# Neighborhood Litter Audit
## Methodology & Analysis

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Trash Free Maryland

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## Acknowledgements

## Methodology of Data Collection

From September 2016 through March 2017, five auditors assigned to five different Baltimore neighborhoods walked through the same blocks of their neighborhood on the same day of each week at roughly the same time. Auditors were given agency in choosing their routes and which blocks to audit, but auditing residential areas was emphasized. While on these walks, some auditors were addressed by community members, auditors noted the type of land use[1] most prevalent in their neighborhood, and rated litter levels on a scale of 1-4; with the exception of Curtis Bay, which was scaled from 0-4. Auditors were instructed to not rate alleys and to not compare litter levels to weeks prior, just to rate the litter levels of that week independently. All of this data was recorded and put into spreadsheets indicating which neighborhoods, which blocks, and which weeks were audited, in addition to when street sweeping, trash collection, and recycling collection occur. That data is analyzed below.

## Neighborhood Narratives

To provide context to the data, below is a narrative for each neighborhood. These narratives are informed by interviews with the auditors and data from the Baltimore Neighborhoods Indicators Alliance.

### Baltimore Highlands

Baltimore Highlands neighborhood has 2,371 total households, 263 total businesses, and 253 total commercial properties. The largest age demographic of the population is 25-64 years old. There are 2,141 total residential properties, 48.5% of housing units are owner occupied, and the vacancy rate is 6.5%. In 2015, the rate of reported dirty streets and alleys made by residents was 53.4 per 1,000. The property crime rate was 45.7 per 1,000 residents and the violent crime rate was 22.8 per 1,000 residents. For this neighborhood trash collection is on Thursdays, recycling collection is on Tuesdays, and street sweeping is weekly on different days, depending on the block.

Baltimore Highlands is mostly residential with a couple of corner shops, bars, a cemetery, and one big retail area. According to the data collector for this neighborhood, who collected data on Mondays around 3pm, the parts of this neighborhood with corner stores and bus stops were cleaner than the quieter, more residential parts. There are no green spaces along this auditor's route and only two public trash cans at each of the bus stops. This data collector also noticed that for some streets, the even or odd side consistently littered more than the other. For one specific street, one side was mostly uninhabited due to a fire that caused the need for renovation; that side had significantly more litter than the side which had homes and people living in them.

### Curtis Bay

Curtis Bay neighborhood has 5,012 total households, 457 total businesses, and 757 total commercial properties. The largest age demographic of the population is 25-64 years old. There are 4,249 total residential properties, 43.5% of housing units are owner-occupied, and the vacancy rate is

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1. Types of land use recorded include residential, commercial, school building, store front, bus stop, separate space, power plant, church, industry, vacant buildings, apartments, fire station, and parks.

6.2%. In 2015, the rate of reported dirty streets and alleys made by residents was 91.1 per 1,000. The property crime rate was 42.3 per 1,000 residents and the violent crime rate was 18.7 per 1,000 residents. Data for this neighborhood was collected on Thursdays around 6pm. Trash collection is on Tuesdays, recycling collection is on Thursdays, and street sweeping is on the third Wednesday of the month for odd blocks and the fourth Wednesday of the month for even blocks.

This data collector described Curtis Bay neighborhood as having many corner stores, bars, and liquor stores with residential areas scattered throughout. There is also an industrial peninsula in this neighborhood, but it was not surveyed for litter levels. There is only one green space on the route and there are very few trash cans, especially along Pennington Ave. According to the data collector, Pennington Ave is significantly impacted by the lack of trash cans and community members even use their personal trash cans to try and mitigate the litter problem. Pennington Ave has most of Curtis Bay's convenience stores.

**McElderry Park**
McElderry Park neighborhood has 2,082 total households, 214 total businesses, and 186 total commercial properties. The largest age demographic of the population is 25-64 years old. There are 3,237 total residential properties, 24.3% of housing units are owner-occupied, and the vacancy rate is 19.9%. In 2015, the rate of reported dirty streets and alleys made by residents was 221.2 per 1,000. The property crime rate was 55.5 per 1,000 residents and the violent crime rate was 26.5 per 1,000 residents. Data collection for this neighborhood occurred on Saturdays during the early and mid-afternoon period of the day. Trash collection is on Thursdays, recycling collection is on Tuesdays, and street sweeping is weekly on different days, depending on the block.

This data collector described the neighborhood as a close-knit community with high levels of litter, many vacant lots, and few trash cans in the residential areas. The collector noticed trash levels were higher in common spaces, like outside of school and around parks, but less so in front of people's yards. The collector also noticed that weather impacted when people were hanging outside, and indicated that trash levels were lower when people were not outside because of inclement weather. There was almost constant construction happening all over the neighborhood, mostly the demolition or building of homes. There are relatively few businesses on this auditor's route due to the neighborhood sitting right on the edge of a commercial corridor. McElderry Park also had block captains on three of the blocks that were audited: 2400 block of McElderry St. even, 2400 block of McElderry St. odd, and 500 block of Milton even. These blocks had an average litter level of 2.25, 2.03, and 1.97, respectively. With the most common litter level being 1.5, these blocks all had higher averages, but in comparison to the neighborhood average, 2400 block of McElderry St. even and 500 block of Milton even had lower block averages. In comparison to the other blocks audited, the litter levels for these three blocks were in the middle.

**Mondawmin**
Mondawmin neighborhood has 3,132 total households, 239 total businesses, and 140 total commercial properties. The largest age demographic of the population is 25-64 years old. There are 3,444 total residential properties, 50% of housing units are owner-occupied, and the vacancy rate is 12.3%. In 2015, the rate of reported dirty streets and alleys made by residents was 67.8 per 1,000. The property crime rate was 74.9 per 1,000 residents and the violent crime rate was 28.4

per 1,000 residents. For this neighborhood, trash collection is on Fridays, recycling collection is on Wednesdays, and street sweeping is weekly on different days, depending on the block.

The auditor for this neighborhood collected data on Tuesdays at noon every week and noticed high levels of trash, which while on route, community members would frequently complain to this auditor about the trash levels. The majority of this neighborhood is residential with many vacant homes. There is only one liquor store on this auditor's route, but beyond the route and still in the Mondawmin neighborhood, there are many businesses. Other than the school in the neighborhood, there aren't many green spaces and there are no trash cans, about which residents also frequently complained to the auditor. Residents discussed with the auditor the desire for there to be less trash and more accessible trash cans.

