



Student Interns Inspecting 21 Dogwood Lane Infiltration Basin

**Hamilton Township (Mercer County)
Stormwater Basin Assessment Summary
Hamilton Owned Addendum (Year 5A)**

Developed by the Rutgers Cooperative Extension Water Resources Program
Funded by Hamilton Township, Mercer County, New Jersey

November 27, 2019

Acknowledgements

The Hamilton Township (Mercer County) Stormwater Basin Assessment Summary (Year 5) has been produced by the **Rutgers Cooperative Extension (RCE) Water Resources Program**.

Funding for this project was generously provided by the **Township of Hamilton, Mercer County, New Jersey** and in part by the **New Jersey Agricultural Experiment Station** through the United States Department of Agriculture.

Introduction

During the summer of 2019, the Rutgers Cooperative Extension (RCE) Water Resources Program continued the assessment of Hamilton Township's stormwater management basins with a goal to reassess the basins owned by the township and reassess the basins that were determined to be high priority for addressing problems in the previous reports. This report is split into two volumes to provide Hamilton Township with a document that only includes basins owned by the township and maintain clarity between the two sets of basins. This volume includes reassessments of all the basins owned by Hamilton Township.

These assessments are needed to determine the overall state of existing stormwater infrastructure and to identify structural and maintenance problems. These regular inspections are also required by the New Jersey Department of Environmental Protection (NJDEP). Maintenance and inspection records must be submitted by the township for municipally owned basins, and the municipality must also submit evidence that privately owned basins are conducting regular maintenance and inspections as well. The goal of this volume is to provide the record of regular inspections of Hamilton Township owned basins and to identify if problems with previously assessed basins have been addressed. Basins designated as priority in this report should be addressed by conducting the recommended maintenance.

A web tool built through the Epicollect App was used for identifying and recording key issues occurring within the existing stormwater basins. Year 5 efforts focused on using the same criteria as used in previous years to identify key structural integrity issues, maintenance deficiencies, and overall functionality of the reassessed basins within the township.

During August 2019, staff and students conducted assessments of 99 basins throughout Hamilton Township (Figure 1). Some basins with inadequate data were revisited in the fall of 2019. Of these basins, 49 were municipally owned, and an additional 50 were identified as high priority in previous reports. Of the 49 municipally owned basins, two were not able to be assessed due to inaccessibility and should be assessed by the township to ensure they are in good condition (Basins #57 and #58). Eight were determined to not be true basins, with six identified as swales, one identified as a natural pond, and one identified as a catch basin.

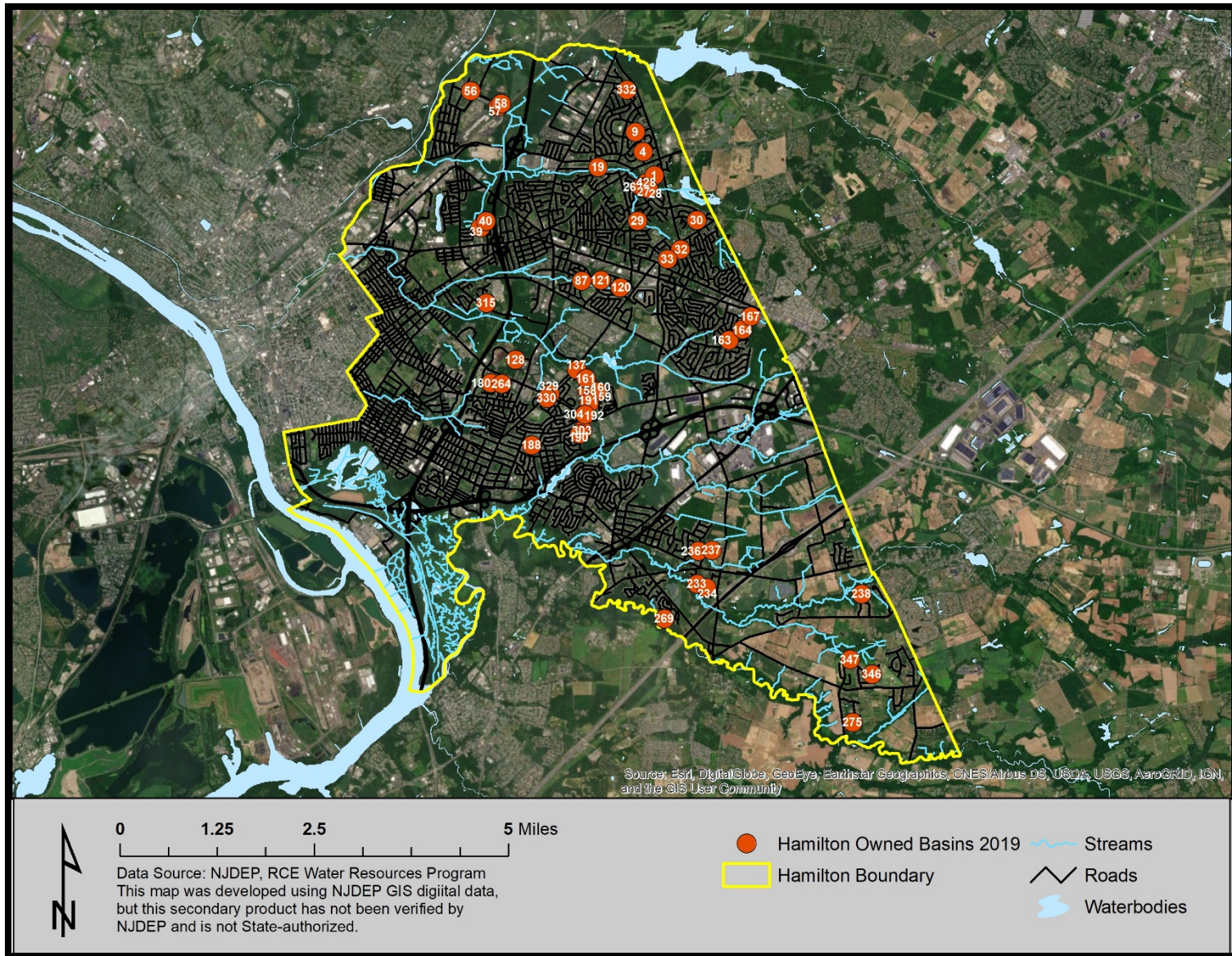


Figure 1: Hamilton Township owned stormwater basins evaluated during 2019

Findings

Upon completion of the field visits and assessments, RCE Water Resources Program staff and students compiled the collected data to generate maps using geographic information system (GIS) databases highlighting results and locating priority basins in need of maintenance, repair, and further investigation. Each map is accompanied by a list of the basins identified in the map.

