Stormwater Basins GIS Project Report

By Ian Schwarzenberg



I. Background

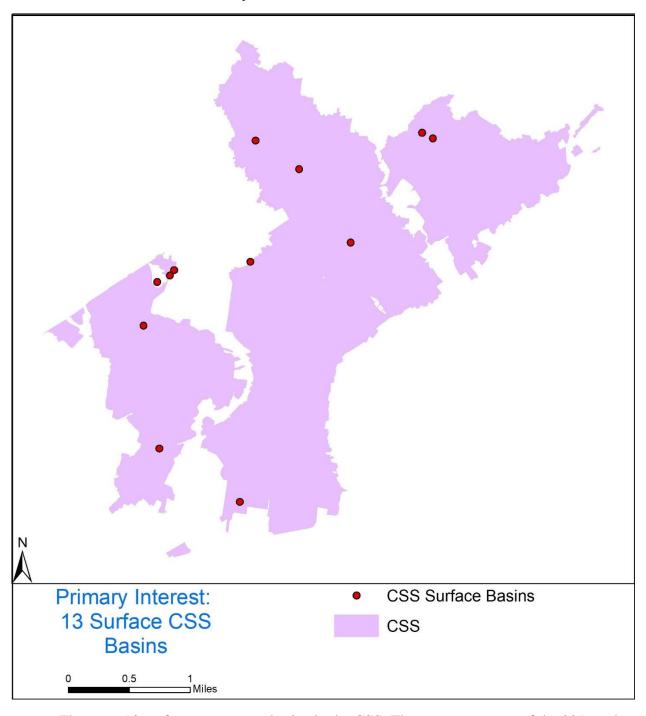
It is important to analyze all the city's storm water basins to discover numerous characteristics about them, such as identifying basins best suited for retrofits and finding out where basins were supposed to be built but never were, which identifies developers who owe the city these retrofits they said they would build. I obtained the basin data from the 2009 storm water basins master list in \\pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water

Basins\SW_Basins_2009_GIS_Project\Master_List\2018.04.04_SW Basins 2009 Inspection Master List.xls in mid-March 2018, the latitude and longitude coordinates for each basin from Google Maps and RStudio's "ggmap" library and the drainage district and sewer system data from the Philadelphia Water Department's OWS_GISDATA.OWS.WATERSHEDS geodatabase in early April 2018.

There are numerous types of storm water basins that I examined. Firstly, I examined basins that are confirmed to exist. Secondly, I examined basins that are not confirmed to exist. There are addresses for these basins that were pledged to be built, but it is unclear if they exist. Thirdly, I examined nonexistent basins. These basins were pledged to be built, but the city knows for certain that these basins do not exist and were never built. Finally, I analyzed not found and never built basins. These basins have very little information, and as a result the city does not know as to whether these are found or built. This makes their existence more uncertain compared to nonexistent basins, in which the lack of existence of those is certain.

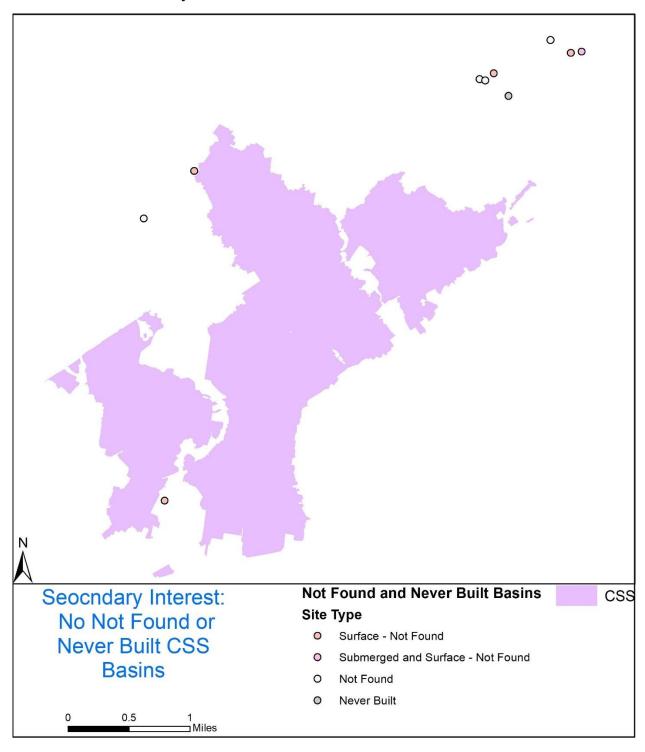
II. Interests

Primary Interest –Surface CSS Basins



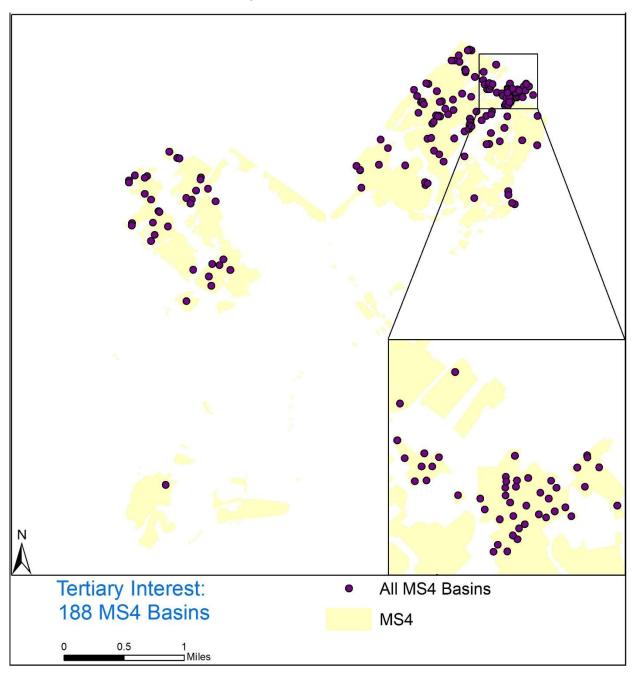
There are 13 surface stormwater basins in the CSS. These represent 6% of the 221 total Philadelphia storm water basins, 59% of the 22 CSS basins, and 11% of the 123 strictly surface basins in Philadelphia. This is the primary interest because these are the easiest to retrofit.

Secondary Interest - Not Found and Never Built CSS Basins



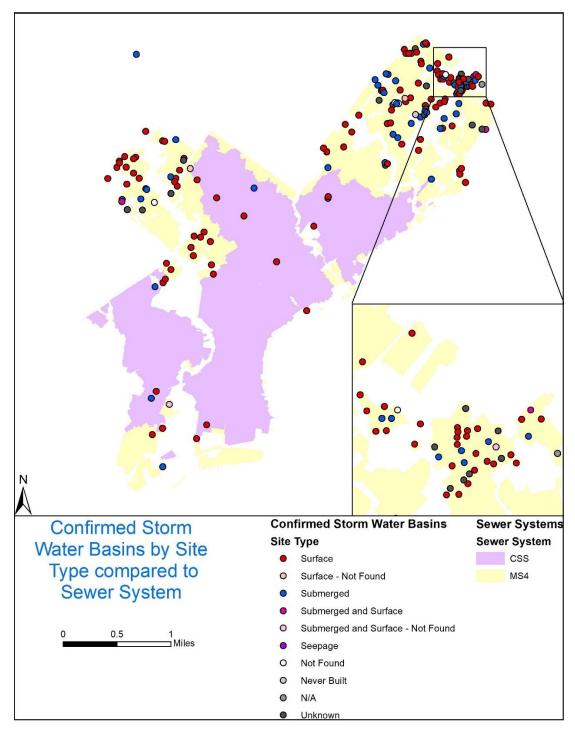
There are no not found or never built basins in the CSS. There is one just outside of Chestnut Hill that comes very close to being inside the CSS, but is instead just over the border into the MS4. This is the secondary interest because a basin not found or never built in the CSS would be owed to the city by the developers who pledged to build those.

