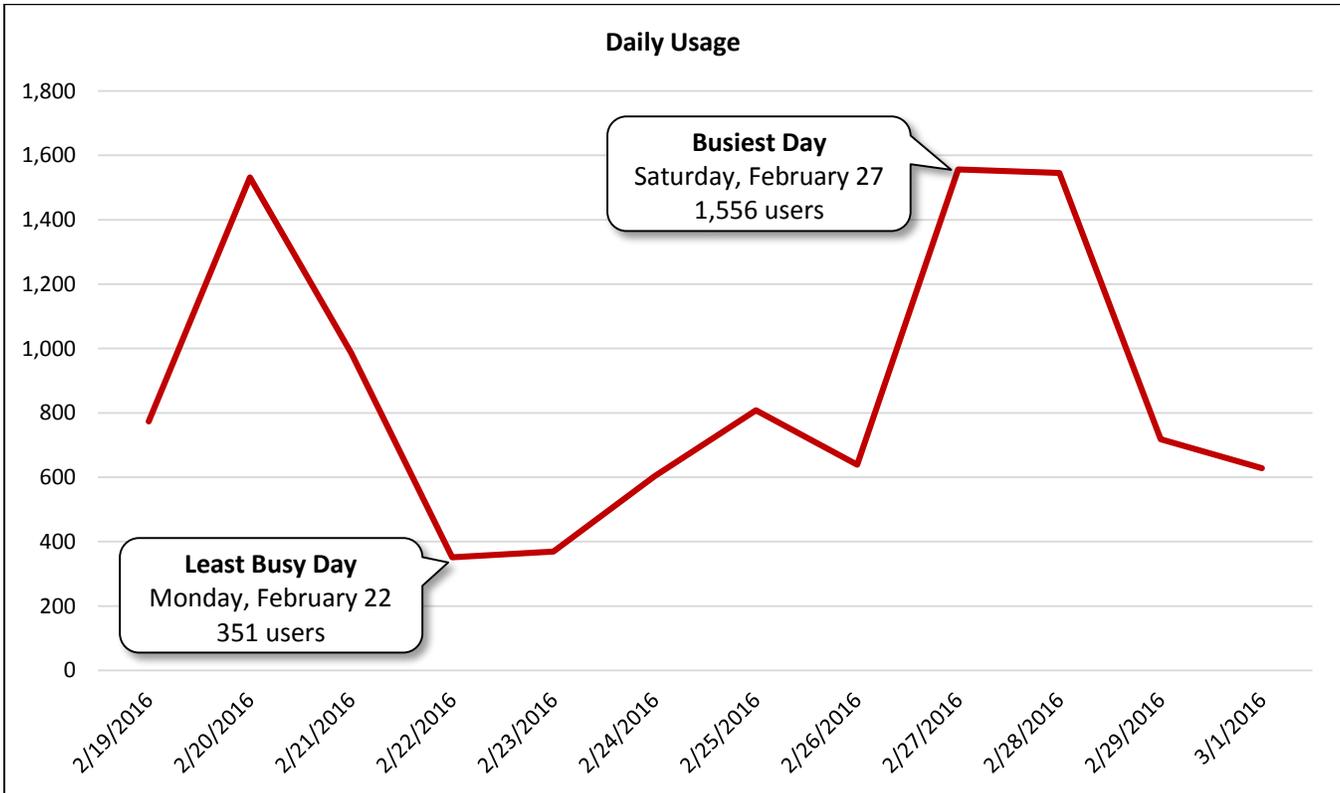
Image 7: Pedestrian Path near Johnny Steele Dog Park Facing East



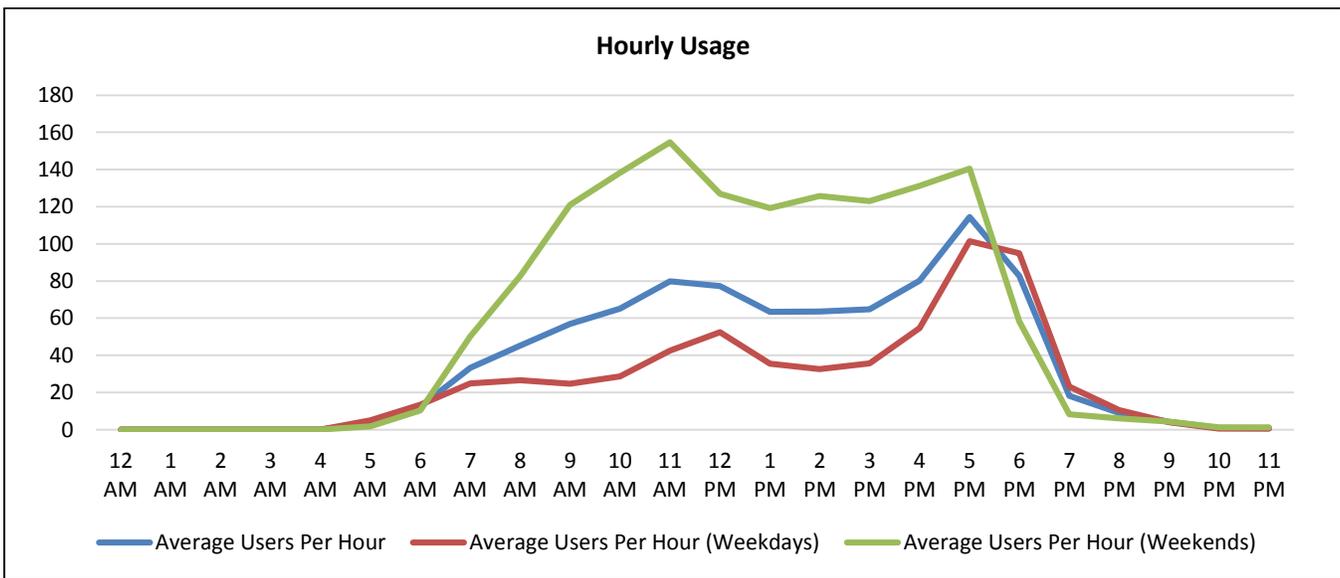
Image 8: Pedestrian Path near Johnny Steele Dog Park Facing West

Daily Usage				
Buffalo Bayou South Bank: Johnny Steele Dog Park (Pedestrian Path)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	774	81	63	0
Saturday, February 20, 2016	1,532	79	63	0
Sunday, February 21, 2016	986	74	63	0
Monday, February 22, 2016	351	68	57	0.67
Tuesday, February 23, 2016	369	73	48	1.13
Wednesday, February 24, 2016	604	63	41	T
Thursday, February 25, 2016	808	72	40	0
Friday, February 26, 2016	639	63	39	0
Saturday, February 27, 2016	1,556	71	40	0
Sunday, February 28, 2016	1,546	74	44	0
Monday, February 29, 2016	718	78	55	0
Tuesday, March 1, 2016	628	78	62	0
Total	10,511			
Average Daily Usage	876			
Average Daily Usage (Weekday)	611			
Average Daily Usage (Weekend)	1,405			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou South Bank: Johnny Steele Dog Park (Pedestrian Path)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.0	0.0	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.	3.9	5.0	1.8
6:00 a.m.	12.3	13.4	10.3
7:00 a.m.	33.3	24.9	50.3
8:00 a.m.	45.3	26.5	82.8
9:00 a.m.	56.8	24.8	121.0
10:00 a.m.	65.2	28.6	138.3
11:00 a.m.	79.9	42.5	154.8
12:00 p.m.	77.3	52.5	127.0
1:00 p.m.	63.4	35.5	119.3
2:00 p.m.	63.6	32.5	125.8
3:00 p.m.	64.8	35.6	123.0
4:00 p.m.	80.2	54.6	131.3
5:00 p.m.	114.4	101.4	140.5
6:00 p.m.	82.7	94.9	58.3
7:00 p.m.	18.2	23.1	8.3
8:00 p.m.	9.0	10.5	6.0
9:00 p.m.	4.1	4.0	4.3
10:00 p.m.	0.8	0.6	1.3
11:00 p.m.	0.8	0.5	1.3



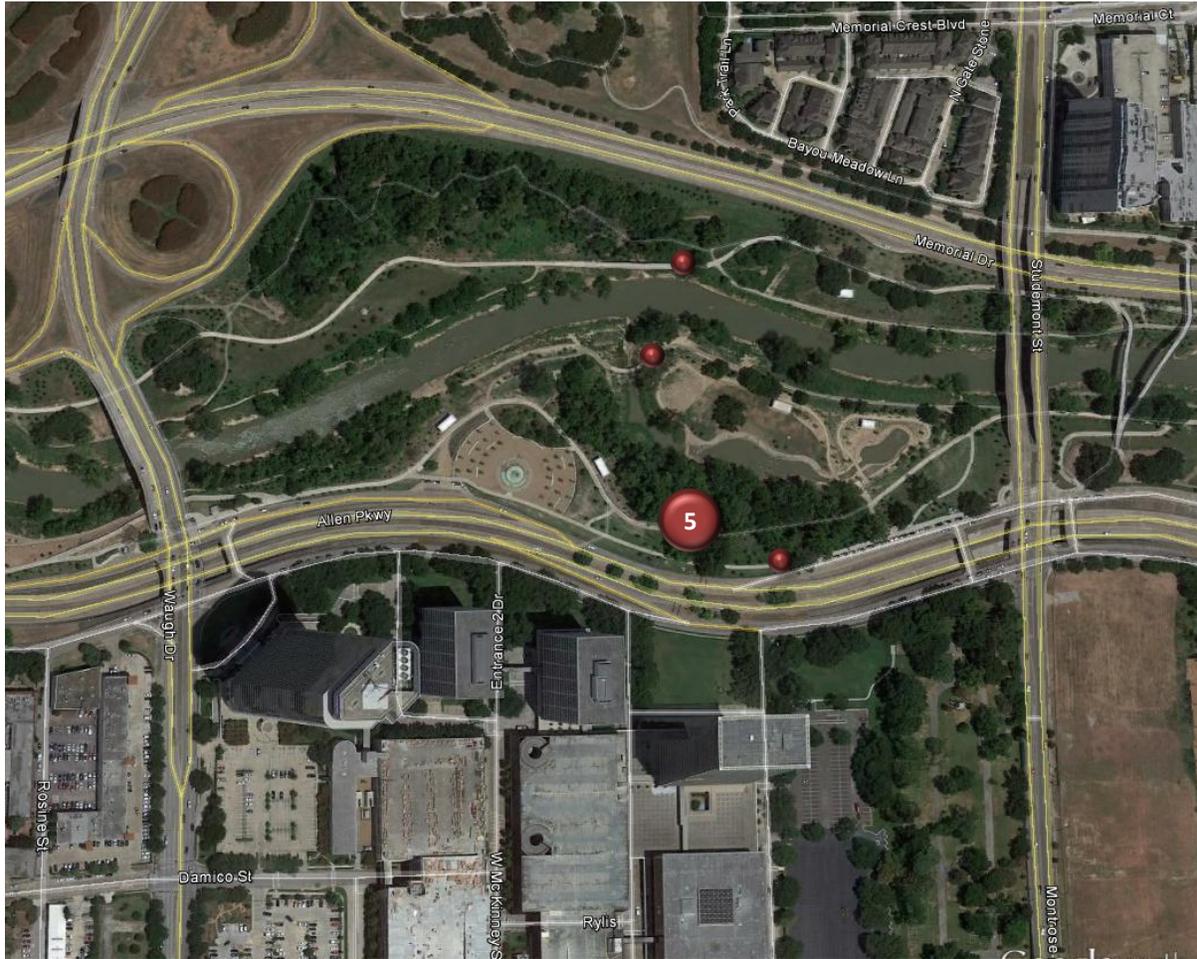
Counter #5

Buffalo Bayou South Bank: Johnny Steele Dog Park (Main Shared-Use Path)

Location Information		
Location Name	Buffalo Bayou South Bank: Johnny Steele Dog Park (Main Shared-Use Path)	
Location Description	Shared-Use Path along Buffalo Bayou: South Bank near Johnny Steele Dog Park	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'41.60"N, 95°23'41.35"W	
Surrounding Land Uses	North	Park, Multi-Family Residential
	South	Park, Office, Cemetery
	East	Park, Cemetery, Multi-Family Residential
	West	Park, Office
What object was device secured to?	Sign Post (Curves Ahead)	
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	No	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage generally increases as the day progresses, peaking in the evening (4:00 p.m. – 6:00 p.m.). • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13" of rain) had the least usage (311 users).

Location Information: Map



Location Information: Photos



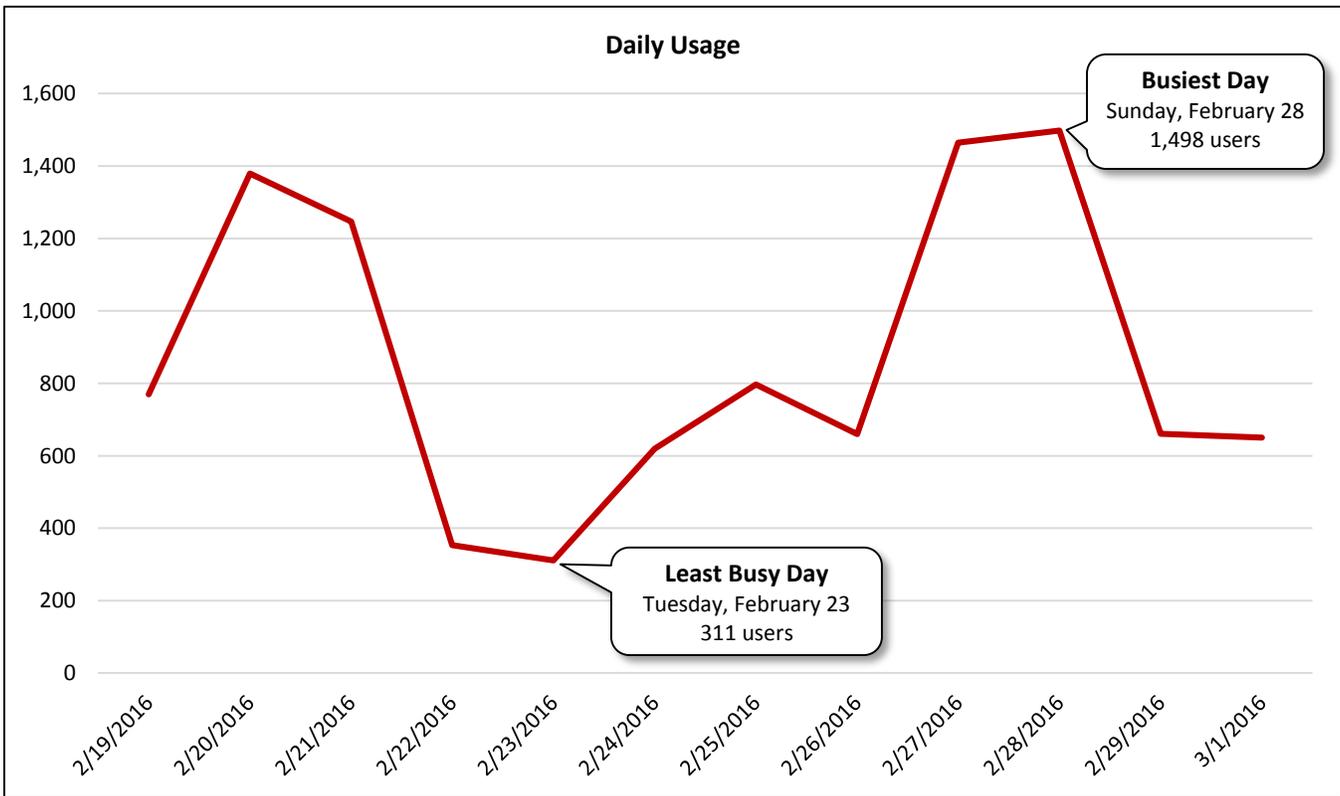
Image 9: Buffalo Bayou Trail near Johnny Steele Dog Park Facing East