Basins That Require Cleaning or Maintenance

This map (Attachment 2A/2B) identifies stormwater basins that have components that need to be cleaned or maintained. Debris, leaves, trash, sediment, and/or grass clippings may be preventing the facility from functioning properly. The work needed to get the facility fully operational should be minimal. Site visits noted that little or no routine maintenance is being done at the facility, and/or vegetation and debris have compromised the integrity of the system. More effort is needed to ensure the facility is operating effectively, and a routine maintenance program should be implemented to keep the system functioning.

Basins That Require Repair

This map (Attachment 2C) identifies stormwater basins that have structural components that are broken, deteriorated, and/or missing. Major repairs are those that cause the system to no longer function as designed and may be a safety hazard. Immediate action is needed to make the facility operational and safe. Minor repairs are those that impede the functionality somewhat, but not completely. Action should be taken as quickly as possible to avoid further deterioration of the structure.

Basins with Standing Water

This map (Attachment 2D) identifies stormwater basins where evidence of standing water was noted during the site visit. Standing water in basins for a period longer than 72 hours after a storm event can present a serious health risk. Immediate action should be taken to further investigate these basins and determine the reason for water to remain in the systems. It is anticipated that repairs will be necessary in many of these facilities to drain and to ensure that the facility functions properly. This is divided into whether the basin has major ponding which poses a significant problem, ponding in the low flow channel, and other minor ponding identified in inlets, outlets, or other areas.

Priority Basins

This map (Attachment 2E) identifies stormwater basins where multiple issues were noted during the site visit. Basins were categorized from no priority, with a score of one (not shown on map), to high priority, with a score of four, to organize the severity of repairs and maintenance needed. It is likely that multiple actions will be needed to get those facilities with a score of four fully operational and functioning as designed.

Basins Suitable for Water Quality and Infiltration Retrofits

This map (Attachment 2F) identifies stormwater basins where simple, cost-effective modifications to the facility could be made to increase the basin's ability to capture, filter, and infiltrate runoff during smaller storm events to protect water quality and promote groundwater recharge. Basins were selected in areas where available soils data indicate that infiltration is possible. When considering bioretention retrofits to improve infiltration (Map 2F), certain slope requirements must be achieved to ensure proper functionality. The soil groups can only be A and B for proper infiltration to occur. In addition, bioretention areas must be at least two (2) feet from the seasonal high water table. Areas of concern would be considered areas with a slope higher than 5%, hydrologic soil groups C and D, and depth to seasonal high groundwater table less than two (2) feet. Refer to the "Hamilton Township Soil Suitability for Stormwater BMPs" report for more precise information regarding soil categorization.

Summary and Conclusions

As the assessment process of the infrastructure network of Hamilton Township progresses forward, notable adverse trends among the stormwater management basins have become apparent. Proper corrective action to rectify these issues among the basins, especially those that pose high risk for failure or have potential negative effects on the health, safety, and welfare of residents should be taken by the township. Of the 49 basins assessed, 12 were identified as medium to high priority and should receive attention soon. Notable repeated observations during the assessment include sedimentation and vegetation restricted low flow channels which leads to standing water. These channels could be cleared, but a long term solution would be to remove these low flow channels and replace them with stone lined channels or vegetated swales. A similar observation was

excessive sediment accumulation near the inlet and outlet structures. These areas should be regularly cleared to ensure the low flow orifice and pipes are not clogged or filled with sediment. Another common observation was outlets and inlets being covered in vegetation. These areas need to be cleared of vegetation to maintain function and accessibility to the key parts of the basin infrastructure. Furthermore, educating the community on the vital role of stormwater management should be integrated into the repair and maintenance process of these basins. It is also important to remain observant for any opportunities where improvements can be made to increase infiltration rates and safeguard water quality.

Next Steps

Detention basins can often be improved upon with simple retrofits or alterations that improve the basin's ability to remove nonpoint source pollutants in a cost-effective manner. While improving water quality is a major goal associated with retrofits, increasing detention times and groundwater recharge rates will reduce runoff volumes entering local waterways, thereby reducing localized flooding. During the assessment process, staff and interns identified detention basins suitable for retrofits. These retrofit opportunities include reduced mowing, establishing meadows, removing low flow channels, naturalizing, and retrofitting into infiltration basins. These opportunities are highlighted in the assessment summaries in Attachment 3.

Attachment 1: Stormwater Basin Inspection Checklist



Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist



GENERAL INFORMATION		Site ID:
Name(s) person inspecting the basin:		Date:
Location Address and Cross Streets:	Watershed:	
Name of Creek, Stream, or area into which the basin discharges:	Property Owner / Tax Parcel Block & Lot:	
Contact information:		
STRUCTURAL COMPONENTS		
Basin description, size and depth:	Is the basin accessible to maintain? Yes / No Is it maintained: Mowed, clear of woody plants, inlet/outlet blockages?	
Number of inlets:	Outlet diameter:	

GENERAL OBSERVATIONS	YES	NO	NOTES/REMARKS
1) Any reports on the basin not functioning?			
2) Are there any unauthorized or malfunctioning structures in the basin?			
3) Are there concrete low flow channels. Is the water entering the basin directly exiting the basin outlet without coming in contact with the basin bottom soil and vegetation?			
4) Is there standing water or evidence of standing water in the basin?			
INLET/S			
1) Signs of breakage, damage, corrosion or rusting of inlet structure/pipe?			
2) Debris or sediment accumulation in or around the inlet clogging the inlet opening/pipe?			
3) Signs of erosion, scour or gullies; rock or vegetation above or around the inlet structure?			
4) Tree roots, woody vegetation growing close to or through the inlet structure or a situation impacting the structure's integrity?			
5) If the inlet has a pretreatment structure (trash rack, forebay) is it filled w/ debris or sediment?			
BASIN			
1) Accumulation of debris or litter within basin?			
2) Exposed dirt or earth visible, are there areas without vegetation or where turf is damaged?			
3) Excess sediment accumulation in the basin?			
4) Basin walls/embankment eroded, slumping, caved or being undermined?			

