

# Stormwater Basins GIS Project Presentation

By Ian Schwarzenberg

# Background

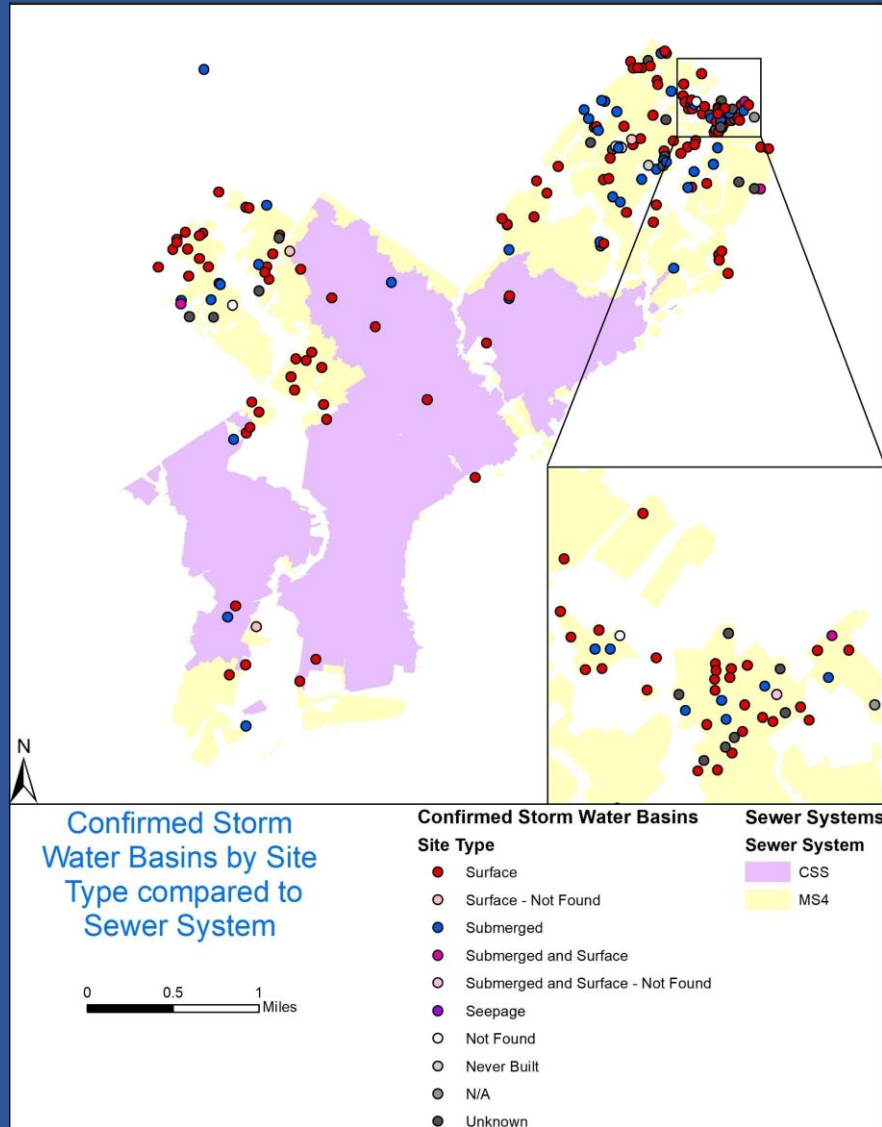
- Identifies basins best suited for retrofits
- Never built basins show developers who owe them to city
- Data sources:
  - 2009 master list for basins
  - R and Google Maps for coordinates
  - OWS geodatabase for sewer system and drainage district shapefiles
  - Google Maps for aerial imagery
- Steps:
  - Divided basins by existence
  - Geocoded them with R
  - Created basin shapefiles
  - Joined shapefiles in GIS
  - Organized final data in Excel

# Agenda

- Confirmed Basins by Sewer System
- CSS Basins
  - Surface basins
  - Basins non-existing
  - Other basins
- MS4 Basins
  - Surface basins
  - Basins non-existing
  - Other basins
- Appendix
  - All Basins by Drainage District

# Confirmed Basins

# Confirmed Basins by Sewer System



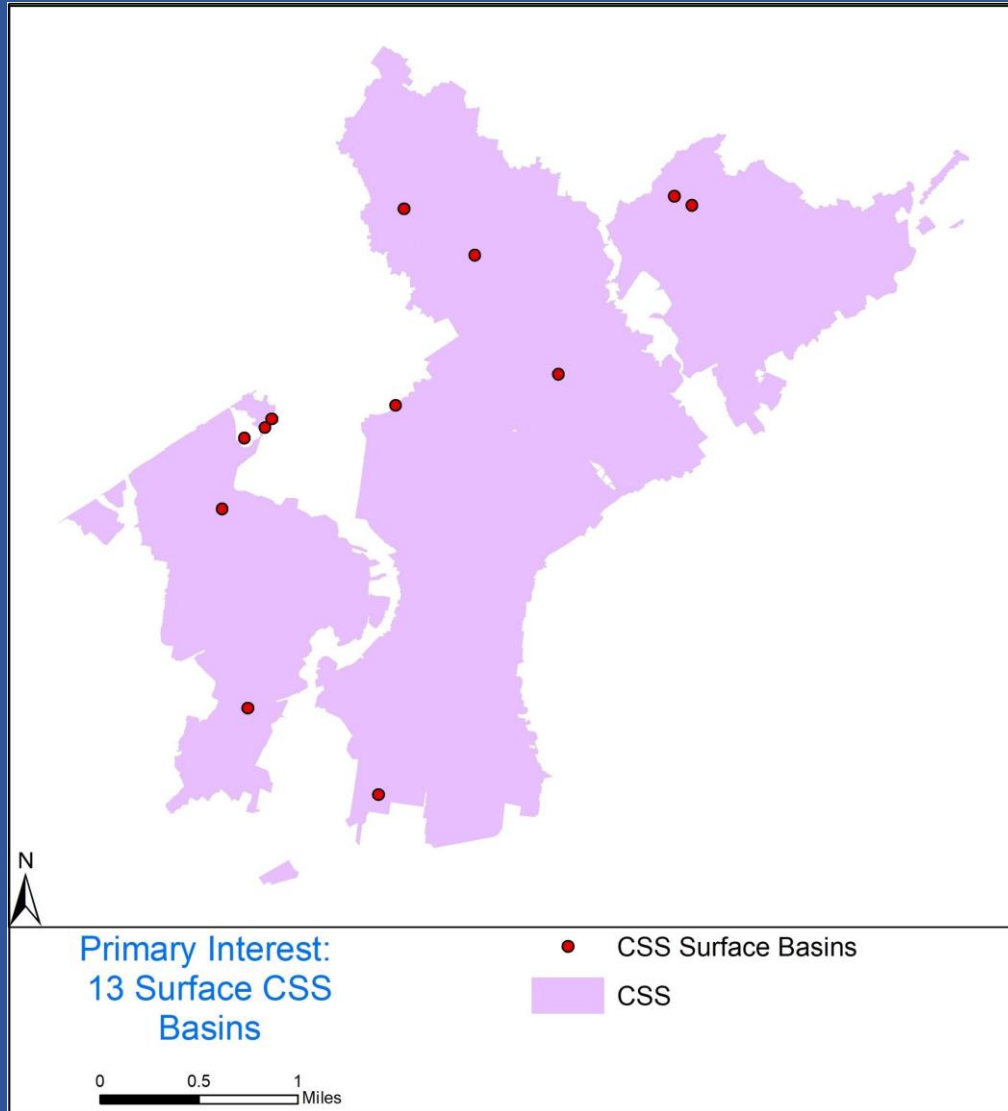
- 197 confirmed basins
- Clear majority of:
  - All basins
    - CSS basins
    - MS4 basins
    - Basins in neither system