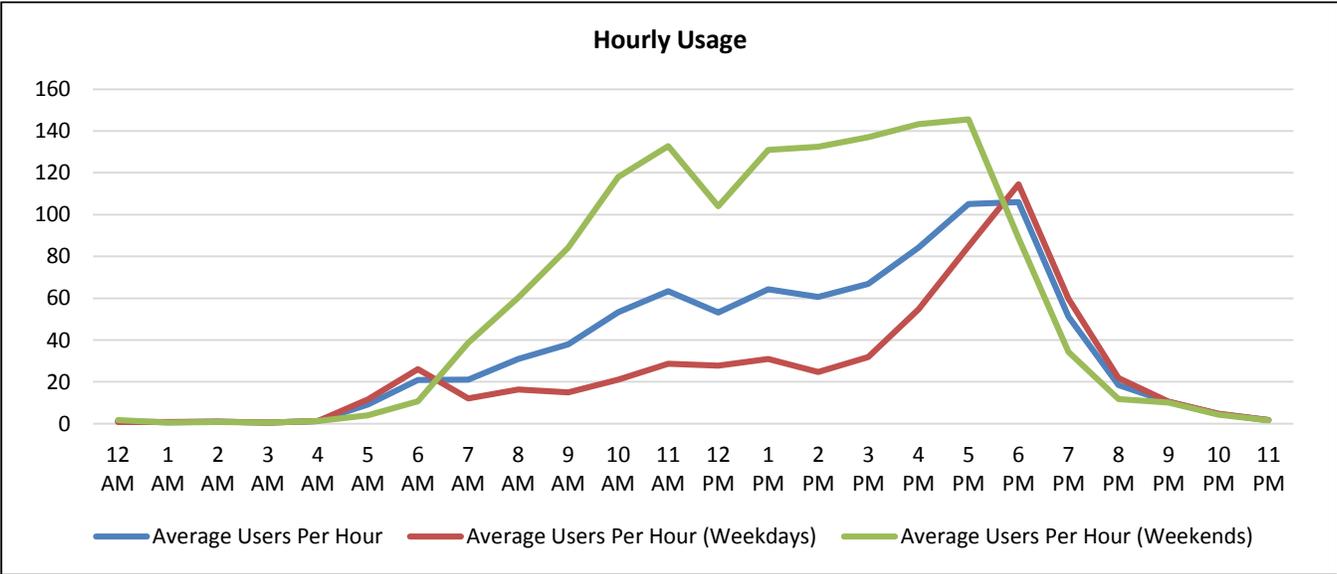
Image 10: Buffalo Bayou Trail near Johnny Steele Dog Park Facing West

Daily Usage				
Buffalo Bayou South Bank: Johnny Steele Dog Park (Main Shared-Use Path)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	770	81	63	0
Saturday, February 20, 2016	1,379	79	63	0
Sunday, February 21, 2016	1,247	74	63	0
Monday, February 22, 2016	353	68	57	0.67
Tuesday, February 23, 2016	311	73	48	1.13
Wednesday, February 24, 2016	619	63	41	T
Thursday, February 25, 2016	797	72	40	0
Friday, February 26, 2016	660	63	39	0
Saturday, February 27, 2016	1,465	71	40	0
Sunday, February 28, 2016	1,498	74	44	0
Monday, February 29, 2016	661	78	55	0
Tuesday, March 1, 2016	650	78	62	0
Total	10,410			
Average Daily Usage	868			
Average Daily Usage (Weekday)	603			
Average Daily Usage (Weekend)	1,397			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou South Bank: Johnny Steele Dog Park (Main Shared-Use Path)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	1.1	0.8	1.8
1:00 a.m.	0.7	0.8	0.5
2:00 a.m.	0.9	1.0	0.8
3:00 a.m.	0.5	0.5	0.5
4:00 a.m.	1.3	1.3	1.3
5:00 a.m.	9.1	11.6	4.0
6:00 a.m.	20.9	26.0	10.8
7:00 a.m.	21.0	12.1	38.8
8:00 a.m.	31.0	16.4	60.3
9:00 a.m.	38.0	14.9	84.3
10:00 a.m.	53.3	21.0	118.0
11:00 a.m.	63.3	28.6	132.8
12:00 p.m.	53.2	27.8	104.0
1:00 p.m.	64.3	31.0	131.0
2:00 p.m.	60.7	24.8	132.5
3:00 p.m.	66.9	31.9	137.0
4:00 p.m.	84.3	54.8	143.3
5:00 p.m.	105.0	84.8	145.5
6:00 p.m.	105.9	114.5	88.8
7:00 p.m.	51.2	59.6	34.3
8:00 p.m.	18.4	21.8	11.8
9:00 p.m.	10.3	10.5	10.0
10:00 p.m.	4.6	4.8	4.3
11:00 p.m.	1.7	1.8	1.5



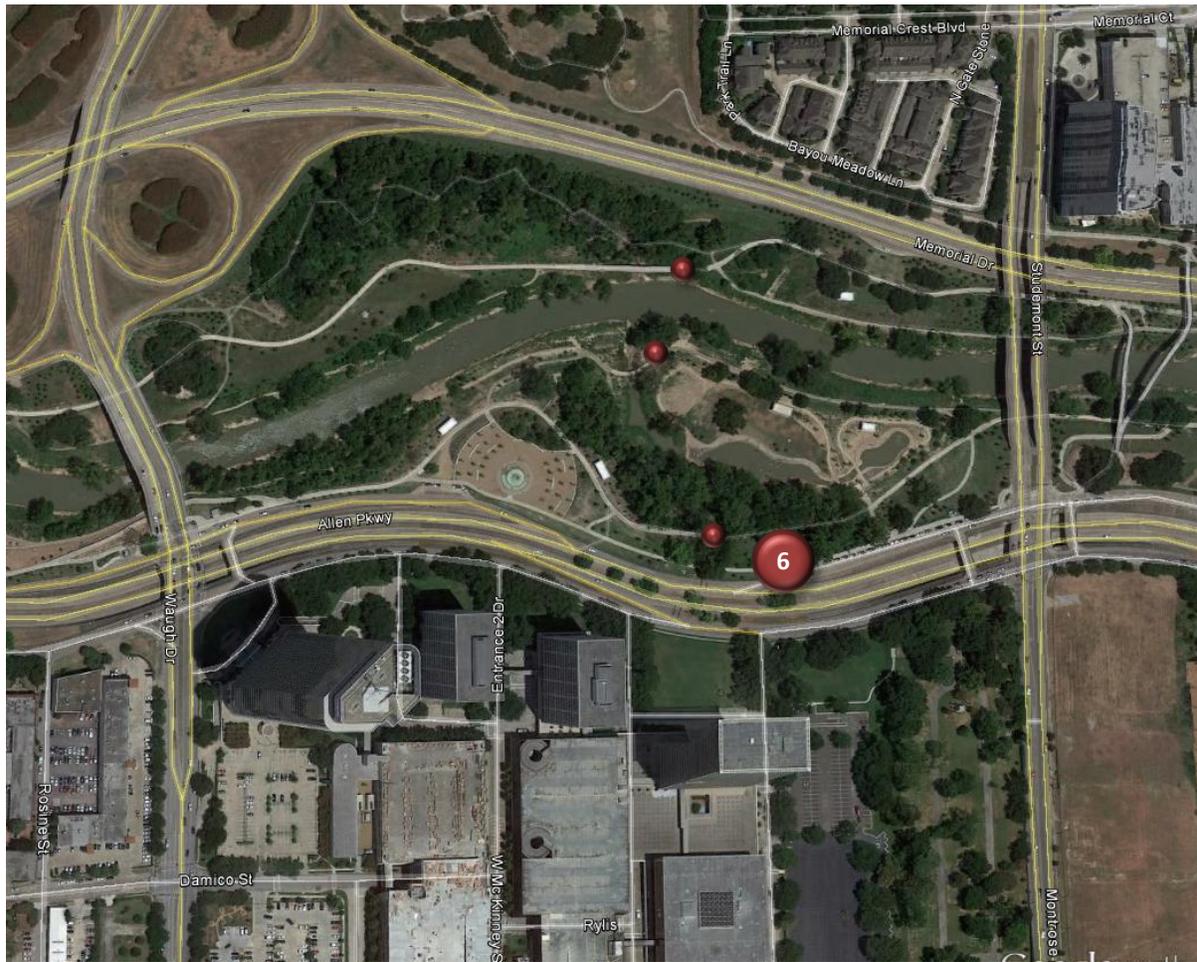
Counter #6

Buffalo Bayou South Bank: Johnny Steele Dog Park (Roadside Shared-Use Path)

Location Information	
Location Name	Buffalo Bayou South Bank: Johnny Steele Dog Park (Roadside Shared-Use Path)
Location Description	Shared-Use Path along Buffalo Bayou: South Bank Adjacent to Allen Parkway near Johnny Steele Dog Park
Jurisdiction	City of Houston
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute
GPS Coordinates	29°45'40.82"N, 95°23'38.44"W
Surrounding Land Uses	North Park, Multi-Family Residential
	South Park, Office, Cemetery
	East Park, Cemetery, Multi-Family Residential
	West Park, Office
What object was device secured to?	Sign Post (Road Work Ahead) West of Parallel Parking near Johnny Steele Dog Park
Sidewalk Width	8'
Buffer Width	10' (Varies)
Street Width	Four-Lane Divided Roadway + Westbound Entrance Ramp + Eastbound Frontage Road (Under Construction During Deployment Period)
Parallel Parking	Yes
Landscaping or Trees	Yes
Sidewalk Pavement Type	Concrete
ADA Ramps	Yes
Sidewalk Condition	Good
Speed Limit	40 miles per hour
Street Lighting	Yes
Street Traffic Volume	25,876 (3601 Allen Parkway: City of Houston 2013)
Transit	No
Shade	No
Have counts been collected by H-GAC at this location before?	No
Notes	Allen Parkway was under construction during the deployment period.

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 8:00 p.m.). • During weekends, usage peaks in the late morning (11:00 a.m. – 12:00 p.m.) and remains relatively steady until 5:00 p.m. • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13” of rain) had the least usage (145 users).

Location Information: Map



Location Information: Photos



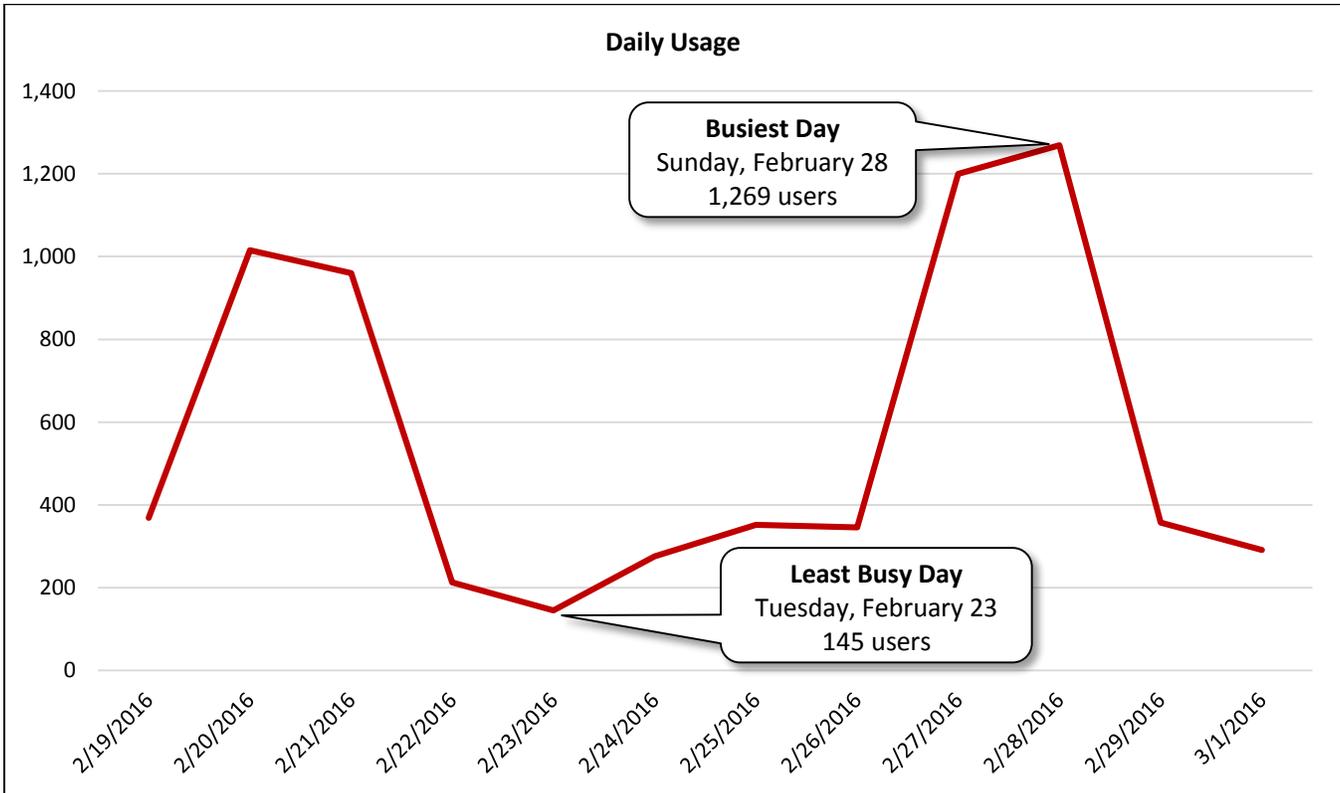
Image 11: Shared-Use Path Adjacent to Allen Parkway Facing East



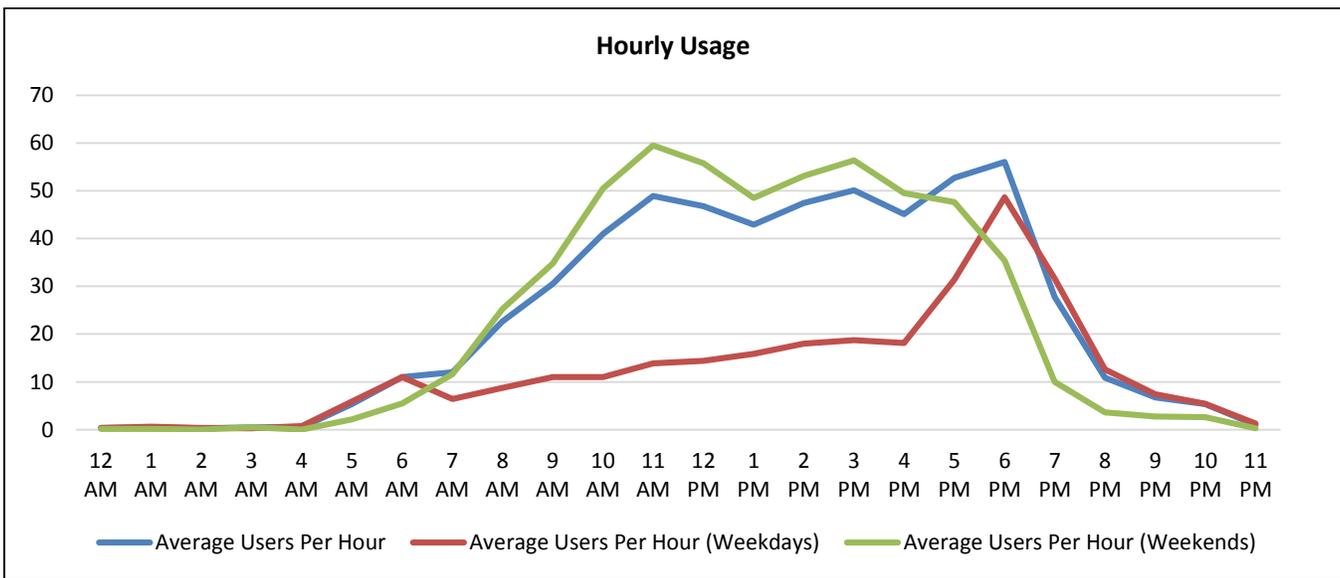
Image 12: Shared-Use Path Adjacent to Allen Parkway Facing West