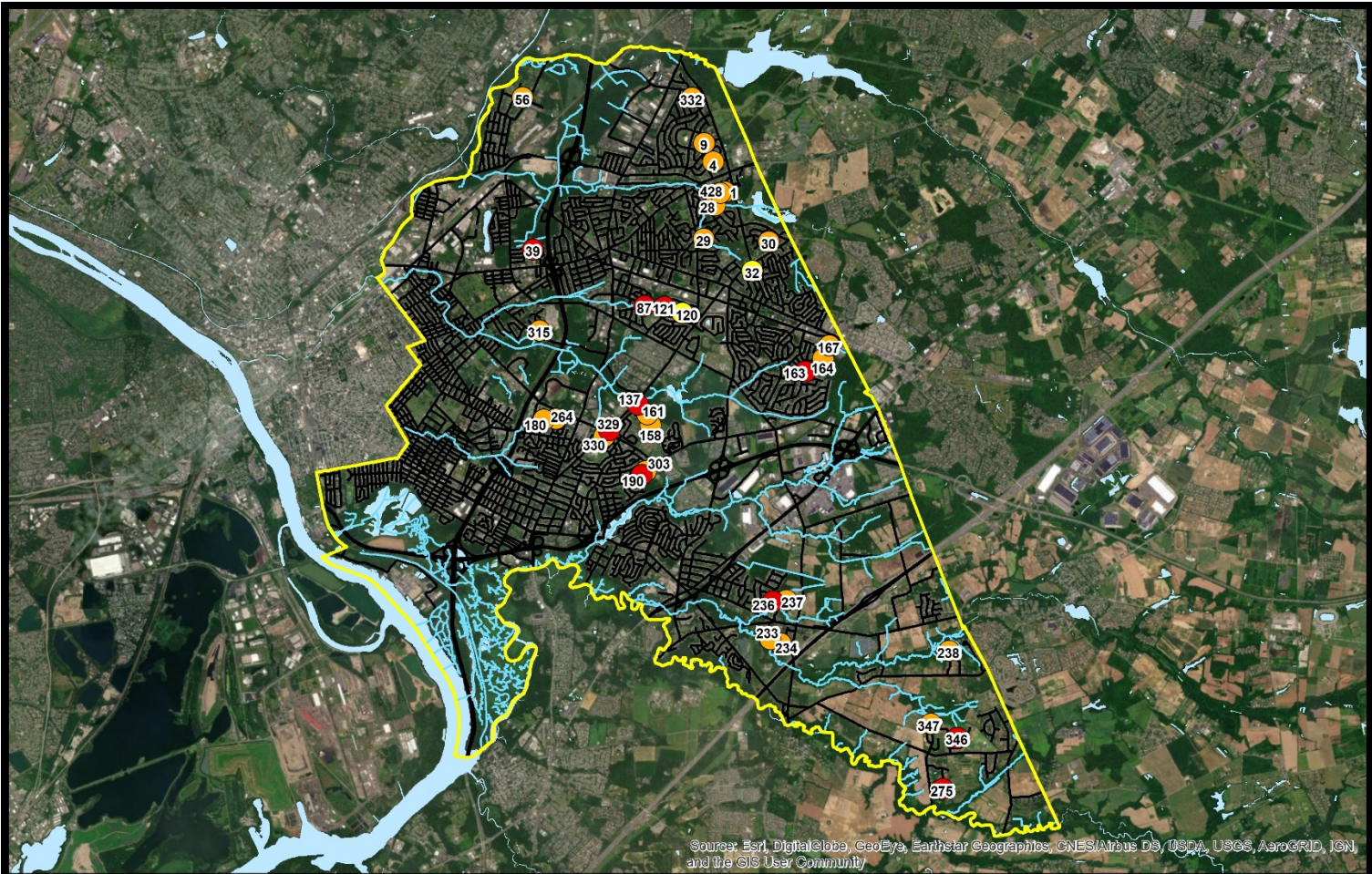


Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist



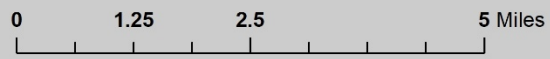
OUTLET	YES	NO	NOTES/REMARKS
1) Breakage, damage, corrosion or rusting to outlet pipe or conveyance?			
2) Signs of erosion, scour or gullies; rock or vegetation above or around the outlet structure?			
3) Debris or sediment accumulation in or around the outlet pipe (i.e. debris or sediment)?			
4) Accumulation of debris or litter in or around outlet?			
5) Tree roots or woody vegetation impacting the outlet or causing potential damage to the structure?			
SECONDARY/EMERGENCY OVERFLOW SPILLWAY			
1) Are pipes, conduits, or conveyances free of debris, clogs and in good condition? (i.e. no visible cracks, breakage slumping)			
2) Large tree or root growth close to pipes or conveyances with the potential to crack structure or impede flow?			
3) Signs of erosion, scour or gullies; rock or vegetation above or around the spillway?			
BASIN OUTFALL AREA			
1) Signs of stormwater exiting the basin in an uncontrolled manner over or through wall or berm?			
2) Signs of erosion, scour or gullies; rock or vegetation at or down slope of the outfall?			
RECOMMENDATIONS FOR WATER QUALITY IMPROVEMENTS			
1) Reduce mowing 2) Plant buffers 3) Establish meadows 4) Retrofit with infiltration structures or other strategies 5) Other			
SUMMARY AND NOTES: Identify unique characteristics and/or opportunities			

Attachment 2A/2B: Hamilton Township Owned Basins that Require Cleaning or Maintenance



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Hamilton Owned Basins: Cleaning and Maintenance

