



PARK SECTOR 19 SUMMARY

PARK SECTOR 19 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and TPL ParkScore™), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Develop Neighborhood connections to parks and trails
2. Revitalize existing parks
3. Develop new park facilities
4. Develop partnerships with the school system and other entities
5. Acquire new parkland
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

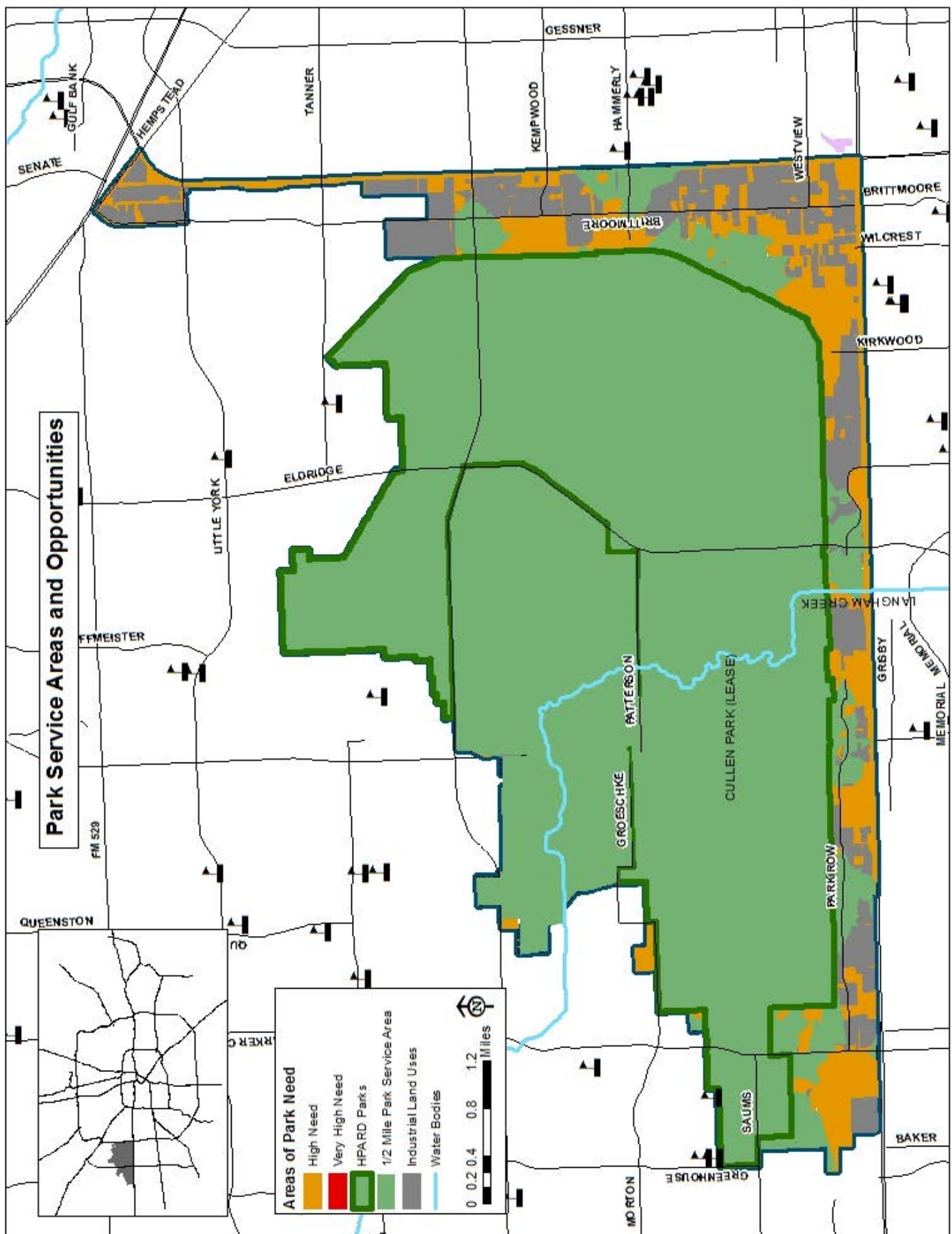
There is only one park, Cullen Park, in this Park Sector. There is no need for additional parkland in this Park Sector based on the current population. However, additional connections for accessibility to Cullen Park from the neighboring residential areas are necessary. There are 13 miles of trails in Park Sector 19. With the extension of Terry Hershey trail north of I-10 and the trail to Cullen Park there are more opportunities for connectivity and additional trails around the Reservoir. The West Houston Trails Master Plan identified the need for several trail connections on the western portion of Cullen Park where some of the amenities of Cullen Park are located, as well as along South Mayde Creek and Langham Creek.

Existing equipment at Cullen Park should be targeted for renovation or replacement, such as the sprayground and playgrounds. This Park Sector is deficient in outdoor basketball courts, volleyball courts, community centers, and swimming pools.

In the 2014 survey, the top three priorities of residents in Park Sector 19 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and amphitheater/performing arts space. Other services and amenities that residents asked for in the write-in portion of the survey were: teen enrichment and volunteer programs, youth nature programs, fitness programs, adult tennis programs, archery programs, fishing activities, dance or theater programs, disc or frisbee golf, and senior programming. Over 36% of the population is obese compared to 30.1% for the City of Houston. Based on this health profile, partnerships focused on increasing physical activity levels and programming that promote healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector





EXISTING COMMUNITY CENTERS AND POOLS

Facility Name	Address	Street	Total Acres	Trail Length
Regional Parks				
Cullen Park (Lease)	19008/ 18203	Saums/Groeschke	9,269.82	*7.30
Old Katy Hike and Bike Trail				2.30
Total HPARD Regional Park Acreage			9,269.82	
Total HPARD Trail Length				9.60

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county).

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than \$35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Roughly 10% of this Park Sector is not served by a park, which is dramatically lower than that of the entire city (55%).

PARK SECTOR FACTS

- This Park Sector contains 12,350 acres of parkland (Harris County, HPARD & other providers). Of the 17,969 acres in this Park Sector, 69% of this acreage is parkland.
- There are roughly 15,000 residents.
- No need for additional parkland is identified in this Park Sector
- H-GAC population projections estimate that this area will add over 15,000 residents by 2040.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	7	14	13	2	2	1	1	1	1	1	1	16	4	33
2015 Existing	7	14	13	1	2	0	1	1	0	0	1	16	4	33
2015 Needed	-	-	-	1	-	1	-	-	1	1	-	-	-	-
2040 Needed	-	-	-	1	-	1	-	-	1	-	-	-	-	-



GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. **Cost of New System Amenities:** This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. **Cost of Park Land:** This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. **Cost of HPARD Amenity Renovation:** The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. **Annual Operation & Maintenance:** This figure is based on the national average for parks and recreation operational spending amount (\$63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent \$29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	\$5,000,000	0 Acres- \$0	\$5,500,000	\$1,000,000
2040	\$7,500,000	0 Acres- \$0	\$15,000,000	\$1,000,000
TOTAL 2040	\$12,500,000	0 Acres- \$0	\$20,500,000	\$2,000,000

PARK SECTOR PROFILE 19

LOCATION AND POLITICAL BOUNDARIES

Park Sector 19 is located north of I-10, west of Beltway 8, and southwest of 290.