Daily Usage				
Buffalo Bayou South Bank: Johnny Steele Dog Park (Roadside Shared-Use Path)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	369	81	63	0
Saturday, February 20, 2016	1,015	79	63	0
Sunday, February 21, 2016	960	74	63	0
Monday, February 22, 2016	213	68	57	0.67
Tuesday, February 23, 2016	145	73	48	1.13
Wednesday, February 24, 2016	276	63	41	T
Thursday, February 25, 2016	352	72	40	0
Friday, February 26, 2016	346	63	39	0
Saturday, February 27, 2016	1,200	71	40	0
Sunday, February 28, 2016	1,269	74	44	0
Monday, February 29, 2016	357	78	55	0
Tuesday, March 1, 2016	291	78	62	0
Total	6,793			
Average Daily Usage	566			
Average Daily Usage (Weekday)	294			
Average Daily Usage (Weekend)	1,111			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou South Bank: Johnny Steele Dog Park (Roadside Shared-Use Path)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.3	0.4	0.1
1:00 a.m.	0.5	0.6	0.1
2:00 a.m.	0.3	0.4	0.0
3:00 a.m.	0.5	0.3	0.5
4:00 a.m.	0.5	0.8	0.0
5:00 a.m.	5.3	5.9	2.1
6:00 a.m.	11.0	11.0	5.5
7:00 a.m.	12.0	6.4	11.6
8:00 a.m.	22.7	8.8	25.3
9:00 a.m.	30.5	11.0	34.8
10:00 a.m.	41.0	11.0	50.5
11:00 a.m.	48.9	13.9	59.5
12:00 p.m.	46.8	14.4	55.8
1:00 p.m.	42.9	15.9	48.5
2:00 p.m.	47.4	18.0	53.1
3:00 p.m.	50.1	18.8	56.4
4:00 p.m.	45.1	18.1	49.5
5:00 p.m.	52.7	31.4	47.6
6:00 p.m.	56.0	48.6	35.4
7:00 p.m.	27.8	31.6	10.0
8:00 p.m.	10.8	12.6	3.6
9:00 p.m.	6.8	7.4	2.8
10:00 p.m.	5.3	5.4	2.6
11:00 p.m.	1.0	1.3	0.3



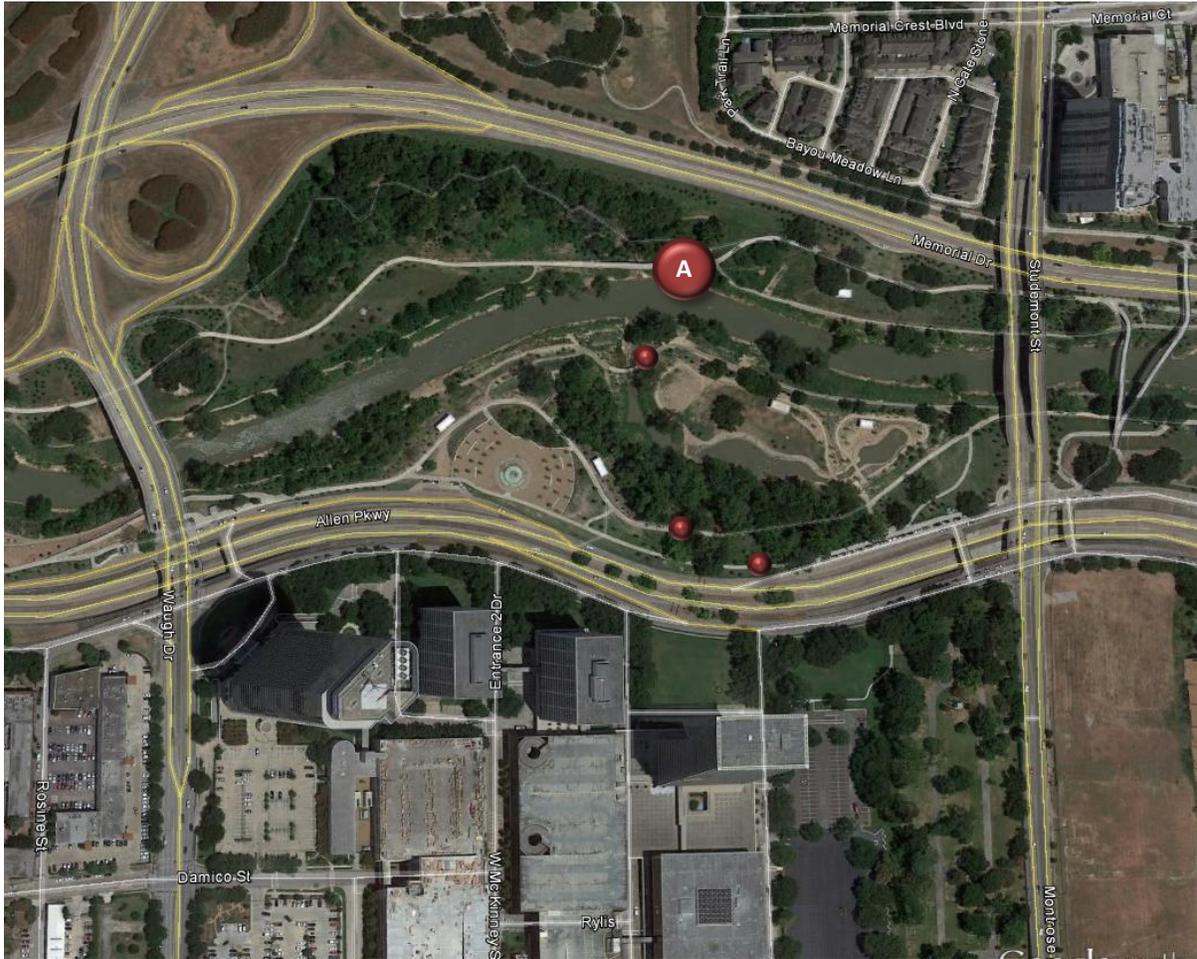
Counter A

Buffalo Bayou North Bank: Green Tree Nature Area

Location Information		
Location Name	Buffalo Bayou North Bank: Green Tree Nature Area	
Location Description	Shared-Use Path along Buffalo Bayou: North Bank near Green Tree Nature Area (East of Waugh Drive)	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'47.50"N, 95°23'42.40"W	
Surrounding Land Uses	North	Park, Multi-Family Residential
	South	Park, Office, Cemetery
	East	Park, Cemetery, Multi-Family Residential
	West	Park, Office
What object was device secured to?	Light Post #14 (East End of Bridge across Buffalo Bayou Tributary)	
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	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	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	Counter A reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data on Sunday, February 28, 2016 at approximately 6:00 p.m.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the late morning (10:00 a.m. – 11:00 a.m.). • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13" of rain) had the least usage (593 users).

Location Information: Map



Location Information: Photos



Image 13: Buffalo Bayou Trail near Green Tree Nature Area Facing East



Image 14: Buffalo Bayou Trail near Green Tree Nature Area Facing West

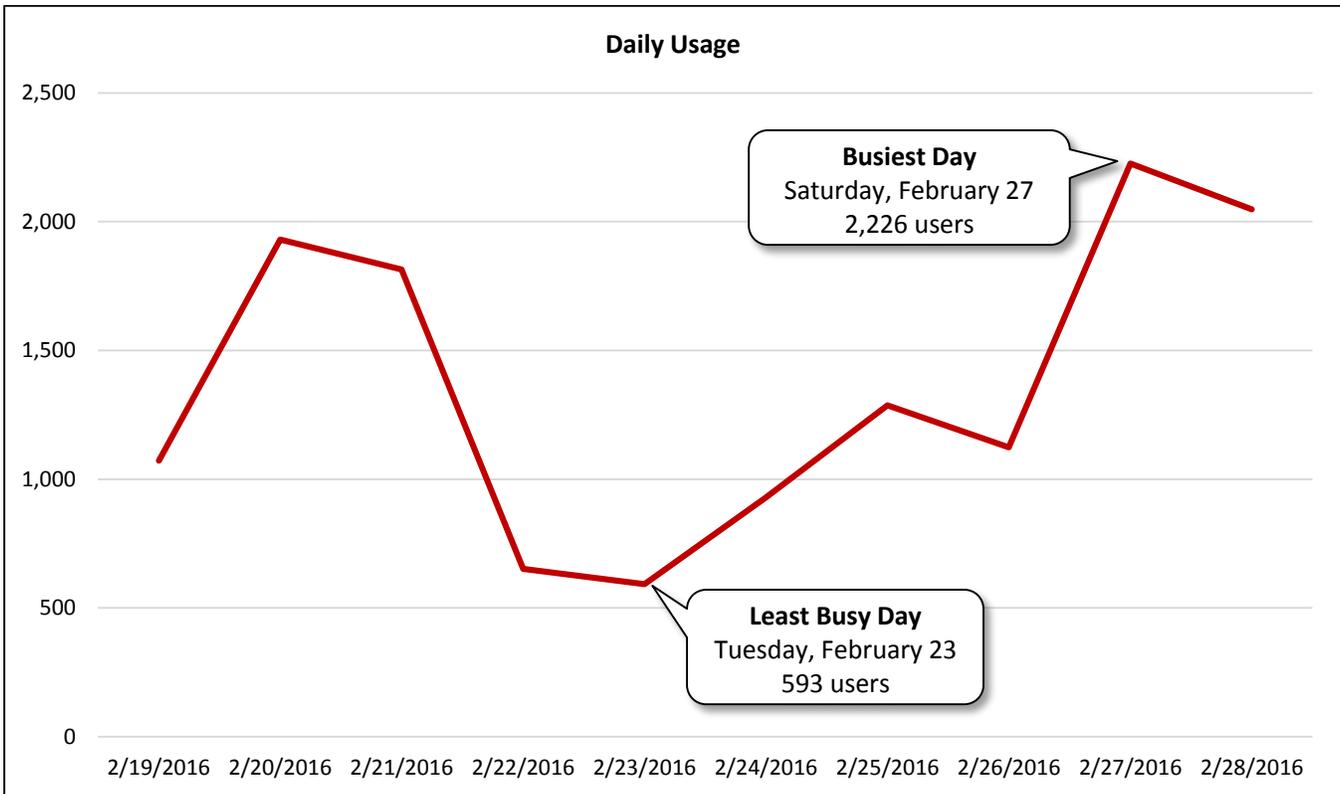
Daily Usage				
Buffalo Bayou North Bank: Green Tree Nature Area				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	1,072	81	63	0
Saturday, February 20, 2016	1,931	79	63	0
Sunday, February 21, 2016	1,815	74	63	0
Monday, February 22, 2016	652	68	57	0.67
Tuesday, February 23, 2016	593	73	48	1.13
Wednesday, February 24, 2016	930	63	41	T
Thursday, February 25, 2016	1,287	72	40	0
Friday, February 26, 2016	1,124	63	39	0
Saturday, February 27, 2016	2,226	71	40	0
Sunday, February 28, 2016**	2,048	74	44	0

Total	13,678
Average Daily Usage	1,403
Average Daily Usage (Weekday)	943
Average Daily Usage (Weekend)	2,139

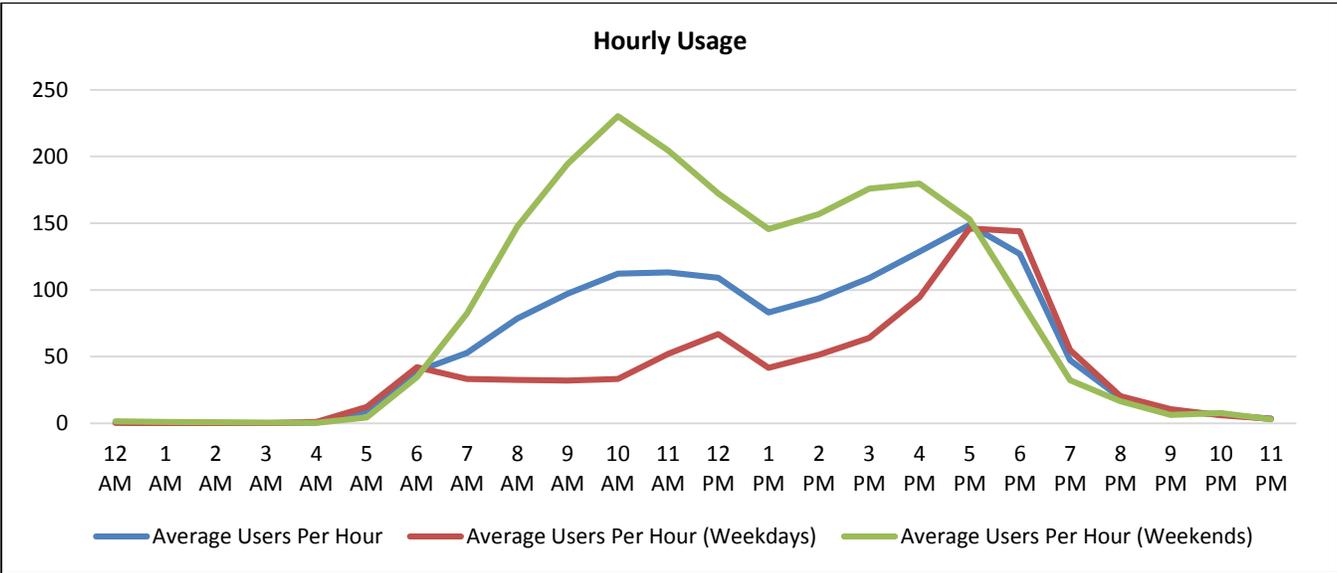
Notes
Counter A reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data on Sunday, February 28, 2016 at approximately 6:00 p.m.

*Weather conditions recorded at KHOU.