**Waverly**
Waverly neighborhood has 3,114 total households, 253 total businesses, and 172 total commercial properties. The largest demographic of the population is in the age group of 25-64 years old. There are 2,690 total residential properties, 58.6% of housing units are owner-occupied, and the vacancy rate is 4.6%. In 2015, the rate of reported dirty streets and alleys made by residents was 68.2 per 1,000. The rate of property crimes was 64.2 per 1,000 residents and the violent crime rate was 20.6 per 1,000 residents. Data collection for this neighborhood occurred on Wednesdays at 2pm from September 27 to February 8, and then at 12pm from February 8, onward. Trash collection is on Tuesdays, recycling collection is on Thursdays, and street sweeping is on the third Wednesday of the month for odd blocks and the fourth Wednesday of the month for even blocks.

The data collector described this neighborhood as mostly residential with the southern half as detached homes with yards and the northern half as rowhouses. Within the blocks where data was collected, there are a few corner stores but it is almost exclusively residential. There is quite a bit of green space in this neighborhood and there are about 3 to 5 public cans that according to the auditor, seemed to be emptied regularly. The auditor noticed specific blocks would have extreme levels of trash that came in waves. For a couple of weeks straight, there would be large amounts of trash and then there would be none. The middle of the neighborhood, specifically 36th St. and McKewin Ave., consistently had greater volumes of trash than the outer streets. The blocks with the worst average litter levels were on 36th St. and McKewin Ave.

## Analysis of Data

After the full six months of data was placed into spreadsheets, analysis began by first looking at changes in litter levels between weeks for each of the five neighborhoods. This was done by averaging each week of litter levels and then comparing it to the week before by subtracting it. These numbers were then averaged out to decipher if, over time, litter levels went down or up on average for the full six months of collection. For each of the five neighborhoods, litter levels on average went down over time. The average of changes between weeks for each neighborhood are in Table 1. Table 2 shows the top three worst weeks on average for each neighborhood. Table 3 shows which blocks had the worst averages for each neighborhood. Table 4 shows the average and most frequent litter levels for each neighborhood.

Next, weather data and community events were compared to litter levels in order to see which and to what extent outside factors impacted litter levels. Community events were compiled into a spreadsheet and used to see if litter levels for that day or surrounding days were different, but overall, the community events didn't play a significant role in litter levels. There were a few outliers that could have indicated that the event decreased the amount of litter, but for the majority of the community events that occurred, they were either irrelevant to this study because they occurred outside the scope of data collection, or there was no data collected by specific auditors for the corresponding community events. However, the day after Halloween had particularly high levels of trash for the Mondawmin neighborhood.

Weather data, specifically average temperature, water, snow, average wind, and maximum wind, from weather.gov was collected for every day of the seven months of data collection and then analyzed to identify extreme weather data points. These extreme weather data points were then compared to litter levels for those days to see if there was any impact on the average litter level for that data collection day. Overall, weather and bad weather events didn't play a role in the level of litter on the streets, but 6 times bad weather correlated with bad days of trash.

Weather data and community events were also used in combination to see if there were any impacts on litter levels. In one instance, in the Baltimore Highlands neighborhood on the 3400 Leverton block, both odd and even, a community cleanup event occurred on October 8, 2016. In between when this event occurred and when data was collected for that neighborhood, October 10, 2016, the maximum wind on October 9, 2016 was 23 miles per hour. The litter level for October 10 on the even block of 3400 Leverton was a 4, the highest level of litter that can occur. The blocks surrounding Leverton St. were E. Baltimore St. and E. Lombard St. On October 10, 2016, two days after the community cleanup on the even and odd blocks of 3400 Leverton, 3400 E. Baltimore St. even scored a 4 and 3800 E. Lombard St. even scored a 2. The odd blocks of these streets weren't scored.

Baltimore City's Department of Public Works provided spreadsheets of 311 service calls for each of the five neighborhoods audited. The three types of 311 service calls analyzed were dirty alleys, dirty streets, and storm inlet chokes. The location of where these calls occurred were compared to which blocks in that neighborhood were audited. Table 5 shows the number of 311 service calls that occurred on blocks that were audited for each of the five neighborhoods.

Analysis of data also consisted of looking at land use in relation to particularly bad blocks and for each neighborhood except one, the blocks with the worst average litter levels were residential. Only one, in the Curtis Bay neighborhood, was commercial.

## Discussion

This litter audit provides a baseline of litter levels in these five neighborhoods that can be used to compare many different data points over time. This litter audit is a study that could be easily replicated throughout the years and in other neighborhoods of Baltimore as well. Because it uses methodology similar to that used in Philadelphia and Washington, DC, it can also be applied to regional evaluations and comparisons. Additionally, the Department of Public Works or anoth-

er entity could determine approximate weight differences among the rankings and use repeated audits to report data per requirements in the City's stormwater permit and trash Total Maximum Daily Load.

Some margins for error in data analysis include data collection missed for some weeks in a few neighborhoods, land use not recorded each for each block for two of the neighborhoods, some collectors switched the time they surveyed their neighborhood halfway through the data collection period, not every block in these neighborhoods were done, and not all community events were compiled.

The following could be factored in and noted for future iterations of this study:
- Data collected from April to August
- The locations of fast food restaurants on the auditors' routes
- Data collected before and after street sweeping, trash collection, and recycling collection
- The locations of corner cans on the auditors' routes and description of how full those corner cans are
- Descriptions of storm drains on the auditors' routes, whether they are clogged or cleared
- Routes that specifically include schools, fast food restaurants, recreation centers, and parks

## Conclusion

This study provides important data to inform our Trash Free Baltimore campaign and sets us up to have analysis of litter levels over time based on a variety of events and citywide measures.