Tertiary Interest – All MS4 Basins



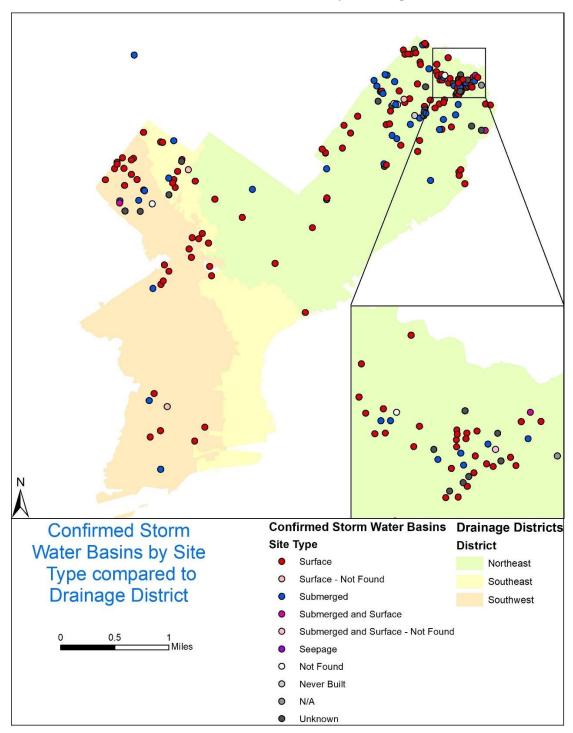
The 188 storm water basins in the MS4 represent 85% of all the 221 Philadelphia storm water basins.

III. General Basin Existence Confirmed Storm Water Basins by Sewer System



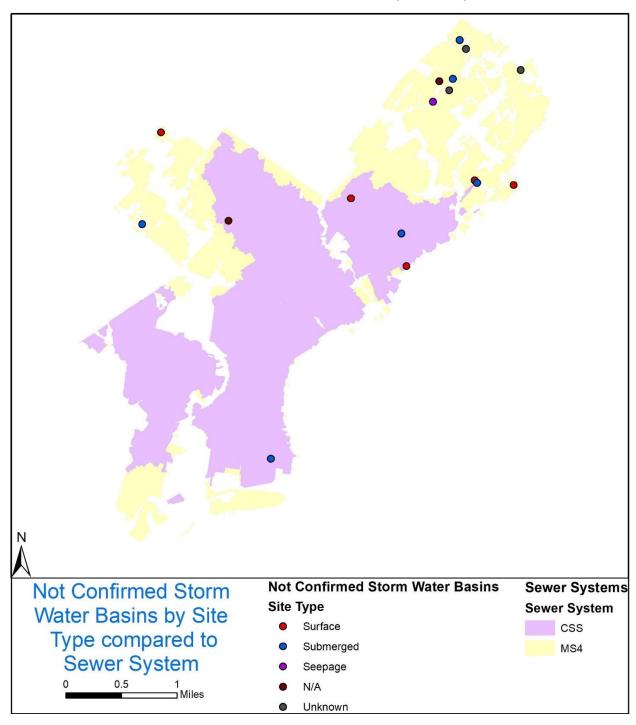
There are 197 confirmed storm water basins total. These make up 90% of the 221 Philadelphia stormwater basins. There are 16 confirmed basins in the CSS, 151 in the MS4, and 30 just barely outside of either. These represent 73% of the 22 basins in the CSS, 90% of the 168 storm water basins in the MS4, and 94% out of the 32 basins just barely outside of either.

Confirmed Storm Water Basins by Drainage District



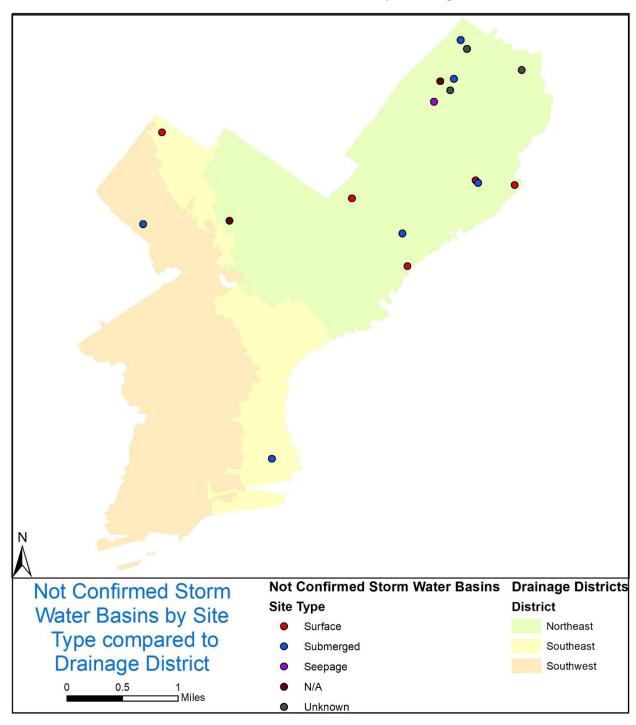
There are 143 confirmed basins in the Northeast Drainage District, 16 in the Southeast Drainage District, 40 in the Southwest Drainage District and 1 in none of these. These represent 89% of the 161 basins of all types in the Northeast Drainage District, 89% of the 18 basins of all types in the Southeast Drainage District, 91% of the 44 basins of all types in the Southwest Drainage District and 100% of the basins not in any of these.

Not Confirmed Storm Water Basins by Sewer System



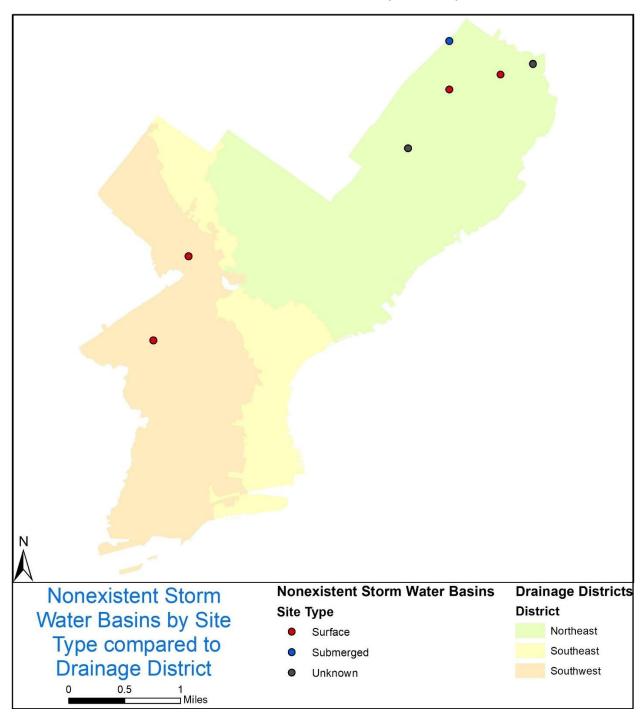
There are 17 not confirmed storm water basins total. These make up 8% of the 221 Philadelphia stormwater basins. There are 5 not confirmed basins in the CSS, 10 not confirmed basins in the MS4, and 2 just barely outside of either. These represent 23% of the 22 city CSS basins, 6% of the city MS4 basins and 6% of the city basins just barely outside of either.

Not Confirmed Storm Water Basins by Drainage District



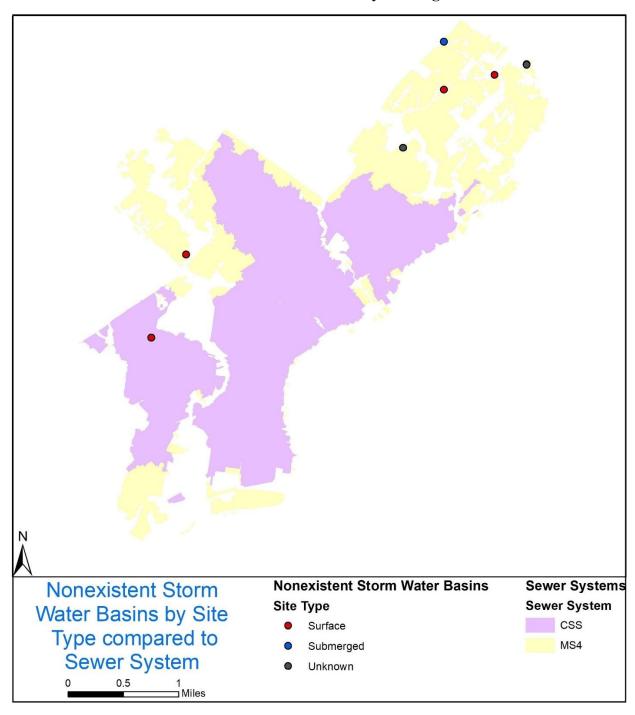
There are 14 not confirmed basins in the Northeast Drainage District, 2 in the Southeast Drainage District and 1 in the Southwest Drainage District. These represent 7% of the 161 basins of all types in the Northeast Drainage District, 11% of the 18 basins of all types in the Southeast Drainage District and 2% of the 44 basins of all types in the Southwest Drainage District.