Park Sector Size: 17,969 acres or 28 square miles

Population: 14,722 people, Density: 526 persons/sq. mi., excluding Addicks Reservoir (Cullen & George Bush Parks) the density is 736 persons/sq.mi.

Political Boundaries within Park Sector 19:

- Council District: A
- Super neighborhoods contained in this Park Sector: Addicks Park Ten, Spring Branch West, Westbranch, Memorial, and Carverdale
- TIRZ: N/A
- Management Districts: Energy Corridor, Spring Branch

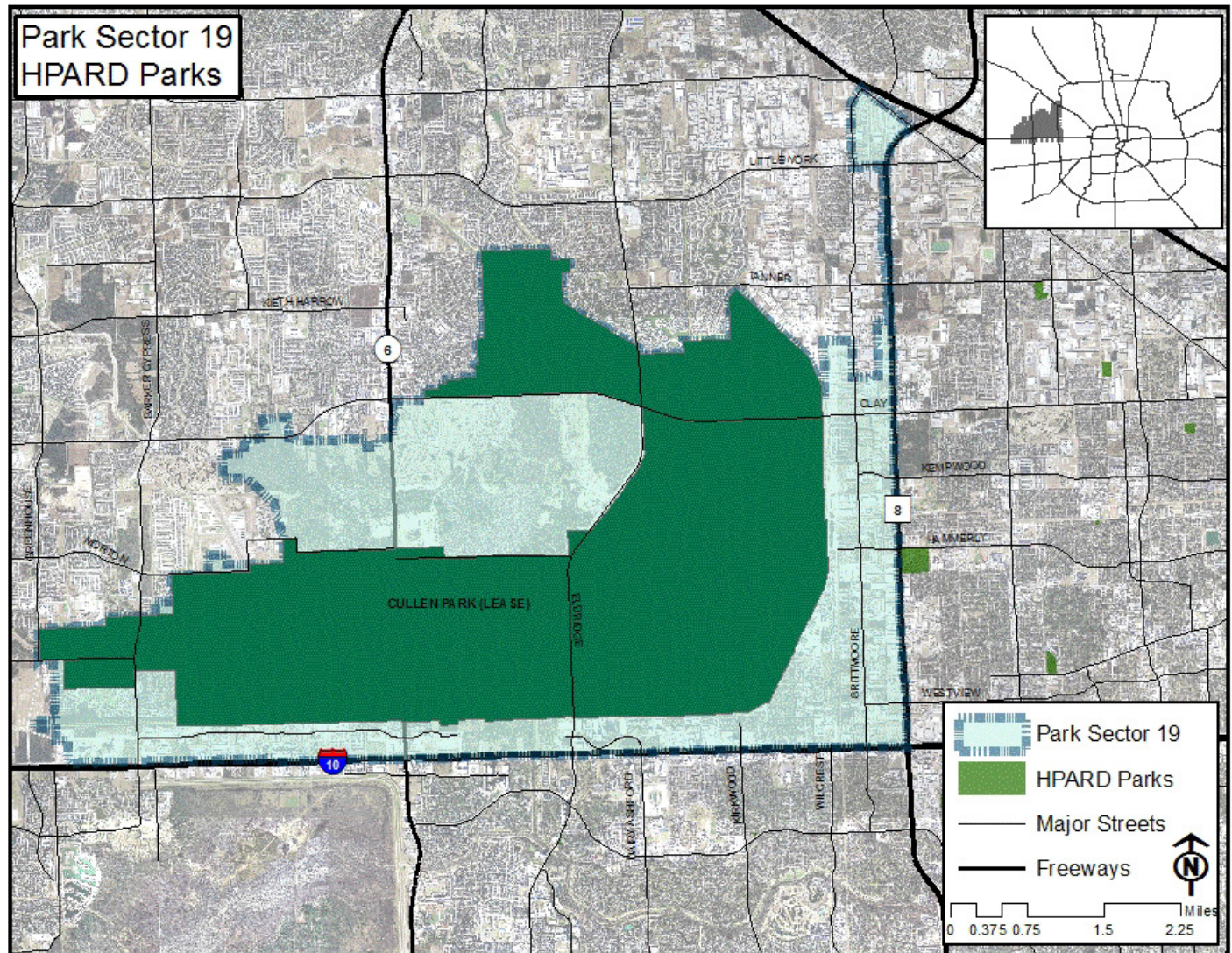


FIGURE 1. PARK SECTOR 19 BOUNDARY AND HPARD PARKS



DEMOGRAPHIC PROFILE

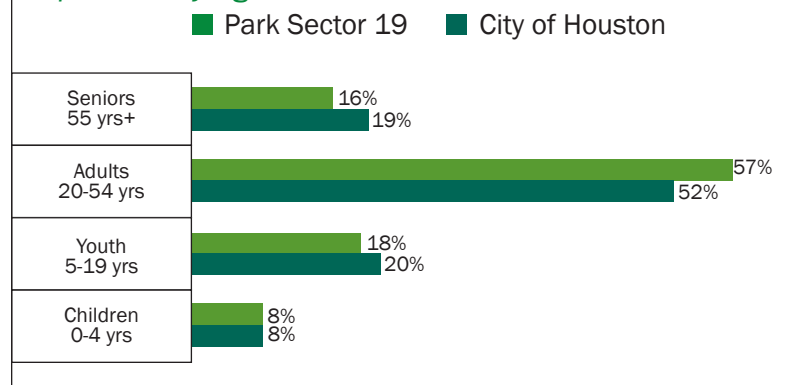
Ethnicity

	Park Sector 19 Population	Park Sector 19 Percent of Total	Houston Population	Houston Percent of Total
Total Population	14,722	-	2,119,831	-
Hispanic or Latino	5,735	39.0%	919,668	43.8%
Non-Hispanic White	5,352	36.4%	537,901	25.6%
Non-Hispanic Black	1,920	13.0%	485,956	23.1%
Non-Hispanic American-Indian	24	0.2%	126,098	6.1%
Non-Hispanic Asian	1,411	9.6%		
Non-Hispanic Hawaiian or Pacific Islander	14	0.1%		
Non-Hispanic Some Other Race	266	1.8%	26,828	1.3%

TABLE 1. PARK SECTOR 19 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 0.7% of the population of Houston; this low population is due to the majority of the Park Sector being comprised of parkland. The majority (39.0%) of residents are Hispanic/Latinos, followed by, Non-Hispanic Whites (36.4%), Non-Hispanic Blacks (13.0%), and Non-Hispanic Asians (9.6%). The majority of the population lives in the areas south and southeast of Cullen Park.