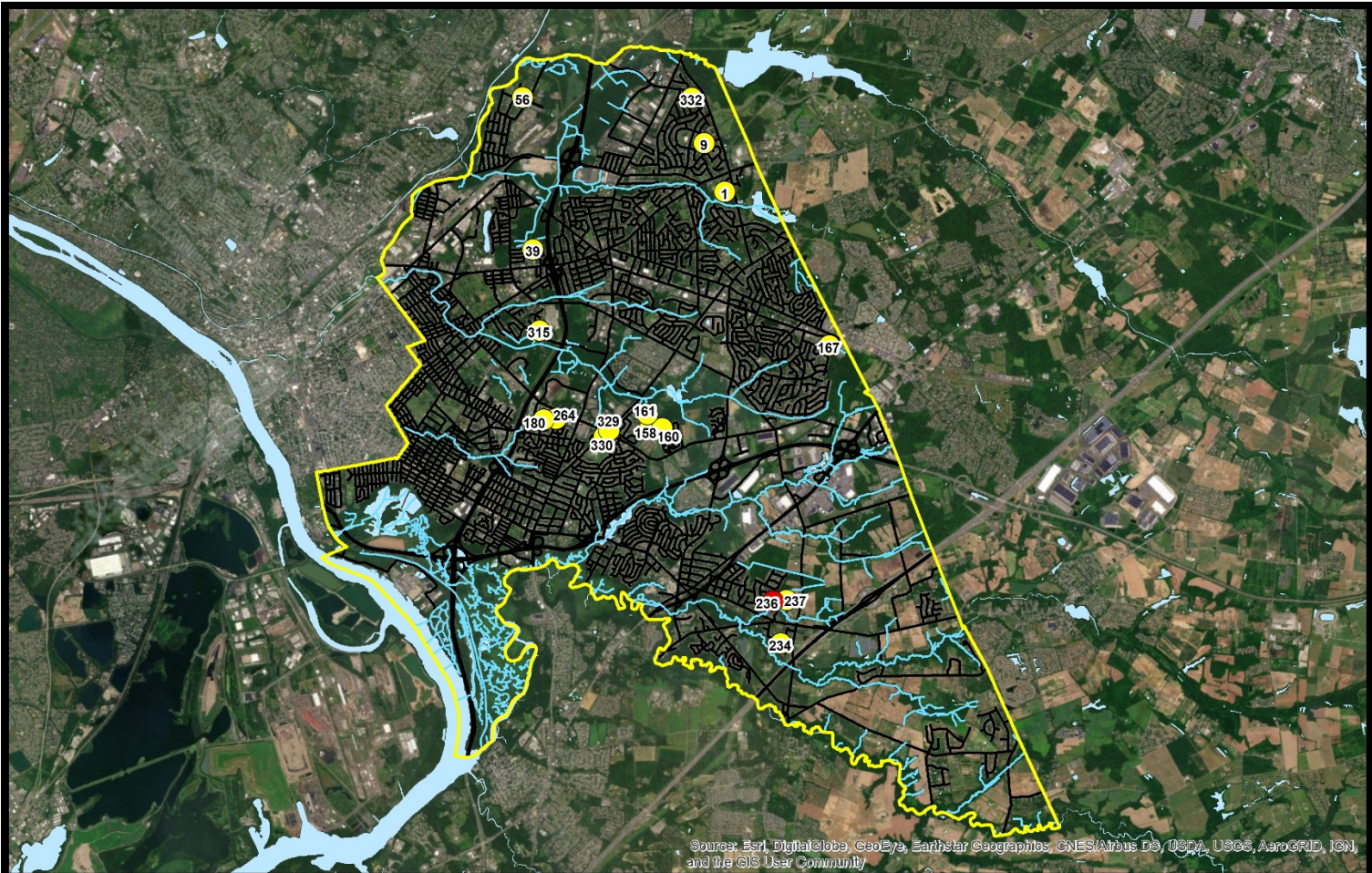


Data Source: NJDEP, RCE Water Resources Program
 This map was developed using NJDEP GIS digital data, but this secondary product has not been verified by NJDEP and is not State-authorized.

- Cleaning and maintenance needed
- Routine maintenance required
- Routine cleaning needed
- Hamilton Boundary
- Roads
- Streams
- Waterbodies

Basin ID	Basin Type	Condition	Overall Priority
39	Other	Cleaning and maintenance needed	3
87	Detention	Cleaning and maintenance needed	1
121	Detention	Cleaning and maintenance needed	2
137	Detention	Cleaning and maintenance needed	2
163	Other	Cleaning and maintenance needed	1
190	Detention	Cleaning and maintenance needed	1
236	Detention	Cleaning and maintenance needed	4
275	Other	Cleaning and maintenance needed	1
329	Detention	Cleaning and maintenance needed	3
1	Detention	Routine maintenance required	3
4	Detention	Routine maintenance required	2
9	Detention	Routine maintenance required	1
28	Infiltration	Routine maintenance required	1
29	Detention	Routine maintenance required	2
30	Retention	Routine maintenance required	2
56	Detention	Routine maintenance required	2
158	Other	Routine maintenance required	3
161	Detention	Routine maintenance required	2
164	Detention	Routine maintenance required	2
167	Detention	Routine maintenance required	3
180	Detention	Routine maintenance required	3
233	Detention	Routine maintenance required	1
234	Detention	Routine maintenance required	1
237	Detention	Routine maintenance required	2
238	Retention	Routine maintenance required	2
264	Detention	Routine maintenance required	3
303	Unclear	Routine maintenance required	1
315	Detention	Routine maintenance required	3
330	Detention	Routine maintenance required	3
332	Detention	Routine maintenance required	2
347	Retention	Routine maintenance required	2
428	Infiltration	Routine maintenance required	1
32	Detention	Routine cleaning needed	1
120	Detention	Routine cleaning needed	1

Attachment 2C: Hamilton Township Owned Basins that Require Repair



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



0 1.25 2.5 5 Miles

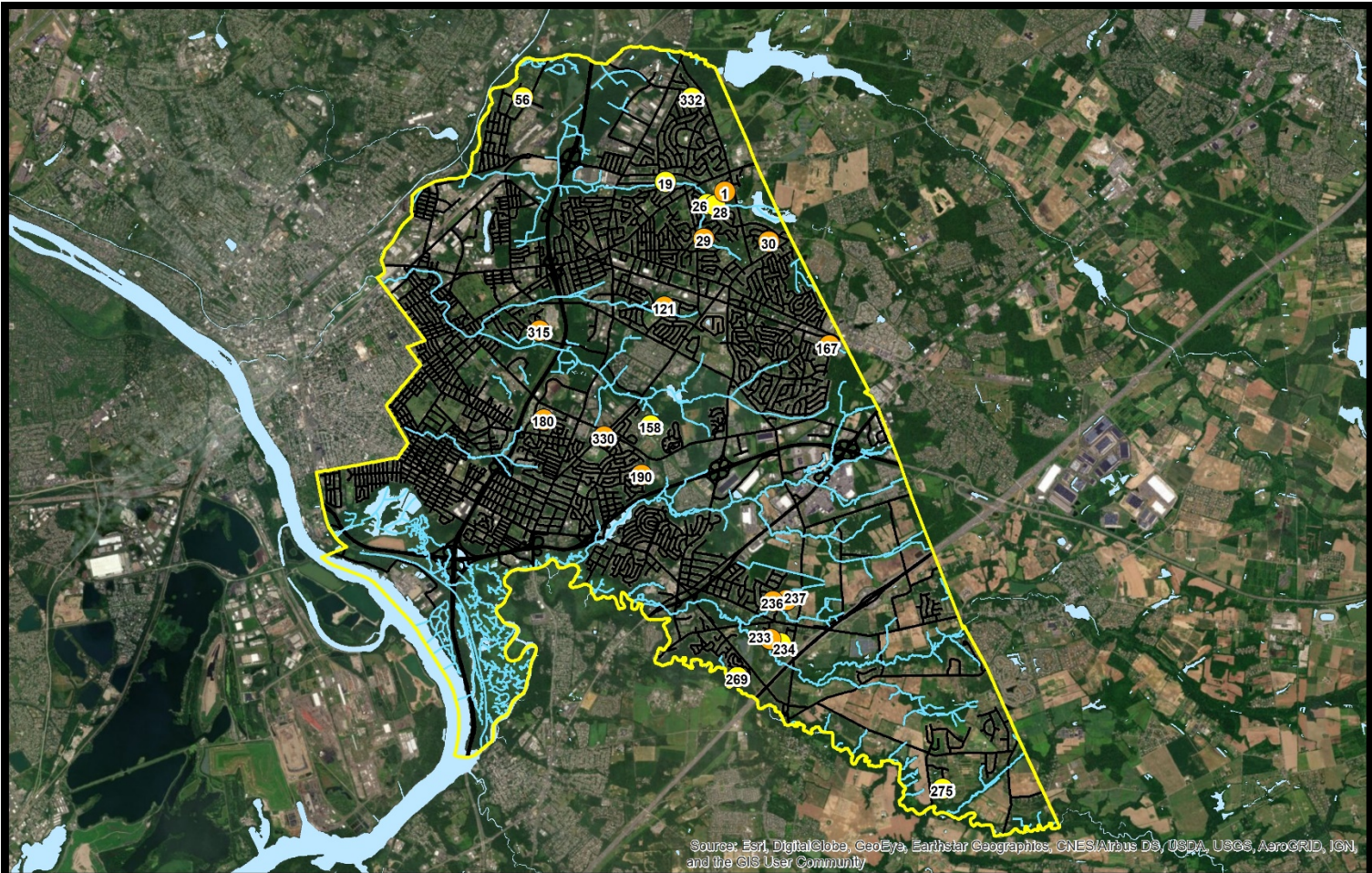
Data Source: NJDEP, RCE Water Resources Program
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Hamilton Owned Basins: Repair