Nonexistent Storm Water Basins by Sewer System



There are 6 nonexistent storm water basins total. These make up 3% of the 221 Philadelphia stormwater basins. There is 1 nonexistent basin in the CSS, 4 nonexistent basins in the MS4, and 1 just barely outside of either. These represent 5% of the 22 city CSS basins, 2% of the city MS4 basins and 3% of the city basins just barely outside of either.

Nonexistent Storm Water Basins by Drainage District



There are 4 nonexistent basins in the Northeast Drainage District, none in the Southeast Drainage District and 2 in the Southwest Drainage District. These represent 2% of the 161 basins of all types in the Northeast Drainage District and 5% of the 44 basins of all types in the Southwest Drainage District.

Appendix

Methodology

To conduct this analysis, I first analyzed the storm water basins in the 2009 storm water basins master list (\\pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water

Basins\SW_Basins_2009_GIS_Project\Master_List\2018.04.04_SW Basins 2009 Inspection Master List.xls) to divide them by existence: whether they were confirmed, not confirmed or nonexistent. Each basin's existence was determined by the information associated with each basin, such as the notes column of that spreadsheet. I did this in mid-March 2018.

To find the latitude and longitude coordinates of all the basins to prepare them for mapping, I put each category of basins by existence. For example, I put all basins confirmed to exist in their own CSV, all not confirmed basins in their own CSV and all nonexistent basins in their own CSV (these can all be found in the \\pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water

Basins\SW_Basins_2009_GIS_Project\SW_Basin_CSVs folder). I then went through each CSV and used Google Maps to ensure that I had the addresses for each: the addresses of where they exist for the confirmed ones, and the addresses of where they were supposed to exist for the not confirmed and nonexistent basins. I made sure I had addresses for as many basins as possible with help from other Philadelphia Water Department Staff such as Patrick Perhosky who looked through the department's old paper records. After getting the addresses, I made sure each address had "Philadelphia pa" written after them to ease the geocoding process. I then loaded each CSV into RStudio to geocode the addresses to get their latitude and longitude coordinates. R obtains coordinates for addresses through its "ggmap" library. I then manually copied and pasted all the coordinates into the CSVs. This can be found in \pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water

Basins\SW_Basins_2009_GIS_Project\Geocoder. I did all this during the last two weeks of March 2018.

In the first two weeks of April 2018, I then loaded each CSV into a new ArcMap file (\\pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water Basins\SW_Basins_2009_GIS_Project\MXD_Files\SW_Basins 2009_GIS_Project.mxd) to add their XY data to convert them into shapefiles, which I saved in the \\pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water Basins\SW_Basins_2009_GIS_Project\Shapefiles folder. I then added in two shapefiles from the Philadelphia Water Department's geodatabases into that ArcMap file: the OWS_GISDATA.OWS.Modelsheds_2011 shapefile representing the city's CSS and MS4 sewer system boundaries and the OWS_GISDATA.OWS.Modelsheds_2011 shapefile representing the city's different Drainage District boundaries, both from the OWS_GISDATA.OWS.WATERSHEDS geodatabase. I then began to spatially analyze the basins point shapefiles to map them. I merged the 3 shapefiles to create an all basins point shapefile, I symbolized the basins shapefiles by site type (ex. Surface, submerged, not found,

never built, etc.), and I used the select by attribute tool to create a host of new shapefiles from

my 2 city geodatabase shapefiles, 3 basins shapefiles and 1 merged all basins shapefile that contained: all surface basins, a shapefile with just the CSS polygon boundaries, a shapefile with just the MS4 polygon boundaries and shapefiles containing all surface basins in the CSS, all basins with not found or never built site types and all basins in the MS4. This was done to analyze the Philadelphia Water Department's three interests: 1) Their primary interest of all surface basins in the CSS, 2) their secondary interest of all basins in the CSs that were not found or never built, and 3) their tertiary interest of all basins in the MS4. I then created the JPEG maps for this report using these shapefiles.

In the last two weeks of April 2018, I then created the list of basins by drainage district and sewer system for this report. To do this, I first created numerous shapefiles in that ArcMap file. I started by making 2 shapefiles by spatial joining my all basins point shapefile to my separated sewer and Drainage District shapefiles: 1 containing all storm water basins broken down by sewer system and 1 containing all basins broken down by Drainage District. I then spatial joined those to get all basins with all their characteristics broken down by both sewer and Drainage District. I then exported this shapefile's attribute table as a CSV file which I converted into an Excel file (\\pwdhqr2\Plan Review\Stormwater Project Tracking\Compliance Planning\Pre-2006 Storm Water Basins\SW_Basins_2009_GIS_Project\SW_Basin_CSVs\ 20180425_All_SW_Basins_for_Appendix.xlsx), in which I then sorted to eliminate duplicates of basins accidentally created in the joining process and to identify basins outside of both sewer systems. I then copied the resulting table into this report.

List of All Basins by Drainage District and Sewer System

| Reference Number | Plat | Random Number | 2009 Unique ID | Address | Site Type | Existence | Sewer System | Drainage District |
|---------------------|------|------------------|-------------------|---------------------------------------|---------------|------------------|-----------------|----------------------|
| | | | | CSS Basins | | | | |
| | | | CSS N | ortheast Drainage Di | strict Basins | | | |
| | | | DR-080- | 6225 oxford ave | | | | |
| 042-003-D | 80 | 122 | 0122-A | Philadelphia pa | Submerged | Confirmed | CSS | NE |
| | 0 | 0 | | 6302 old York rd. | Submerged | Confirmed | CSS | NE |
| | U | 0 | | Philadelphia pa 9099 Frankford | Submerged | Confirmed | CSS | NE |
| | | | | avenue | | | | |
| | 0 | 0 | | Philadelphia pa | Submerged | Confirmed | CSS | NE |
| | 0 | 0 | | 122 w Erie ave Philadelphia pa | Surface | Confirmed | CSS | NE |
| | U | 0 | TF-069- | 1701 lindley ave | Surface | Commined | CBB | NE |
| 084-004-T | 69 | 99 | 0099-A | Philadelphia pa | Surface | Confirmed | CSS | NE |
| | 0 | 0 | | 332 e walnut ln | C | C61 | CCC | NIE |
| | 0 | 0 | | Philadelphia pa 6301-93 oxford | Surface | Confirmed | CSS | NE |
| | | | DR-080- | ave Philadelphia | | | | |
| 166-007-D | 80 | 101 | 0101-A | pa | Surface | Confirmed | CSS | NE |
| | | | DO 069 | 5818 Germantown Avenue | | Not | | |
| | 68 | 40 | PQ-068- 0040-A | Philadelphia PA | N/A | Confirmed | CSS | NE |
| | | | | 6302 Frankford | - 1, | | | |
| | | | | Ave, Philadelphia | | Not | a a a | |
| | 0 | 0 | | PA 9090 Frankford | Submerged | Confirmed | CSS | NE |
| | | | PP-092- | Avenue | | Not | | |
| | 92 | 128 | 0128-A | Philadelphia PA | Submerged | Confirmed | CSS | NE |
| | 80 | 185 | DR-080- 0185-A | 699-681 Robbins St Philadelphia PA | Surface | Not Confirmed | CSS | NE |
| | 80 | 163 | 0163-A | St I illiadeipilia i A | Surface | Commined | CSS | NE |
| | | | CSS S | outheast Drainage Di | strict Rasins | | | |
| | | | SR-047- | 2901 W Cambria | Street Busins | | | |
| 171-024-S | 47 | 134 | 0134-A | St Philadelphia pa | Surface | Confirmed | CSS | SE |
| | 16 | 160 | DR-016- | 2743 S 3RD ST | 6.1 1 | Not | CSS | GE. |
| | 16 | 169 | 0169-A | Philadelphia PA | Submerged | Confirmed | CSS | SE |
| | | | C88 84 | outhwest Drainage Di | ctrict Racine | | | |
| | | | CDD DC | 2100 n 49th st | strict Dasins | | | |
| | 0 | 0 | | Philadelphia pa | Submerged | Confirmed | CSS | SW |
| 077 010 6 | 4.0 | 405 | SR-019- | 2231 s 62 st | | | a a a | |
| 077-010-S | 19 | 105 | 0105-A SR-039- | Philadelphia pa 2100 n 49th street | Submerged | Confirmed | CSS | SW |
| 135-017-S | 39 | 95 | 0095-A | Philadelphia pa | Surface | Confirmed | CSS | sw |
| | | | | 2101 Belmont | | | | |
| | 0 | ^ | | avenue | Sueface | Confirmed | CSS | CW. |
| | U | 0 | | Philadelphia pa 3349-3301 | Surface | Confirmed | CSS | SW |
| | | | SR-005- | Penrose Ferry Rd | | | | |
| 142-019-S | 5 | 137 | 0137-A | Philadelphia pa | Surface | Confirmed | CSS | SW |
| | 0 | 0 | C A | 4300 Monument | Surface | Confirmed | CSS | SW |
| | U | 0 | SA | Rd Philadelphia pa 4300 monument | Surrace | Commen | CSS | S W |
| | | | SR-039- | road Philadelphia | | | | |
| | 39 | 150 | 0150-A | pa | Surface | Confirmed | CSS | SW |
| | | | | 5800 woodland ave Philadelphia | | | | |
| | 0 | 0 | | pa | Surface | Confirmed | CSS | sw |
| | | | | 5300 Lancaster | | | | |
| | 22 | 1 47 | SR-033- | Ave, Philadelphia | Cymfor | Noner:-t | CCC | CW |
| | 33 | 147 | 0147-A | PA | Surface | Nonexistent | CSS | SW |