Population by Age



The age profile for this Park Sector shows that the percent of population under 19 is slightly lower (26%) than that of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that the percent of adults 20-54 yrs (57%) is higher than the rest of the City of Houston (52%). The percentage of adults 55+ years is lower (16%) than the rest of the City of Houston (19%). However, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 19 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

Program Group	Age Groups	PS 19 Population	PS 19 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	1,233	8%	8%	166,066	8%	8%
Youth	5-9 yrs	1,042	7%	18%	148,843	7%	21%
	10-14 yrs	879	6%		135,622	7%	
	15-19 yrs	895	6%		140,673	7%	
Adults	20-34 yrs	4,558	30%	57%	539,348	26%	52%
	35-44 yrs	2,103	14%		286,117	14%	
	45-54 yrs	2,053	13%		265,060	13%	
Senior	55-64 yrs	1,437	9%	16%	204,852	10%	19%
	65 yrs +	1,083	7%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 19 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 7,102 housing units in this Park Sector. The percent of vacant housing in Park Sector 19 (12.5%) is similar to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (26.9%) is much lower higher than that of the City of Houston (39.7%); conversely, the share of renters (60.1%) is much higher than the city's as a whole (47.1%).

Income

The median household income for this Park Sector (\$45,457) is similar to that of the City of Houston (\$48,322).

Educational Attainment

Within Park Sector 19 the percent (39%) of individual 25+ years of age with an Associate or a Bachelors degree or above is higher than the relative percent for the entire City of Houston (32%). Conversely, the percentage of those within this park Park Sector without a high school degree (12%) is significantly lower than the same population for the City of Houston (25%).

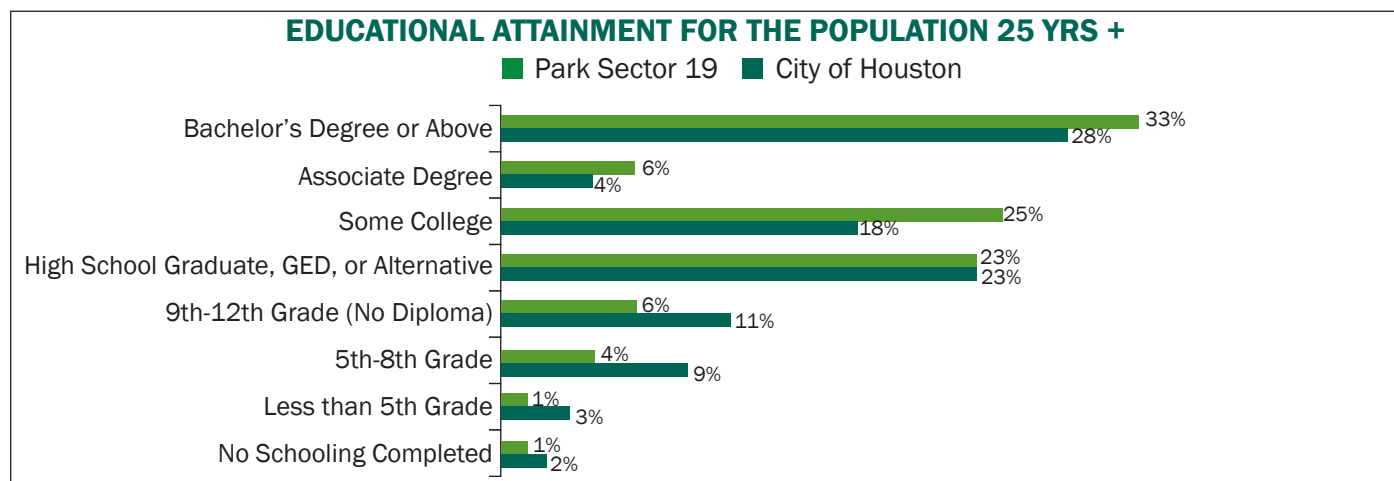


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 36.2% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that only 2.4% of the adult population received a diagnosis of diabetes by a professional, which is much lower than the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 41% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is much higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 10.8% of the population does not engage in moderate physical activity at all, which is about half of the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

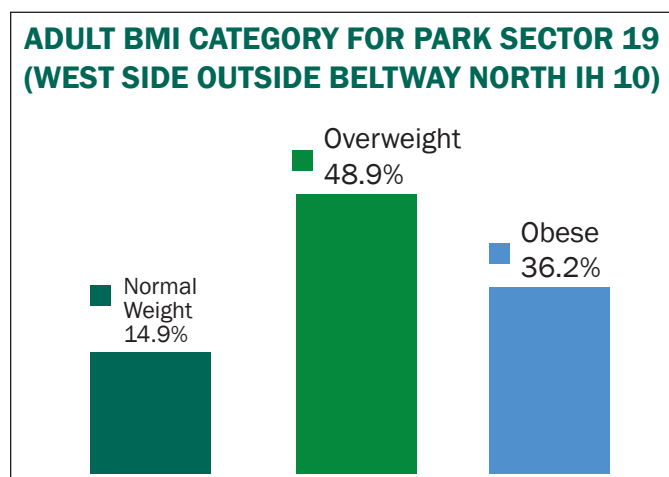


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	10.80
1	2.30
2	26.70
3	18.10
4	0.80
5	2.50
6	0.00
7	38.90

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY



LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	2,403	5.9%	500	4.1%
Multi-Family	791	17.7%	216	1.8%
Commercial	155	3.5%	397	3.3%
Office	66	1.5%	239	2%
Industrial	339	7.6%	1,219	10%
Public & Institutional	85	1.9%	554	4.5%
Transportation	81	1.8%	343	2.8%
Parks & Open Space	137	3.1%	8,118	66.5%
Undeveloped	342	7.7%	472	3.9%
Agriculture Production	54	1.2%	152	1.2%
TOTAL	4,462	100%	12,249	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