## Tables

**Table 1. Average Change in Litter Levels**

| Neighborhood Name | Average Change between Weeks |
|---|---|
| Baltimore Highlands | -0.018146552 |
| Curtis Bay | -0.031639929 |
| McElderry Park | -0.018382353 |
| Mondawmin | -0.002022245 |
| Waverly | -0.006666667 |

**Table 2. Top Three Worst Weeks on Average for Each Neighborhood**

| Neighborhood Name | Week | Average of That Week |
|---|---|---|
| Baltimore Highlands | 11/14/16 (week 7) | 2.793103448 |
| Baltimore Highlands | 11/28/16 (week 9) | 2.810344828 |
| Baltimore Highlands | 3/13/17 (week 24) | 2.793103448 |
| Curtis Bay | 10/13/16 (week 2) | 0.96 |
| Curtis Bay | 11/5/16 (week 5) | 0.960784314 |
| Curtis Bay | 11/17/16 (week 7) | 0.970588235 |
| McElderry Park | 10/29/16 (week 5) | 2.390625 |
| McElderry Park | 11/2/16 (week 7) | 2.666666667 |
| McElderry Park | 1/14/17 (week 16) | 2.40625 |
| Mondawmin | 11/1/16 (week 7) | 2.197674419 |
| Mondawmin | 1/3/17 (week 15) | 2.162790698 |
| Waverly | 10/5/16 (week 2) | 2.162790698 |
| Waverly | 10/19/16 (week 4) | 1.712121212 |
| Waverly | 11/9/16 (week 7) | 1.681818182 |

**Table 3. Worst Blocks on Average for Each Neighborhood**

| Neighborhood Name | Block Number | Average Litter Level |
|---|---|---|
| Baltimore Highlands | 100 S. Eaton even | 3.791666667 |
| Curtis Bay | 4300 Pennington even | 1.52173913 |
| McElderry Park | 2700 Jefferson even | 3.235294118 |
| Mondawmin | 2000 Wallbrook even | 2.666666667 |
| Waverly | 600 36th St. even | 2.365384615 |

**Table 4. Average Litter Levels and Most Frequent Litter Level for Each Neighborhood**

| Neighborhood Name | Average | Mode |
|---|---|---|
| Baltimore Highlands | 2.489010989 | 2 |
| Curtis Bay | 0.575149445 | 1 |
| McElderry Park | 2.222027972 | 1.5 |
| Mondawmin | 2.005087209 | 2 |
| Waverly | 1.539906103 | 1.5 |

**Table 5. Number of 311 Service Calls for Each Neighborhood**

| Neighborhood Name | Dirty Alley Calls | Dirty Streets Calls | Storm Inlet Choke Calls |
|---|---|---|---|
| Baltimore Highlands | 113 | 57 | 0 |
| Curtis Bay | 23 | 3 | 0 |
| McElderry Park | 65 | 12 | 1 |
| Mondawmin | 2 | 1 | 0 |
| Waverly | 35 | 5 | 1 |

