

Philadelphia's Street Litter Index Survey Geographic Areas

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Philadelphia's combined and separate storm sewer outfalls are discharging floatables to the Tookany – Tacony Creek. Philadelphia can use the Streets Department's Litter Index Surveys to identify high levels of street litter areas that are contributing excessive litter to Tookany – Tacony Creek during/ after rainfall events.

Street Litter Index Survey by Streets Department

Philadelphia Streets Department (PSD) conducts several street litter index survey(s) each year using the Keep America Beautiful (KAB) methodology. KAB's Litter Index scores are:

- 1 No Litter
- 2 Slightly Littered
- 3 Littered
- 4 Extremely Littered

A 3-5 person team rates each Litter Index Assessment sub-area with a score of 1-4. The team scores are averaged for each Litter Index sub-area and then aggregated to Litter Index scores for each Sanitation Area-Rubbish Day Area and Police District. The April, 2012 survey included 1,325 Litter Index sub-areas, 89 distinct areas and 23 Police Districts.

The data is collected by discrete geographic areas that are comprised of

- PSD Sanitation Areas
- Collection Day (Mon – Friday)
- Sub Areas within SA, Collection Day

There are 6 PSD Sanitation Areas, they have been subdivided into 2 zones for Areas 1-5 and 3

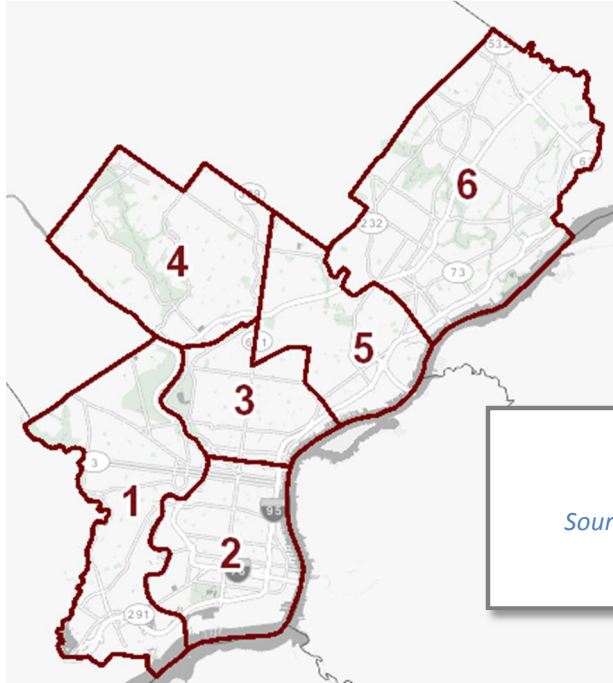


Image Capture from
Source: <http://phila.gov/map> Regions – Sanitation Areas

zones for Area 6, for a total of 13 Sanitation zones.

Each of the 13 Sanitation Area zones has been subdivided into 5 Rubbish Collection Day areas.

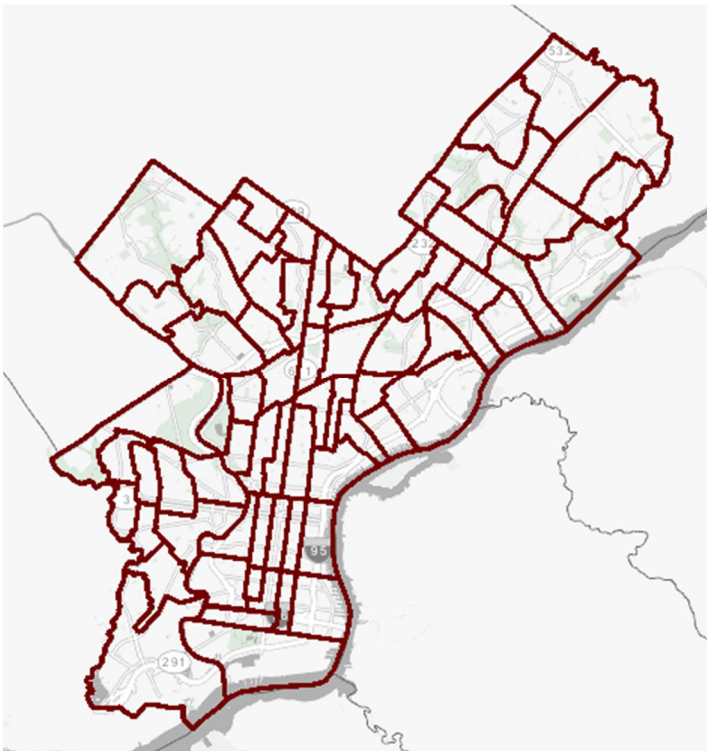




Image Capture from
Source: <http://phila.gov/map> – Regions: Sanitation Areas –
Rubbish Day

PSD’s KPB/PMBC Litter Index Score Form uses Police Department (PPD) Districts to organize the Excel workbook. For each Police District, PSD sub-divides each Rubbish Day area into multiple survey areas that are each assigned a 1-4 litter score. This image capture from PSD’s April, 2012 survey shows the Litter Index Scoring for a portion of Police District 1. Notice the Sanitation Area and Day (2D Mon) designation on the right side of the worksheet. There are a total of 15 sub-areas for the 2D Mon area.

PSD’s April, 2012 Litter Index Survey reported on 1,325 Index survey areas, 133 areas had a rating of 3, 1 area had a rating of 4.

 KPB / PMBC LITTER INDEX SCORE FORM 						
Police District				1		
Sub-area	U. Cossie	C. Smith	Middleton	J. Jones		Sub-area Average Scores
2	2	2	2	2		2.00
3	2	2	2	2		2.00
4	3	3	3	3		3.00
5	3	3	3	3		3.00
6	2.1	2.1	2.1	2.1		2.10
7	2.2	2.2	2.2	2.2		2.20
8	2.4	2.4	2.4	2.4		2.40
9	3	3	3	3		3.00
10	2.3	2.3	2.3	2.3		2.30
11	2.5	2.5	2.5	2.5		2.50
12	2	2	2	2		2.00
13	2.2	2.2	2.2	2.2		2.20
15	2	2	2	2		2.00
14	2	2	2	2		2.00
15	2	2	2	2		2.00
16	2	2	2	2		2.00
17	1.2	1.2	1.2	1.2		1.20
18	2	2	2	2		2.00
19	1.2	1.2	1.2	1.2		1.20
20	2	2	2	2		2.00
21	2	2	2	2		2.00
22	2	2	2	2		2.00
23	2	2	2	2		2.00

2D Mon	
Sub Area Average	2.31
2D Tues	
Sub Area Average	2.09

*Image Capture from
 Source: PSD Litter Index Score Form*

Street Litter Index Organization Recommendation

The Police District organizational arrangement for Street Litter Index Surveys has several drawbacks that should be considered in designing a PSD – PWD reporting system:

- Police Districts change over time:
 - Districts 3 and 4 have been merged into 3
 - 22 and 23 have been merged into 22
- Police Districts and Sanitation Areas are not exactly the same

PDS's Sanitation Area –collection day organization – survey sub-areas are quite small which will provide reasonable approximations of outfall drainage areas.