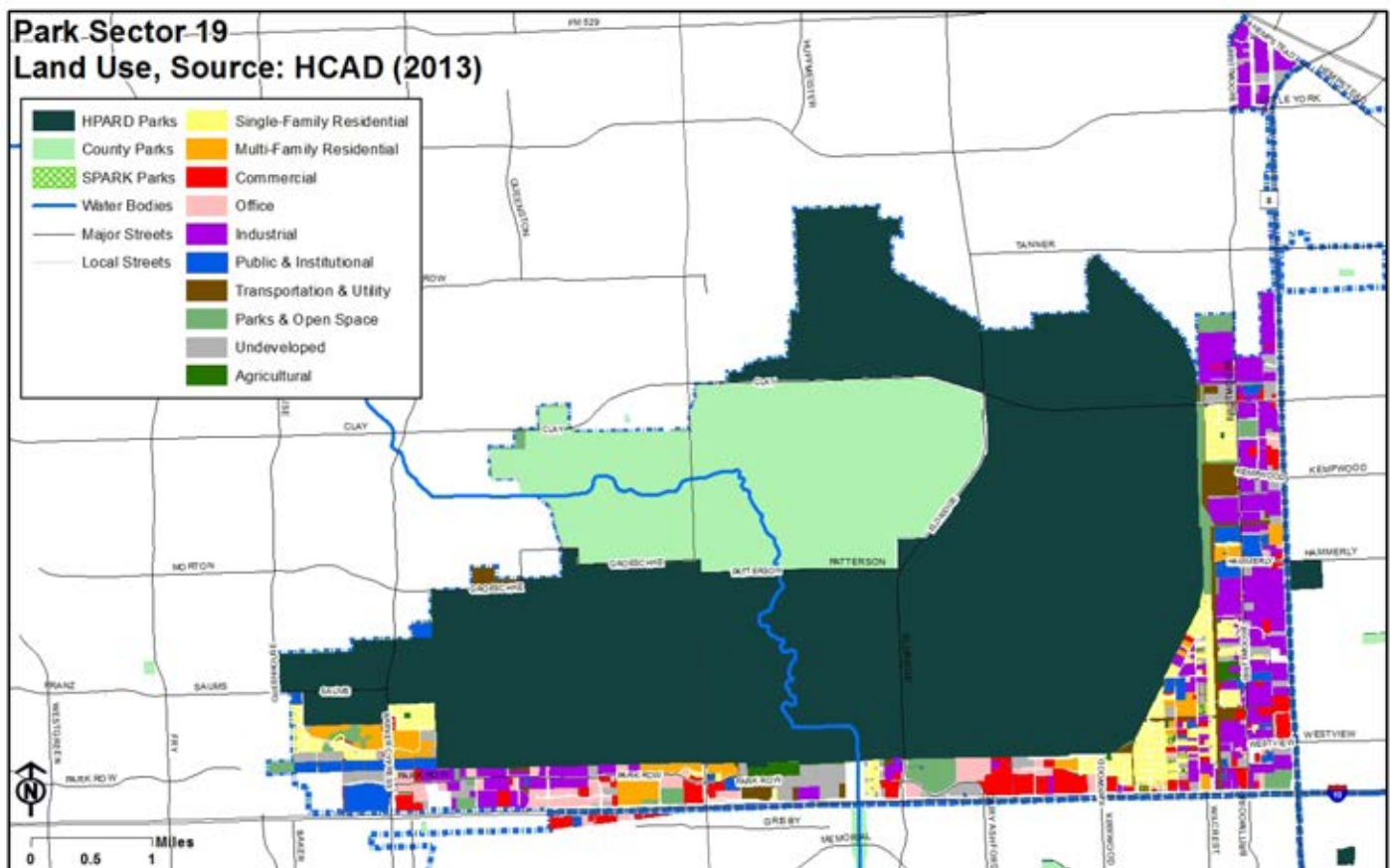


FIGURE 5. PARK SECTOR 19 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

The majority of the acreage in Park Sector 19 is comprised of Parks and Open Space (66.5%); this acreage includes Cullen and Bear Creek Parks which are contained in the Addicks Reservoir. The second most prominent land use is Industrial, making up 10% of the acreage concentrating mostly along Beltway 8. The residential land use (single-family and multi-family) makes up 5.9% of the acreage in this Park Sector.

Most of the residential land uses are close or adjacent to parkland but may not have direct access. Creating connections to the existing park would be the most obvious way to provide access to open space for the residents around this area. Because this property is owned by the US Army Corps of Engineers, there are restrictions for development of some recreational uses in areas of the parks.

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Regional Parks				
Cullen Park (Lease)	19008/ 18203	Saums/Groeschke	9,269.82	7.3*
Old Katy Hike and Bike Trail				2.3
Total HPARD Regional Park Acreage			9,269.82	
Total HPARD Trail Length				9.6

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 19

The West Houston Trails Master Plan identified the need for several trail connections on the western portion of the park where some of the amenities of the park are located, as well as along South Mayde Creek and Langham Creek. 'Spine trails' were identified along Barker Cypress, Highway 6 and Eldridge Parkway for north south connectivity and along Patterson Road, and Clay Road for east-west connectivity. Finally, a trail along the boundary of the park from Greenhouse Road to Clay Road (of which Old Katy Hike and Bike Trail would be a part of) was identified as needed.

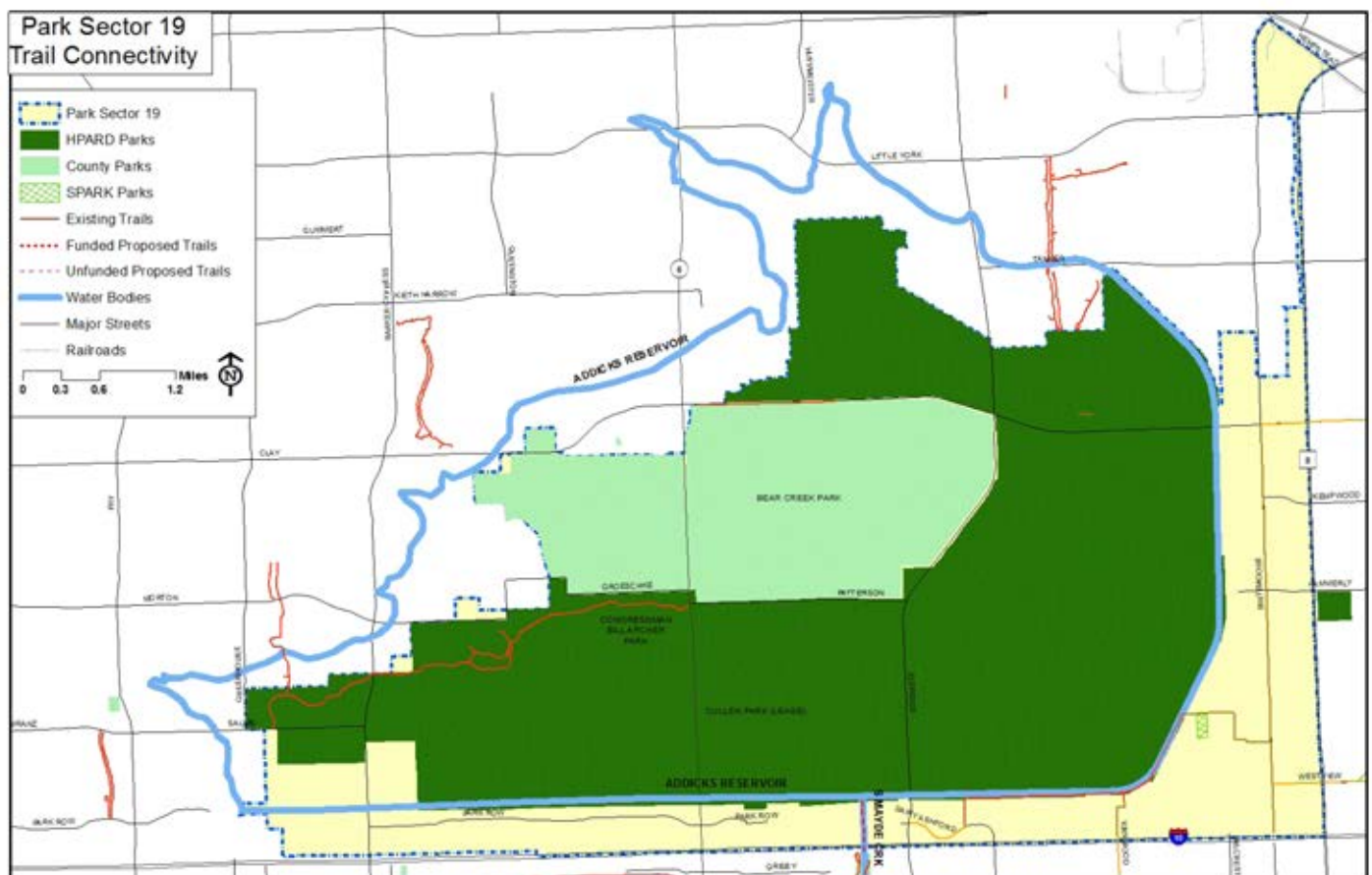


FIGURE 6. PARK SECTOR 19 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL



County Parks and Trails

Harris County operates 2 parks in this Park Sector, totaling 3,079.63 acres of parkland. Work has begun on an extension (2.53 miles) of Terry Hershey Park trail under I-10, north to the top of the Addicks Dam where it will branch. There will also be a branch to the east to Eldridge Parkway and a branch to the west connecting with Metro's Addicks Park and Ride Lot.