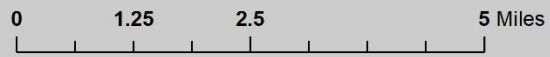
- major repair
- minor repair
- Hamilton Boundary
- Roads
- Streams
- Waterbodies

Basin ID	Basin Type	Repair	Overall Priority
236	Detention	major repair	4
1	Detention	minor repair	3
9	Detention	minor repair	1
39	Other	minor repair	3
56	Detention	minor repair	2
158	Other	minor repair	3
160	Other	minor repair	2
161	Detention	minor repair	2
167	Detention	minor repair	3
180	Detention	minor repair	3
234	Detention	minor repair	1
237	Detention	minor repair	2
264	Detention	minor repair	3
315	Detention	minor repair	3
329	Detention	minor repair	3
330	Detention	minor repair	3
332	Detention	minor repair	2

Attachment 2D: Hamilton Township Owned Basins with Standing Water









Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



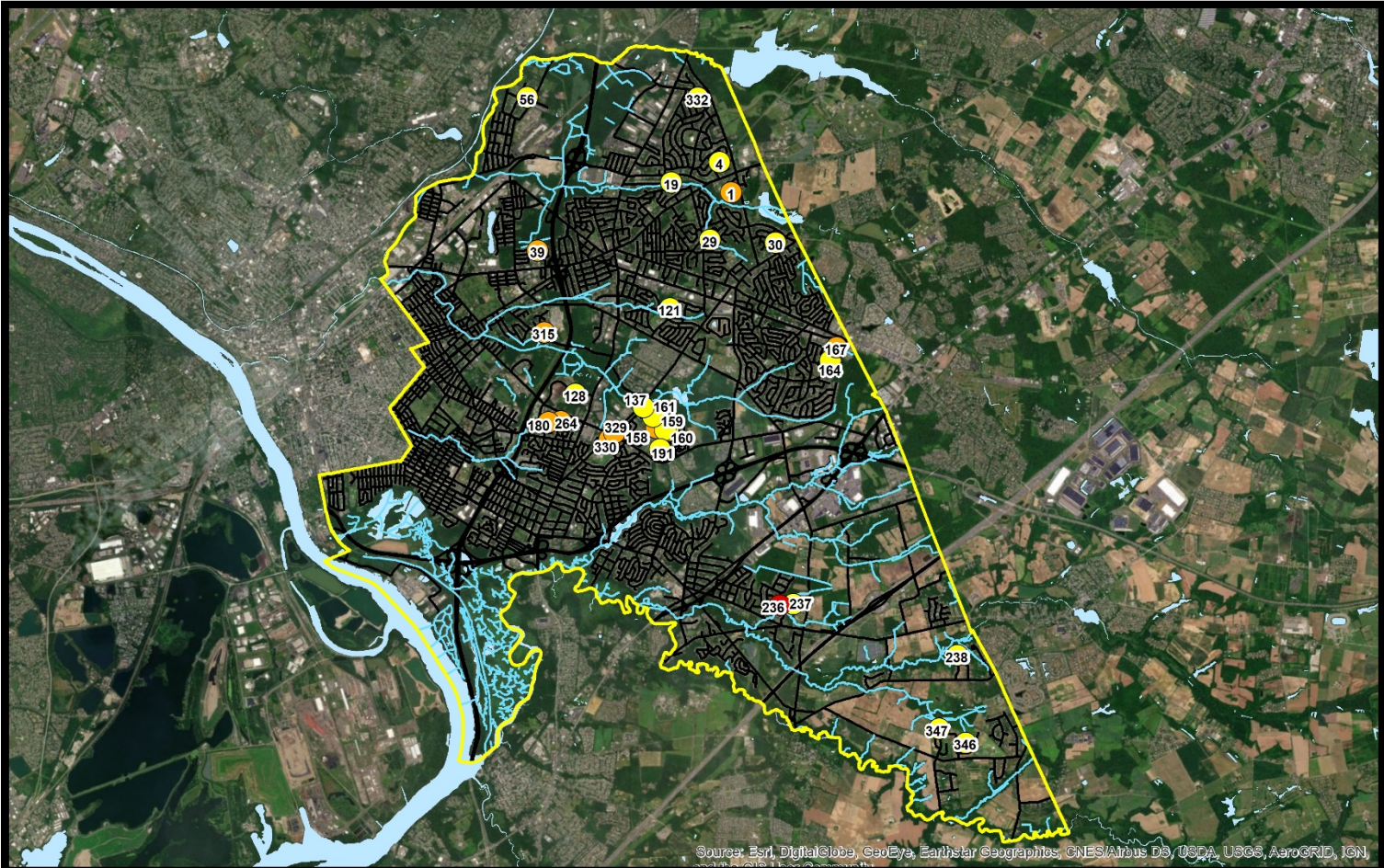
Data Source: NJDEP, RCE Water Resources Program
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Hamilton Owned Basins: Standing Water