**Usage until approximately 6:00 p.m., when Counter A stopped collecting data.



Hourly Usage			
Buffalo Bayou North Bank: Green Tree Nature Area			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.8	0.3	1.5
1:00 a.m.	0.5	0.2	1.0
2:00 a.m.	0.3	0.0	0.8
3:00 a.m.	0.2	0.0	0.5
4:00 a.m.	0.7	1.0	0.3
5:00 a.m.	9.1	12.2	4.5
6:00 a.m.	39.1	42.0	34.8
7:00 a.m.	52.9	33.2	82.5
8:00 a.m.	78.5	32.5	147.5
9:00 a.m.	97.1	32.2	194.5
10:00 a.m.	112.1	33.3	230.3
11:00 a.m.	113.1	52.2	204.5
12:00 p.m.	109.1	67.0	172.3
1:00 p.m.	83.2	41.7	145.5
2:00 p.m.	93.5	51.3	156.8
3:00 p.m.	108.8	64.0	176.0
4:00 p.m.	128.7	94.7	179.8
5:00 p.m.	148.8	146.0	153.0
6:00 p.m.	126.9	143.8	93.0
7:00 p.m.	47.4	55.0	32.3
8:00 p.m.	19.2	20.5	16.7
9:00 p.m.	9.1	10.5	6.3
10:00 p.m.	6.6	6.0	7.7
11:00 p.m.	3.3	3.5	3.0



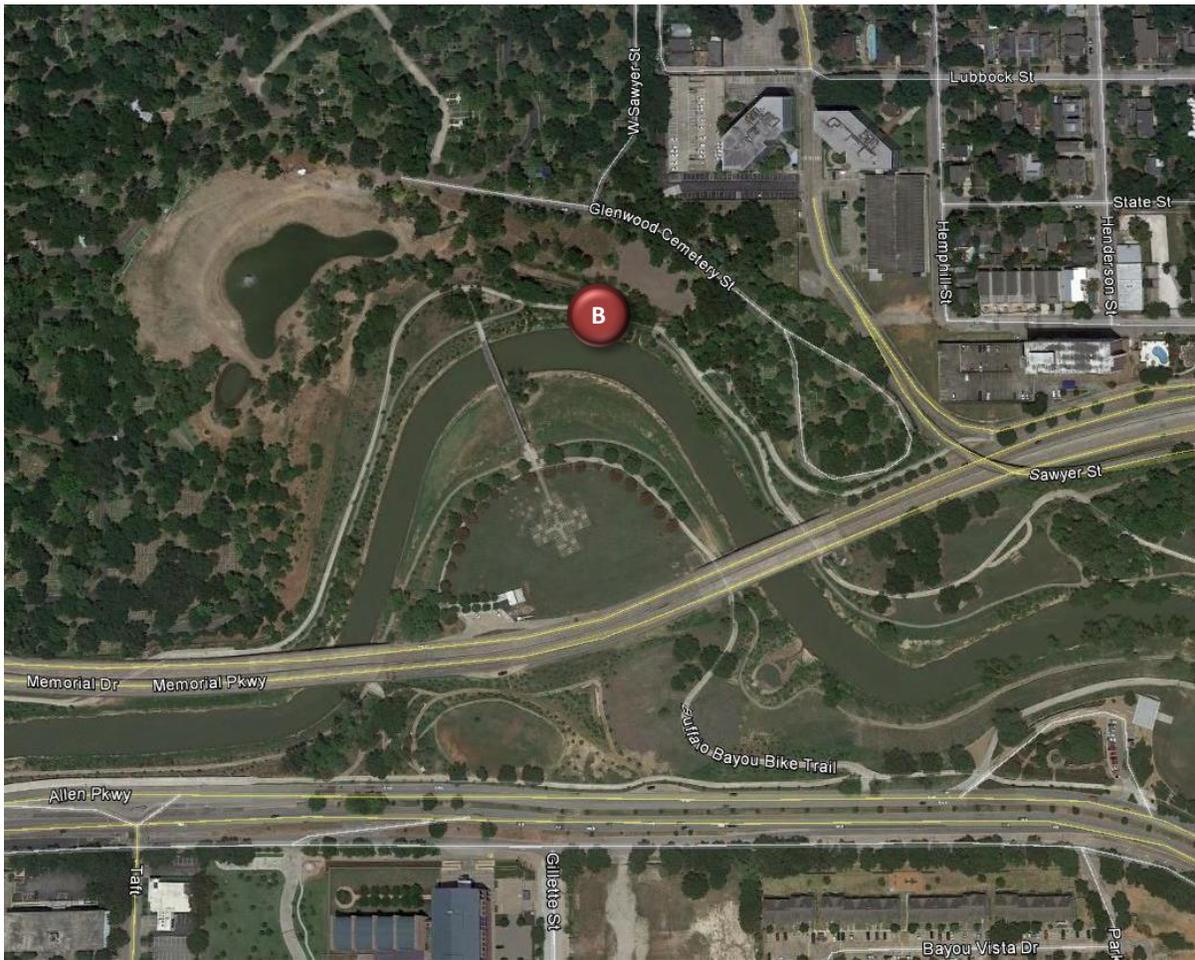
Counter B

Buffalo Bayou North Bank: Police Memorial

Location Information		
Location Name	Buffalo Bayou North Bank: Police Memorial	
Location Description	Shared-Use Path along Buffalo Bayou: North Bank East of Carruth Bridge and West of Glenwood Tributary near Police Memorial	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'50.77"N, 95°22'58.28"W	
Surrounding Land Uses	North	Cemetery, Office, Single-Family Residential
	South	Park
	East	Cemetery, Office, Single-Family Residential, Multi-Family Residential
	West	Park, Cemetery
What object was device secured to?	Sign Post (Bike Route) near Light Post #43	
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	No	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	No (A counter was deployed at this location in September/October 2014, but it malfunctioned and did not collect any data.)	
Notes	Counter B reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data on Saturday, February 27, 2016 at approximately 2:15 p.m.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the late morning (11:00 a.m. – 12:00 p.m.). • Rain seems to impact usage. The two days with significant rain had the least usage (Monday, February 22: 0.67” of rain – 731 users and Tuesday, February 23: 1.13” of rain – 757 users).

Location Information: Map



Location Information: Photos



Image 15: Buffalo Bayou Trail near Police Memorial Facing East



Image 16: Buffalo Bayou Trail near Police Memorial Facing West

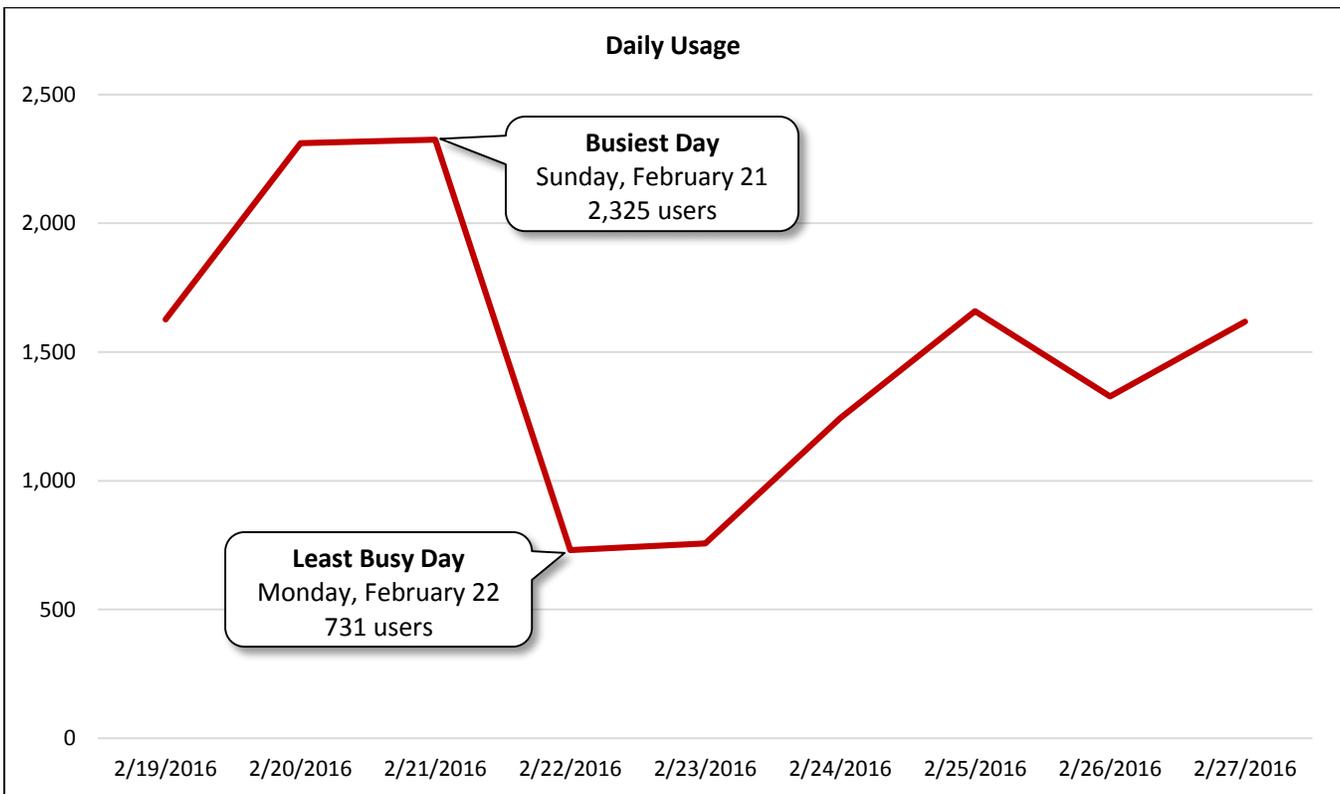
Daily Usage				
Buffalo Bayou North Bank: Police Memorial				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	1,627	81	63	0
Saturday, February 20, 2016	2,311	79	63	0
Sunday, February 21, 2016	2,325	74	63	0
Monday, February 22, 2016	731	68	57	0.67
Tuesday, February 23, 2016	757	73	48	1.13
Wednesday, February 24, 2016	1,244	63	41	T
Thursday, February 25, 2016	1,659	72	40	0
Friday, February 26, 2016	1,327	63	39	0
Saturday, February 27, 2016**	1,618	71	40	0

Total	13,599
Average Daily Usage	1,581
Average Daily Usage (Weekday)	1,224
Average Daily Usage (Weekend)	2,405

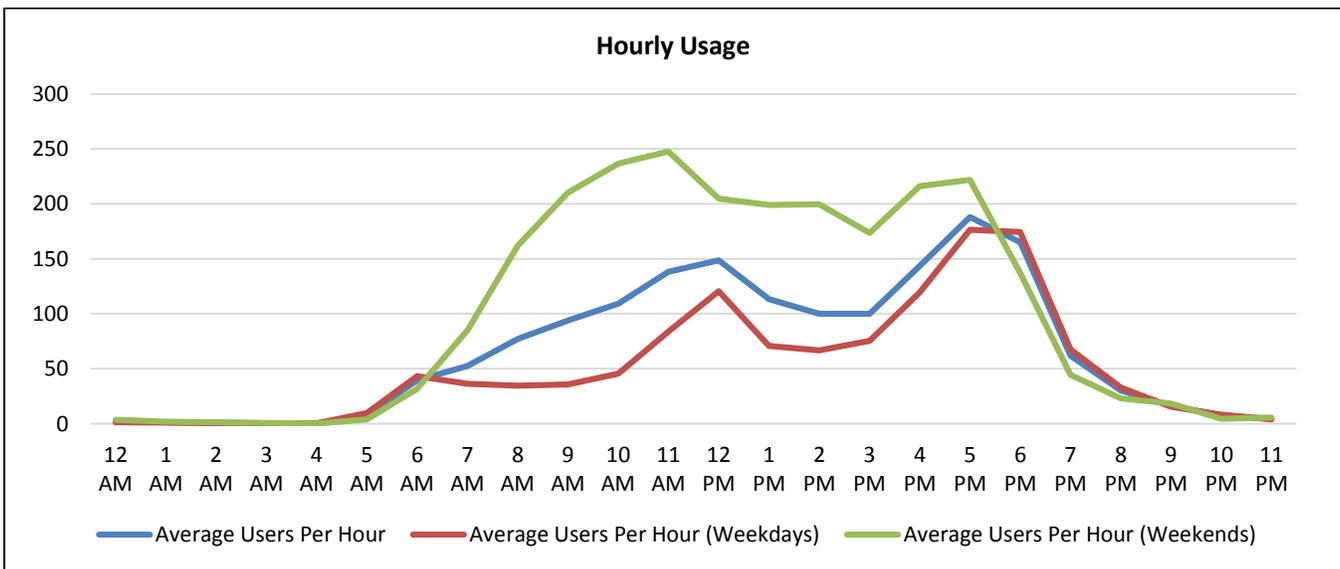
Notes
Counter B reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data on Saturday, February 27, 2016 at approximately 2:15 p.m.

*Weather conditions recorded at KHOU.

**Usage until approximately 2:15 p.m., when Counter B stopped collecting data.



Hourly Usage			
Buffalo Bayou North Bank: Police Memorial			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	2.0	1.2	3.7
1:00 a.m.	1.3	1.0	2.0
2:00 a.m.	0.7	0.3	1.3
3:00 a.m.	0.3	0.2	0.7
4:00 a.m.	0.2	0.3	0.0
5:00 a.m.	7.8	9.7	4.0
6:00 a.m.	39.4	43.3	31.7
7:00 a.m.	52.6	36.3	85.0
8:00 a.m.	77.1	34.7	162.0
9:00 a.m.	94.0	35.8	210.3
10:00 a.m.	109.3	45.7	236.7
11:00 a.m.	138.3	83.7	247.7
12:00 p.m.	148.6	120.5	204.7
1:00 p.m.	113.4	70.7	199.0
2:00 p.m.	100.0	66.8	199.5
3:00 p.m.	99.9	75.3	173.5
4:00 p.m.	143.5	119.3	216.0
5:00 p.m.	187.9	176.5	222.0
6:00 p.m.	165.1	174.5	137.0
7:00 p.m.	61.9	67.7	44.5
8:00 p.m.	30.4	32.8	23.0
9:00 p.m.	16.3	15.5	18.5
10:00 p.m.	7.4	8.3	4.5
11:00 p.m.	4.4	4.0	5.5



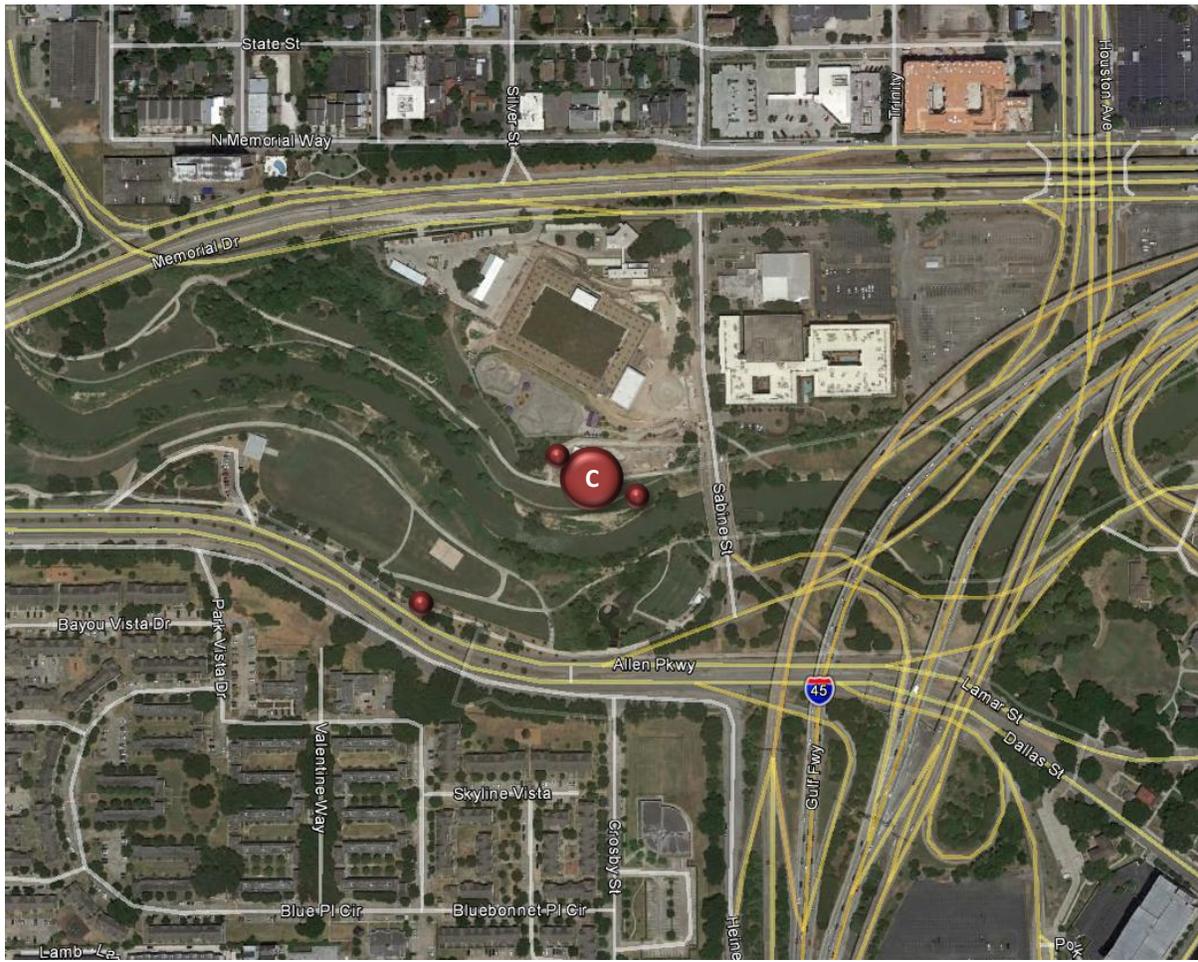
Counter C

Buffalo Bayou North Bank: Nature Play Area (Main Shared-Use Path)

Location Information		
Location Name	Buffalo Bayou North Bank: Nature Play Area (Main Shared-Use Path)	
Location Description	Shared-Use Path along Buffalo Bayou: North Bank adjacent to the Nature Play Area (near Sabine Street)	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'41.47"N, 95°22'35.11"W	
Surrounding Land Uses	North	Park, Institutional (City of Houston/Buffalo Bayou Partnership Maintenance Facilities, Fonde Recreation Center), Multi-Family Residential
	South	Park, Multi-Family Residential
	East	Park, Multi-Family Residential
	West	Park
What object was device secured to?	Light Post #28	
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	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	There is currently a Houston B-cycle bikeshare station about 250' east of Counter C, at the northern end of the Sabine Street Bridge over Buffalo Bayou.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the late afternoon (3:00 p.m. – 4:00 p.m.). • Rain seems to impact usage. The two days with significant rain had the least usage (Monday, February 22: 0.67" of rain – 163 users and Tuesday, February 23: 1.13" of rain – 179 users).