# Confirmed Basin Aerial Image



# CSS Basins

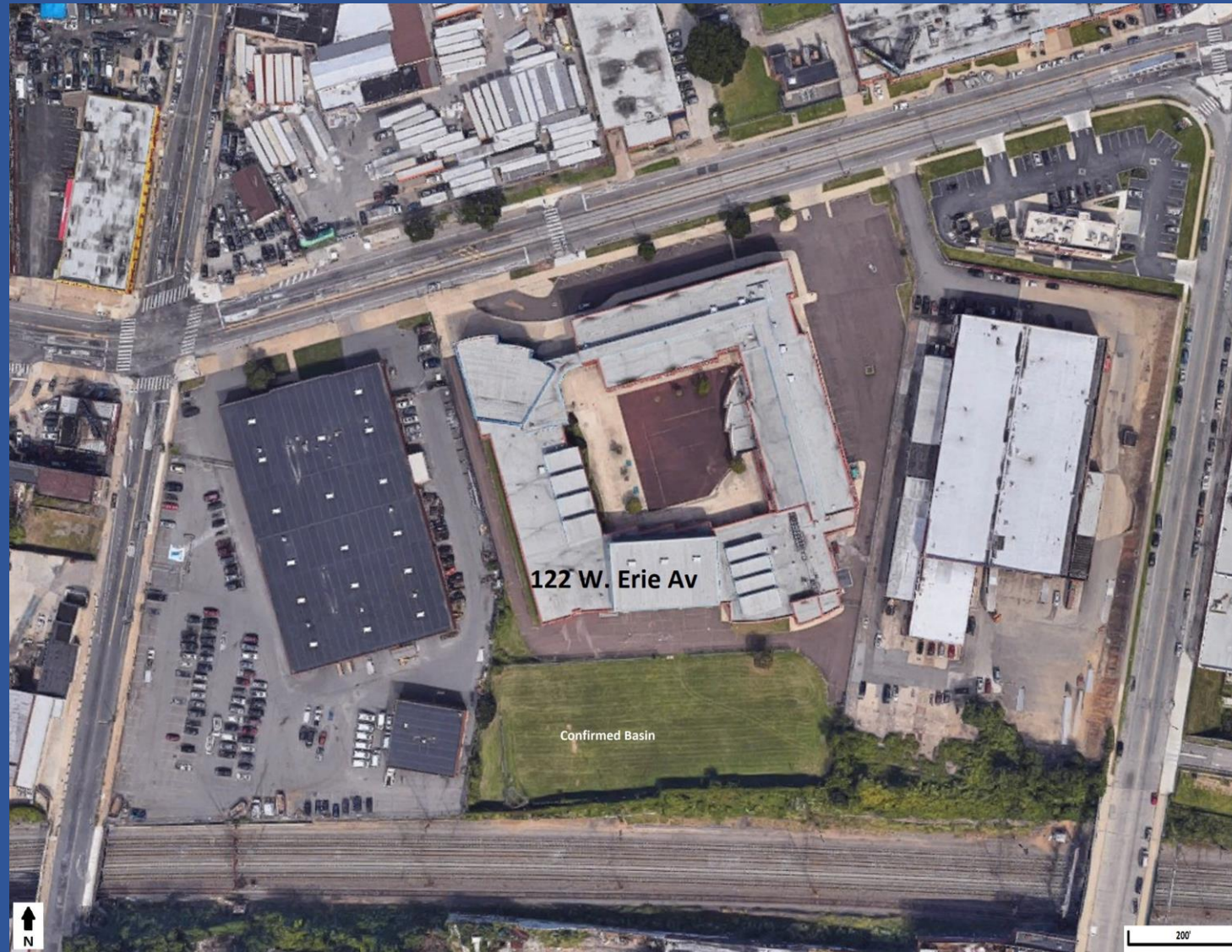
# Surface CSS Basins



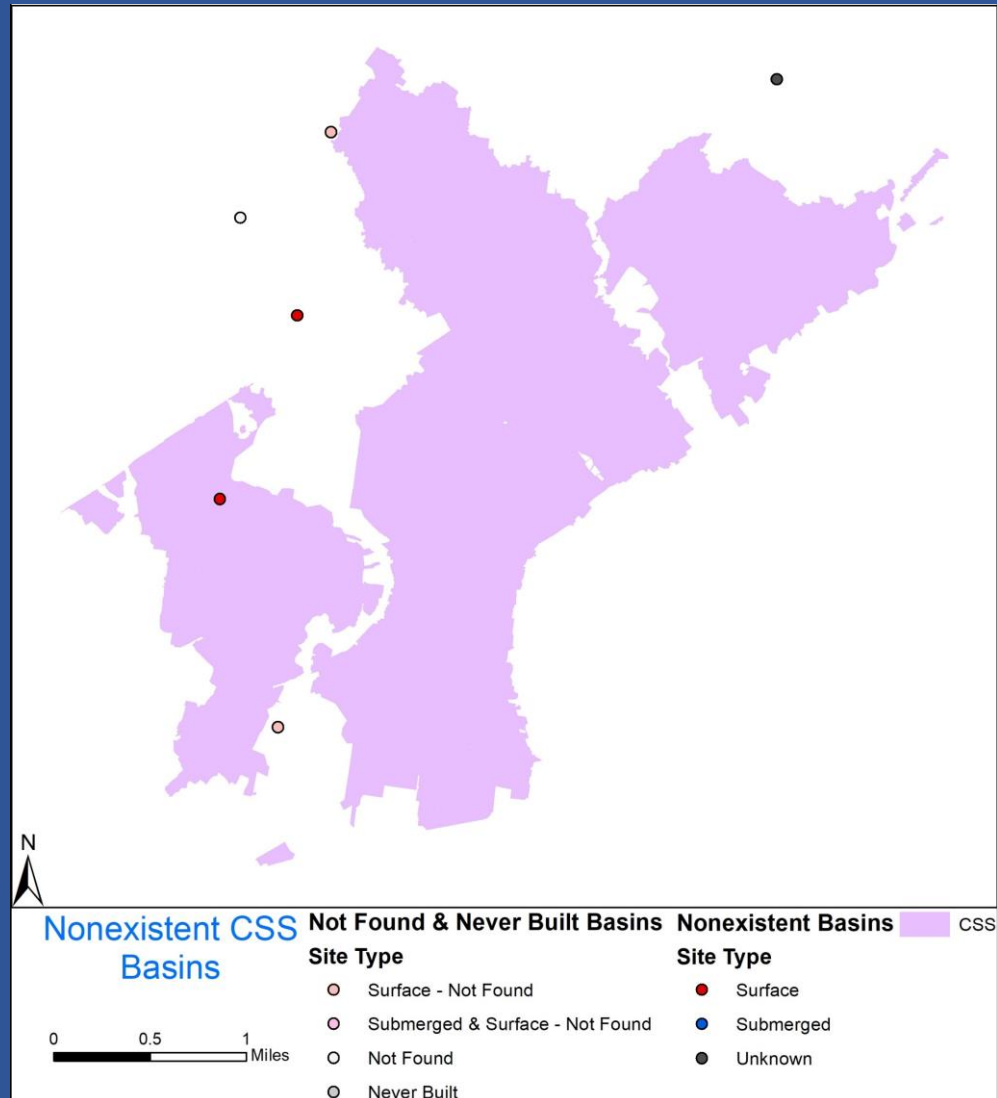
- Easiest to retrofit
- 13 surface CSS basins, slight majority of all CSS basins
- Very small minority of all basins and strictly surface ones