County Park				
Facility Name	Address	Street	Total Acres	Trail Length
Bear Creek Park	3535	War Memorial Drive	2153.63	2.01
Congressman Bill Archer Park	3201	State Highway 6 North	926	1.10
Terry Hershey Park (trail extension)				0.4
Total HC Park Acreage			3,079.63	
Total HC Trail Length				3.51

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 19

SPARK Parks

There is one Elementary School participating in the SPARK Program providing access to park space and a amenities to the public.

SPARK Parks				
Facility Name	Address	Street	Total Acres*	Amenities
Sherwood Elementary School	1700	Sherwood Forest St	9.99	Playground, Trail, Swing Set, Multi-Purpose Field
Total Acres*			9.99	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 19 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service the 2007, Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 7 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 8.0 acres/1,000 people for a Regional Park, Park Sector 19 meets the standard. The analysis for level of service and needs is shown below.

Another way to measure the level of service provided by parks is by looking at a “walkable” distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 10% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
Population										14,722	
Regional Park (151+)	1	2	9,269.8	3,079.6	0	12,349.5	8.0 ac/1,000 people	629.7	838.8	-9,152.04	-12,231.67
TOTAL	1	2	9,269.8	3,079.6	0	12,349.5	19 acres/1,000			-9,152.04	-12,231.67

TABLE 8. PARK SECTOR 19 HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

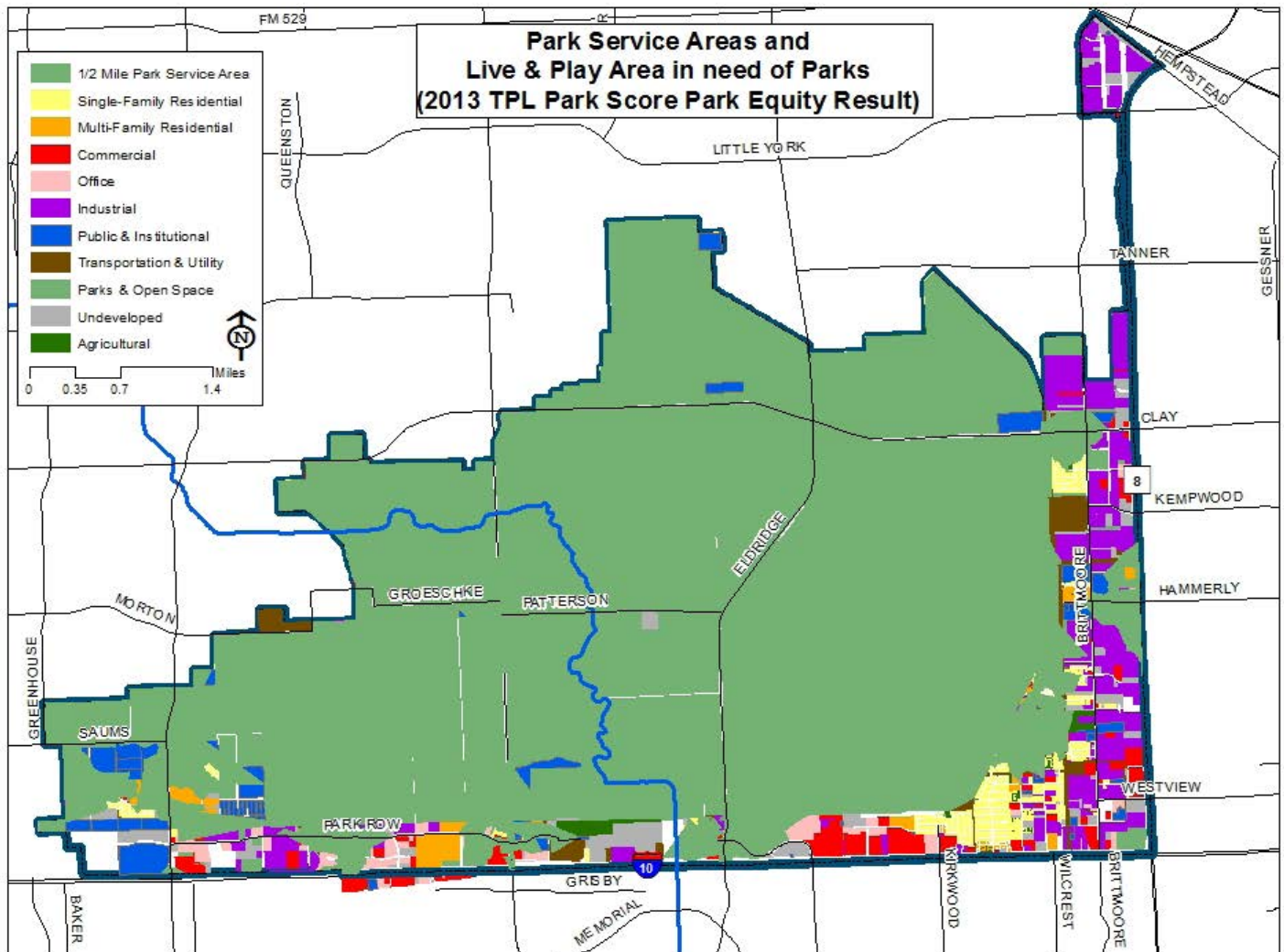


FIGURE 7. PARK SECTOR 19 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

Figure 8 below shows that there are very few community services located within this Park Sector. There is a YMCA located outside the Park Sector. This map show the location of the Addicks Park and Ride which will be connecting to the Terry Hershey trail system coming from the south of I-10.