## Appendix A. Route Maps

### Baltimore Highlands
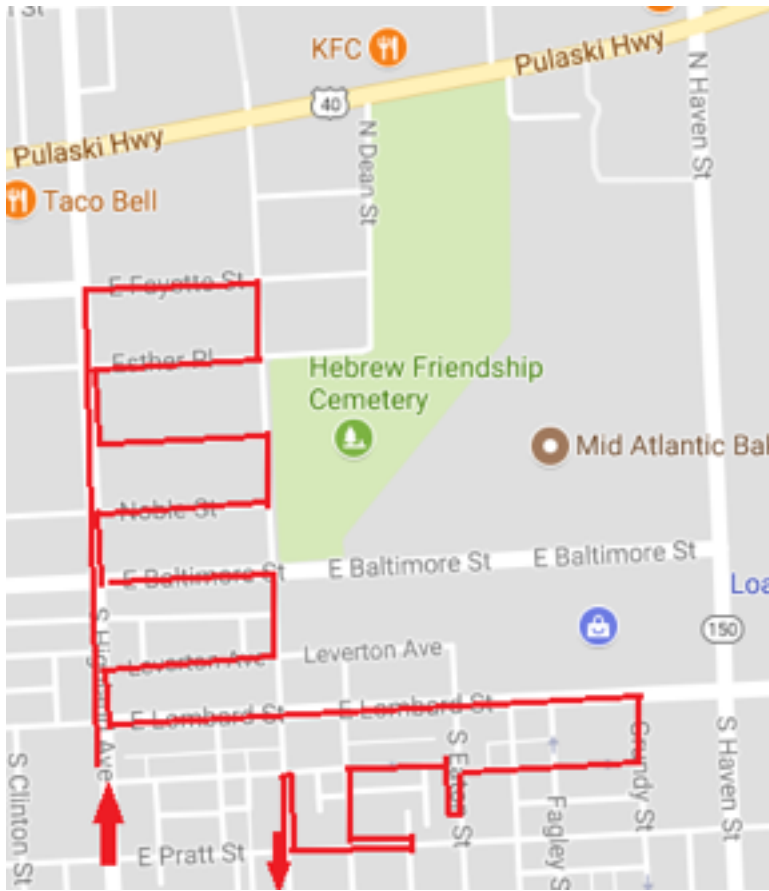


### Curtis Bay

**McElderry Park**
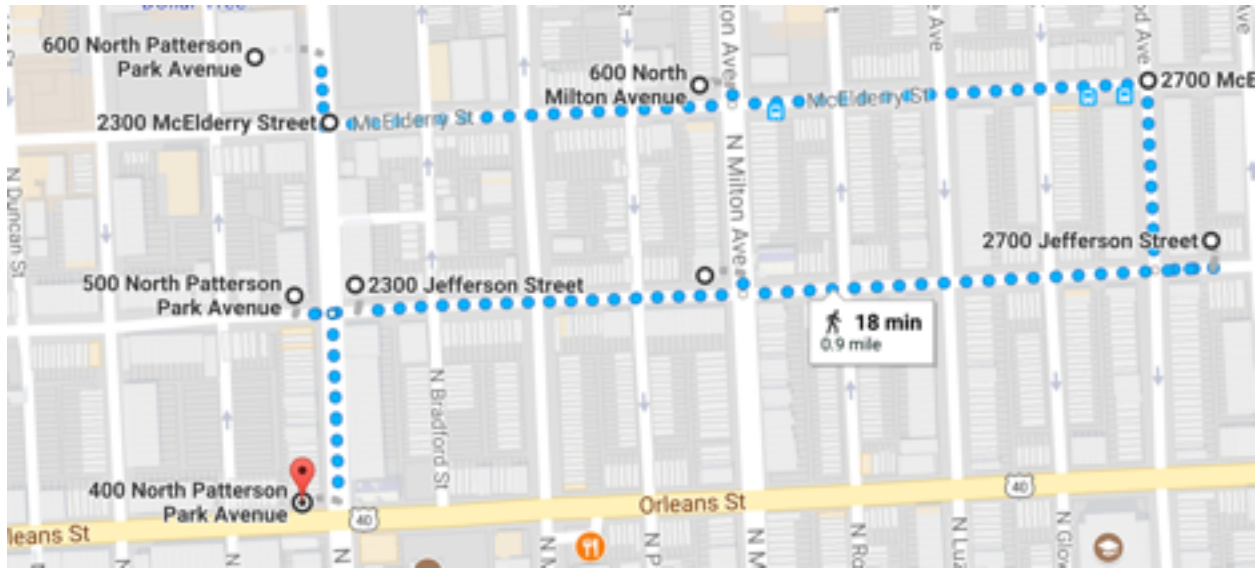


**Mondawmin**
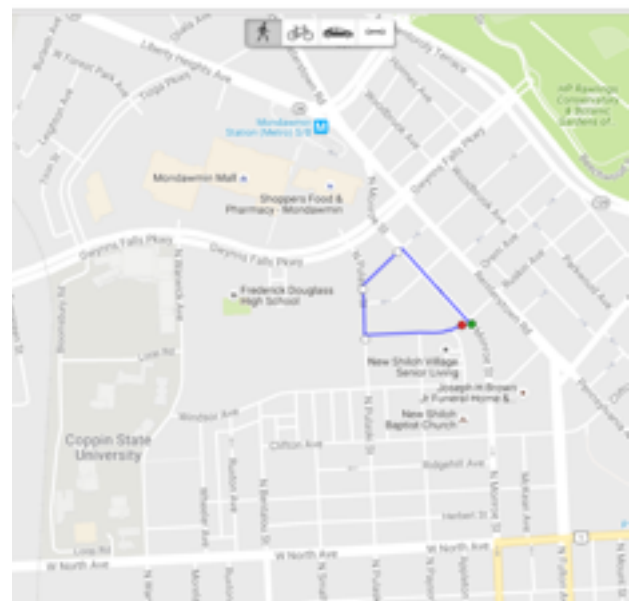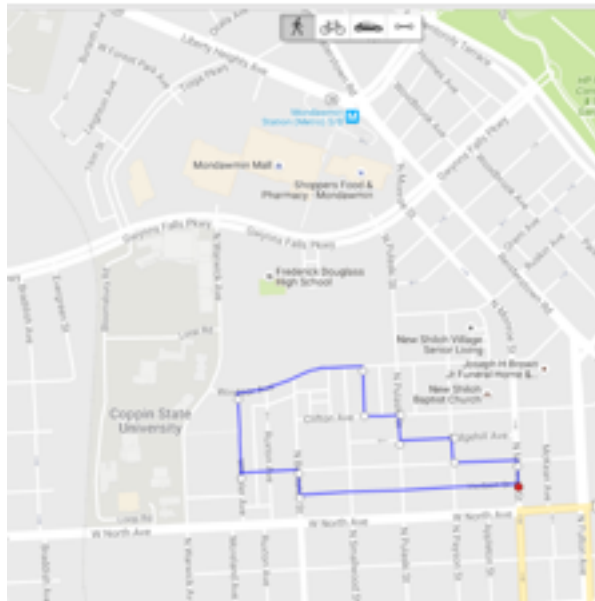
**Waverly**
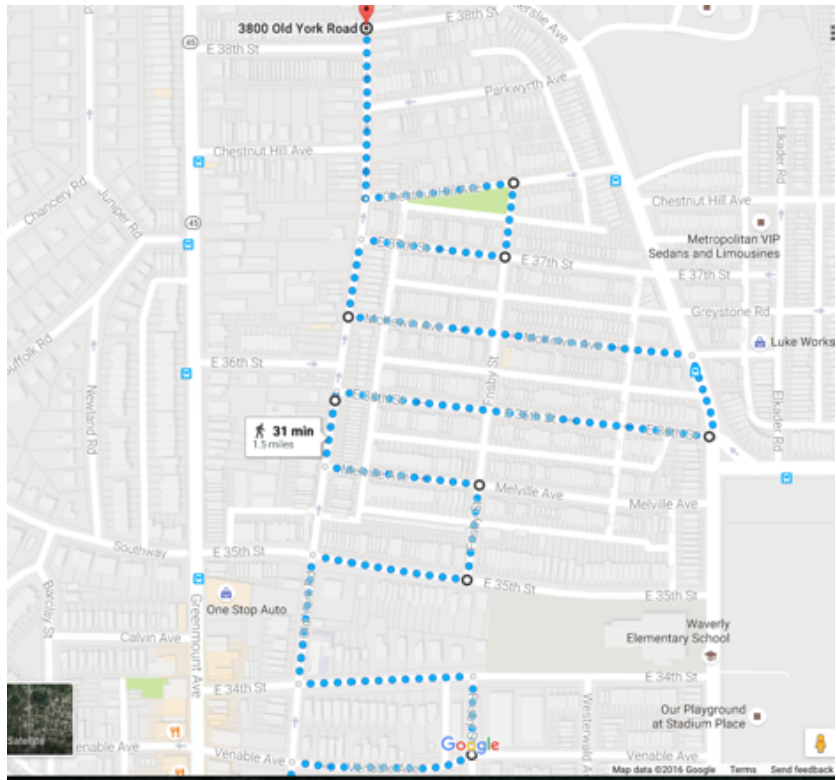
## Appendix B. Block Averages