| Reference Number | Plat | Random Number | 2009 Unique ID | Address | Site Type | Existence | Sewer System | Drainage District |
|------------------------|------|------------------|------------------------------|--|---------------|-----------|-----------------|----------------------|
| rumber | 1140 | rumber | Cilique ID | MS4 Basins | эне турс | Laistence | Бузил | District |
| | | | | | | | | |
| | | | MS4 N | ortheast Drainage Di 3138 | strict Basins | | | |
| | | | | Mechanicsville road Philadelphia | | | | |
| | 0 | 0 | DD 400 | pa 1209-1217 | N/A | Confirmed | MS4 | NE |
| 098-033-PP 172-091- | 109 | 116 | PP-109- 0116-A PQ-118- | Norwalk road Philadelphia pa 2198 hornig road | not found | Confirmed | MS4 | NE |
| PQB | 118 | 17 | 0017-A | Philadelphia pa 9892 bustleton ave | not found | Confirmed | MS4 | NE |
| | 0 | 0 | PP-109- | Philadelphia pa 9945-49 Norwalk | not found | Confirmed | MS4 | NE |
| 043-006-PP | 109 | 117 | 0117-A PP-113- | rd. Philadelphia pa 10049 sandmeyer | Seepage | Confirmed | MS4 | NE |
| | 113 | 151 | 0151-A | la Philadelphia pa 10087 sandmeter | Submerged | Confirmed | MS4 | NE |
| 140-027- PD | 112 | 172 | PP-112- 0172-A | lane Philadelphia | Submerged | Confirmed | MS4 | NE |
| | 0 | 0 | | 10089 sandmeyer lane Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 102-062- PQB | 110 | 158 | PQ-110- 0158-A | 10551 Decatur road Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 161-086- PQB | 110 | 138 | PQ-110- 0138-A | 10975 Dutton road Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 007.000 | 0 | 0 | PO 114 | 13000 trina dr Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 097-060- PQB | 114 | 157 | PQ-114- 0157-A | 1340 Stewarts way Philadelphia pa 13675 Philmont | Submerged | Confirmed | MS4 | NE |
| | 120 | 135 | PQ-120- 0135-A | ave Philadelphia pa 13678 Philmont | Submerged | Confirmed | MS4 | NE |
| 148-081- PQ | 0 | 0 | | ave Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| | 0 | 0 | | 14420 Townsend rd. Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 040-023- PQ | 120 | 119 | PQ-120- 0119-A | 14425 bustleton avenue Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| TŲ | 0 | 0 | | 2015 welsh rd. Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| | 109 | 47 | PQ-109- 0047-A | 2072-80 red lion rd. Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 023-010- PQB | 118 | 88 | PQ-118- 0088-A | 2101 horning road Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 041-024- PQB | 118 | 110 | PQ-118- 0110-A | 2190 horning road Philadelphia pa 225-73 Geiger | Submerged | Confirmed | MS4 | NE |
| 113-023- PD | 112 | 167 | PP-112- 0167-A | road Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 095-057- PQ | 118 | 54 | PQ-118- 0054-A | 2701 commerce way Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 063-041- PQB | 109 | 14 | PQ-109- 0014-A | 2751 red lion rd. Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| | 32 | 163 | PQ-032- 0163-A | 2760 red lion road Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 192-108- PQB | 0 | 0 | | 2760Â red lion road Philadelphia pa | Submerged | Confirmed | MS4 | NE |

| Reference | | Random | 2009 | | | | Sewer | Drainage |
|------------------|------|--------|-------------------|---------------------------------------|---------------------------------------|-----------|--------|----------|
| Number | Plat | Number | Unique ID | Address | Site Type | Existence | System | District |
| | | | | 2800 black lake | | | | |
| 051-030- | 110 | 90 | PQ-118- 0080-A | place Philadelphia | C1 | C£:1 | MC4 | NE |
| PQ-A 039-022- | 118 | 80 | PQ-114- | pa 2800 Southampton | Submerged | Confirmed | MS4 | NE |
| PQB | 114 | 29 | 0029-A | Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 079-051- | | | PQ-110- | 2801 red lion road | | | | |
| PQB | 110 | 126 | 0126-A | Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 179-096- | | | PQ-114- | 2900 black lake place Philadelphia | | | | |
| PQ | 114 | 68 | 0068-A | pa piace Finiadeipina | Submerged | Confirmed | MS4 | NE |
| 037-019- | | | | 3050 red lion road | a a a a a a a a a a a a a a a a a a a | | | |
| PQB | 0 | 0 | | Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| | 0 | 0 | | 840 cottman ave | G 1 1 | G C 1 | MG4 | NE |
| | 0 | 0 | | Philadelphia pa 8400 Roosevelt | Submerged | Confirmed | MS4 | NE |
| | | | PP-100- | boulevard | | | | |
| 173-034-P | 100 | 124 | 0124-A | Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| | | | | 9250 e Roosevelt | | | | |
| 119-025- PW | 105 | 120 | PP-105- 0120-A | Blvd. Philadelphia | Submerged | Confirmed | MS4 | NE |
| PW | 103 | 120 | 0120-A | pa 9815 e Roosevelt | Submerged | Commined | W154 | NE |
| | | | PP-109- | Blvd. Philadelphia | | | | |
| | 109 | 178 | 0178-A | pa | Submerged | Confirmed | MS4 | NE |
| 0.42.000.00 | 400 | | PP-109- | 9945-49 Norwalk | | G 61 1 | 3.50.4 | |
| 043-009-PP | 109 | 118 | 0118-A DR-112- | rd. Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 186-036- PD | 112 | 136 | 0136-A | 9954 gardenia lane Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 149-082- | 112 | 130 | PQ-114- | 1 crown way | Buomergeu | Commune | THIS I | TILE |
| PQB | 114 | 58 | 0058-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 0.57.040 | | | DO 112 | 10102 Jamison | | | | |
| 065-042- | 113 | 39 | PQ-113- 0039-A | ave Philadelphia | Surface | Confirmed | MS4 | NE |
| PQB | 113 | 39 | PP-113- | pa 10125 verree road | Surface | Commined | W154 | NE |
| 111-021-PP | 113 | 94 | 0094-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | | 10300 Drummond | | | | |
| | 0 | 0 | | rd. Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 106-063- | | | PQ-110- | 10975 academy road Philadelphia | | | | |
| PQB | 110 | 83 | 0083-A | pa | Surface | Confirmed | MS4 | NE |
| | | | | 11311 Roosevelt | | | | |
| 152-085- | | | PQ-109- | Blvd. Philadelphia | | | | |
| PQB | 109 | 111 | 0111-A | pa 11400 northeast | Surface | Confirmed | MS4 | NE |
| 033-017- | | | PQ-113- | avenue | | | | |
| PQB | 113 | 49 | 0049-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | | 11501 Roosevelt | | | | |
| | | | | Blvd. Philadelphia | | G 61 1 | 3.50.4 | |
| | 0 | 0 | | pa 11600 norcom | Surface | Confirmed | MS4 | NE |
| 080-052- | | | PQ-114- | road Philadelphia | | | | |
| PQB | 114 | 92 | 0092-A | pa | Surface | Confirmed | MS4 | NE |
| | | | | 12260 Townsend | | | | |
| 056-035- | 114 | 177 | PQ-114- | road Philadelphia | Court | G C 1 | MC4 | NIE |
| PQB | 114 | 176 | 0176-A | pa 12273 Townsend | Surface | Confirmed | MS4 | NE |
| 096-059- | | | PQ-114- | road Philadelphia | | | | |
| PQB | 114 | 168 | 0168-A | pa | Surface | Confirmed | MS4 | NE |
| | | | | 12300 mcnulty | | | | |
| 038-021- | 110 | 25 | PQ-118- | road Philadelphia | Courte | C6: 1 | MC4 | NIE |
| PQ | 118 | 25 | 0025-A | pa 12300 mcnulty | Surface | Confirmed | MS4 | NE |
| 038-020- | | | PQ-118- | road Philadelphia | | | | |
| PQ | 118 | 24 | 0024-A | pa | Surface | Confirmed | MS4 | NE |
| TOWNS- | | | PQ-119- | 12301 McNulty | | | | |
| CLVT | 119 | 187 | 0187-A | Rd Philadelphia pa | Surface | Confirmed | MS4 | NE |