Location Information: Map



Location Information: Photos



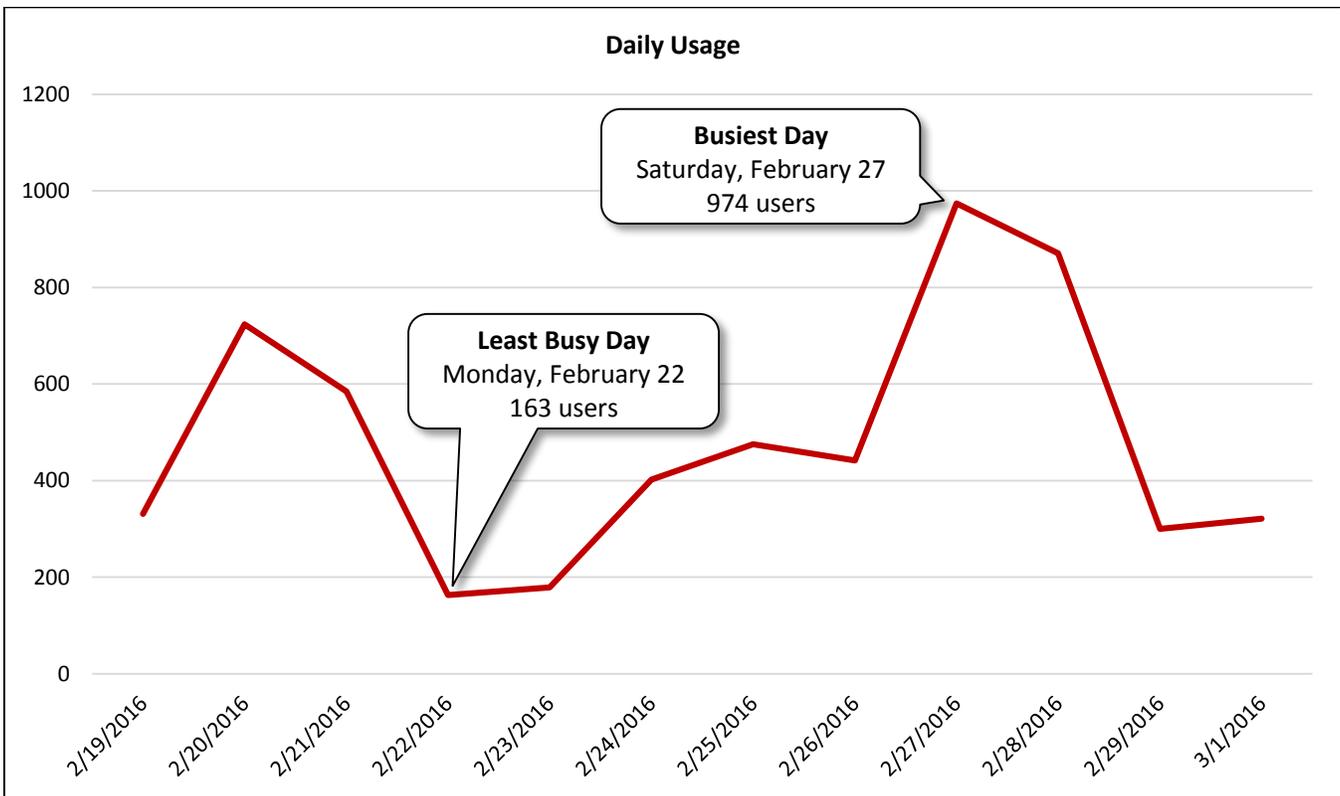
Image 17: Buffalo Bayou Trail near Nature Play Area
Facing East



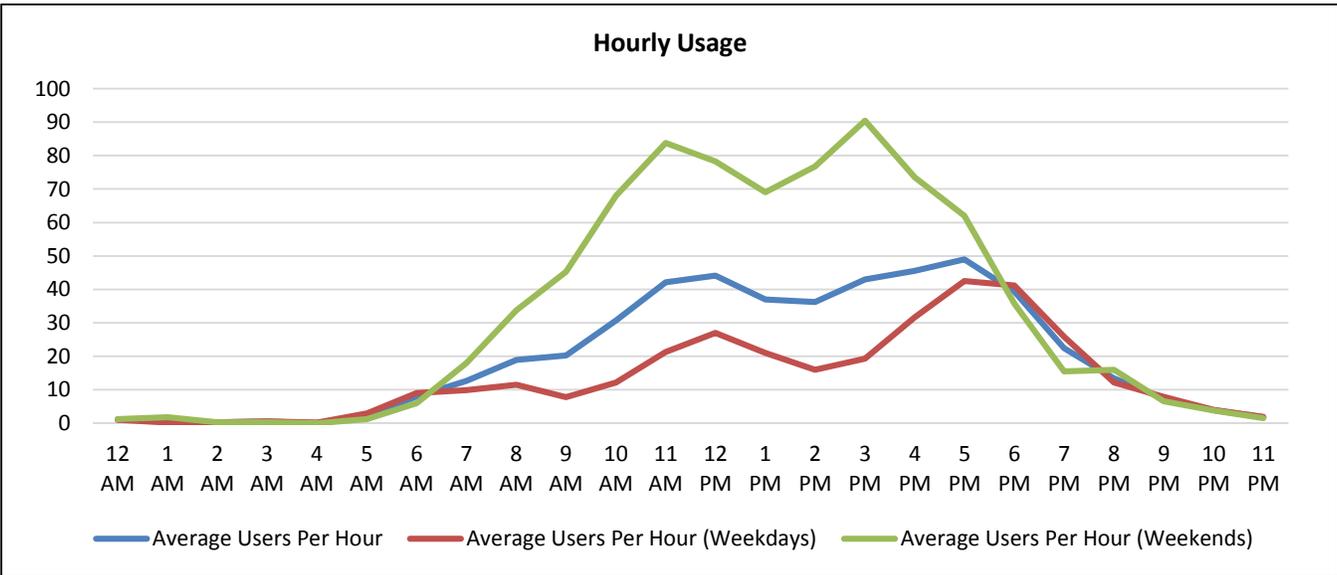
Image 18: Buffalo Bayou Trail near Nature Play Area
Facing West

Daily Usage				
Buffalo Bayou North Bank: Nature Play Area (Main Shared-Use Path)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	331	81	63	0
Saturday, February 20, 2016	724	79	63	0
Sunday, February 21, 2016	585	74	63	0
Monday, February 22, 2016	163	68	57	0.67
Tuesday, February 23, 2016	179	73	48	1.13
Wednesday, February 24, 2016	402	63	41	T
Thursday, February 25, 2016	475	72	40	0
Friday, February 26, 2016	442	63	39	0
Saturday, February 27, 2016	974	71	40	0
Sunday, February 28, 2016	871	74	44	0
Monday, February 29, 2016	300	78	55	0
Tuesday, March 1, 2016	321	78	62	0
Total	5,767			
Average Daily Usage	481			
Average Daily Usage (Weekday)	327			
Average Daily Usage (Weekend)	789			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou North Bank: Nature Play Area (Main Shared-Use Path)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	1.1	1.0	1.3
1:00 a.m.	0.7	0.1	1.8
2:00 a.m.	0.3	0.3	0.3
3:00 a.m.	0.4	0.5	0.3
4:00 a.m.	0.1	0.1	0.0
5:00 a.m.	2.3	2.9	1.3
6:00 a.m.	8.0	9.0	6.0
7:00 a.m.	12.6	9.9	18.0
8:00 a.m.	18.9	11.5	33.8
9:00 a.m.	20.3	7.8	45.3
10:00 a.m.	30.8	12.1	68.0
11:00 a.m.	42.1	21.3	83.8
12:00 p.m.	44.1	27.0	78.3
1:00 p.m.	37.0	21.0	69.0
2:00 p.m.	36.3	16.0	76.8
3:00 p.m.	43.0	19.3	90.5
4:00 p.m.	45.6	31.6	73.5
5:00 p.m.	49.0	42.5	62.0
6:00 p.m.	39.3	41.1	35.8
7:00 p.m.	22.4	25.9	15.5
8:00 p.m.	13.4	12.1	16.0
9:00 p.m.	7.4	7.9	6.5
10:00 p.m.	3.9	4.0	3.8
11:00 p.m.	1.8	1.9	1.5



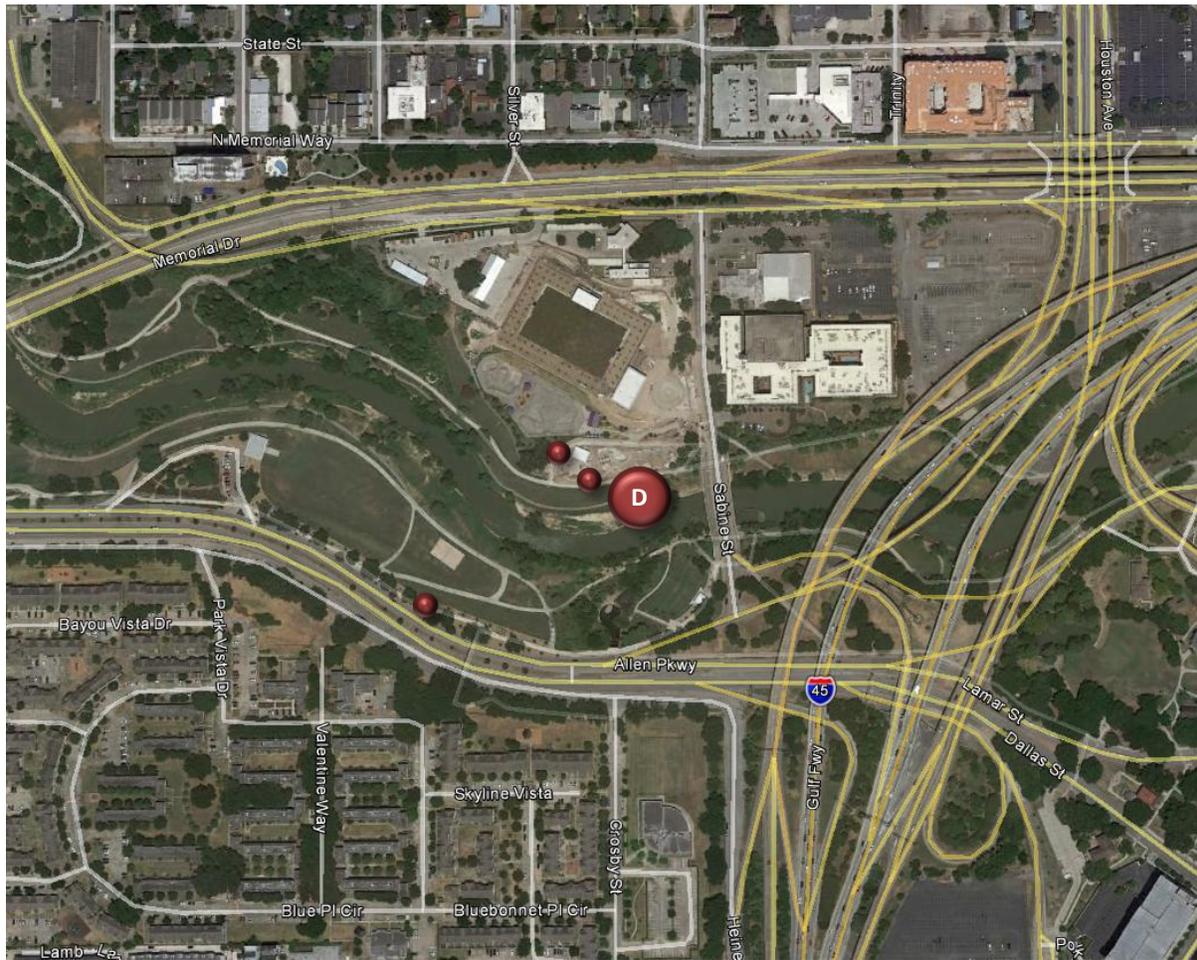
Counter D

Buffalo Bayou North Bank: Nature Play Area (Pedestrian Path)

Location Information		
Location Name	Buffalo Bayou North Bank: Nature Play Area (Pedestrian Path)	
Location Description	Pedestrians-Only Pathway along Buffalo Bayou: North Bank adjacent to the Nature Play Area (near Sabine Street)	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'41.30"N, 95°22'34.03"W	
Surrounding Land Uses	North	Park, Institutional (City of Houston/Buffalo Bayou Partnership Maintenance Facilities, Fonde Recreation Center), Multi-Family Residential
	South	Park, Multi-Family Residential
	East	Park, Multi-Family Residential
	West	Park
What object was device secured to?	Pipe North of Pedestrians-Only Pathway near the Nature Play Area	
Sidewalk Width	5'	
Buffer Width	N/A (Off-Road Pedestrian Pathway)	
Street Width	N/A (Off-Road Pedestrian Pathway)	
Parallel Parking	N/A (Off-Road Pedestrian Pathway)	
Landscaping or Trees	No	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Pedestrian Pathway)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Pedestrian Pathway)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	There is currently a Houston B-cycle bikeshare station about 250' east of Counter D, at the northern end of the Sabine Street Bridge over Buffalo Bayou.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). There is a less pronounced spike in usage midday (12:00 p.m. – 1:00 p.m.). • During weekends, usage peaks in the morning (9:00 a.m. – 10:00 a.m.). There is a less pronounced spike in usage in the evening (5:00 p.m. – 6:00 p.m.). • Rain seems to impact usage. The two days with significant rain had the least usage (Monday, February 22: 0.67" of rain – 179 users and Tuesday, February 23: 1.13" of rain – 193 users).