**Baltimore Highlands**

| Block | Block Average |
|---|---|
| 000 block S. Highland odd | 2.576923077 |
| 000 block N Highland odd | 1.961538462 |
| 100 N Highland odd | 1.980769231 |
| 3500 E. Fayette even | 2.865384615 |
| 3500 E. Fayette odd | 2.5625 |
| 3500 Esther Pl even | 3.666666667 |
| 3500 Esther Pl odd | 2.346153846 |
| 3400 E. Fairmount even | 3.653846154 |
| 3400 E. Fairmount odd | 2.354166667 |
| 3500 Noble even | 3.519230769 |
| 3500 Noble odd | 1.6875 |
| 3400 E. Baltimore even | 3.538461538 |
| 3400 E. Baltimore odd | 2.645833333 |
| 3400 Leverton even | 3.442307692 |
| 3400 Leverton odd | 2.1875 |
| 3800 Lombard even | 1.653846154 |
| 3800 Lombard odd | 1.895833333 |
| 3900 Mt. Pleasant even | 2.076923077 |
| 3900 Mt. Pleasant odd | 1.583333333 |
| 100 S. Eaton even | 3.791666667 |
| 100 S. Eaton odd | 2.173076923 |
| 3700 Mt. Pleasant even | 2.541666667 |
| 3700 Mt. Pleasant odd | 2.134615385 |
| 100 S. Dean even | 1.75 |
| 100 S. Dean odd | 1.596153846 |
| 3700 E. Pratt even | 2.9375 |
| 3700 E. Pratt odd | 2.134615385 |
| 100 S. Conkling even | 2.8125 |
| 100 S. Conkling odd | 2.115384615 |

**Curtis Bay (scored 0-4)**

| Block | Block Average |
|---|---|
| 3800 West Bay evens | 0.826086957 |
| 3800 West Bay odds | 0.456521739 |
| 3700 West Bay evens | 0.434782609 |
| 3700 West Bay odds | 0.260869565 |
| 1000 Washburn evens | 0.586956522 |
| 1000 Washburn odds | 0.630434783 |
| 3700 10th St. evens | 0.760869565 |
| 3700 10th St. odds | 0.717391304 |
| Patapsco/10th St. bus stop | 0.782608696 |
| 1000 E Patapsco evens | 0.847826087 |
| 1000 E Patapsco odds | 0.652173913 |
| 1100 E Patapsco evens | 0.826086957 |
| 1100 E Patapsco odds | 0.652173913 |
| 1200-1300 E Patapsco evens | 0.636363636 |
| 1200 E Patapsco odds | 0.840909091 |
| 1300 E Patapsco odds | 1 |
| 3600 Pennington evens | 1.086956522 |
| 3700 Pennington evens | 0.97826087 |
| 3600-3700 Pennington odds | 0.260869565 |
| 3800 Pennington evens | 0.5 |
| 3800 Pennington odds | 0.652173913 |
| 3900 Pennington evens | 0.673913043 |
| 3900 Pennington odds | 0.304347826 |
| 4000 Pennington evens | 0.695652174 |
| 4000 Pennington odds | 0.717391304 |
| 4100 Pennington evens | 0.543478261 |
| 4100 Pennington odds | 0.413043478 |
| 4200 Pennington evens | 0.630434783 |
| 4200 Pennington odds | 0.782608696 |
| 4300 Pennington evens | 1.52173913 |
| 4300 Pennington odds | 0.47826087 |
| 4400 Pennington evens | 0.326086957 |
| 4400 Pennington odds | 0.086956522 |
| 4400 Fairhaven evens | 0.695652174 |
| 4400 Fairhaven odds | 0.195652174 |
| 4300 Fairhaven evens | 0.52173913 |

| | |
|---|---|
| 4300 Fairhaven odds | 0.391304348 |
| 4200 Fairhaven evens | 0.47826087 |
| 4200 Fairhaven odds | 0.434782609 |
| 4100 Fairhaven evens | 0.347826087 |
| 4100 Fairhaven odds | 0.282608696 |
| 4000 Fairhaven evens | 0.47826087 |
| 4000 Fairhaven odds | 0.413043478 |
| 3900 Fairhaven evens | 0.456521739 |
| 3900 Fairhaven odds | 0.456521739 |
| 3800 Fairhaven evens | 0.369565217 |
| 3800 Fairhaven odds | 0.347826087 |
| 3700 Fairhaven evens | 0.52173913 |
| 3700 Fairhaven odds | 0.369565217 |
| 3600 Fairhaven evens | 0.47826087 |
| 3600 Fairhaven odds | 0.543478261 |

**McElderry Park**

| Block | Block Average |
|---|---|
| 600 block Patterson even | 2.611111111 |
| 600 block Patterson odd | 1.611111111 |
| 2300 block McElderry even | 1.972222222 |
| 2300 block Mc Elderry odd | 1.833333333 |
| 2400 block McELderry even | 2.25 |
| 2400 block McELderry odd | 2.027777778 |
| 600 block Milton even | 1.972222222 |
| 600 block Milton odd | 2.055555556 |
| 2500 block McElderry even | 2.361111111 |
| 2500 block McElderry odd | 2.416666667 |
| 2600 block McElderry even | 2.861111111 |
| 2600 block McElderry odd | 3.138888889 |
| 2700 block McELderry even | 2.861111111 |
| 2700 block McElderry odd | 2.833333333 |
| 2700 block Jefferson even | 3.235294118 |
| 2700 block Jefferson odd | 2.617647059 |
| 2600 block Jefferson even | 2.611111111 |
| 2600 block Jefferson odd | 2.305555556 |
| 2500 block Jefferson even | 2.416666667 |
| 2500 block Jefferson odd | 1.833333333 |
| 500 block Milton even | 1.972222222 |
| 500 block Milton odd | 1.888888889 |
| 2400 block Jefferson even | 2.361111111 |
| 2400 block Jefferson odd | 1.888888889 |
| 2300 block Jefferson even | 1.777777778 |
| 2300 block Jefferson odd | 1.638888889 |
| 500 block Patterson even | 2.138888889 |
| 500 block Patterson odd | 1.944444444 |
| 400 block Milton even | 2.235294118 |
| 400 block Milton odd | 2.029411765 |
| 400 block Patterson even | 1.888888889 |
| 400 block Patterson odd | 1.583333333 |