| Reference Number | Plat | Random Number | 2009 Unique ID | A 33 | C:4 - T | F-:-4 | Sewer | Drainage |
|---------------------|-------|------------------|-------------------|---------------------------------------|-----------|-----------|--------|----------|
| Number | 1 lat | Number | Omque ID | Address 12401 mcnulty | Site Type | Existence | System | District |
| 031-015- | | | PQ-114- | road Philadelphia | | | | |
| PQ | 114 | 18 | 0018-A | pa | Surface | Confirmed | MS4 | NE |
| 100.066 | | | PO 114 | 12601 Townsend | | | | |
| 109-066- PQ | 114 | 146 | PQ-114- 0146-A | road Philadelphia pa | Surface | Confirmed | MS4 | NE |
| TQ | 114 | 140 | 0140-A | 12700 Townsend | Surface | Commined | WISH | INE |
| 069-046- | | | PQ-114- | road Philadelphia | | | | |
| PQ | 114 | 67 | 0067-A | pa | Surface | Confirmed | MS4 | NE |
| 160,000 | | | DO 114 | 12800 Townsend | | | | |
| 169-090- PQ | 114 | 130 | PQ-114- 0130-A | road Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 067-043- | 114 | 130 | PQ-115- | 12802 galdi ln | Burrace | Commined | WIDT | IVE |
| PQ | 115 | 103 | 0103-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | | 12901 Townsend | | | | |
| 053-075- | 115 | 50 | PQ-115- | road Philadelphia | g c | C C 1 | MC4 | NE |
| PQ | 115 | 50 | 0050-A | pa 12901 Townsend | Surface | Confirmed | MS4 | NE |
| 053-032- | | | PQ-114- | road Philadelphia | | | | |
| PQ | 114 | 53 | 0053-A | pa | Surface | Confirmed | MS4 | NE |
| | | | PQ-118- | 13451 damar drive | | | | |
| | 118 | 186 | 0186-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | 119 | 156 | PQ-119- 0156-A | 14002 mcnulty rd. Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | 11) | 130 | 0130-A | 14002 mcnulty | Surrace | Commined | WIST | INL |
| | | | PQ-119- | road Philadelphia | | | | |
| 140002 | 119 | 155 | 0155-A | pa | Surface | Confirmed | MS4 | NE |
| 122-069- | 110 | 0.6 | PQ-119- | 14005 mcnulty rd. | G C | C C 1 | MC4 | NIE |
| PQ 150-083- | 119 | 96 | 0096-A PQ-119- | Philadelphia pa 14300 Townsend | Surface | Confirmed | MS4 | NE |
| PQ | 119 | 71 | 0071-A | rd. Philadelphia pa | Surface | Confirmed | MS4 | NE |
| - 4 | 117 | , - | 00/111 | 15000 poquessing | Burrace | Commune | 1110 | 1,2 |
| | | | | creek ln | | | | |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | 0 | 0 | | 1630 welsh rd. Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | U | 0 | | 1701 grant avenue | Burrace | Commined | WIDT | INE |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | PP-109- | 1901 Reilly road | | | | |
| 117.060 | 109 | 84 | 0084-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 117-068- PQB | 118 | 55 | PQ-118- 0055-A | 2000 kubach road Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 181-098- | 110 | - 33 | PQ-118- | 2100 horning road | Burrace | Commined | WIDT | INE |
| PQB | 118 | 145 | 0145-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 094-056- | | | PQ-118- | 2100 kubach road | | | | |
| PQB 024-011- | 118 | 10 | 0010-A | Philadelphia pa 2180 horning road | Surface | Confirmed | MS4 | NE |
| 024-011- PQB | 118 | 125 | PQ-118- 0125-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 046-027- | 110 | 123 | PQ-118- | 2191 horning road | Sarrace | Commined | 11107 | 112 |
| PQB | 118 | 144 | 0144-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 045-026- | | | PQ-118- | 2704 black lake pl | 0.0 | G 2 1 | 3.60.4 | NE |
| PQ 085-054- | 118 | 165 | 0165-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 085-054- PQ | 118 | 31 | PQ-118- 0031-A | 2705 black lake pl Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 054-033- | 110 | 31 | PQ-118- | 2706 black lake pl | Surrect | Commined | 11101 | 1,12 |
| PQ | 118 | 174 | 0174-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 089-055- | 1.0 | | PQ-118- | 2707 black lake pl | G 6 | G 6 . | 2404 | NE |
| PQ | 118 | 65 | 0065-A | Philadelphia pa 2709 commerce | Surface | Confirmed | MS4 | NE |
| | | | PQ-118- | way Philadelphia | | | | |
| | 118 | 15 | 0015-A | pa | Surface | Confirmed | MS4 | NE |
| | | | | 2722 commerce | | | | |
| 180-097- | | | PQ-118- | way Philadelphia | | | | |
| PQ 030-014- | 118 | 161 | 0161-A | pa 2800 norcom rd. | Surface | Confirmed | MS4 | NE |
| 030-014- PQB | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| т Фр | U | U | | т ппачетрита ра | Burrace | Commineu | 1/1/2+ | INE |