Location Information: Map



Location Information: Photos



Image 19: Pedestrian Pathway near Nature Play Area Facing East



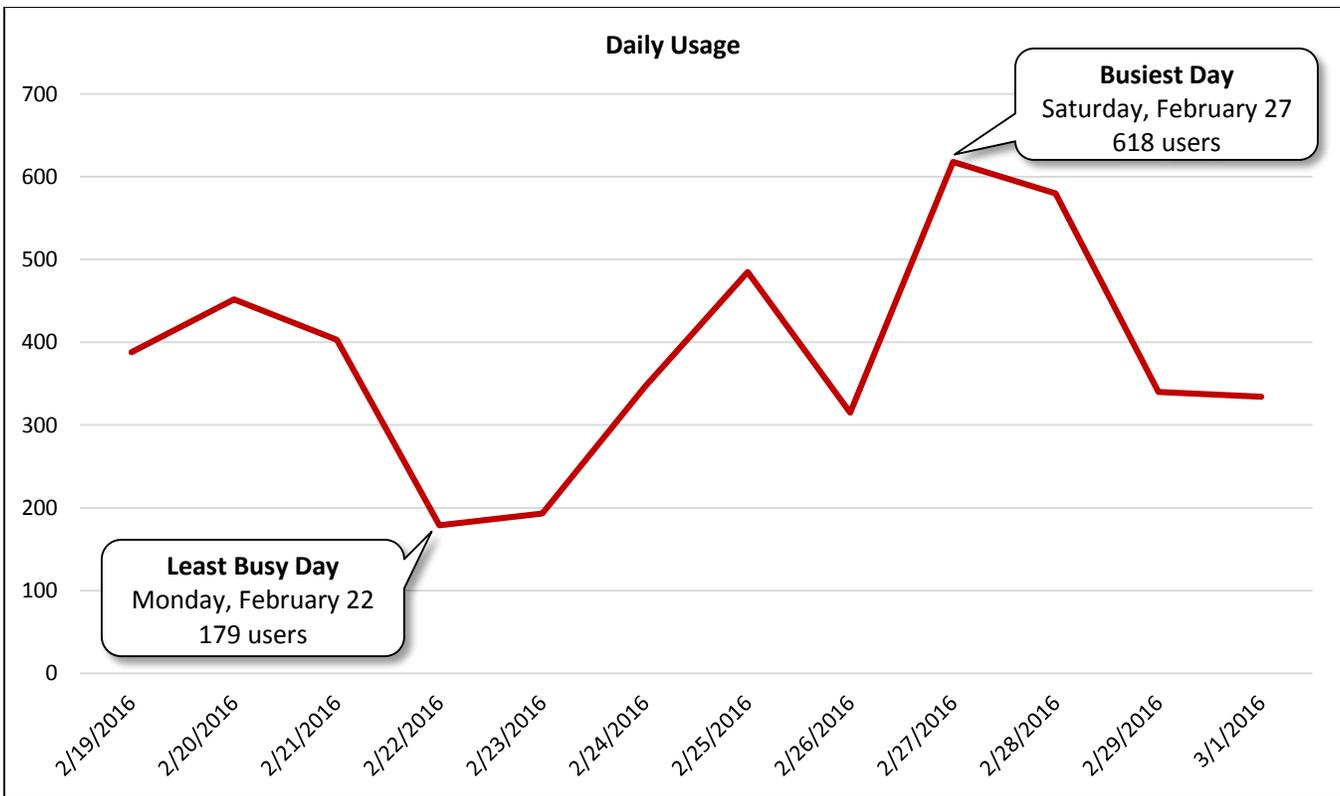
Image 20: Pedestrian Pathway near Nature Play Area Facing West

Daily Usage
Buffalo Bayou North Bank: Nature Play Area (Pedestrian Path)

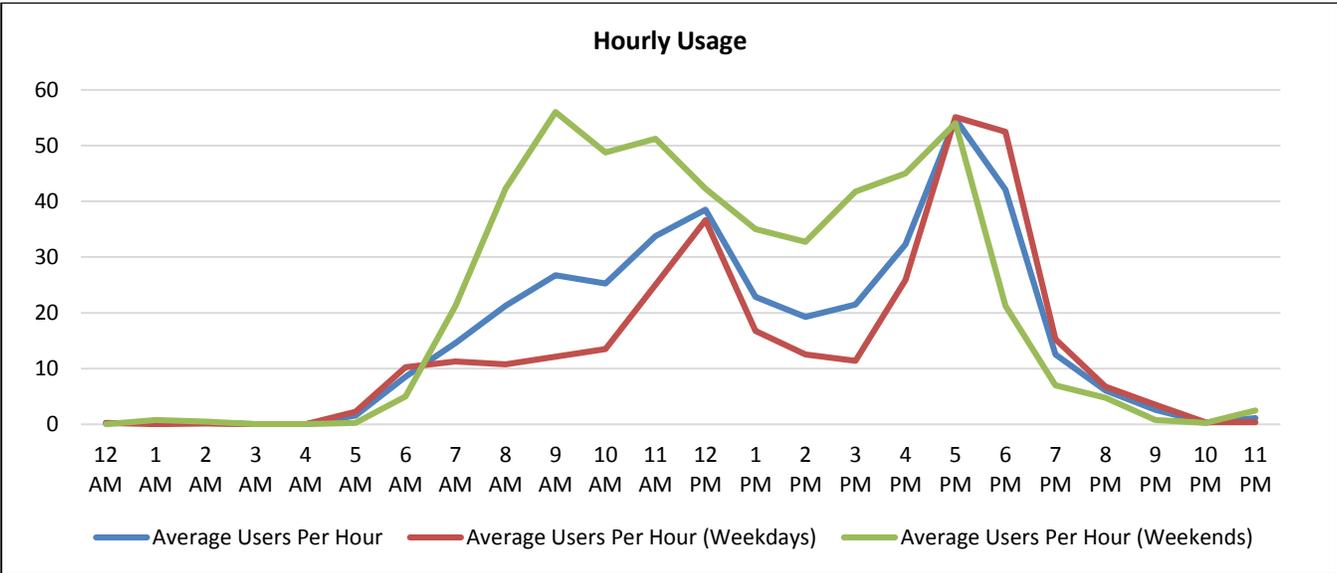
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	388	81	63	0
Saturday, February 20, 2016	452	79	63	0
Sunday, February 21, 2016	403	74	63	0
Monday, February 22, 2016	179	68	57	0.67
Tuesday, February 23, 2016	193	73	48	1.13
Wednesday, February 24, 2016	346	63	41	T
Thursday, February 25, 2016	485	72	40	0
Friday, February 26, 2016	315	63	39	0
Saturday, February 27, 2016	618	71	40	0
Sunday, February 28, 2016	580	74	44	0
Monday, February 29, 2016	340	78	55	0
Tuesday, March 1, 2016	334	78	62	0

Total	4,633
Average Daily Usage	386
Average Daily Usage (Weekday)	323
Average Daily Usage (Weekend)	513

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou North Bank: Nature Play Area (Pedestrian Path)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.2	0.3	0.0
1:00 a.m.	0.3	0.0	0.8
2:00 a.m.	0.3	0.1	0.5
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.0	0.0	0.0
5:00 a.m.	1.6	2.3	0.3
6:00 a.m.	8.5	10.3	5.0
7:00 a.m.	14.6	11.3	21.3
8:00 a.m.	21.3	10.8	42.3
9:00 a.m.	26.8	12.1	56.0
10:00 a.m.	25.3	13.5	48.8
11:00 a.m.	33.8	25.0	51.3
12:00 p.m.	38.5	36.6	42.3
1:00 p.m.	22.8	16.8	35.0
2:00 p.m.	19.3	12.5	32.8
3:00 p.m.	21.5	11.4	41.8
4:00 p.m.	32.3	25.9	45.0
5:00 p.m.	54.8	55.1	54.0
6:00 p.m.	42.1	52.5	21.3
7:00 p.m.	12.5	15.3	7.0
8:00 p.m.	6.1	6.8	4.8
9:00 p.m.	2.6	3.5	0.8
10:00 p.m.	0.3	0.4	0.3
11:00 p.m.	1.1	0.4	2.5



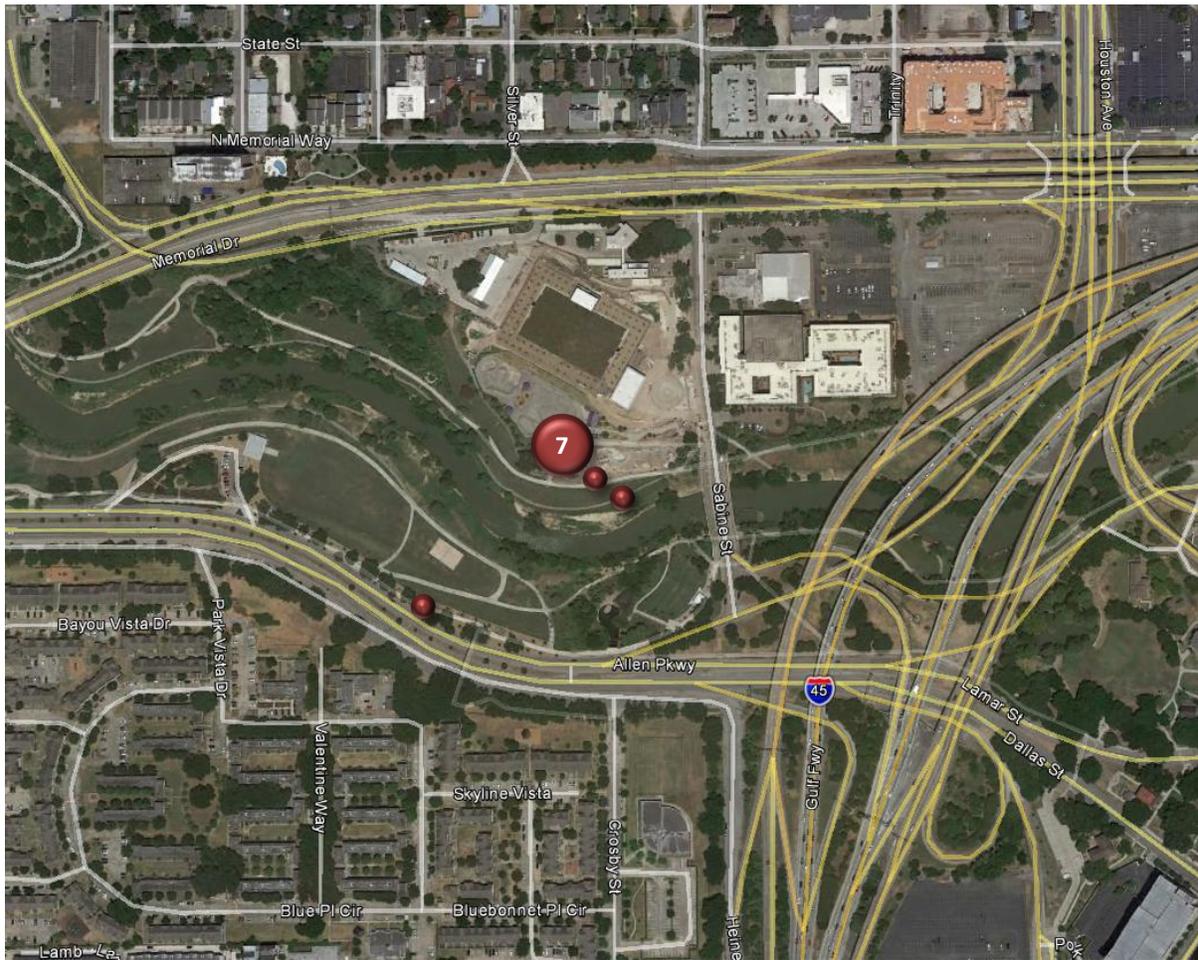
Counter #7

Buffalo Bayou North Bank: Nature Play Area (Sabine Street Access)

Location Information		
Location Name	Buffalo Bayou North Bank: Nature Play Area (Sabine Street Access)	
Location Description	Shared-Use Path adjacent to Nature Play Area Connecting Buffalo Bayou Trail (Main Shared-Use Path) to Sabine Street	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'42.21"N, 95°22'36.31"W	
Surrounding Land Uses	North	Park, Institutional (City of Houston/Buffalo Bayou Partnership Maintenance Facilities, Fonde Recreation Center), Multi-Family Residential
	South	Park, Multi-Family Residential
	East	Park, Multi-Family Residential
	West	Park
What object was device secured to?	Light Post #25 (between Lee and Joe Jamail Skatepark and Nature Play Area)	
Sidewalk Width	12'	
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	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	There is currently a Houston B-cycle bikeshare station about 250' east of Counter #7, at the northern end of the Sabine Street Bridge over Buffalo Bayou.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks midday (12:00 p.m. – 1:00 p.m.). • Rain seems to impact usage. The wettest day (Tuesday, February 23: 1.13" of rain) had the least usage (206 users).

Location Information: Map



Location Information: Photos



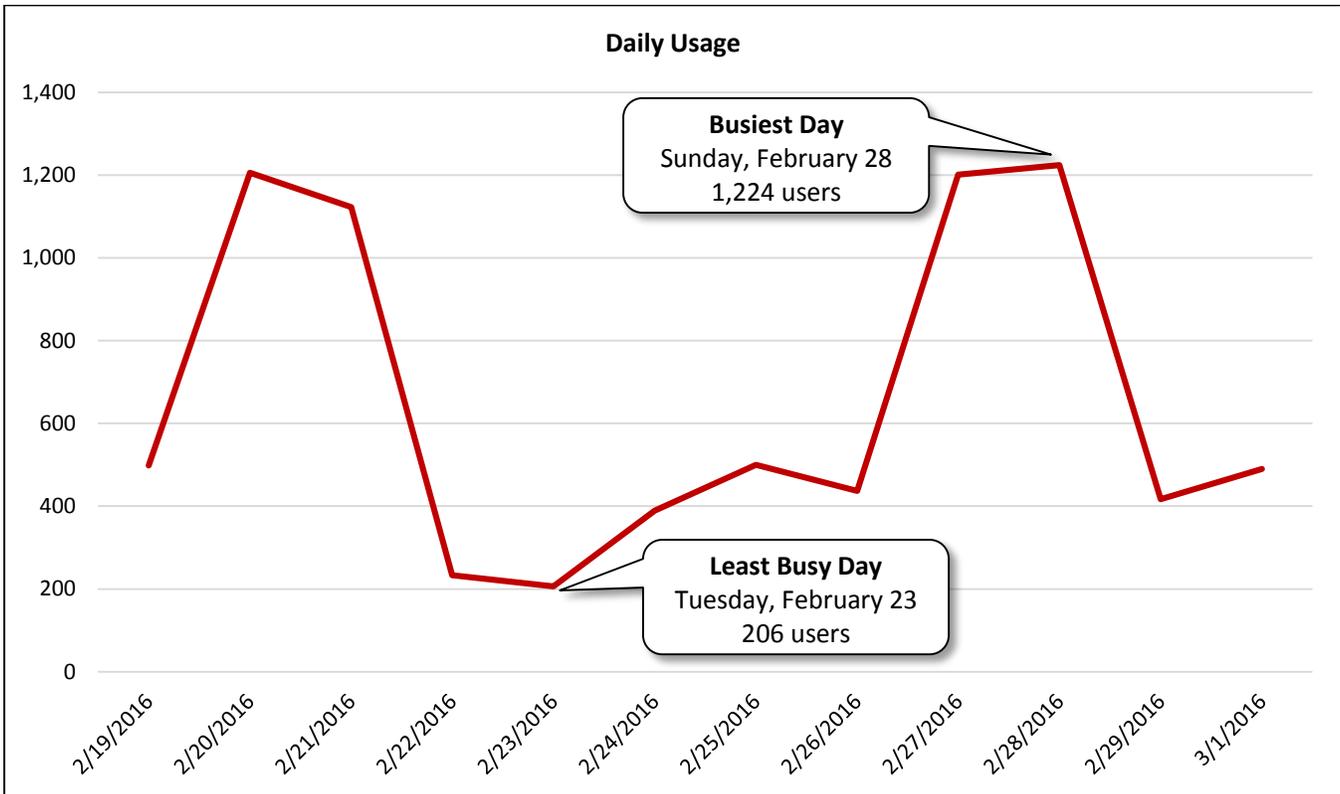
Image 21: Connection to Sabine Street Facing East