**Mondawmin**

| Block | Block Averages |
| --- | --- |
| Herbert 1900 even | 2.291666667 |
| Herbet 1900 odd | 1.75 |
| N Payson 1900 even | 2.125 |
| N Payson 1900 odd | 2.229166667 |
| Wallbrook 2000 even | 2.666666667 |
| Wallbrook 2000 odd | 2.208333333 |
| Wallbrook 2100 even | 1.625 |
| Wallbrook 2100 odd | 1.791666667 |
| Wallbrook 2200 even | 1.875 |
| Wallbrook 2200 odd | 1.166666667 |
| Wallbrook 2300 even | 2.645833333 |
| Wallbrook 2300 odd | 1.729166667 |
| Wallbrook 2400 even | 1.645833333 |
| Wallbrook 2400 odd | 1.958333333 |
| Wallbrook 2500 even | 1.520833333 |
| Wallbrook 2500 odd | 1.5 |
| Wheeler 1900 odd | 1.354166667 |
| Wheeler 2000 odd | 2.229166667 |
| Windsor 2300 odd | 1.854166667 |
| Windsor 2300 odd | 1.729166667 |
| Windsor 2200 odd | 2.0625 |
| N Smallwood 2100 even | 2.5 |
| N Smallwood 2100 odd | 1.5625 |
| Clifton 2100 even | 2.104166667 |
| Clifton 2100 odd | 2.020833333 |
| N Pulaski 2000 even | 2.125 |
| N Pulaski 2000 odd | 1.541666667 |
| Ridgehill 2000 even | 3.9375 |
| Ridgehill 2000 odd | 2.6875 |
| N Payson 1900 even | 2.520833333 |
| N Payson 1900 odd | 1.708333333 |
| Wallbrook 1800 even | 2.166666667 |
| Wallbrook 1800 odd | 1.666666667 |
| Monroe 2300 even | 2.125 |
| Monroe 2300 odd | 2.083333333 |
| Monroe 2400 odd | 2.020833333 |

| | |
|---|---|
| Whittier 2000 even | 2.125 |
| Bryant 2000 odd | 1.958333333 |
| Bryant 2000 even | 2.25 |
| N Pulaski 2400 odd | 1.864583333 |
| N Pulaski 2300 odd | 1.9375 |
| Elgin Ave 2000 odd | 1.916666667 |
| Elgin Ave 1900 odd | 1.4375 |

**Waverly**

| Block | Block Average |
|---|---|
| 600 Venable Ave. (even) | 1.269230769 |
| 600 34th St. (even) | 1.384615385 |
| 600 34th St. (odd) | 1.153846154 |
| 600 35th St. (even) | 1.653846154 |
| 600 35th St. (odd) | 1.423076923 |
| 600 Melville Ave. (even) | 1.923076923 |
| 600 Melville Ave. (odd) | 1.826923077 |
| 700 Melville Ave. (even) | 1.538461538 |
| 700 Melville Ave. (odd) | 1.461538462 |
| 600 36th St. (even) | 2.365384615 |
| 600 36th St. (odd) | 2.115384615 |
| 700 36th St. (even) | 1.903846154 |
| 700 36th St. (odd) | 1.711538462 |
| 600 McKewin Ave. (even) | 1.692307692 |
| 600 McKewin Ave. (odd) | 1.576923077 |
| 700 McKewin Ave. (even) | 2.192307692 |
| 700 McKewin Ave. (odd) | 1.865384615 |
| 600 37th St. (even) | 1.480769231 |
| 600 37th St. (odd) | 1.230769231 |
| 700 37th St. (even) | 1.211538462 |
| 700 37th St. (odd) | 1.096153846 |
| 600 Chestnut Hill Ave. (even) | 1.083333333 |
| 700 Chestnut Hill Ave. (even) | 1.208333333 |
| 700 Chestnut Hill Ave. (odd) | 1.104166667 |
| 600 Parkwryth Ave. (even) | 1.346153846 |
| 600 Parkwryth Ave (odd) | 1.384615385 |
| 500 38th St. (even) | 1.5 |
| 500 38th St. (odd) | 1.423076923 |
| 600 38th St. (even) | 1.634615385 |
| 600 38th St. (odd) | 1.596153846 |
| 3400 Old York Rd. (even) | 1.538461538 |
| 3500 Old York Rd. (odd) | 1.692307692 |
| 3600 Old York Rd. (odd) | 1.134615385 |

## Appendix C. Office of Planning Neighborhood Maps



**Trash Free MD Survey Areas**

**Baltimore Highlands**

- ⭐ Community Association/Main Street Office
- ⭐ Job Resource Center
- ⭐ MD DHR Centers
- ⭐ Methadone Clinic
- ⭐ Dialysis Center
- ⭐ Library
- ⚑ School
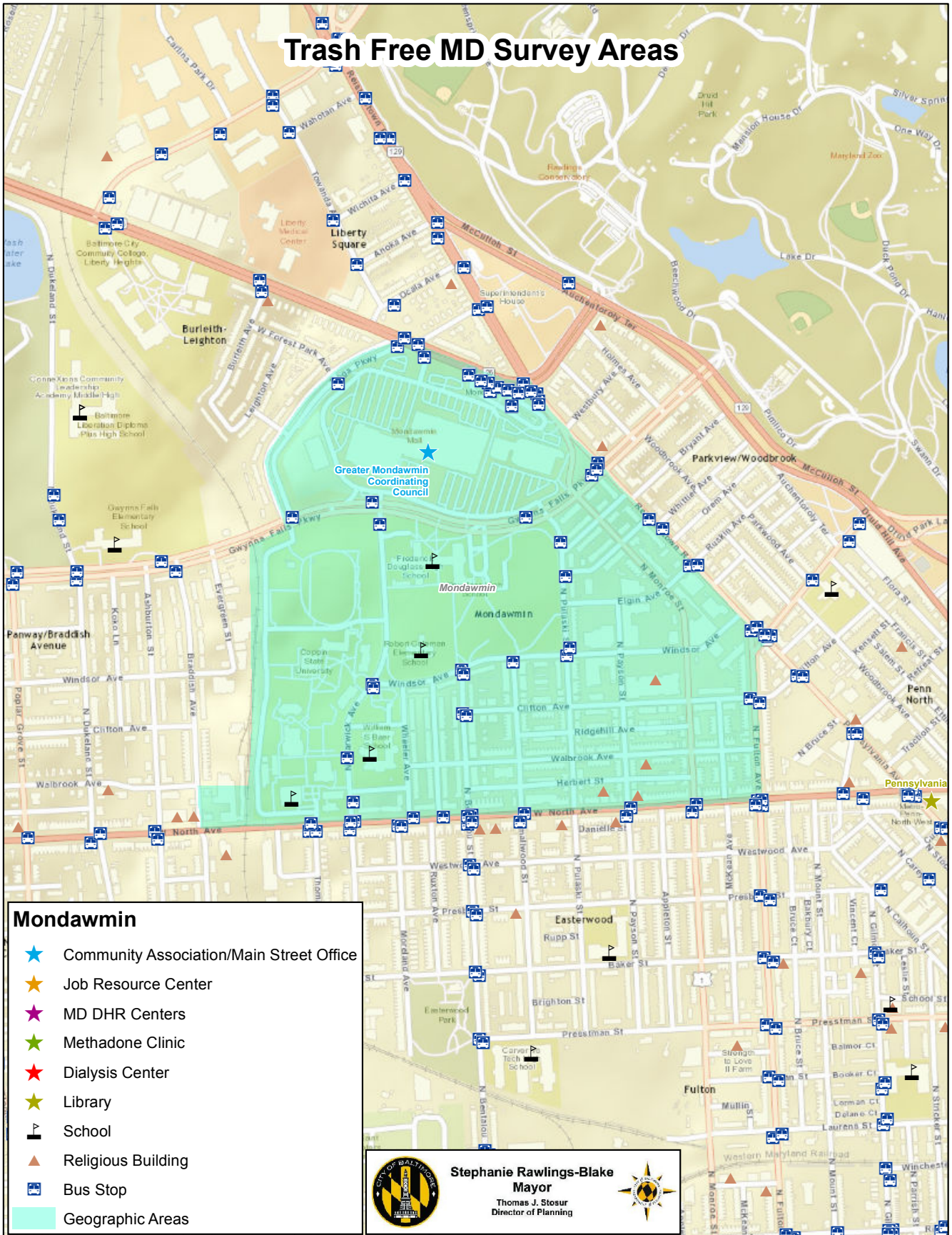- ▲ Religious Building
- 🚌 Bus Stop
- ▨ Geographic Areas