| Reference | DI 4 | Random | 2009 | | Gt. = | | Sewer | Drainage |
|-----------------------|------|--------|-------------------|--------------------------------------|-------------------------|-----------|--------|----------|
| Number | Plat | Number | Unique ID | Address 2811 charter road | Site Type | Existence | System | District |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 136-074- | | | PQ-114- | 2825-45 Southampton road | | | | |
| PQ | 114 | 143 | 0143-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | | 2900 comly rd. | | | | |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 015-003- PW | 105 | 85 | PP-105- 0085-A | 2901 grant avenue Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 1 ** | 103 | 65 | 0063-A | 3000 meeting | Surface | Commined | WIS4 | NE |
| | | | PQ-119- | house road | | | | |
| 010.006 | 119 | 20 | 0020-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 019-006- PQ (1) | 120 | 36 | PQ-120- 0036-A | 301 Byberry road Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 10(1) | 120 | 30 | 0030-A | 301 Byberry Road, | Surrace | Commined | WIST | NL |
| | 0 | 0 | | Philadelphia PA | Surface | Confirmed | MS4 | NE |
| 020-084- | 100 | 90 | PQ-102- | 4701 grant ave | g c | G 1 | M64 | NIE |
| PQ | 102 | 89 | 0089-A PP-104- | Philadelphia pa 501 ridgerun la | Surface | Confirmed | MS4 | NE |
| 151-030-P | 104 | 87 | 0087-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | TF-098- | 7500 central ave | | | | |
| 014-001-T | 98 | 76 | 0076-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | | 7600 central avenue | | | | |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | | 7701r burholme | | | | |
| 014 000 T | 98 | 75 | TF-098- | avenue | C | C | MC4 | NIE |
| 014-008-T 165-088- | 98 | 75 | 0075-A PO-117- | Philadelphia pa 780 Byberry road | Surface | Confirmed | MS4 | NE |
| PQB | 117 | 69 | 0069-A | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | | | PP-099- | 8001 verree road | | | | |
| 174-035-P | 99 | 56 | 0056-A | Philadelphia pa 8401 Roosevelt | Surface | Confirmed | MS4 | NE |
| | | | PP-100- | Blvd. Philadelphia | | | | |
| 155-031-P | 100 | 70 | 0070-A | pa | Surface | Confirmed | MS4 | NE |
| | 101 | | PP-104- | 8540 veree rd. | a . | | 3.50.4 | |
| | 104 | 57 | 0057-A | Philadelphia pa 9200 blue grass | Surface | Confirmed | MS4 | NE |
| | | | | road Philadelphia | | | | |
| | 0 | 0 | | pa | Surface | Confirmed | MS4 | NE |
| | | | | 9200 blue grass | | | | |
| | 0 | 0 | | road Philadelphia pa | Surface | Confirmed | MS4 | NE |
| | Ü | | | 9600 Milnor st | Bulluce | Commune | 1110 | 1,2 |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 028-012- PQ | 102 | 66 | PQ-102- 0066-A | 9621 Eden hall la Philadelphia pa | Surface | Confirmed | MS4 | NE |
| rų | 102 | 00 | 0000-A | 9741 krewstown | Surface | Commined | W154 | NE |
| | | | PP-109- | road Philadelphia | | | | |
| 011-001-PP | 109 | 59 | 0059-A | pa | Surface | Confirmed | MS4 | NE |
| 086-013- PD | 112 | 113 | PP-112- 0113-A | 9947 global rd. Philadelphia pa | Surface | Confirmed | MS4 | NE |
| 110 | 112 | 113 | 0113 A | 12901 Townsend | Surrace | Comminu | 7107 | 112 |
| 053-076- | | | PQ-115- | road Philadelphia | Surface & | | | |
| PQ 032-016- | 115 | 51 | 0051-A | pa 14400 mcnulty rd. | Submerged | Confirmed | MS4 | NE |
| 032-016- PQ | 119 | 107 | PQ-119- 0107-A | Philadelphia pa | Surface & Submerged | Confirmed | MS4 | NE |
| 021-008- | -117 | 107 | PQ-111- | 4338 Byberry rd. | Surface & | Somminou | | 1,2 |
| PQ | 111 | 77 | 0077-A | Philadelphia pa | Submerged | Confirmed | MS4 | NE |
| 047-028- | | | PQ-118- | 13000 Townsend road Philadelphia | Surface & Submerged- | | | |
| PQ | 118 | 131 | 0131-A | pa | - not found | Confirmed | MS4 | NE |
| | - | | | 2800 black lake | | | | |
| 051-030- | 110 | 0.1 | PQ-118- | place Philadelphia | Surface | Confirmed | MS4 | NIE |
| PQ-B | 118 | 81 | 0081-A | pa | not found | Confirmed | MS4 | NE |

| Reference | | Random | 2009 | | | | Sewer | Drainage |
|-----------------|------|--------|-------------------|---|------------|------------------|--------|----------|
| Number | Plat | Number | Unique ID | Address 11082 knights | Site Type | Existence | System | District |
| 116-067- | | | PQ-111- | road Philadelphia | | | | |
| PQB | 111 | 26 | 0026-A | pa | Unknown | Confirmed | MS4 | NE |
| 000 017 DD | 100 | 115 | PP-109- | 1225 Norwalk rd. | T I 1 | C | MC4 | NE |
| 098-017-PP | 109 | 115 | 0115-A PQ-114- | Philadelphia pa 12270 Townsend | Unknown | Confirmed | MS4 | NE |
| | 114 | 1 | 0001-A | rd. Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 018-005- | | | PQ-114- | 12285 mcnulty rd. | | | | |
| PQB | 114 | 129 | 0129-A | Philadelphia pa 12301 mcnulty | Unknown | Confirmed | MS4 | NE |
| 072-048- | | | | road Philadelphia | | | | |
| PQ | 0 | 0 | | pa | Unknown | Confirmed | MS4 | NE |
| 050 020 | | | PO 114 | 12600 Townsend | | | | |
| 050-029- PQ | 114 | 8 | PQ-114- 0008-A | road Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 1.4 | 111 | | 000071 | 12901 Townsend | CIRCIOWII | Communed | 11151 | TAB |
| 053-077- | | | PQ-114- | road Philadelphia | | | | |
| PQ | 114 | 52 | 0052-A | pa 13500 Philmont | Unknown | Confirmed | MS4 | NE |
| | | | PQ-120- | avenue | | | | |
| | 120 | 35 | 0035-A | Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 052 021 | | | DO 110 | 14001 Townsend | | | | |
| 052-031- PQ | 119 | 61 | PQ-119- 0061-A | road Philadelphia | Unknown | Confirmed | MS4 | NE |
| 168-089- | 117 | | PQ-113- | 2040 Bennett road | CIMITO WIL | Commind | 1110 | |
| PQB | 113 | 123 | 0123-A | Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 115-024- PD | 112 | 139 | PP-112- 0139-A | 268 Geiger road Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 1D | 112 | 139 | PQ-109- | 2701 red lion road | Clikilowii | Commined | WIS4 | NE |
| | 109 | 140 | 0140-A | Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| | 110 | ć 4 | PQ-118- | 2701 Southampton | ** 1 | G 5 1 | MG4 | NE |
| | 118 | 64 | 0064-A PQ-032- | rd. Philadelphia pa 2770 red lion road | Unknown | Confirmed | MS4 | NE |
| | 32 | 162 | 0162-A | Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 025010 | | | DO 111 | 2905 Southampton | | | | |
| 036-018- PQ | 114 | 62 | PQ-114- 0062-A | road Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| 10 | 117 | 02 | 0002 11 | 800 Gina dr | CIRLIOWII | Commined | WIST | INE |
| | 0 | 0 | | Philadelphia pa | Unknown | Confirmed | MS4 | NE |
| | | | PP-100- | 8351 e Roosevelt Blvd. Philadelphia | | | | |
| | 100 | 23 | 0023-A | pa | Unknown | Confirmed | MS4 | NE |
| | | | | 9998-9964 | | | | |
| 177-094- PQB | 113 | 27 | PQ-113- | Northeast Ave | Surface | None | MS4 | NE |
| гүь | 113 | 27 | 0027-A | Philadelphia PA 14400 Townsend | Surface | Nonexistent | W154 | INE. |
| 176-093- | | | PQ-119- | Rd Philadelphia | | | | |
| PQ | 119 | 97 | 0097-A | PA | Unknown | Nonexistent | MS4 | NE |
| | | | PP-099- | 8335-8345 Algon Ave Philadelphia | | | | |
| 141-028-P | 99 | 43 | 0043-A | PA | Unknown | Nonexistent | MS4 | NE |
| | | | | 10113-15 Verree | | | | |
| 013-002-PP | 113 | 41 | PP-113- 0041-A | Rd Philadelphia PA | N/A | Not Confirmed | MS4 | NE |
| 015 002-11 | 113 | 71 | PP-109- | 68 Marple Drive | 11//1 | Not | 1110-1 | 1112 |
| 147-029-PP | 109 | 106 | 0106-A | Philadelphia PA | Seepage | Confirmed | MS4 | NE |
| | | | DD 112 | 10204 Northeast | | Not | | |
| 027-005-PP | 113 | 164 | PP-113- 0164-A | Ave Philadelphia PA | Submerged | Confirmed | MS4 | NE |
| | | | PQ-120- | 13040 Depue Ave | | Not | | |
| 146-80-PQ | 120 | 152 | 0152-A | Philadelphia PA | Submerged | Confirmed | MS4 | NE |
| 107-020-P | 92 | 60 | PP-092- 0060-A | 3324 Willits Road Philadelphia PA | Surface | Not Confirmed | MS4 | NE |
| 107 020 1 | 72 | 30 | DR-101- | 5100 Fitler Street | Surrect | Not | 2720 1 | 112 |
| | 101 | 72 | 0072-A | Philadelphia PA | Surface | Confirmed | MS4 | NE |