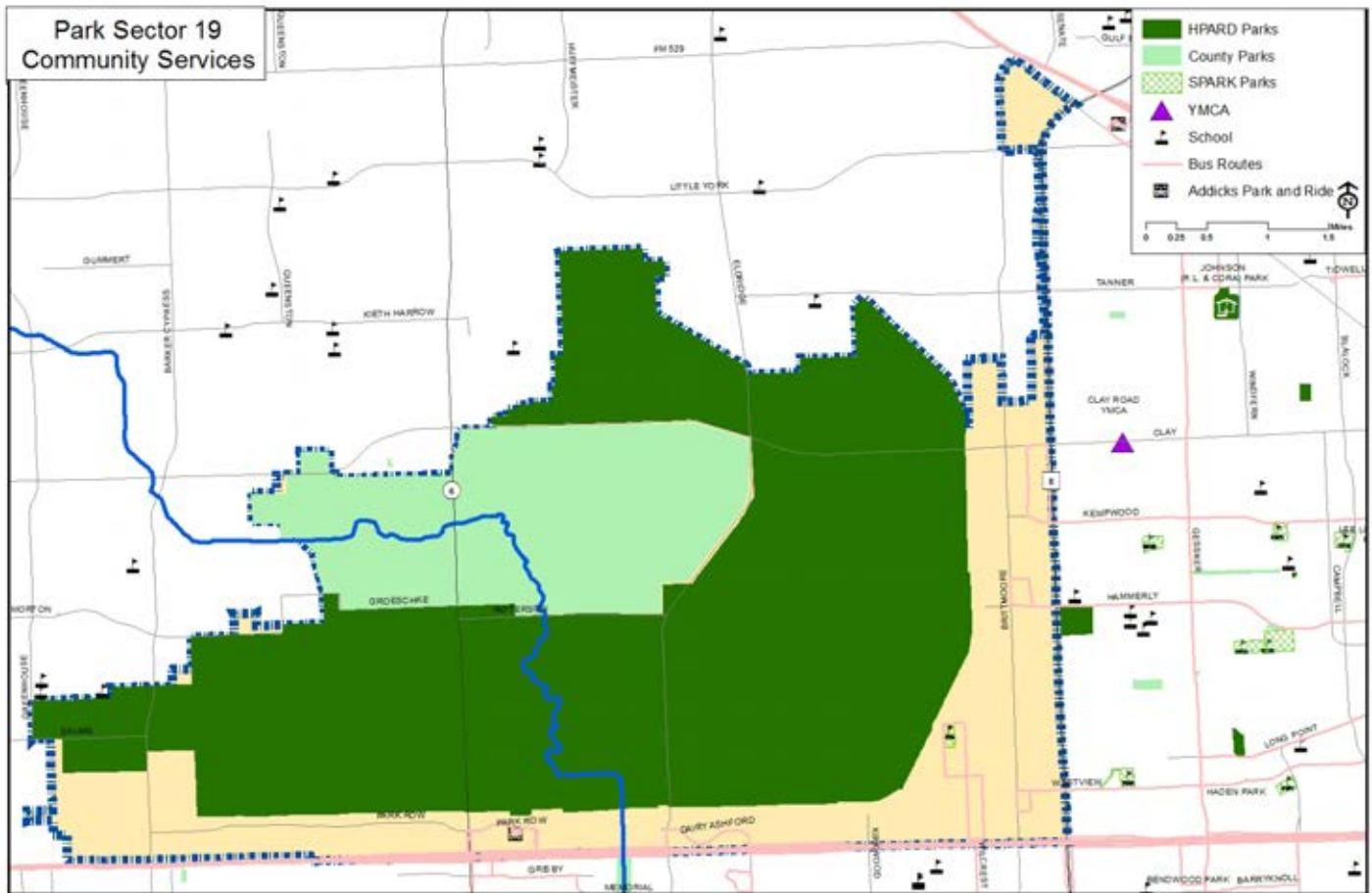


FIGURE 8. PARK SECTOR 19 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 19. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, trails, tennis courts, dog parks, skate parks, outdoor spraygrounds, ball fields and soccer fields. This Park Sector is deficient in outdoor basketball courts (1), volleyball courts (1), community centers (1), and pools (1).

Cullen and Bear Creek Parks serve the entire Houston region; the ball fields and soccer fields are heavily used in both of these parks. Based on the analysis done in other Park Sectors, HPARD is aware that ball fields and soccer fields are deficient in most areas of the city.

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard	Current HPARD Level of Service	Current HPARD Level of Service	Current Total Inventory Level of Service	HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard		
Population								14,722				
Playgrounds	4	2	1	7	1	4,000	1	3,681	1	2,103	0	-3
Picnic Shelters	13	1	0	14	1	10,000	1	1,132	1	1,052	-12	-13
Trails	9.6	3.51	0.25	13	0.2	1,000	0.65	1,000	0.91	1,000	-7	-10
Outdoor Basketball Courts	0	1	0	1	1	12,000	0	12,000	1	14,722	1	1
Tennis	0	2	0	2	1	10,000	0	10,000	1	7,361	1	-1
Volleyball	0	0	0	0	1	50,000	0	50,000	0	50,000	1	1
Dog Parks	0	1	0	1	1	100,000	0	100,000	1	14,722	0	-1
Skate Parks	0	1	0	1	1	100,000	0	100,000	1	14,722	0	-1
Community Centers	0	0	0	0	1	30,000	0	30,000	0	30,000	1	1
Swimming Pools	0	0	0	0	1	50,000	0	50,000	0	50,000	1	1
Outdoor Spraygrounds	1	0	0	1	1	100,000	1	14,722	1	14,722	0	0
Baseball (Lit & Unlit)	0	15	1	16	1 field	30,000	1	30,000	1	920	1	-15
Softball (Lit & Unlit)	4	0	0	4	1 field	30,000	1	3,681	1	3,681	-4	-4
Soccer (Lit & Unlit)	9	24	0	33	1 field	10,000	1	1,636	1	446	-8	-32

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 19

A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Cullen Park is in the design phase to demolish 3 existing playgrounds and replace them with 2 play structures in a single pad. The trail will also be replaced and new site furnishings will be added.



SUPPLEMENTAL MAPS:

Park Sector 19 Council Districts

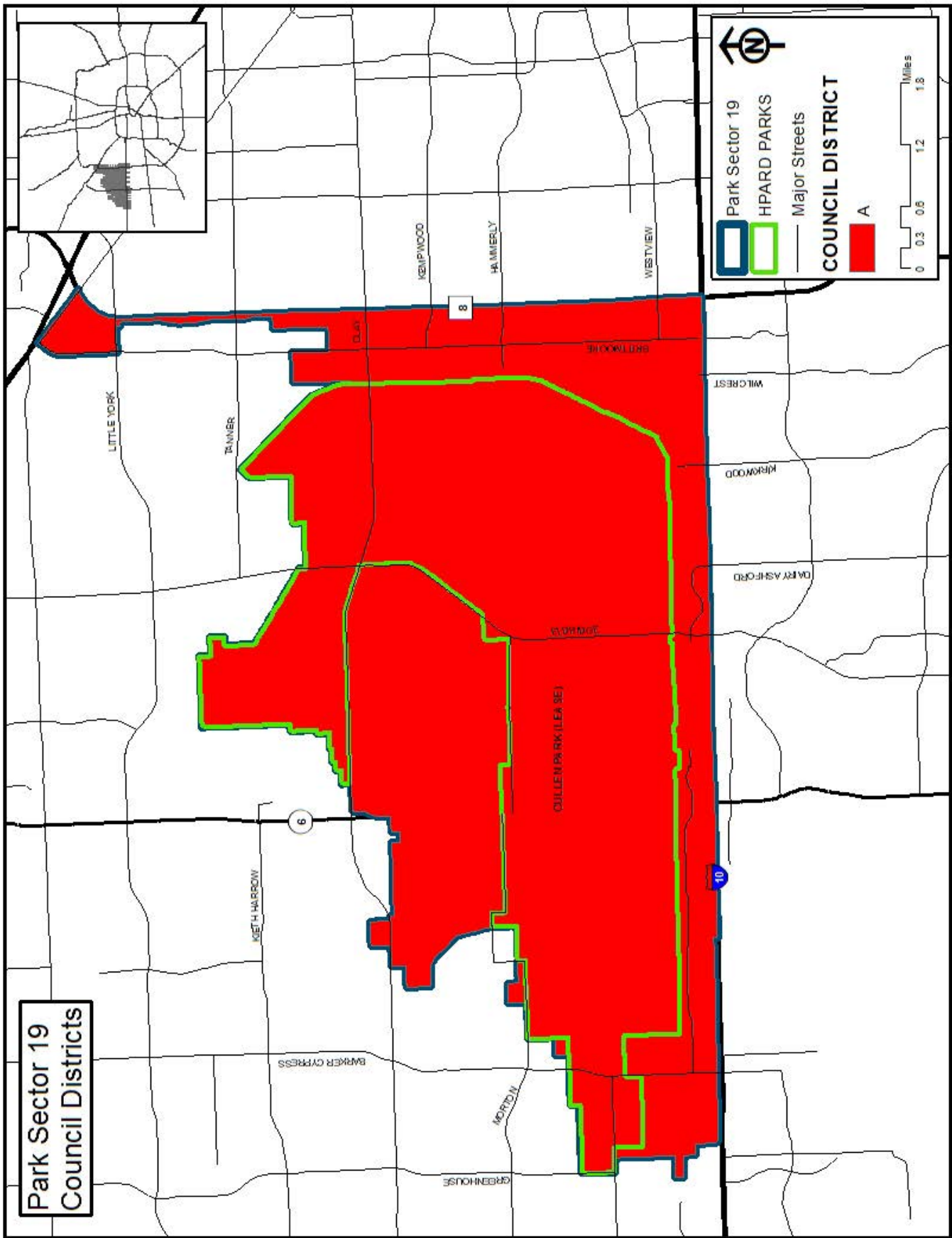


FIGURE 1- PARK SECTOR 19 COUNCIL DISTRICTS

Park Sector 19 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

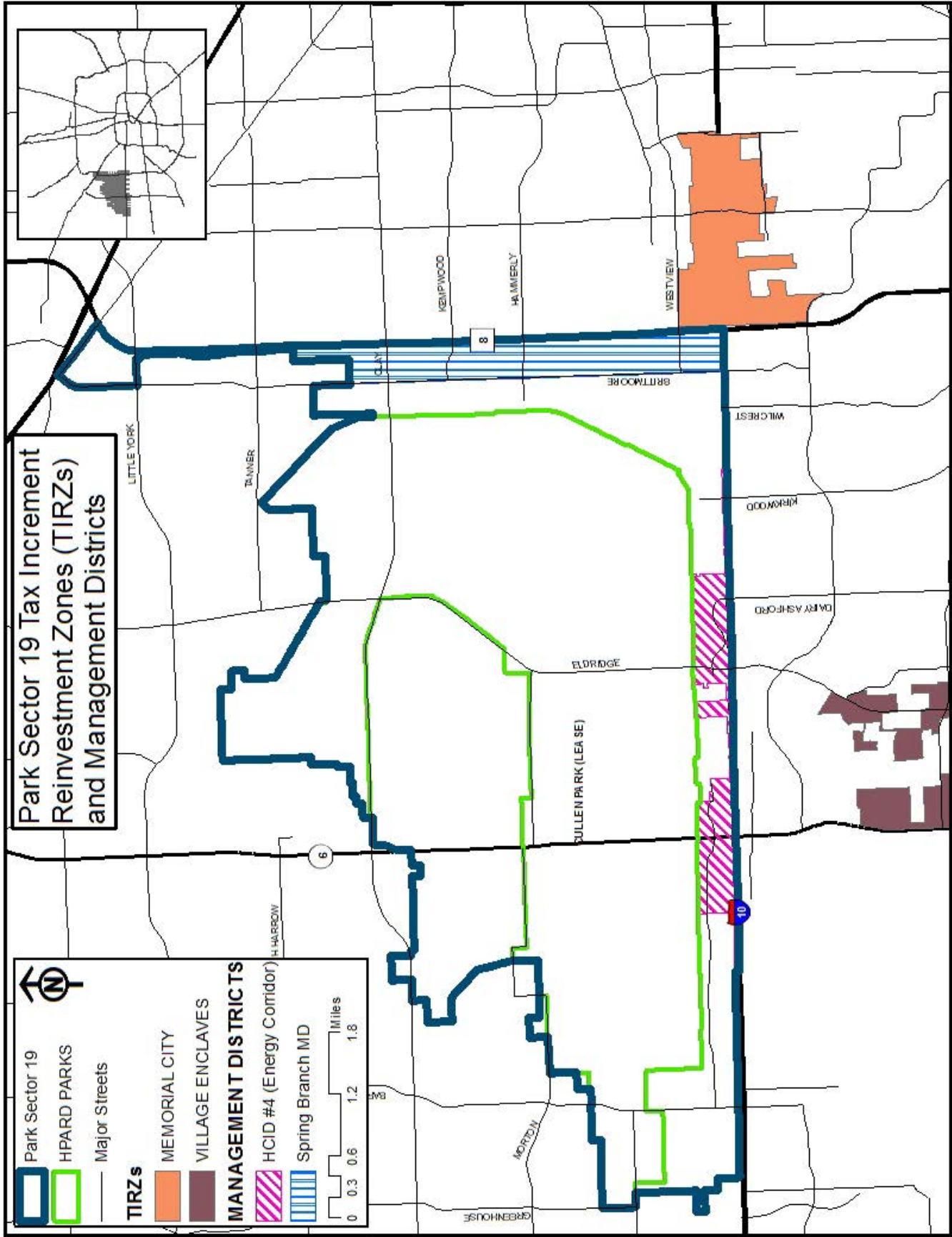


FIGURE 2: PARK SECTOR 19 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 19 Super neighborhoods