Stephanie Rawlings-Blake
Mayor

Thomas J. Stosur
Director of Planning
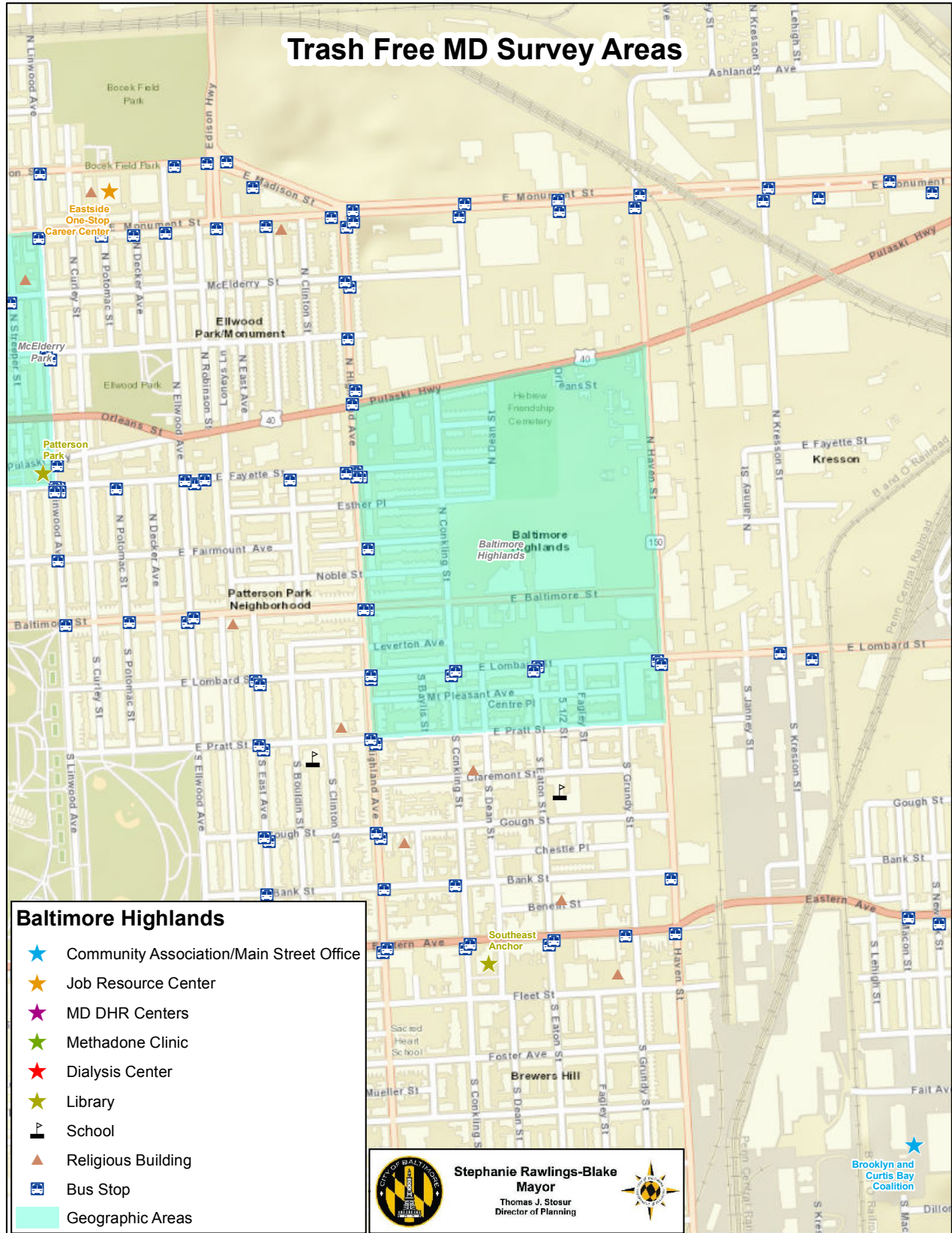
# Trash Free MD Survey Areas
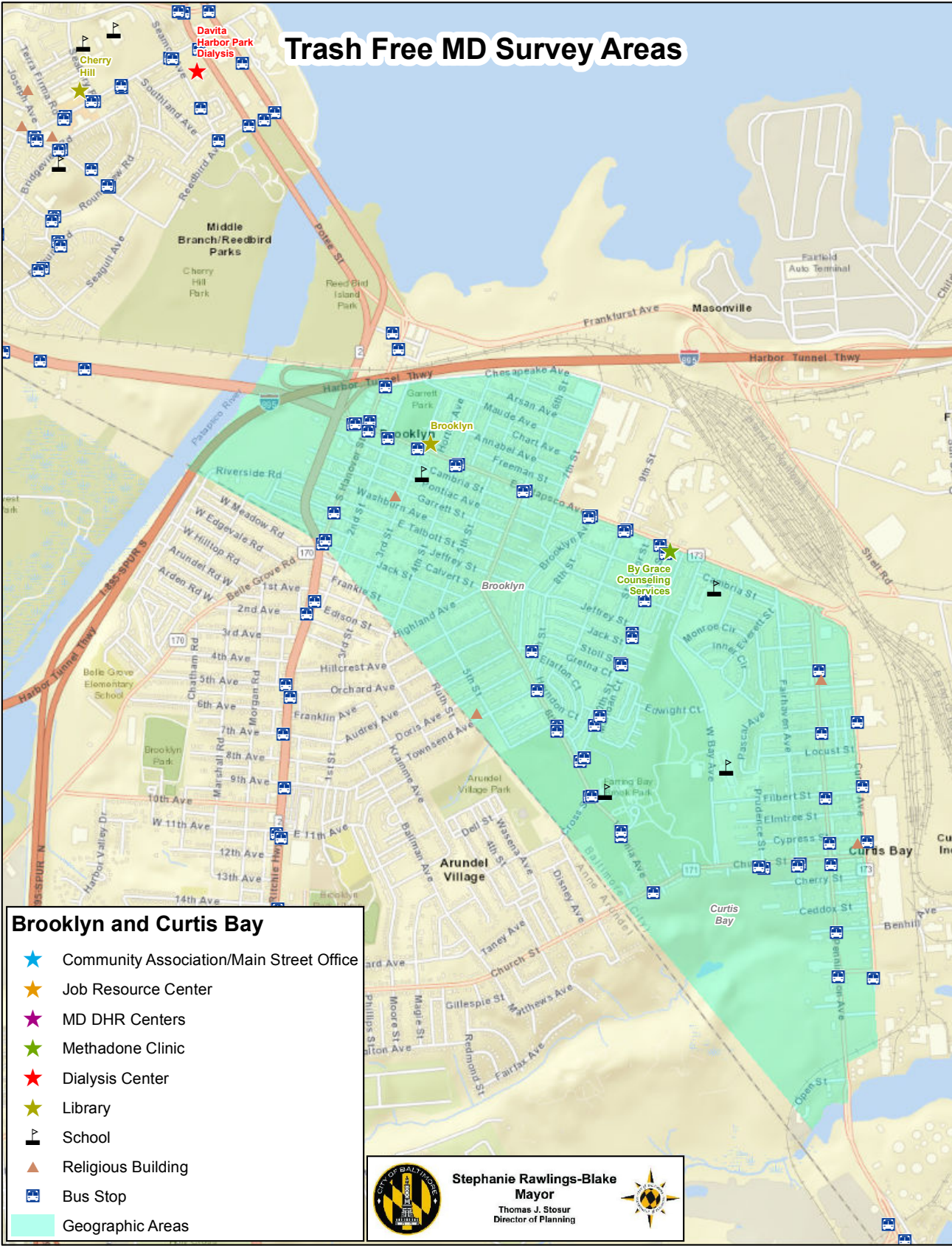
**Brooklyn and Curtis Bay**