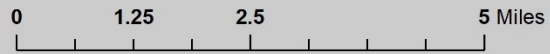
-  Low Flow Channel
-  Other Minor
-  Hamilton Boundary
-  Roads
-  Streams
-  Waterbodies

Basin ID	Basin Type	Standing Water	Overall Priority
1	Detention	Low Flow Channel	3
29	Detention	Low Flow Channel	2
30	Retention	Low Flow Channel	2
121	Detention	Low Flow Channel	2
167	Detention	Low Flow Channel	3
180	Detention	Low Flow Channel	3
190	Detention	Low Flow Channel	1
233	Detention	Low Flow Channel	1
236	Detention	Low Flow Channel	4
237	Detention	Low Flow Channel	2
315	Detention	Low Flow Channel	3
330	Detention	Low Flow Channel	3
19	Detention	Other Minor	2
26	Detention	Other Minor	1
28	Infiltration	Other Minor	1
56	Detention	Other Minor	2
158	Other	Other Minor	3
234	Detention	Other Minor	1
269	Detention	Other Minor	1
275	Other	Other Minor	1
332	Detention	Other Minor	2

Attachment 2E: Hamilton Township Owned Priority Basins



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, ...



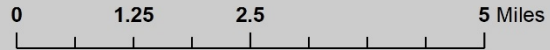
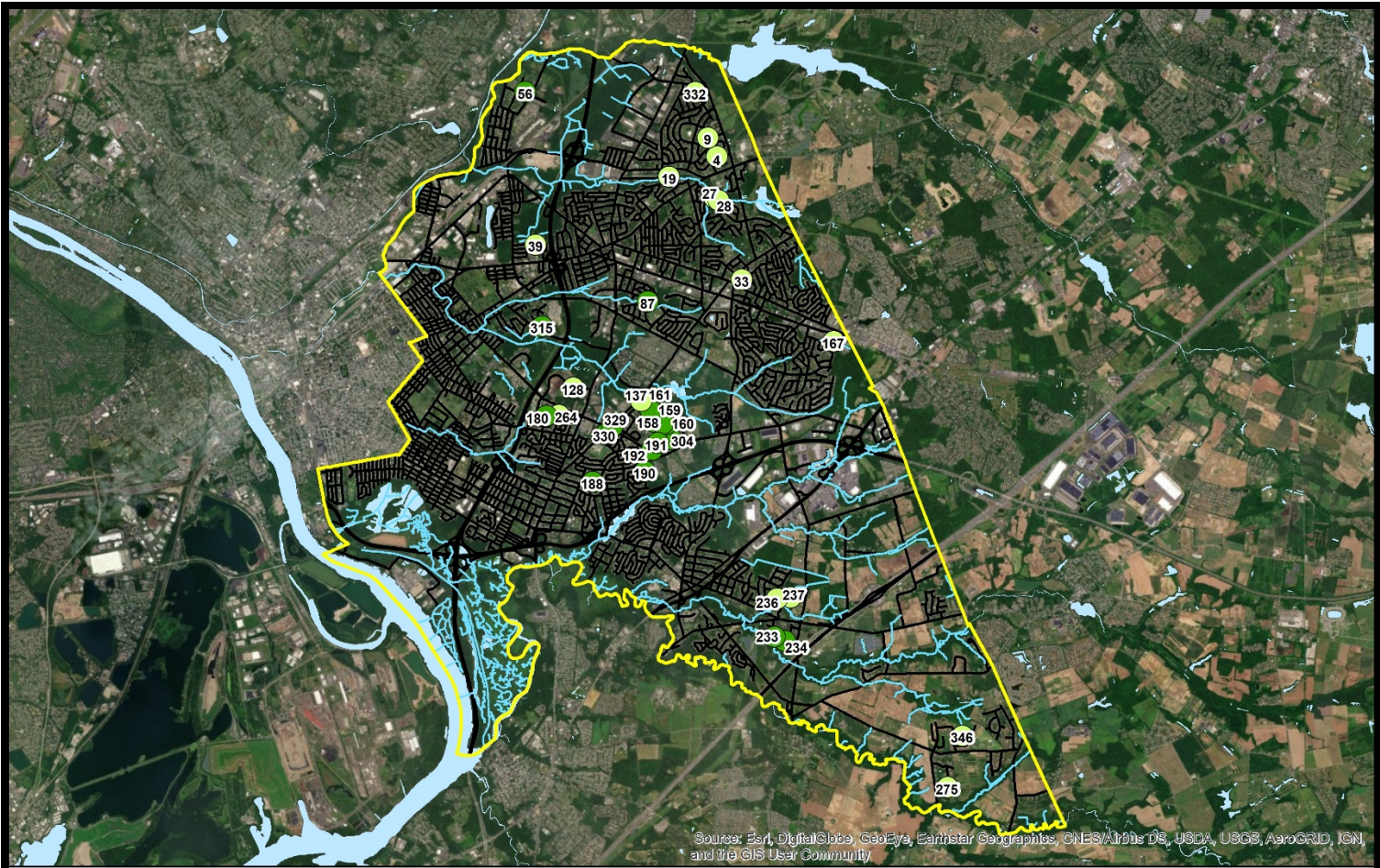
Data Source: NJDEP, RCE Water Resources Program
 This map was developed using NJDEP GIS digital data,
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Hamilton Owned Basins: Priority

- High Priority (4)
- Medium Priority (3)
- Low Priority (2)
- Hamilton Boundary
- Roads
- Streams
- Waterbodies

Basin ID	Basin Type	Overall Priority
236	Detention	4
1	Detention	3
39	Other	3
158	Other	3
167	Detention	3
180	Detention	3
264	Detention	3
315	Detention	3
329	Detention	3
330	Detention	3
4	Detention	2
19	Detention	2
29	Detention	2
30	Retention	2
56	Detention	2
121	Detention	2
128	Detention	2
137	Detention	2
159	Other	2
160	Other	2
161	Detention	2
164	Detention	2
191	Other	2
237	Detention	2
238	Retention	2
332	Detention	2
346	Retention	2
347	Retention	2

Attachment 2F: Hamilton Township Owned Basins Suitable for Retrofits



Data Source: NJDEP, RCE Water Resources Program
 This map was developed using NJDEP GIS digital data,
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 NJDEP and is not State-authorized.