| Reference Number | Plat | Random Number | 2009 Unique ID | Address | Site Type | Existence | Sewer System | Drainage District |
|---------------------|--------|------------------|-------------------|--------------------------------------|----------------|------------------|-----------------|----------------------|
| 110000 | 1 2000 | 110111001 | 0111940012 | 13200 Townsend | Site Type | ZAISTEREE | System | District |
| 145-079- | | | PQ-119- | Road Philadelphia | | Not | | |
| PQ | 119 | 33 | 0033-A | PA | Unknown | Confirmed | MS4 | NE |
| | 117 | 184 | PQ-117- 0184-A | 752 Byberry Rd Philadelphia PA | Unknown | Not Confirmed | MS4 | NE |
| | 117 | 104 | 010+71 | Timadeipina T7 | Chkhown | Commined | WIDT | NE |
| | 1 | | MS4 S | outheast Drainage Di | strict Basins | T | 1 | |
| | | | WS-076- | 7714 Moreland circle Philadelphia | | | | |
| | 76 | 4 | 0004-A | pa | Submerged | Confirmed | MS4 | SE |
| | ,,, | | PQ-118- | 10 e Moreland ave | Buomergeu | Сонтиней | IVIS I | SE . |
| | 118 | 179 | 0179-A | Philadelphia pa | Surface | Confirmed | MS4 | SE |
| | | | SR-052- | 2900 queen lane | | | | |
| | 52 | 109 | 0109-A | Philadelphia pa | Surface | Confirmed | MS4 | SE |
| | 76 | 3 | WS-076- 0003-A | 540 telner street Philadelphia pa | Surface | Confirmed | MS4 | SE |
| | 70 | <u> </u> | 0003-A | 6950 Germantown | Surface | Commined | WISH | SE |
| | | | WS-077- | ave Philadelphia | | | | |
| | 77 | 82 | 0082-A | pa | Surface | Confirmed | MS4 | SE |
| | | | | 7611 st martins | | | | |
| | 76 | 7 | WS-076- | lane Philadelphia | C | Confirmed | MC4 | CE. |
| | 76 | 7 | 0007-A WS-076- | pa 7614 mccallum st | Surface | Confirmed | MS4 | SE |
| | 76 | 180 | 0180-A | Philadelphia pa | Surface | Confirmed | MS4 | SE |
| | | | | 8835 Germantown | | | | |
| | | | WS-075- | Ave Philadelphia | | | | |
| | 75 | 166 | 0166-A | pa | Surface | Confirmed | MS4 | SE |
| | | | | 8855 Germantown | | | | |
| | 0 | 0 | | avenue Philadelphia pa | Surface | Confirmed | MS4 | SE |
| | Ů | 0 | | 7406 Germantown | Burrace | Сонтиней | IVIS I | SE . |
| | | | WS-077- | avenue | Surface | | | |
| | 77 | 112 | 0112-A | Philadelphia pa | Not Found | Confirmed | MS4 | SE |
| | | | WIG 0.60 | 2967 w school | | | | |
| 156-029-W | 60 | 12 | WS-060- 0012-A | house lane Philadelphia pa | Unknown | Confirmed | MS4 | SE |
| 130 025 11 | - 00 | 12 | 0012 71 | 7700 Germantown | CIRIOWII | Commined | 1415-4 | SE . |
| | | | WS-086- | avenue | | | | |
| | 86 | 45 | 0045-A | Philadelphia pa | Unknown | Confirmed | MS4 | SE |
| | | | ***** | 9201 Germantown | | | | |
| | 95 | 181 | WS-095- 0181-A | Ave Philadelphia PA | Surface | Not Confirmed | MS4 | SE |
| | 93 | 101 | 0161-A | IA | Surrace | Commined | 10154 | SE |
| | | | MS4 S | outhwest Drainage D | istrict Basins | | | |
| | | | | 561 fairthorme | | | | |
| 000 010 117 | | 42 | WS-067- | avenue | | | MG4 | CNV |
| 082-010-W | 67 | 42 | 0042-A | Philadelphia pa 201-27 shawmont | not found | Confirmed | MS4 | SW |
| | | | SR-066- | avenue | | | | |
| | 66 | 90 | 0090-A | Philadelphia pa | Submerged | Confirmed | MS4 | SW |
| | | | | 700 valley green ct | | | | |
| | 0 | 0 | | Philadelphia pa | Submerged | Confirmed | MS4 | SW |
| | | | WG 004 | 120-122 Caledonia | | | 1 | |
| 078-009-W | 84 | 34 | WS-084- 0034-A | street Philadelphia | Surface | Confirmed | MS4 | SW |
| 010-007 - W | 04 | | 005+-A | 3000 w school | Builace | Commilled | 14194 | D 44 |
| | | | | house ln | | | 1 | |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | | | | 3200 s 70th st | | | | |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | | | | 3243 w school | | | 1 | |
| | | | WS-060- | house ln | | | 1 | |
| 035-008-S | 60 | 133 | 0133-A | Philadelphia pa | Surface | Confirmed | MS4 | SW |