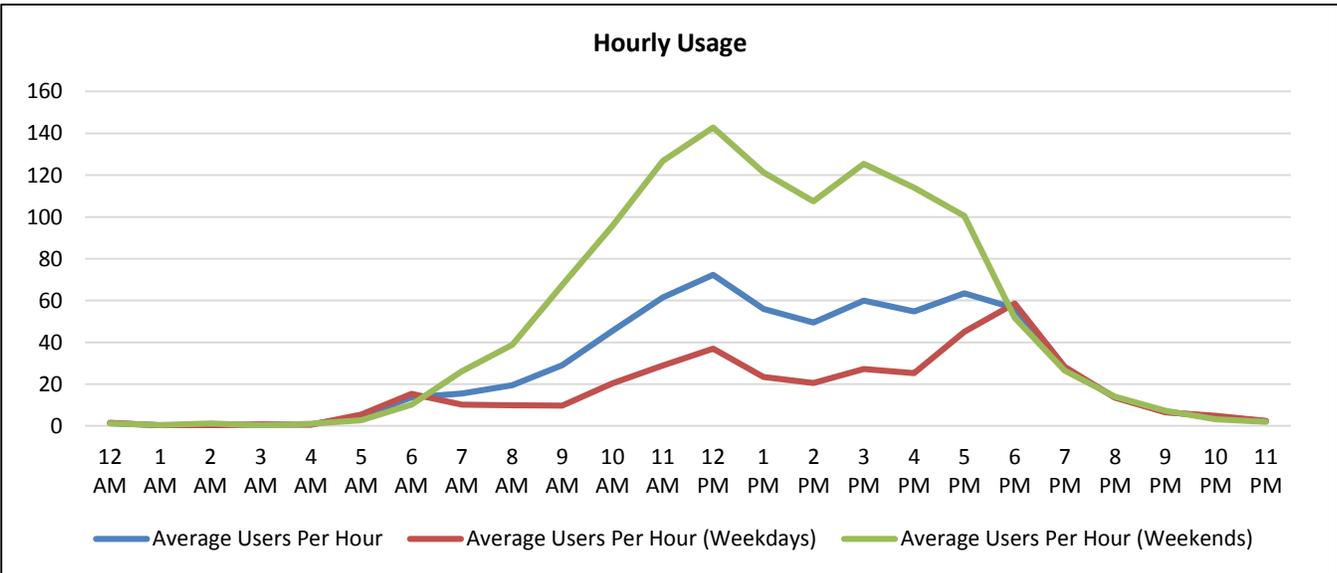
Image 22: Connection to Sabine Street Facing West

Daily Usage				
Buffalo Bayou North Bank: Nature Play Area (Sabine Street Access)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, February 19, 2016	498	81	63	0
Saturday, February 20, 2016	1,206	79	63	0
Sunday, February 21, 2016	1,123	74	63	0
Monday, February 22, 2016	233	68	57	0.67
Tuesday, February 23, 2016	206	73	48	1.13
Wednesday, February 24, 2016	389	63	41	T
Thursday, February 25, 2016	500	72	40	0
Friday, February 26, 2016	437	63	39	0
Saturday, February 27, 2016	1,201	71	40	0
Sunday, February 28, 2016	1,224	74	44	0
Monday, February 29, 2016	417	78	55	0
Tuesday, March 1, 2016	490	78	62	0
Total	7,924			
Average Daily Usage	660			
Average Daily Usage (Weekday)	396			
Average Daily Usage (Weekend)	1,189			

*Weather conditions recorded at KHOU.



Hourly Usage			
Buffalo Bayou North Bank: Nature Play Area (Sabine Street Access)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	1.4	1.5	1.3
1:00 a.m.	0.3	0.3	0.5
2:00 a.m.	0.7	0.4	1.3
3:00 a.m.	0.6	0.8	0.3
4:00 a.m.	0.8	0.6	1.0
5:00 a.m.	4.6	5.5	2.8
6:00 a.m.	13.7	15.4	10.3
7:00 a.m.	15.6	10.3	26.3
8:00 a.m.	19.5	9.9	38.8
9:00 a.m.	29.0	9.8	67.5
10:00 a.m.	45.5	20.4	95.8
11:00 a.m.	61.5	28.9	126.8
12:00 p.m.	72.3	37.0	142.8
1:00 p.m.	56.1	23.5	121.3
2:00 p.m.	49.5	20.5	107.5
3:00 p.m.	60.0	27.3	125.5
4:00 p.m.	54.8	25.3	114.0
5:00 p.m.	63.5	45.0	100.5
6:00 p.m.	56.3	58.6	51.8
7:00 p.m.	27.8	28.4	26.5
8:00 p.m.	13.7	13.5	14.0
9:00 p.m.	6.8	6.5	7.3
10:00 p.m.	4.3	4.9	3.3
11:00 p.m.	2.3	2.4	2.0



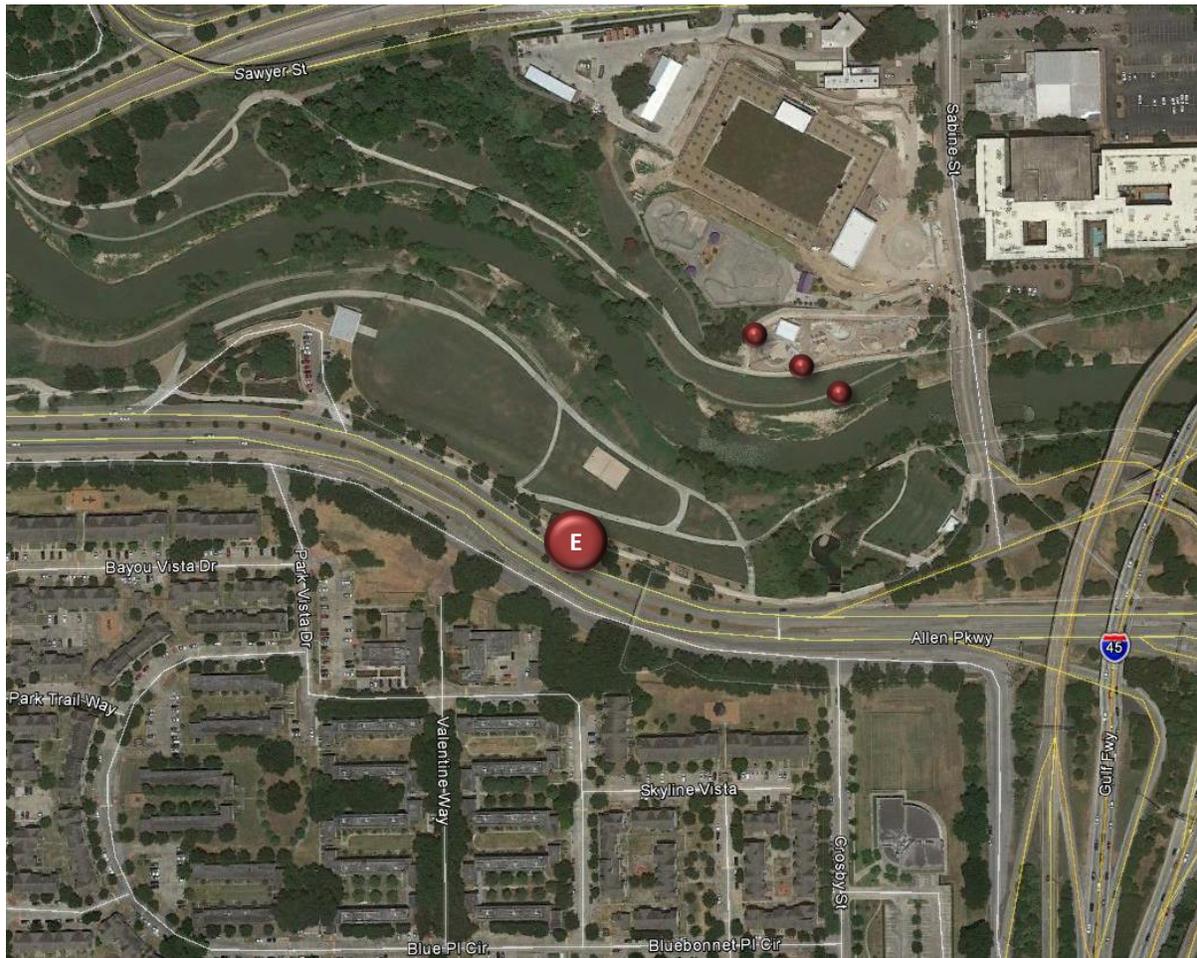
Counter E

Buffalo Bayou South Bank: Eleanor Tinsley Park

Location Information		
Location Name	Buffalo Bayou South Bank: Eleanor Tinsley Park	
Location Description	Shared-use path along Allen Parkway adjacent to Eleanor Tinsley Park, just west of the pedestrian bridge that crosses Allen Parkway.	
Jurisdiction	City of Houston	
Agency Deployed	Buffalo Bayou Partnership, Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'38.27"N, 95°22'40.76"W	
Surrounding Land Uses	North	Park, Institutional (City of Houston/Buffalo Bayou Partnership Maintenance Facilities, Fonde Rec. Center), Multi-Family Resid.
	South	Multi-Family Residential
	East	Park, Multi-Family Residential
	West	Park, Multi-Family Residential
What object was device secured to?	Light Post between Allen Parkway and Shared-Use Path	
Sidewalk Width	10'	
Buffer Width	10'	
Street Width	9 lanes (6 main lanes + 3 lanes on frontage road on opposite side) (Note: Allen Parkway was under construction during the deployment period.)	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	40 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	41,804 (1800 Allen Parkway: City of Houston 2013)	
Transit	No	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	Yes (September/October 2014)	
Notes	Counter E reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data on Saturday, February 27, 2016 at approximately 7:15 p.m.	

Trends
<ul style="list-style-type: none"> • Usage tends to be much higher during weekends than on weekdays. • On weekdays, usage peaks in the evening (5:00 p.m. – 7:00 p.m.). • During weekends, usage peaks in the late morning (10:00 a.m. – 11:00 a.m.). Usage may be skewed by abnormally high usage on Saturday, February 27, when 1,246 people passed the counter between 10:00 a.m. and 11:00 a.m. Allen Parkway was closed that day for the ConocoPhillips Rodeo Run and Rodeo Parade. • Rain seems to impact usage. The two days with significant rain had the least usage (Monday, February 22: 0.67” of rain – 602 users and Tuesday, February 23: 1.13” of rain – 634 users).

Location Information: Map



Location Information: Photos

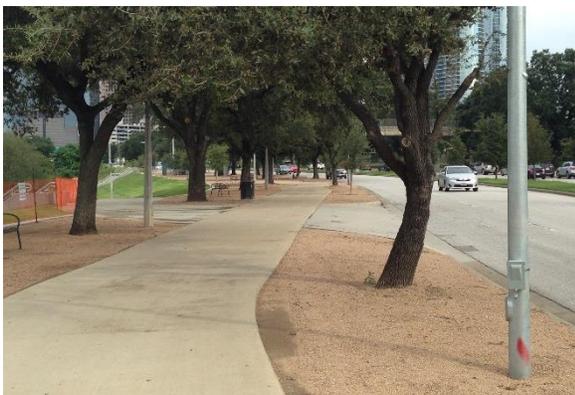


Image 23: Shared-Use Path near Eleanor Tinsley Park Facing East (Photo from Previous Deployment)



Image 24: Shared-Use Path near Eleanor Tinsley Park Facing West (Photo from Previous Deployment)

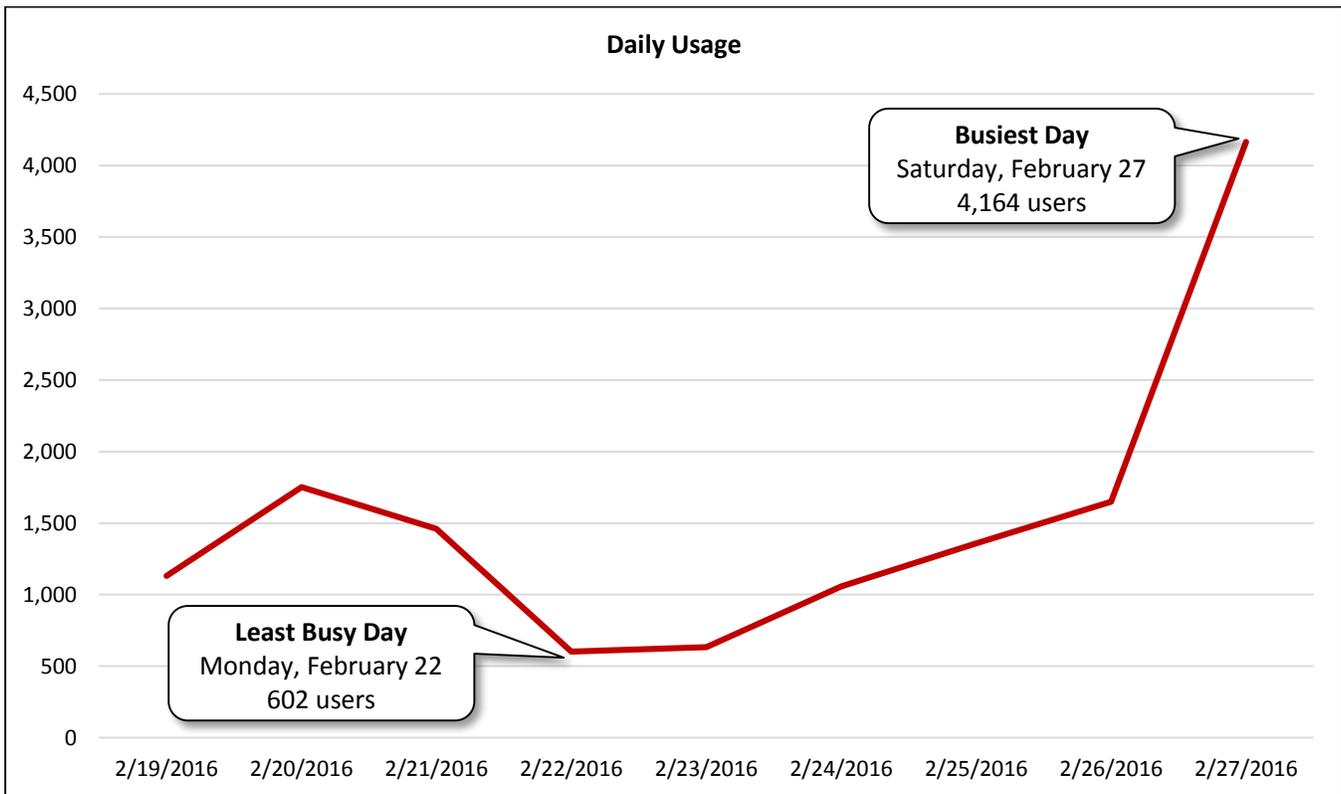
Daily Usage					
Buffalo Bayou South Bank: Eleanor Tinsley Park					
Date	Users	Select Weather Data*			
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)	
Friday, February 19, 2016	1,131	81	63	0	
Saturday, February 20, 2016	1,752	79	63	0	
Sunday, February 21, 2016	1,460	74	63	0	
Monday, February 22, 2016	602	68	57	0.67	
Tuesday, February 23, 2016	634	73	48	1.13	
Wednesday, February 24, 2016	1,057	63	41	T	
Thursday, February 25, 2016	1,357	72	40	0	
Friday, February 26, 2016	1,650	63	39	0	
Saturday, February 27, 2016**	4,164	71	40	0	