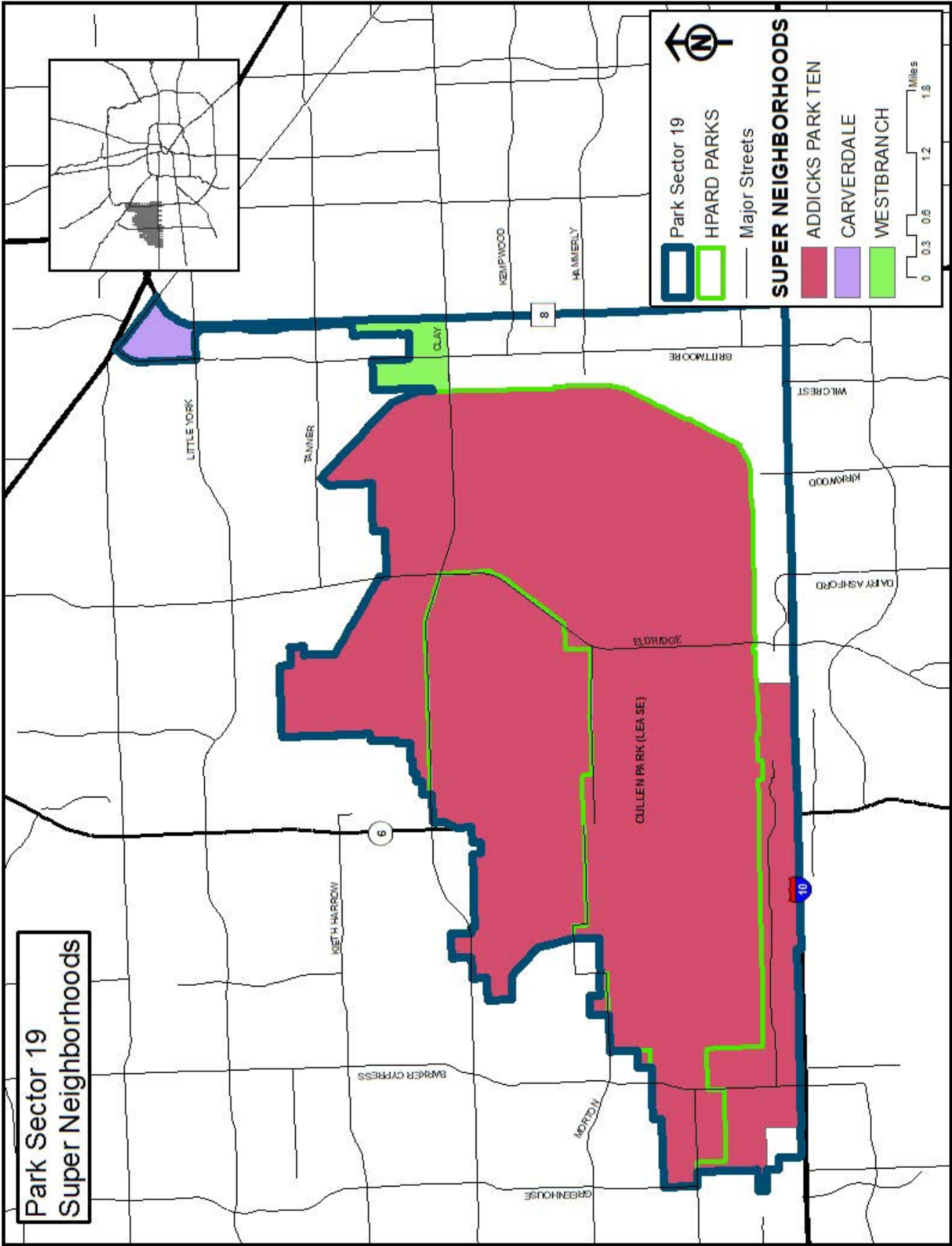


FIGURE 3: PARK SECTOR 19 SUPER NEIGHBORHOODS

Park Sector 19 Floodplain Areas

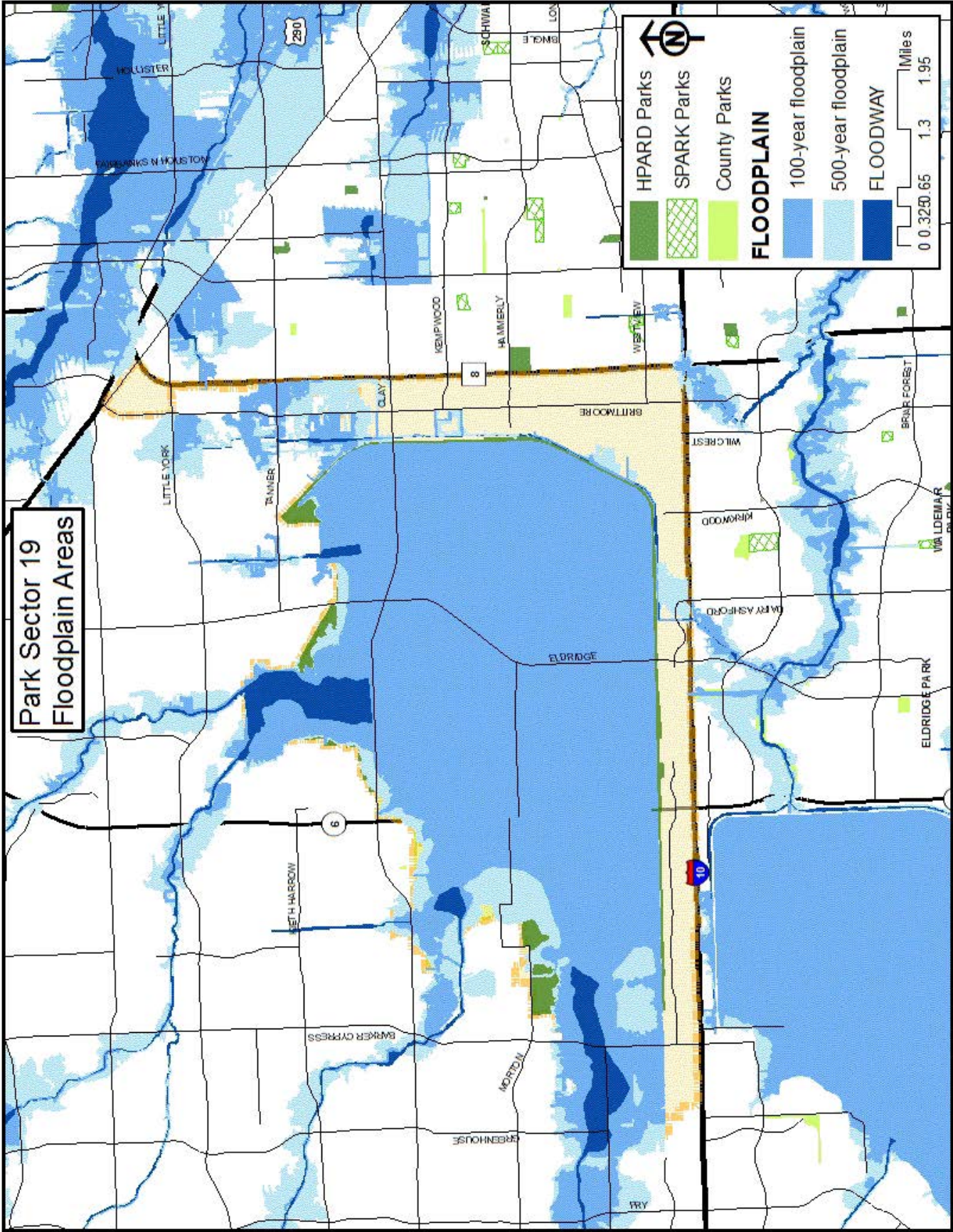


FIGURE 4: PARK SECTOR 19 FLOODPLAIN AREAS