# Surface CSS Basins Aerial Image



# Nonexistent CSS Basins



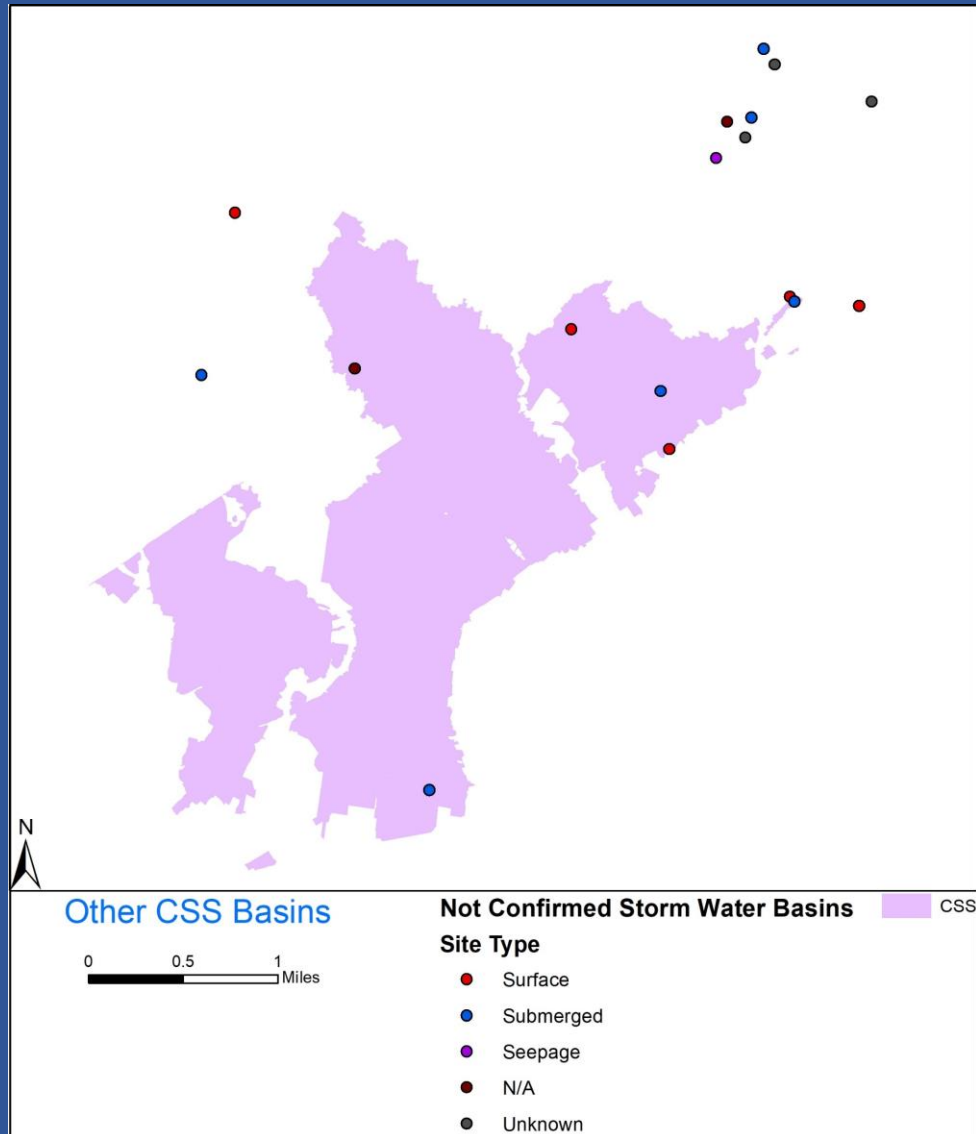
- Shows basins owed to city
- One nonexistent surface CSS basin
- No CSS basins not found or never built