Total	13,807
Average Daily Usage	1,569
Average Daily Usage (Weekday)	1,072
Average Daily Usage (Weekend)	2,634

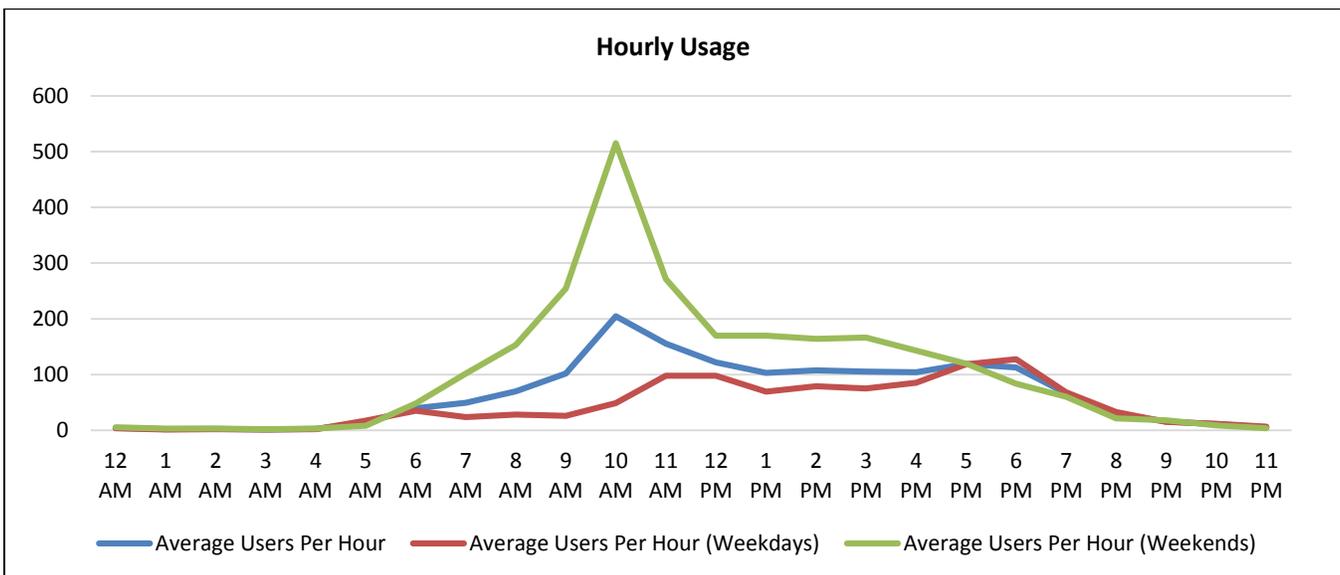
Notes	
Counter E reached maximum storage capacity (approximately 14,000 counts) and stopped collecting data on Saturday, February 27, 2016 at approximately 7:15 p.m.	

*Weather conditions recorded at KHOU.

**Usage until approximately 7:15 p.m., when Counter E stopped collecting data.

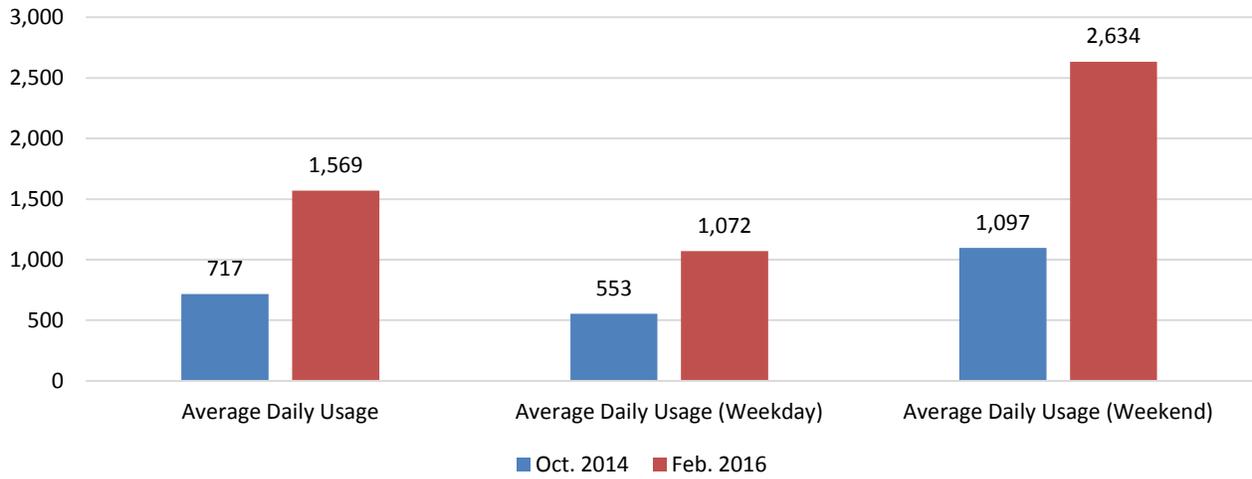


Hourly Usage			
Buffalo Bayou South Bank: Eleanor Tinsley Park			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	4.1	3.5	5.3
1:00 a.m.	1.8	1.2	3.0
2:00 a.m.	2.4	2.0	3.3
3:00 a.m.	1.4	1.3	1.7
4:00 a.m.	2.3	1.8	3.3
5:00 a.m.	14.1	17.2	8.0
6:00 a.m.	39.3	35.0	48.0
7:00 a.m.	49.4	23.3	101.7
8:00 a.m.	69.8	28.2	153.0
9:00 a.m.	101.8	25.7	254.0
10:00 a.m.	204.4	49.0	515.3
11:00 a.m.	155.6	97.7	271.3
12:00 p.m.	121.7	97.7	169.7
1:00 p.m.	102.8	69.2	170.0
2:00 p.m.	107.6	79.2	164.3
3:00 p.m.	105.4	75.0	166.3
4:00 p.m.	104.2	85.0	142.7
5:00 p.m.	118.9	118.5	119.7
6:00 p.m.	112.9	127.7	83.3
7:00 p.m.	66.3	68.3	60.0
8:00 p.m.	29.8	32.5	21.5
9:00 p.m.	15.6	14.8	18.0
10:00 p.m.	11.1	11.8	9.0
11:00 p.m.	5.6	6.3	3.5

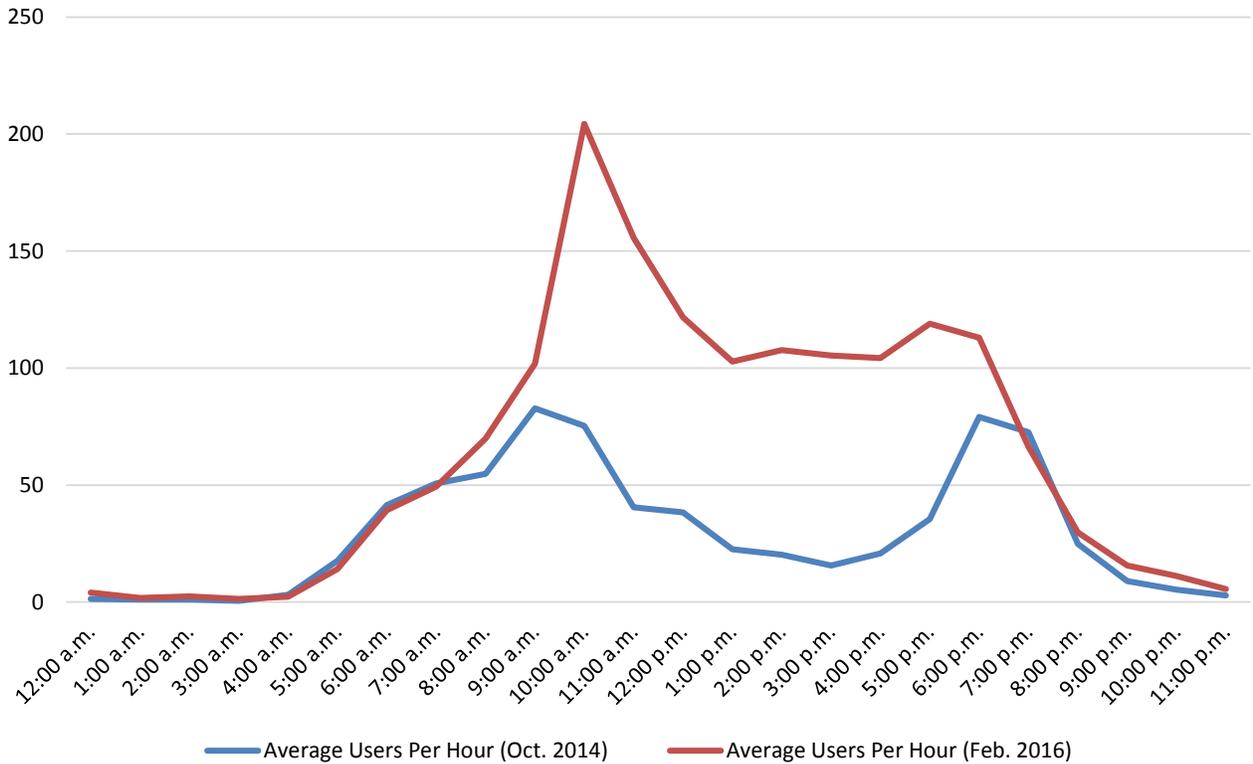


Historical Comparison

Comparison: Daily Usage



Comparison: Hourly Usage



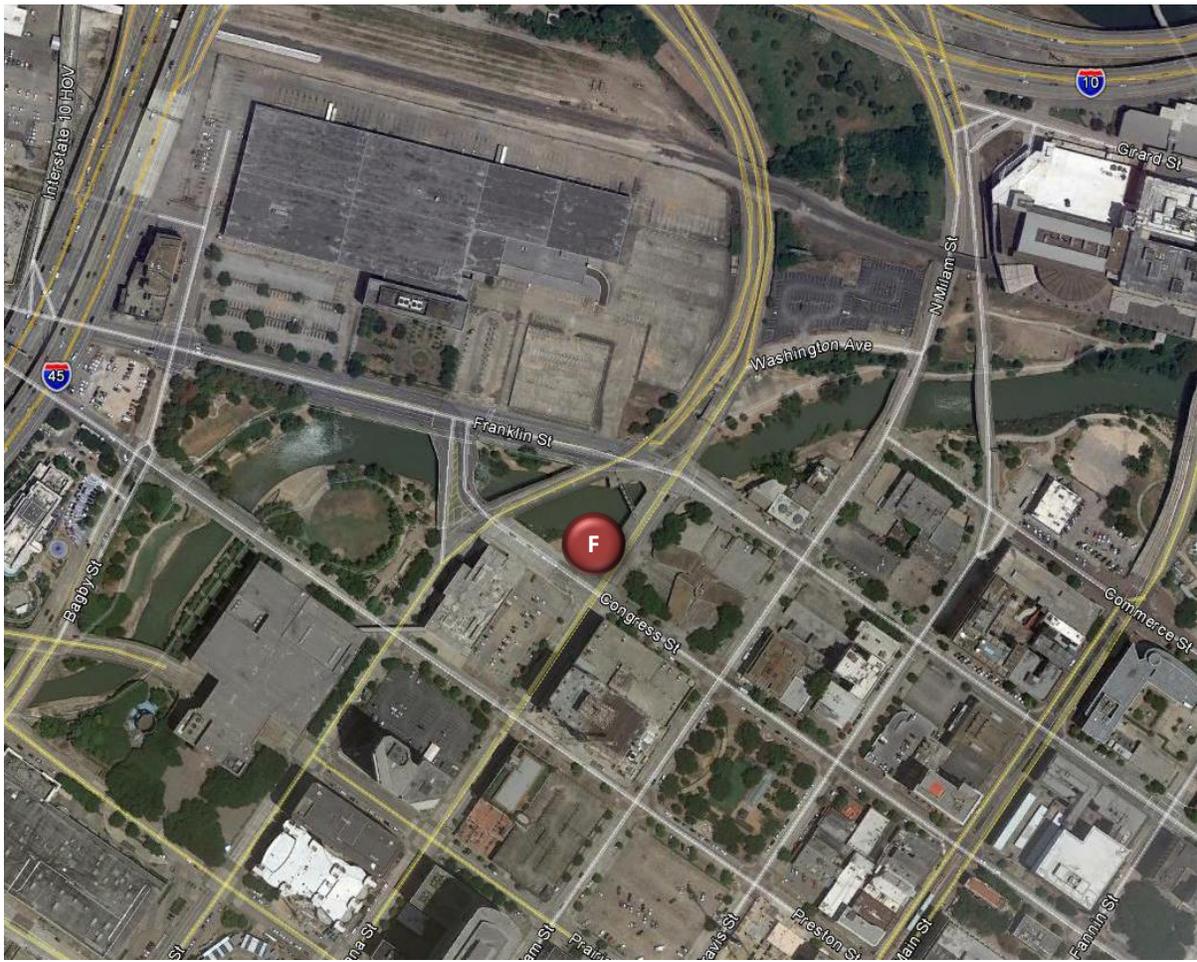
Counter F

Buffalo Bayou South Bank: Sesquicentennial Park

Location Information		
Location Name	Buffalo Bayou South Bank: Sesquicentennial Park	
Location Description	Shared-Use Path along Buffalo Bayou: South Bank East of Sesquicentennial Park near Louisiana Street/Congress Street Intersection (TIGER-Funded Project)	
Jurisdiction	City of Houston	
Agency Deployed	Houston-Galveston Area Council, Texas Transportation Institute	
GPS Coordinates	29°45'50.63"N, 95°21'47.80"W	
Surrounding Land Uses	North	Vacant (Former U.S. Post Office)
	South	Office, Commercial/Retail
	East	Commercial/Retail, Park (Market Square
	West	Park (Sesquicentennial Park), Institutional (Houston Ballet and The Wortham Center)
What object was device secured to?	Light Post East of Stairs to Louisiana Street/Congress Street Intersection	
Sidewalk Width	11'	
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 (Some Cones/Caution Tape Nearby on Part of Shared-Use Path near Buffalo Bayou due to Bank Failure)	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	Yes	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Yes (Several METRO bus stops are nearby. The closest is approximately 110' southeast at Louisiana Street/Congress St. intersection.)	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	No	
Notes	Counter F was vandalized and stolen during the deployment period, so no data was retrieved.	

Trends
Counter F was vandalized and stolen during the deployment period, so no data was retrieved.

Location Information: Map



Location Information: Photos



Image 23: Buffalo Bayou Trail East of Sesquicentennial Park Facing East

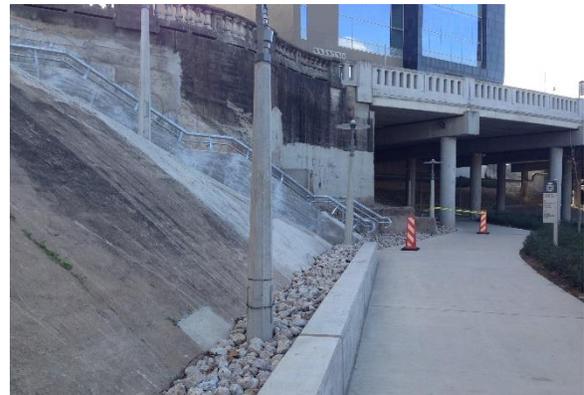


Image 24: Buffalo Bayou Trail East of Sesquicentennial Park Facing West

Participants

Buffalo Bayou Partnership
www.buffalobayou.org

Houston-Galveston Area Council: Pedestrian-Bicyclist Planning
www.h-gac.com/go/pedbike

Texas Transportation Institute
<http://tti.tamu.edu/>