| | |
|---|---|
| ⭐ (cyan) | Community Association/Main Street Office |
| ⭐ (orange) | Job Resource Center |
| ⭐ (magenta) | MD DHR Centers |
| ⭐ (green) | Methadone Clinic |
| ⭐ (red) | Dialysis Center |
| ⭐ (olive) | Library |
| ⚑ | School |
| ▲ | Religious Building |
| 🚏 | Bus Stop |
| ▢ (teal) | Geographic Areas |

**Stephanie Rawlings-Blake**
**Mayor**
Thomas J. Stosur
Director of Planning

Davita Harbor Park Dialysis

Cherry Hill

Middle Branch/Reedbird Parks

Cherry Hill Park

Reed Bird Island Park

Masonville

Fairfield Auto Terminal

Frankfurst Ave

Harbor Tunnel Thwy

Chesapeake Ave

Garrett Park

Brooklyn

Riverside Rd

By Grace Counseling Services

Washburn Ave

Brooklyn

Belle Grove Elementary School

Brooklyn Park

Arundel Village Park

Arundel Village

Curtis Bay

# Trash Free MD Survey Areas

## McElderry Park

| Symbol | Description |
|--------|-------------|
| ★ (cyan) | Community Association/Main Street Office |
| ★ (orange) | Job Resource Center |
| ★ (magenta) | MD DHR Centers |
| ★ (green) | Methadone Clinic |
| ★ (red) | Dialysis Center |
| ★ (yellow) | Library |
| ⚑ | School |
| ▲ | Religious Building |
| 🚌 | Bus Stop |
| ▢ (teal) | Geographic Areas |

McElderry Park Community Association

Eastside One-Stop Career Center

Patterson Park

Johns Hopkins Outpatient Care

Patterson Park Neighborhood

Stephanie Rawlings-Blake
Mayor

Thomas J. Stosur
Director of Planning

**Trash Free MD Survey Areas**

**Mondawmin**

⭐ (cyan) Community Association/Main Street Office
⭐ (orange) Job Resource Center
⭐ (magenta) MD DHR Centers
⭐ (green) Methadone Clinic
⭐ (red) Dialysis Center
⭐ (yellow) Library
⚑ School
▲ Religious Building
🚌 Bus Stop
▨ Geographic Areas

**Stephanie Rawlings-Blake Mayor**
Thomas J. Stosur
Director of Planning

# Trash Free MD Survey Areas

## Waverly

⭐ (cyan) Community Association/Main Street Office

⭐ (orange) Job Resource Center

⭐ (magenta) MD DHR Centers

⭐ (green) Methadone Clinic

⭐ (red) Dialysis Center

⭐ (yellow) Library

⚑ School

▲ Religious Building

🚌 Bus Stop

⬛ (teal) Geographic Areas

Union Memorial Hospital Dialysis Unit

Waverly

DCA North Baltimore

Stephanie Rawlings-Blake
Mayor

Thomas J. Stosur
Director of Planning

# Appendix D. Visual Scoring Standards

**Level 1**

**Level 2**

**Level 3**

**Level 4**

Trash Free

MARYLAND

Trash Free Maryland
3002 Laurel Avenue
Cheverly, MD 20785

trashfreemaryland.org / 410-861-0412