Hamilton Owned Basins: Infiltration Retrofit

- Highly Suitable for infiltration retrofit
- Suitable for infiltration retrofit
- Hamilton Boundary
- Roads
- Streams
- Waterbodies

Basin ID	Basin Type	Retrofit Suitability	Overall Priority
56	Detention	Highly Suitable for infiltration retrofit	2
87	Detention	Highly Suitable for infiltration retrofit	1
158	Other	Highly Suitable for infiltration retrofit	3
159	Other	Highly Suitable for infiltration retrofit	2
160	Other	Highly Suitable for infiltration retrofit	2
161	Detention	Highly Suitable for infiltration retrofit	2
180	Detention	Highly Suitable for infiltration retrofit	3
188	Detention	Highly Suitable for infiltration retrofit	1
190	Detention	Highly Suitable for infiltration retrofit	1
191	Other	Highly Suitable for infiltration retrofit	2
192	Detention	Highly Suitable for infiltration retrofit	1
233	Detention	Highly Suitable for infiltration retrofit	1
234	Detention	Highly Suitable for infiltration retrofit	1
304	Other	Highly Suitable for infiltration retrofit	1
315	Detention	Highly Suitable for infiltration retrofit	3
329	Detention	Highly Suitable for infiltration retrofit	3
330	Detention	Highly Suitable for infiltration retrofit	3
4	Detention	Suitable for infiltration retrofit	2
9	Detention	Suitable for infiltration retrofit	1
19	Detention	Suitable for infiltration retrofit	2
27	Detention	Suitable for infiltration retrofit	1
28	Infiltration	Suitable for infiltration retrofit	1
33	Detention	Suitable for infiltration retrofit	1
39	Other	Suitable for infiltration retrofit	3
128	Detention	Suitable for infiltration retrofit	2
137	Detention	Suitable for infiltration retrofit	2
167	Detention	Suitable for infiltration retrofit	3
236	Detention	Suitable for infiltration retrofit	4
237	Detention	Suitable for infiltration retrofit	2
264	Detention	Suitable for infiltration retrofit	3
275	Other	Suitable for infiltration retrofit	1
332	Detention	Suitable for infiltration retrofit	2
346	Retention	Suitable for infiltration retrofit	2

Attachment 3: Stormwater Basin Assessments



ID#	Location
1.	12 Dogwood Ln
4.	4 Tara Ct
9.	30 Tar Heels Rd E
19.	193 Brookwood Rd
26.	6 Crestwood Dr
27.	6 Crestwood Dr
28.	6 Crestwood Dr
29.	11 Arrowwood Dr
30.	5 Fordham Dr
32.	200 Mercer St
33.	10 Emily Pl
39.	112 Armour Ave
56.	Colton Ct
87.	Estates Blvd & Trenton Ave
120.	12 Imperial Dr
121.	1 Foy Dr
128.	19 Justice Samuel A. Alito Jr. Way
137.	76 Noa Ct
158.	Bozarth Ct
159.	224 Kruser Rd
160.	224 Kruser Rd
161.	224 Kruser Rd
163.	Mint Leaf Dr and Limewood Dr
164.	Great Oak Rd and Dukoff Dr

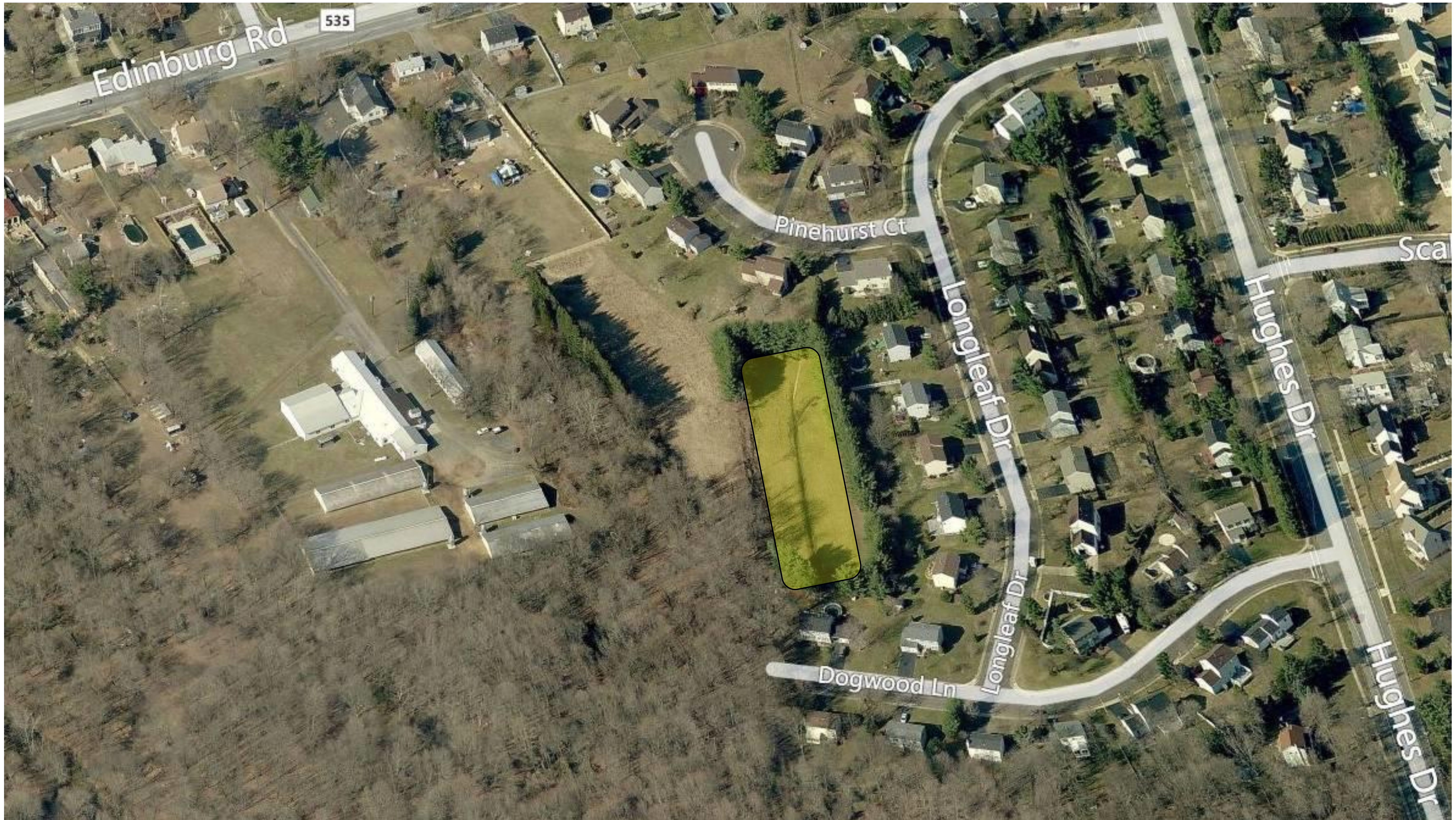
ID#	Location
167.	Innocenzi Dr and Great Oak Rd
180.	20 Perilli Drive
188.	255 Sharps Ln
190.	41 Dark Leaf Dr
191.	2193 Kuser Rd
192.	2193 Kuser Rd
233.	17 Alessio Terrace
234.	17 Alessio Terrace
236.	79 Village Drive East
237.	79 Village Drive East
238.	9 Weathersfield Dr
264.	39 Perilli Dr
269.	56 Kristopher Dr
275.	33 Iron Bridge Rd (Pond not basin)
303.	123 Englewood Blvd
304.	31 Willow Bend Dr (nonexistent, small drainage system)
315.	390 Cypress Lane
329.	1130 Whilehorse Hamilton Square Road
330.	1801 Kuser Road
332.	99 Robin Drive
346.	10 Jeremy Place
347.	3 Jeremy Place
428.	21 Dogwood Lane