# Nonexistent CSS Basin Aerial Image



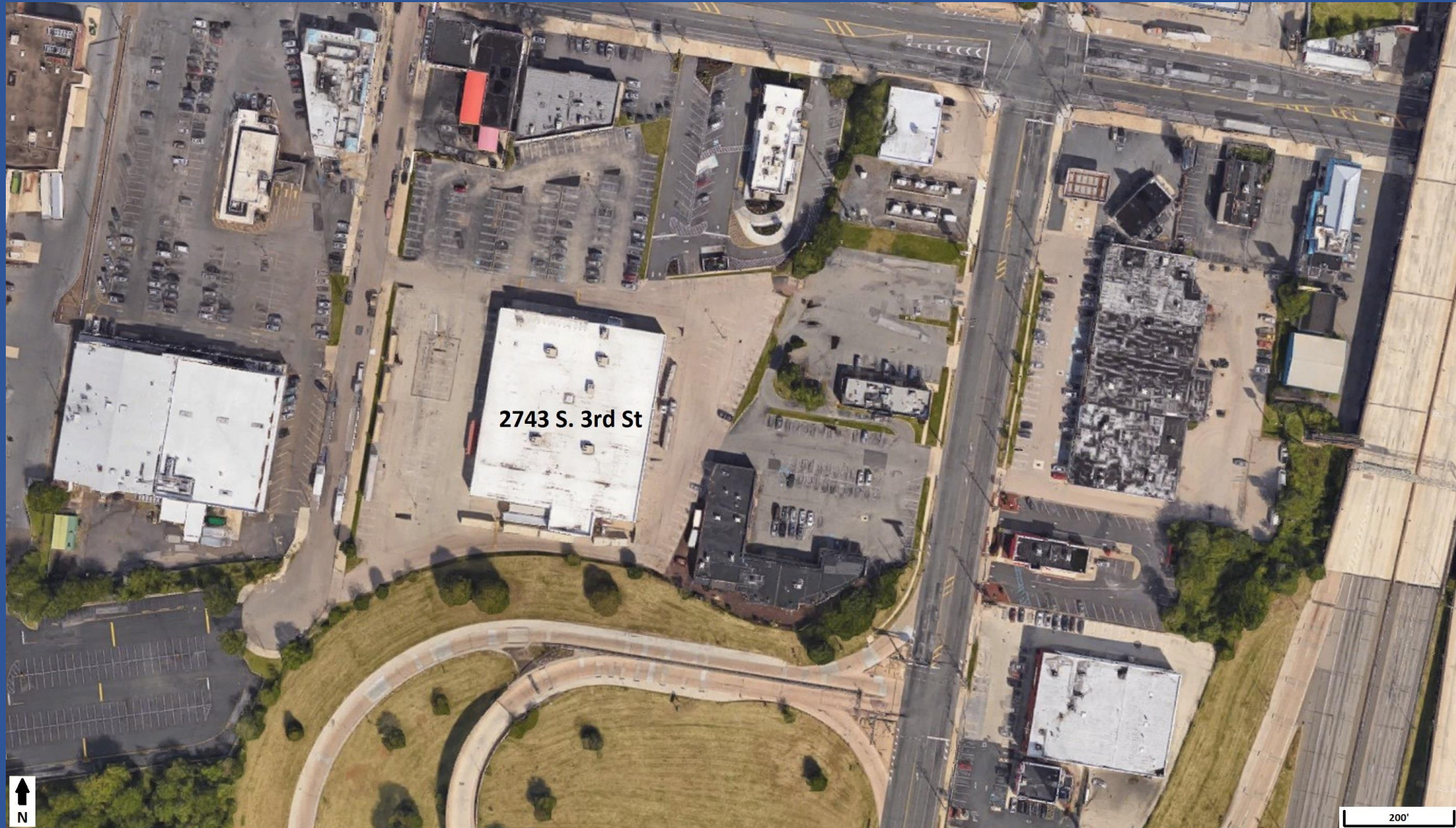
# Other CSS Basins



- 5 not confirmed CSS basins
  - Quarter of all not confirmed basins

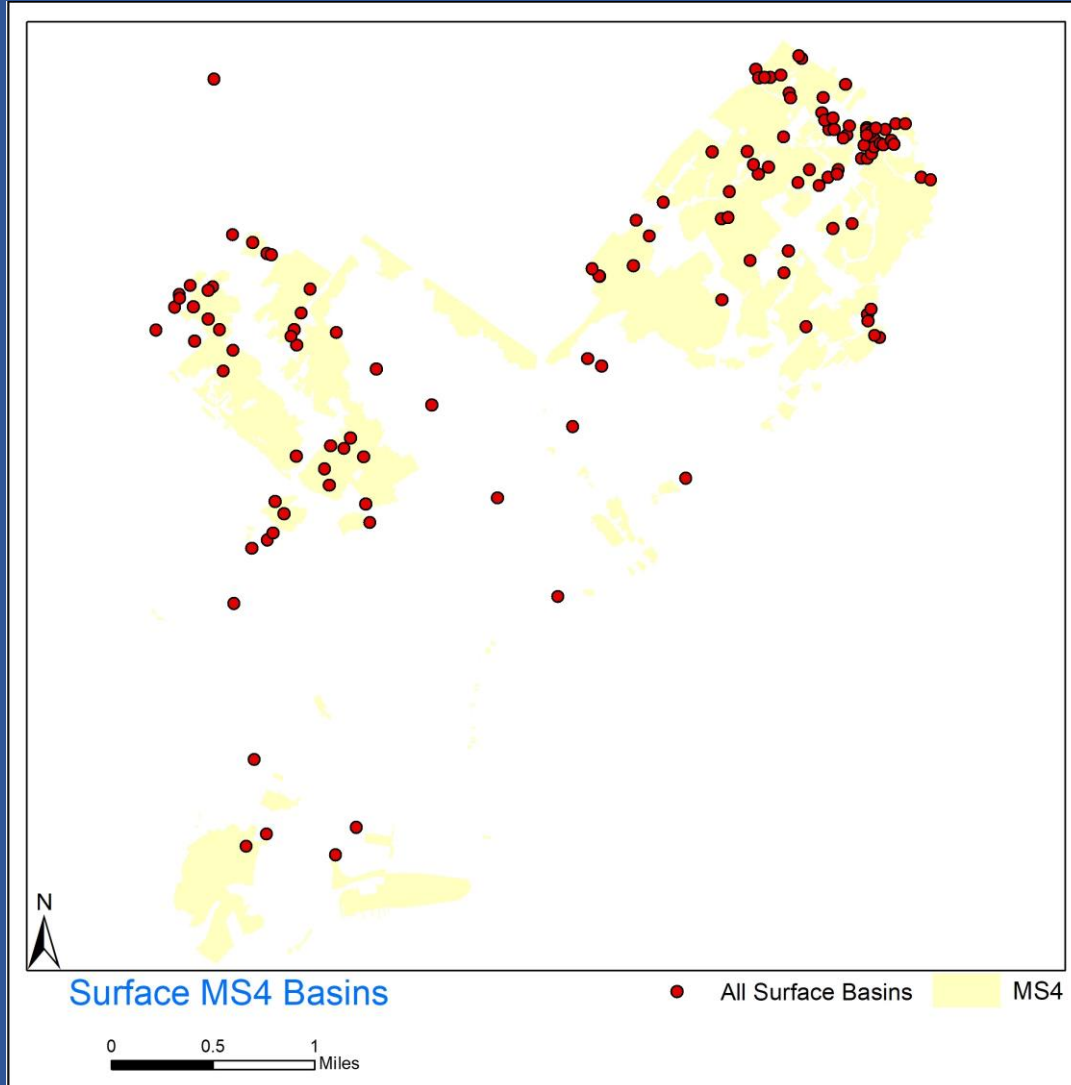


# Other CSS Basins Aerial Image



# MS4 Basins

# Surface MS4 Basins



- 105 surface basins in MS4
  - Clear majority of all surface basins
  - Slight majority of all MS4 basins
  - Almost a majority of all basins