| Reference Number | Plat | Random Number | 2009 Unique ID | Address | Site Type | Existence | Sewer System | Drainage District |
|---------------------|-------|------------------|-------------------|---------------------------------------|---------------|------------------|-----------------|----------------------|
| 110222002 | 1 100 | 110111001 | 01114110122 | 3464 w school | Site Type | Laistence | System | District |
| 035-016-W | 52 | 132 | SR-052- 0132-A | house ln Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | 0 | 0 | | 3610 Midvale ave Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | Ü | <u> </u> | | 3955 | Surace | Commined | Wist | 5.11 |
| | | | SR-046- | Conshohocken avenue | | | | |
| 164-021-S | 46 | 148 | 0148-A | Philadelphia pa | Surface | Confirmed | MS4 | SW |
| 170-023-S | 75 | 154 | SR-075- 0154-A | 513 Lantern Ln Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | 0 | 0 | | 518 port royal ave Philadelphia pa | Surface | Confirmed | MS4 | sw |
| 170 022 G | 7.5 | 152 | SR-075- | 525 Greenhill In | G C | G C 1 | MC4 | |
| 170-022-S | 75 | 153 | 0153-A WS-067- | Philadelphia pa 619 wigard ave | Surface | Confirmed | MS4 | SW |
| | 67 | 170 | 0170-A | Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | | | WS-075- | 683 summit | | | | |
| | 75 | 160 | WS-075- 0160-A | avenue Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | 73 | 100 | 010071 | 7219 ridge avenue | Burrace | Commined | 14154 | 5 ** |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | | | | 814 Caledonia | | | | |
| | | | WS-075- | road Philadelphia | | | | |
| 049-005-W | 75 | 46 | 0046-A | pa | Surface | Confirmed | MS4 | SW |
| | | | CD 004 | 9038 arydale | | | | |
| | 84 | 22 | SR-084- 0022-A | crescent Philadelphia pa | Surface | Confirmed | MS4 | SW |
| | 04 | | 0022-A | 300 autumn river | Surface | Commined | WISH | 3 ** |
| | | | | run Philadelphia | Surface & | | | |
| | 0 | 0 | | pa | Submerged | Confirmed | MS4 | SW |
| | | | SR-059- | 290 parker avenue | | | | |
| 093-012-S | 59 | 2 | 0002-A | Philadelphia pa | Unknown | Confirmed | MS4 | SW |
| | | | SR-052- | 257-273 Osborne | | | | |
| | 52 | 121 | 0121-A | St Philadelphia PA | Surface | Nonexistent | MS4 | SW |
| | 59 | 126 | SR-059- 0126-A | 100 Parker Ave Philadelphia PA | Submerged | Not Confirmed | MS4 | SW |
| | | | Bas | ins in Neither Sewe | er System | | | |
| | | N | ortheast Drain | age District Basins in | Neither Sewer | System | | |
| | | | | 9901 e Roosevelt | | | | |
| 125-070- | | | PQ-110- | boulevard | | | | |
| PQB | 110 | 114 | 0114-A | Philadelphia pa | never built | Confirmed | N/A | NE |
| 0.5 | | | 20 115 | 12872 knights | | | | |
| 067-044- | 115 | 104 | PQ-115- | road Philadelphia | C | C | NT/A | NIE |
| PQ | 115 | 104 | 0104-A | pa 15501 bustleton | Surface | Confirmed | N/A | NE |
| | | | | ave Philadelphia | | | | |
| | 0 | 0 | | pa | Surface | Confirmed | N/A | NE |
| | 0 | <u> </u> | PP-043- | 2801 Richmond st | Burrace | Commined | 14/21 | NE |
| 134-006-D | 43 | 142 | 0142-A | Philadelphia pa | Surface | Confirmed | N/A | NE |
| | | | - | 290 Byberry Road, | | | | · |
| | 0 | 0 | | Philadelphia PA | Surface | Confirmed | N/A | NE |
| 075-050- | | | PQ-120- | 420 Laura lane | | | | |
| PQ | 120 | 100 | 0100-A | Philadelphia pa | Surface | Confirmed | N/A | NE |
| | | | mp of : | 4641 Roosevelt | | | | |
| 055 007 T | 7. | 70 | TF-071- | Blvd. Philadelphia | CC | C C 1 | NT/A | NIE |
| 055-007-T | 71 | 78 | 0078-A | pa 4799-4581 | Surface | Confirmed | N/A | NE |
| 020-007- | | | | 4/99-4581 Stevenson St | | | | |
| 020-007- PQ | 0 | 0 | | Philadelphia pa | Surface | Confirmed | N/A | NE |
| · ~ | U | U | | т ппастріпа ра | Burrace | Committee | 11/11 | 112 |
| | | | | | | | | |
| | | | | 8145 Hornig Rd Philadelphia pa | | | | |

| Reference | | Random | 2009 | | | | Sewer | Drainage |
|-------------|----------|----------|-------------------|---|----------------|-------------|---------|----------|
| Number | Plat | Number | Unique ID | Address | Site Type | Existence | System | District |
| | | | | 9000 Jennifer | | | | |
| | 0 | 0 | | terrace | G C | G C 1 | NT/A | NIE |
| | 0 | 0 | PP-105- | Philadelphia pa 9400 ashton rd. | Surface | Confirmed | N/A | NE |
| | 105 | 48 | 0048-A | Philadelphia pa | Surface | Confirmed | N/A | NE |
| | 103 | 40 | PP-113- | 920 red lion rd. | Surface | Commined | 14/71 | NE |
| 026-004-PP | 113 | 28 | 0028-A | Philadelphia pa | not found | Confirmed | N/A | NE |
| | | | PP-109- | 1200 Serota place | | | | |
| 048-007-PP | 109 | 19 | 0019-A | Philadelphia pa | Unknown | Confirmed | N/A | NE |
| | | | | 4292-4298 | | | | |
| 074-049- | | 100 | PQ-111- | Whiting Rd | | | 27/4 | |
| PQ | 111 | 102 | 0102-A | Philadelphia pa | Unknown | Confirmed | N/A | NE |
| | 117 | 177 | PQ-117- | 102R Byberry Rd | Cuhmanad | Nonevistant | NI/A | NE |
| | 117 | 177 | 0177-A | Philadelphia PA 5801 Tacony | Submerged | Nonexistent | N/A | NE |
| | | | DR-064- | Street Philadelphia | | Not | | |
| | 64 | 30 | 0030-A | PA | Surface | Confirmed | N/A | NE |
| | | | | 2000 Red Lion | | | - " - " | |
| | | | PP-113- | Road Philadelphia | | Not | | |
| 105-019-PP | 113 | 9 | 0009-A | PA | Unknown | Confirmed | N/A | NE |
| | | 9 | | D1 / 1 / D / 1 | | g . | | |
| | 1 | <u> </u> | outheast Draina | age District Basins in | Neither Sewer | System | 1 | |
| | 0 | 0 | | 8600 prospect ave | 6.1 1 | G C 1 | NT/A | G.E. |
| | 0 | 0 | | Philadelphia pa | Submerged | Confirmed | N/A | SE |
| | | | WS-076- | 620 st Georges road Philadelphia | | | | |
| | 76 | 5 | 0005-A | pa | Surface | Confirmed | N/A | SE |
| 059-006- | 70 | 3 | WS-067- | 800 St Georges Rd | Surface | Commined | IV/A | SL |
| WC | 67 | 86 | 0086-A | Philadelphia pa | Unknown | Confirmed | N/A | SE |
| | | | L | | U. | | U. | L. |
| | | C. | authwaat Duain | aga District Pasins in | Noithan Carran | Cratom | | |
| | 1 | 30 | SR-075- | age District Basins in | Neither Sewer | System | 1 | |
| | 75 | 141 | 0141-A | 475 spring ln Philadelphia pa | Submerged | Confirmed | N/A | SW |
| | 13 | 141 | 0141-A | 8200 enterprise | Submerged | Commined | IN/A | 3 W |
| SWTP-01- | | | DR-005- | ave Philadelphia | | | | |
| D | 5 | 182 | 0182-A | pa | Submerged | Confirmed | N/A | SW |
| | | 102 | WS-075- | 130 spring lane | Suchiergea | Commune | 1,111 | |
| 001-002-W | 75 | 38 | 0038-A | Philadelphia pa | Surface | Confirmed | N/A | SW |
| | | | | 3700 s 26th st | | | | |
| | 0 | 0 | | Philadelphia pa | Surface | Confirmed | N/A | SW |
| | | | | 6700 Essington | | | | |
| | | | SR-014- | ave Philadelphia | | | | |
| | 14 | 6 | 0006-A | pa | Surface | Confirmed | N/A | SW |
| 001.00= ~ | | | SR-066- | 7860 Eva street | | | | |
| 034-007-S | 66 | 79 | 0079-A | Philadelphia pa | Surface | Confirmed | N/A | SW |
| 001 001 337 | 7. | 27 | WS-075- | 8700 ridge avenue | C | CE | NT/A | CM |
| 001-001-W | 75 | 37 | 0037-A | Philadelphia pa | Surface | Confirmed | N/A | SW |
| | | | WS-094- | 9701 Germantown | | | | 1 |
| | 94 | 44 | WS-094- 0044-A | avenue Philadelphia pa | Surface | Confirmed | N/A | SW |
| | 74 | 44 | SR-014- | 3107 s 61st | Surface | Commineu | 11/73 | D 11 |
| | | | 0063-A | Philadelphia pa | Not found | Confirmed | N/A | SW |
| 076-009-S | 14 | 63 | | | 110t Iound | Commined | -1/11 | 5,, |
| 076-009-S | 14 | 63 | | 7200 Umbria st | | | | |
| 076-009-S | | | SR-058- | 7200 Umbria st Philadelphia pa | Unknown | Confirmed | N/A | SW |
| 076-009-S | 14 58 | 173 | SR-058- 0173-A | Philadelphia pa | Unknown | Confirmed | N/A | SW |
| 076-009-S | | | SR-058- 0173-A | Philadelphia pa in No Drainage or So | | Confirmed | N/A | SW |
| 076-009-S | | | SR-058- 0173-A | Philadelphia pa in No Drainage or So 2800 | | Confirmed | N/A | SW |
| 076-009-S | | | SR-058- 0173-A | Philadelphia pa in No Drainage or So | | Confirmed | N/A | SW N/A |