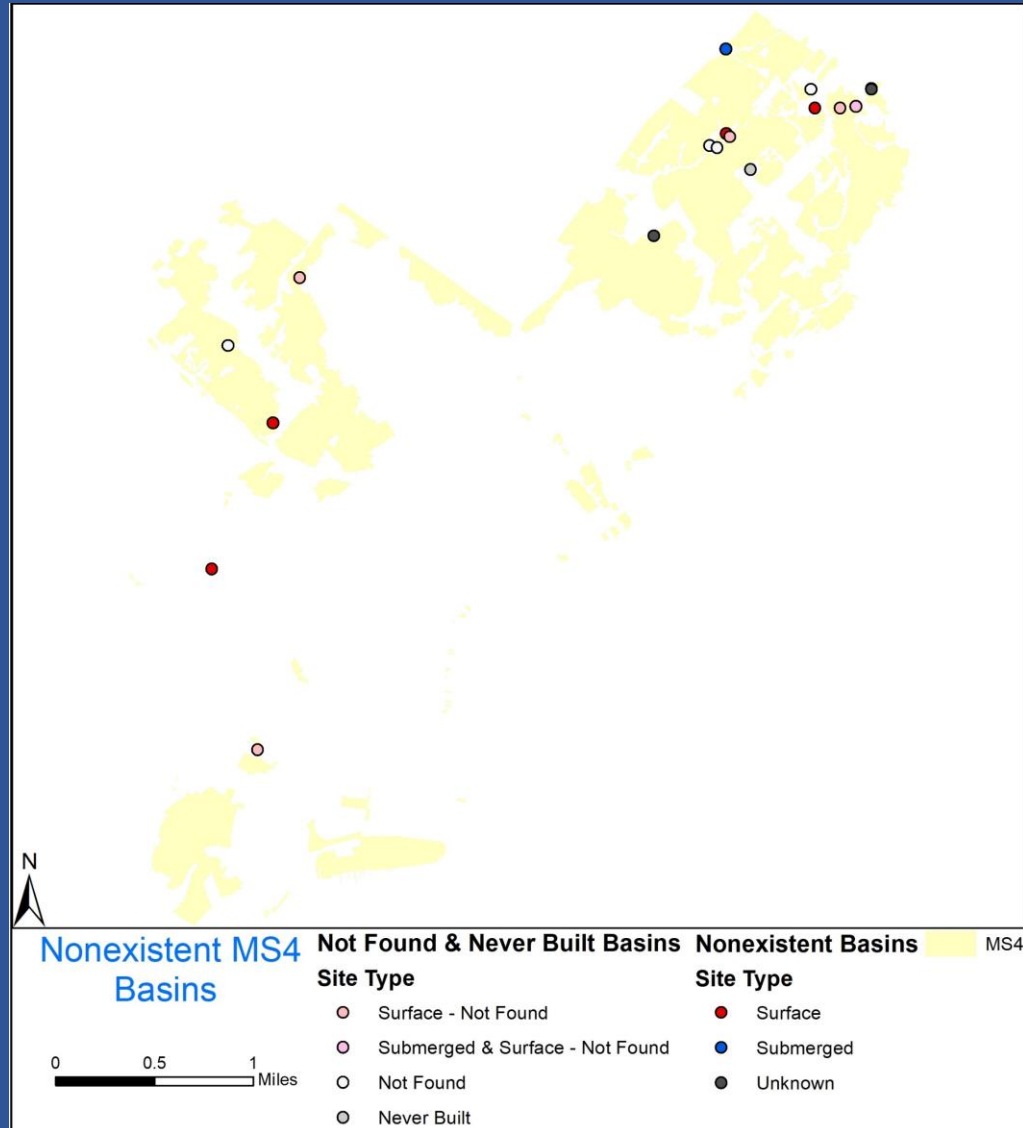


# Surface MS4 Basins Aerial Image





# Nonexistent MS4 Basins

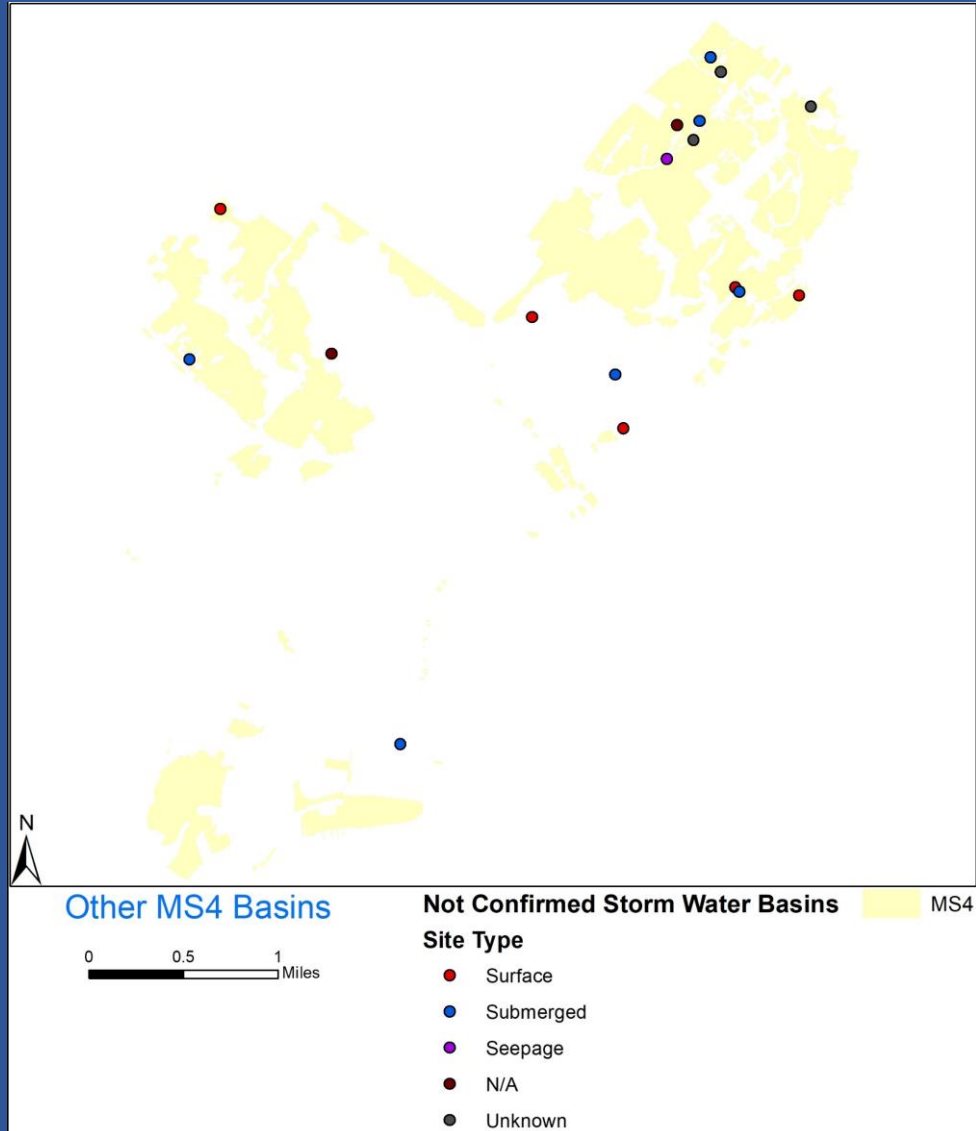


- Also shows basins owed to city
- 6 nonexistent MS4 basins
  - Clear majority of all nonexistent basins
- 7 not found or never built MS4 basins
  - Clear majority of all not found and never built basins

# Nonexistent MS4 Basins Aerial Image



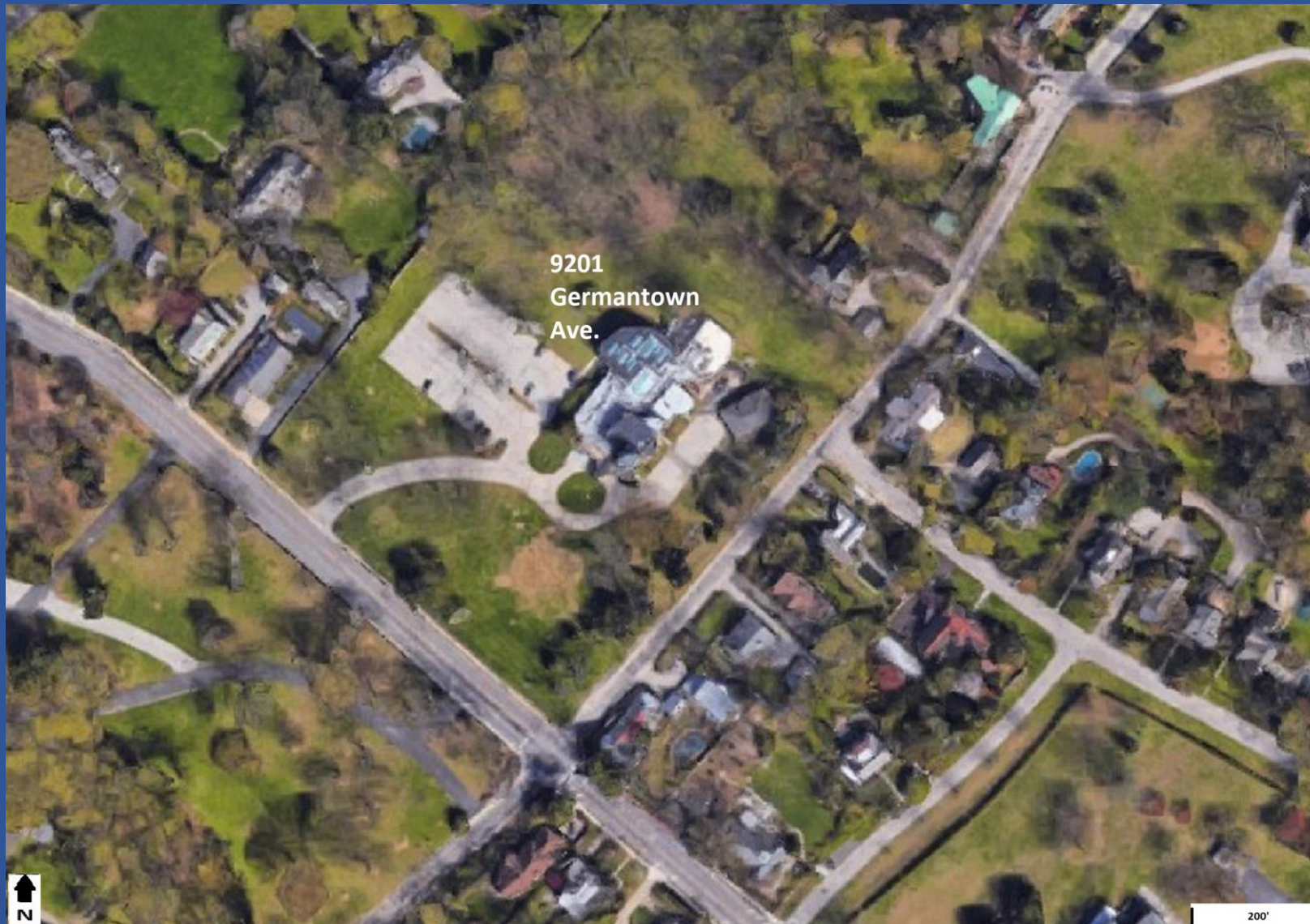
# Other MS4 Basins



- 10 not confirmed MS4 basins
  - Half of all not confirmed basins



# Other MS4 Basins Aerial Image



# Appendix

# All Basins by Drainage District

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
140-027-PD	112	172	PP-112-0172-A	10087 sandmeter lane Philadelphia pa	Submerged	Confirmed	NE
	0	0		10089 sandmeyer lane Philadelphia pa	Submerged	Confirmed	NE
102-062-PQB	110	158	PQ-110-0158-A	10551 Decatur road Philadelphia pa	Submerged	Confirmed	NE
161-086-PQB	110	138	PQ-110-0138-A	10975 Dutton road Philadelphia pa	Submerged	Confirmed	NE
	0	0		13000 trina dr Philadelphia pa	Submerged	Confirmed	NE
097-060-PQB	114	157	PQ-114-0157-A	1340 Stewarts way Philadelphia pa	Submerged	Confirmed	NE
	120	135	PQ-120-0135-A	13675 Philmont ave Philadelphia pa	Submerged	Confirmed	NE
148-081-PQ	0	0		13678 Philmont ave Philadelphia pa	Submerged	Confirmed	NE
	0	0		14420 Townsend rd. Philadelphia pa	Submerged	Confirmed	NE
040-023-PQ	120	119	PQ-120-0119-A	14425 bustleton avenue Philadelphia pa	Submerged	Confirmed	NE
	0	0		2015 welsh rd. Philadelphia pa	Submerged	Confirmed	NE
	109	47	PQ-109-0047-A	2072-80 red lion rd. Philadelphia pa	Submerged	Confirmed	NE
023-010-PQB	118	88	PQ-118-0088-A	2101 horning road Philadelphia pa	Submerged	Confirmed	NE
041-024-PQB	118	110	PQ-118-0110-A	2190 horning road Philadelphia pa	Submerged	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
113-023-PD	112	167	PP-112-0167-A	225-73 Geiger road Philadelphia pa	Submerged	Confirmed	NE
095-057-PQ	118	54	PQ-118-0054-A	2701 commerce way Philadelphia pa	Submerged	Confirmed	NE
063-041-PQB	109	14	PQ-109-0014-A	2751 red lion rd. Philadelphia pa	Submerged	Confirmed	NE
	32	163	PQ-032-0163-A	2760 red lion road Philadelphia pa	Submerged	Confirmed	NE
192-108-PQB	0	0		2760 red lion road Philadelphia pa	Submerged	Confirmed	NE
051-030-PQ-A	118	80	PQ-118-0080-A	2800 black lake place Philadelphia pa	Submerged	Confirmed	NE
039-022-PQB	114	29	PQ-114-0029-A	2800 Southampton Philadelphia pa	Submerged	Confirmed	NE
079-051-PQB	110	126	PQ-110-0126-A	2801 red lion road Philadelphia pa	Submerged	Confirmed	NE
179-096-PQ	114	68	PQ-114-0068-A	2900 black lake place Philadelphia pa	Submerged	Confirmed	NE
037-019-PQB	0	0		3050 red lion road Philadelphia pa	Submerged	Confirmed	NE
	0	0		840 cottman ave Philadelphia pa	Submerged	Confirmed	NE
173-034-P	100	124	PP-100-0124-A	8400 Roosevelt boulevard Philadelphia pa	Submerged	Confirmed	NE
119-025-PW	105	120	PP-105-0120-A	9250 e Roosevelt Blvd. Philadelphia pa	Submerged	Confirmed	NE
	109	178	PP-109-0178-A	9815 e Roosevelt Blvd. Philadelphia pa	Submerged	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
043-009-PP	109	118	PP-109-0118-A	9945-49 Norwalk rd. Philadelphia pa	Submerged	Confirmed	NE
186-036-PD	112	136	DR-112-0136-A	9954 gardenia lane Philadelphia pa	Submerged	Confirmed	NE
149-082-PQB	114	58	PQ-114-0058-A	1 crown way Philadelphia pa	Surface	Confirmed	NE
065-042-PQB	113	39	PQ-113-0039-A	10102 Jamison ave Philadelphia pa	Surface	Confirmed	NE
111-021-PP	113	94	PP-113-0094-A	10125 verree road Philadelphia pa	Surface	Confirmed	NE
	0	0		10300 Drummond rd. Philadelphia pa	Surface	Confirmed	NE
106-063-PQB	110	83	PQ-110-0083-A	10975 academy road Philadelphia pa	Surface	Confirmed	NE
152-085-PQB	109	111	PQ-109-0111-A	11311 Roosevelt Blvd. Philadelphia pa	Surface	Confirmed	NE
033-017-PQB	113	49	PQ-113-0049-A	11400 northeast avenue Philadelphia pa	Surface	Confirmed	NE
	0	0		11501 Roosevelt Blvd. Philadelphia pa	Surface	Confirmed	NE
080-052-PQB	114	92	PQ-114-0092-A	11600 norcom road Philadelphia pa	Surface	Confirmed	NE
056-035-PQB	114	176	PQ-114-0176-A	12260 Townsend road Philadelphia pa	Surface	Confirmed	NE
096-059-PQB	114	168	PQ-114-0168-A	12273 Townsend road Philadelphia pa	Surface	Confirmed	NE
038-021-PQ	118	25	PQ-118-0025-A	12300 mcnulty road Philadelphia pa	Surface	Confirmed	NE



# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
038-020-PQ	118	24	PQ-118-0024-A	12300 mcnulty road Philadelphia pa	Surface	Confirmed	NE
TOWNS-CLVT	119	187	PQ-119-0187-A	12301 McNulty Rd Philadelphia pa	Surface	Confirmed	NE
031-015-PQ	114	18	PQ-114-0018-A	12401 mcnulty road Philadelphia pa	Surface	Confirmed	NE
109-066-PQ	114	146	PQ-114-0146-A	12601 Townsend road Philadelphia pa	Surface	Confirmed	NE
069-046-PQ	114	67	PQ-114-0067-A	12700 Townsend road Philadelphia pa	Surface	Confirmed	NE
169-090-PQ	114	130	PQ-114-0130-A	12800 Townsend road Philadelphia pa	Surface	Confirmed	NE
067-043-PQ	115	103	PQ-115-0103-A	12802 galdi ln Philadelphia pa	Surface	Confirmed	NE
053-075-PQ	115	50	PQ-115-0050-A	12901 Townsend road Philadelphia pa	Surface	Confirmed	NE
053-032-PQ	114	53	PQ-114-0053-A	12901 Townsend road Philadelphia pa	Surface	Confirmed	NE
	118	186	PQ-118-0186-A	13451 damar drive Philadelphia pa	Surface	Confirmed	NE
	119	156	PQ-119-0156-A	14002 mcnulty rd. Philadelphia pa	Surface	Confirmed	NE
140002	119	155	PQ-119-0155-A	14002 mcnulty road Philadelphia pa	Surface	Confirmed	NE
122-069-PQ	119	96	PQ-119-0096-A	14005 mcnulty rd. Philadelphia pa	Surface	Confirmed	NE
150-083-PQ	119	71	PQ-119-0071-A	14300 Townsend rd. Philadelphia pa	Surface	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
	0	0		15000 poquessing creek In Philadelphia pa	Surface	Confirmed	NE
	0	0		1630 welsh rd. Philadelphia pa	Surface	Confirmed	NE
	0	0		1701 grant avenue Philadelphia pa	Surface	Confirmed	NE
	109	84	PP-109-0084-A	1901 Reilly road Philadelphia pa	Surface	Confirmed	NE
117-068-PQB	118	55	PQ-118-0055-A	2000 kubach road Philadelphia pa	Surface	Confirmed	NE
181-098-PQB	118	145	PQ-118-0145-A	2100 horning road Philadelphia pa	Surface	Confirmed	NE
094-056-PQB	118	10	PQ-118-0010-A	2100 kubach road Philadelphia pa	Surface	Confirmed	NE
024-011-PQB	118	125	PQ-118-0125-A	2180 horning road Philadelphia pa	Surface	Confirmed	NE
046-027-PQB	118	144	PQ-118-0144-A	2191 horning road Philadelphia pa	Surface	Confirmed	NE
045-026-PQ	118	165	PQ-118-0165-A	2704 black lake pl Philadelphia pa	Surface	Confirmed	NE
085-054-PQ	118	31	PQ-118-0031-A	2705 black lake pl Philadelphia pa	Surface	Confirmed	NE
054-033-PQ	118	174	PQ-118-0174-A	2706 black lake pl Philadelphia pa	Surface	Confirmed	NE
089-055-PQ	118	65	PQ-118-0065-A	2707 black lake pl Philadelphia pa	Surface	Confirmed	NE
	118	15	PQ-118-0015-A	2709 commerce way Philadelphia pa	Surface	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
180-097-PQ	118	161	PQ-118-0161-A	2722 commerce way Philadelphia pa	Surface	Confirmed	NE
030-014-PQB	0	0		2800 norcom rd. Philadelphia pa	Surface	Confirmed	NE
	0	0		2811 charter road Philadelphia pa	Surface	Confirmed	NE
136-074-PQ	114	143	PQ-114-0143-A	2825-45 Southampton road Philadelphia pa	Surface	Confirmed	NE
	0	0		2900 comly rd. Philadelphia pa	Surface	Confirmed	NE
015-003-PW	105	85	PP-105-0085-A	2901 grant avenue Philadelphia pa	Surface	Confirmed	NE
	119	20	PQ-119-0020-A	3000 meeting house road Philadelphia pa	Surface	Confirmed	NE
019-006-PQ (1)	120	36	PQ-120-0036-A	301 Byberry road Philadelphia pa	Surface	Confirmed	NE
	0	0		301 Byberry Road, Philadelphia PA	Surface	Confirmed	NE
020-084-PQ	102	89	PQ-102-0089-A	4701 grant ave Philadelphia pa	Surface	Confirmed	NE
151-030-P	104	87	PP-104-0087-A	501 ridgerun la Philadelphia pa	Surface	Confirmed	NE
014-001-T	98	76	TF-098-0076-A	7500 central ave Philadelphia pa	Surface	Confirmed	NE
	0	0		7600 central avenue Philadelphia pa	Surface	Confirmed	NE
014-008-T	98	75	TF-098-0075-A	7701r burholme avenue Philadelphia pa	Surface	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
165-088-PQB	117	69	PQ-117-0069-A	780 Byberry road Philadelphia pa	Surface	Confirmed	NE
174-035-P	99	56	PP-099-0056-A	8001 verree road Philadelphia pa	Surface	Confirmed	NE
155-031-P	100	70	PP-100-0070-A	8401 Roosevelt Blvd. Philadelphia pa	Surface	Confirmed	NE
	104	57	PP-104-0057-A	8540 verree rd. Philadelphia pa	Surface	Confirmed	NE
	0	0		9200 blue grass road Philadelphia pa	Surface	Confirmed	NE
	0	0		9200 blue grass road Philadelphia pa	Surface	Confirmed	NE
	0	0		9600 Milnor st Philadelphia pa	Surface	Confirmed	NE
028-012-PQ	102	66	PQ-102-0066-A	9621 Eden hall la Philadelphia pa	Surface	Confirmed	NE
011-001-PP	109	59	PP-109-0059-A	9741 krewstown road Philadelphia pa	Surface	Confirmed	NE
086-013-PD	112	113	PP-112-0113-A	9947 global rd. Philadelphia pa	Surface	Confirmed	NE
053-076-PQ	115	51	PQ-115-0051-A	12901 Townsend road Philadelphia pa	Surface & Submerged	Confirmed	NE
032-016-PQ	119	107	PQ-119-0107-A	14400 mcnulty rd. Philadelphia pa	Surface & Submerged	Confirmed	NE
021-008-PQ	111	77	PQ-111-0077-A	4338 Byberry rd. Philadelphia pa	Surface & Submerged	Confirmed	NE
047-028-PQ	118	131	PQ-118-0131-A	13000 Townsend road Philadelphia pa	Surface & Submerged-- not found	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
116-067-PQB	111	26	PQ-111-0026-A	11082 knights road Philadelphia pa	Unknown	Confirmed	NE
098-017-PP	109	115	PP-109-0115-A	1225 Norwalk rd. Philadelphia pa	Unknown	Confirmed	NE
	114	1	PQ-114-0001-A	12270 Townsend rd. Philadelphia pa	Unknown	Confirmed	NE
018-005-PQB	114	129	PQ-114-0129-A	12285 mcnulty rd. Philadelphia pa	Unknown	Confirmed	NE
072-048-PQ	0	0		12301 mcnulty road Philadelphia pa	Unknown	Confirmed	NE
050-029-PQ	114	8	PQ-114-0008-A	12600 Townsend road Philadelphia pa	Unknown	Confirmed	NE
053-077-PQ	114	52	PQ-114-0052-A	12901 Townsend road Philadelphia pa	Unknown	Confirmed	NE
	120	35	PQ-120-0035-A	13500 Philmont avenue Philadelphia pa	Unknown	Confirmed	NE
052-031-PQ	119	61	PQ-119-0061-A	14001 Townsend road Philadelphia pa	Unknown	Confirmed	NE
168-089-PQB	113	123	PQ-113-0123-A	2040 Bennett road Philadelphia pa	Unknown	Confirmed	NE
115-024-PD	112	139	PP-112-0139-A	268 Geiger road Philadelphia pa	Unknown	Confirmed	NE
	109	140	PQ-109-0140-A	2701 red lion road Philadelphia pa	Unknown	Confirmed	NE
	118	64	PQ-118-0064-A	2701 Southampton rd. Philadelphia pa	Unknown	Confirmed	NE
	32	162	PQ-032-0162-A	2770 red lion road Philadelphia pa	Unknown	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
036-018-PQ	114	62	PQ-114-0062-A	2905 Southampton road Philadelphia pa	Unknown	Confirmed	NE
	0	0		800 Gina dr Philadelphia pa	Unknown	Confirmed	NE
	100	23	PP-100-0023-A	8351 e Roosevelt Blvd. Philadelphia pa	Unknown	Confirmed	NE
177-094-PQB	113	27	PQ-113-0027-A	9998-9964 Northeast Ave Philadelphia PA	Surface	Nonexistent	NE
176-093-PQ	119	97	PQ-119-0097-A	14400 Townsend Rd Philadelphia PA	Unknown	Nonexistent	NE
141-028-P	99	43	PP-099-0043-A	8335-8345 Algon Ave Philadelphia PA	Unknown	Nonexistent	NE
013-002-PP	113	41	PP-113-0041-A	10113-15 Verree Rd Philadelphia PA	N/A	Not Confirmed	NE
147-029-PP	109	106	PP-109-0106-A	68 Marple Drive Philadelphia PA	Seepage	Not Confirmed	NE
027-005-PP	113	164	PP-113-0164-A	10204 Northeast Ave Philadelphia PA	Submerged	Not Confirmed	NE
146-80-PQ	120	152	PQ-120-0152-A	13040 Depue Ave Philadelphia PA	Submerged	Not Confirmed	NE
107-020-P	92	60	PP-092-0060-A	3324 Willits Road Philadelphia PA	Surface	Not Confirmed	NE
	101	72	DR-101-0072-A	5100 Fidler Street Philadelphia PA	Surface	Not Confirmed	NE
145-079-PQ	119	33	PQ-119-0033-A	13200 Townsend Road Philadelphia PA	Unknown	Not Confirmed	NE
	117	184	PQ-117-0184-A	752 Byberry Rd Philadelphia PA	Unknown	Not Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
042-003-D	80	122	DR-080-0122-A	6225 oxford ave Philadelphia pa	Submerged	Confirmed	NE
	0	0		6302 old York rd. Philadelphia pa	Submerged	Confirmed	NE
	0	0		9099 Frankford avenue Philadelphia pa	Submerged	Confirmed	NE
	0	0		122 w Erie ave Philadelphia pa	Surface	Confirmed	NE
084-004-T	69	99	TF-069-0099-A	1701 lindley ave Philadelphia pa	Surface	Confirmed	NE
	0	0		332 e walnut ln Philadelphia pa	Surface	Confirmed	NE
166-007-D	80	101	DR-080-0101-A	6301-93 oxford ave Philadelphia pa	Surface	Confirmed	NE
	68	40	PQ-068-0040-A	5818 Germantown Avenue Philadelphia PA	N/A	Not Confirmed	NE
	0	0		6302 Frankford Ave, Philadelphia PA	Submerged	Not Confirmed	NE
	92	128	PP-092-0128-A	9090 Frankford Avenue Philadelphia PA	Submerged	Not Confirmed	NE
	80	185	DR-080-0185-A	699-681 Robbins St Philadelphia PA	Surface	Not Confirmed	NE
020-007-PQ	0	0		4799-4581 Stevenson St Philadelphia pa	Surface	Confirmed	NE
	0	0	PQ---A	8145 Hornig Rd Philadelphia pa	Surface	Confirmed	NE
	0	0		9000 Jennifer terrace Philadelphia pa	Surface	Confirmed	NE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
	0	0		3138 Mechanicsville road Philadelphia pa	N/A	Confirmed	NE
098-033-PP	109	116	PP-109-0116-A	1209-1217 Norwalk road Philadelphia pa	not found	Confirmed	NE
172-091-PQB	118	17	PQ-118-0017-A	2198 hornig road Philadelphia pa	not found	Confirmed	NE
	105	48	PP-105-0048-A	9400 ashton rd. Philadelphia pa	Surface	Confirmed	NE
026-004-PP	113	28	PP-113-0028-A	920 red lion rd. Philadelphia pa	Surface-- not found	Confirmed	NE
048-007-PP	109	19	PP-109-0019-A	1200 Serota place Philadelphia pa	Unknown	Confirmed	NE
074-049-PQ	111	102	PQ-111-0102-A	4292-4298 Whiting Rd Philadelphia pa	Unknown	Confirmed	NE
	117	177	PQ-117-0177-A	102R Byberry Rd Philadelphia PA	Submerged	Nonexistent	NE
	64	30	DR-064-0030-A	5801 Tacony Street Philadelphia PA	Surface	Not Confirmed	NE
105-019-PP	113	9	PP-113-0009-A	2000 Red Lion Road Philadelphia PA	Unknown	Not Confirmed	NE
	0	0		9892 bustleton ave Philadelphia pa	not found	Confirmed	NE
043-006-PP	109	117	PP-109-0117-A	9945-49 Norwalk rd. Philadelphia pa	Seepage	Confirmed	NE
	113	151	PP-113-0151-A	10049 sandmeyer la Philadelphia pa	Submerged	Confirmed	NE
125-070-PQB	110	114	PQ-110-0114-A	9901 e Roosevelt boulevard Philadelphia pa	never built	Confirmed	NE



# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
067-044-PQ	115	104	PQ-115-0104-A	12872 knights road Philadelphia pa	Surface	Confirmed	NE
	0	0		15501 bustleton ave Philadelphia pa	Surface	Confirmed	NE
134-006-D	43	142	PP-043-0142-A	2801 Richmond st Philadelphia pa	Surface	Confirmed	NE
	0	0		290 Byberry Road, Philadelphia PA	Surface	Confirmed	NE
075-050-PQ	120	100	PQ-120-0100-A	420 Laura lane Philadelphia pa	Surface	Confirmed	NE
055-007-T	71	78	TF-071-0078-A	4641 Roosevelt Blvd. Philadelphia pa	Surface	Confirmed	NE
	76	4	WS-076-0004-A	7714 Moreland circle Philadelphia pa	Submerged	Confirmed	SE
	118	179	PQ-118-0179-A	10 e Moreland ave Philadelphia pa	Surface	Confirmed	SE
	52	109	SR-052-0109-A	2900 queen lane Philadelphia pa	Surface	Confirmed	SE
	76	3	WS-076-0003-A	540 telner street Philadelphia pa	Surface	Confirmed	SE
	77	82	WS-077-0082-A	6950 Germantown ave Philadelphia pa	Surface	Confirmed	SE
	76	7	WS-076-0007-A	7611 st martins lane Philadelphia pa	Surface	Confirmed	SE
	76	180	WS-076-0180-A	7614 mccallum st Philadelphia pa	Surface	Confirmed	SE
	75	166	WS-075-0166-A	8835 Germantown Ave Philadelphia pa	Surface	Confirmed	SE

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
	0	0		8855 Germantown avenue Philadelphia pa	Surface	Confirmed	SE
	77	112	WS-077-0112-A	7406 Germantown avenue Philadelphia pa	Surface--Not Found	Confirmed	SE
156-029-W	60	12	WS-060-0012-A	2967 w school house lane Philadelphia pa	Unknown	Confirmed	SE
	86	45	WS-086-0045-A	7700 Germantown avenue Philadelphia pa	Unknown	Confirmed	SE
	95	181	WS-095-0181-A	9201 Germantown Ave Philadelphia PA	Surface	Not Confirmed	SE
	16	169	DR-016-0169-A	2743 S 3RD ST Philadelphia PA	Submerged	Not Confirmed	SE
	0	0		8600 prospect ave Philadelphia pa	Submerged	Confirmed	SE
	76	5	WS-076-0005-A	620 st Georges road Philadelphia pa	Surface	Confirmed	SE
059-006-WC	67	86	WS-067-0086-A	800 St Georges Rd Philadelphia pa	Unknown	Confirmed	SE
	0	0		2100 n 49th st Philadelphia pa	Submerged	Confirmed	SW
	75	141	SR-075-0141-A	475 spring ln Philadelphia pa	Submerged	Confirmed	SW
	0	0		5800 woodland ave Philadelphia pa	Surface	Confirmed	SW
	33	147	SR-033-0147-A	5300 Lancaster Ave, Philadelphia PA	Surface	Nonexistent	SW
082-010-W	67	42	WS-067-0042-A	561 fairthorne avenue Philadelphia pa	not found	Confirmed	SW

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
	66	90	SR-066-0090-A	201-27 shawmont avenue Philadelphia pa	Submerged	Confirmed	SW
	0	0		700 valley green ct Philadelphia pa	Submerged	Confirmed	SW
078-009-W	84	34	WS-084-0034-A	120-122 Caledonia street Philadelphia pa	Surface	Confirmed	SW
	0	0		3000 w school house ln Philadelphia pa	Surface	Confirmed	SW
	0	0		3200 s 70th st Philadelphia pa	Surface	Confirmed	SW
035-008-S	60	133	WS-060-0133-A	3243 w school house ln Philadelphia pa	Surface	Confirmed	SW
035-016-W	52	132	SR-052-0132-A	3464 w school house ln Philadelphia pa	Surface	Confirmed	SW
	0	0		3610 Midvale ave Philadelphia pa	Surface	Confirmed	SW
164-021-S	46	148	SR-046-0148-A	3955 Conshohocken avenue Philadelphia pa	Surface	Confirmed	SW
170-023-S	75	154	SR-075-0154-A	513 Lantern Ln Philadelphia pa	Surface	Confirmed	SW
	0	0		518 port royal ave Philadelphia pa	Surface	Confirmed	SW
170-022-S	75	153	SR-075-0153-A	525 Greenhill ln Philadelphia pa	Surface	Confirmed	SW
	67	170	WS-067-0170-A	619 wigard ave Philadelphia pa	Surface	Confirmed	SW
	75	160	WS-075-0160-A	683 summit avenue Philadelphia pa	Surface	Confirmed	SW

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
	0	0		7219 ridge avenue Philadelphia pa	Surface	Confirmed	SW
049-005-W	75	46	WS-075-0046-A	814 Caledonia road Philadelphia pa	Surface	Confirmed	SW
	84	22	SR-084-0022-A	9038 arydale crescent Philadelphia pa	Surface	Confirmed	SW
	0	0		300 autumn river run Philadelphia pa	Surface & Submerged	Confirmed	SW
093-012-S	59	2	SR-059-0002-A	290 parker avenue Philadelphia pa	Unknown	Confirmed	SW
	52	121	SR-052-0121-A	257-273 Osborne St Philadelphia PA	Surface	Nonexistent	SW
	59	126	SR-059-0126-A	100 Parker Ave Philadelphia PA	Submerged	Not Confirmed	SW
077-010-S	19	105	SR-019-0105-A	2231 s 62 st Philadelphia pa	Submerged	Confirmed	SW
135-017-S	39	95	SR-039-0095-A	2100 n 49th street Philadelphia pa	Surface	Confirmed	SW
	0	0		2101 Belmont avenue Philadelphia pa	Surface	Confirmed	SW
142-019-S	5	137	SR-005-0137-A	3349-3301 Penrose Ferry Rd Philadelphia pa	Surface	Confirmed	SW
	0	0	S---A	4300 Monument Rd Philadelphia pa	Surface	Confirmed	SW
	39	150	SR-039-0150-A	4300 monument road Philadelphia pa	Surface	Confirmed	SW
SWTP-01-D	5	182	DR-005-0182-A	8200 enterprise ave Philadelphia pa	Submerged	Confirmed	SW

# All Basins by Drainage District (continued)

Reference Number	Plat	Random Number	2009 Unique ID	Address	Site Type	Existence	Drainage District
001-002-W	75	38	WS-075-0038-A	130 spring lane Philadelphia pa	Surface	Confirmed	SW
	0	0		3700 s 26th st Philadelphia pa	Surface	Confirmed	SW
	14	6	SR-014-0006-A	6700 Essington ave Philadelphia pa	Surface	Confirmed	SW
034-007-S	66	79	SR-066-0079-A	7860 Eva street Philadelphia pa	Surface	Confirmed	SW
001-001-W	75	37	WS-075-0037-A	8700 ridge avenue Philadelphia pa	Surface	Confirmed	SW
	94	44	WS-094-0044-A	9701 Germantown avenue Philadelphia pa	Surface	Confirmed	SW
076-009-S	14	63	SR-014-0063-A	3107 s 61st Philadelphia pa	Surface-- Not found	Confirmed	SW
	58	173	SR-058-0173-A	7200 Umbria st Philadelphia pa	Unknown	Confirmed	SW
				2800 meetinghouse rd philadelphia pa	Surface	Confirmed	N/A