2019
Hamilton Township
Stormwater Basin Assessment
Hamilton Owned Basins

Hamilton Township
Stormwater Basin Assessment

1. Dogwood Lane Residential Detention Basin

Address:
12 Dogwood Ln
Trenton, NJ 08690



Hamilton Township Stormwater Basin Assessment

1. Dogwood Lane Residential Detention Basin

Address:
12 Dogwood Ln
Trenton, NJ 08690



Clogged inlet.



Clogged low flow and outlet.



Looking south from basin bottom.

2012 Notes:

- Inlets, outlet and low flow channel are clogged with sediment that is restricting the flow of water
- Excess plant growth within the low flow channel
- Woody vegetation growing around inlets and outlet

Hamilton Township Stormwater Basin Assessment

1. Dogwood Lane Residential Detention Basin

Address:
12 Dogwood Ln
Trenton, NJ 08690



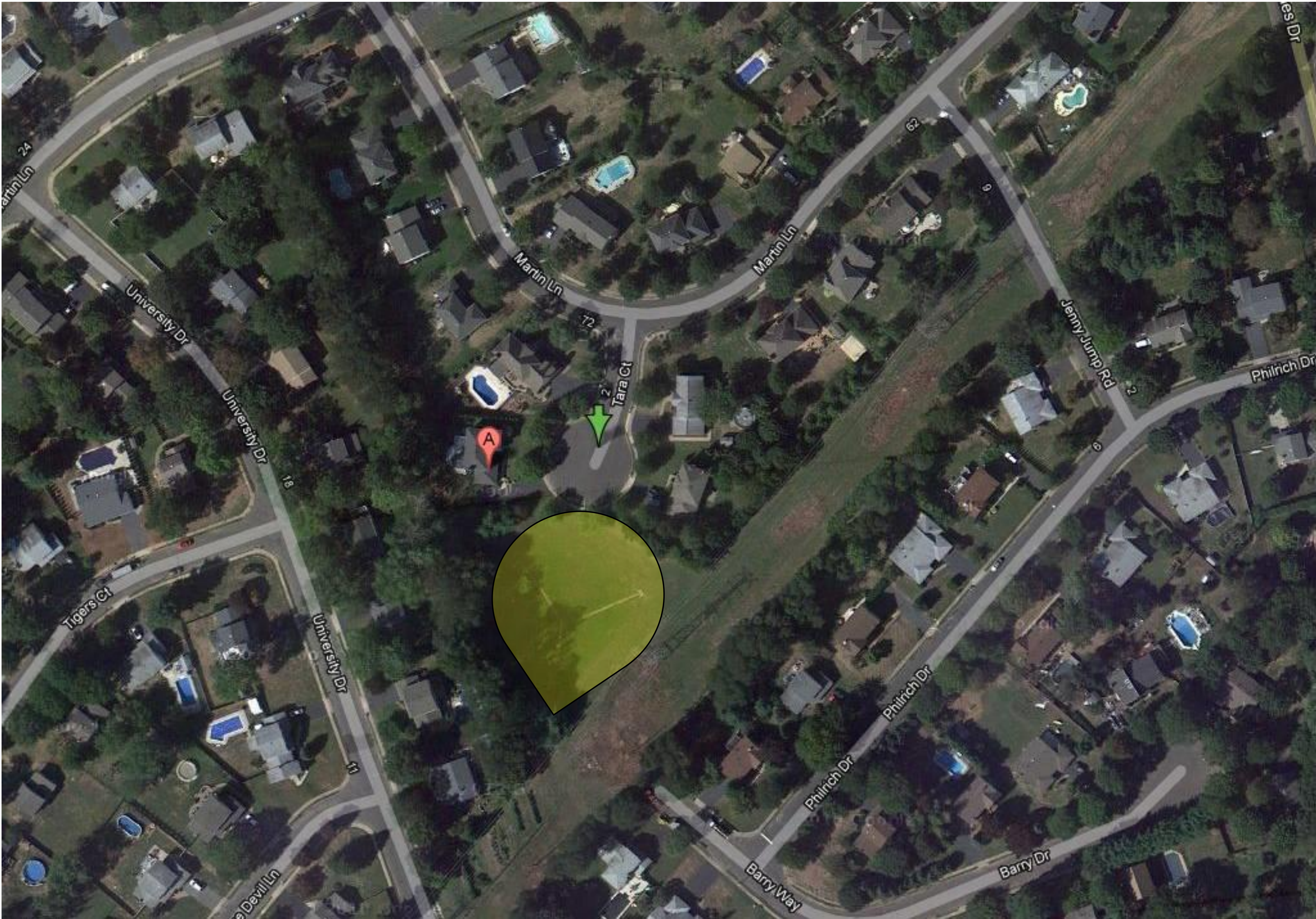
2019 Notes:

- Channel overgrown with vegetation and sediment leading to restricted flow
- Basin has not improved from previous assessment
- Suggest maintenance to clear out channels

Hamilton Township
Stormwater Basin Assessment

4. Tara Ct. Residential Basin

Address:
4 Tara Ct
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
4. Tara Ct. Residential Basin

Address:
4 Tara Ct
Trenton, NJ 08619



36" Diameter inlet



Outlet structure



Entire basin looking southwest

2012 Notes:

- Sediment accumulation in low flow channel

Hamilton Township
Stormwater Basin Assessment
4. Tara Ct. Residential Basin

Address:
4 Tara Ct
Trenton, NJ 08619

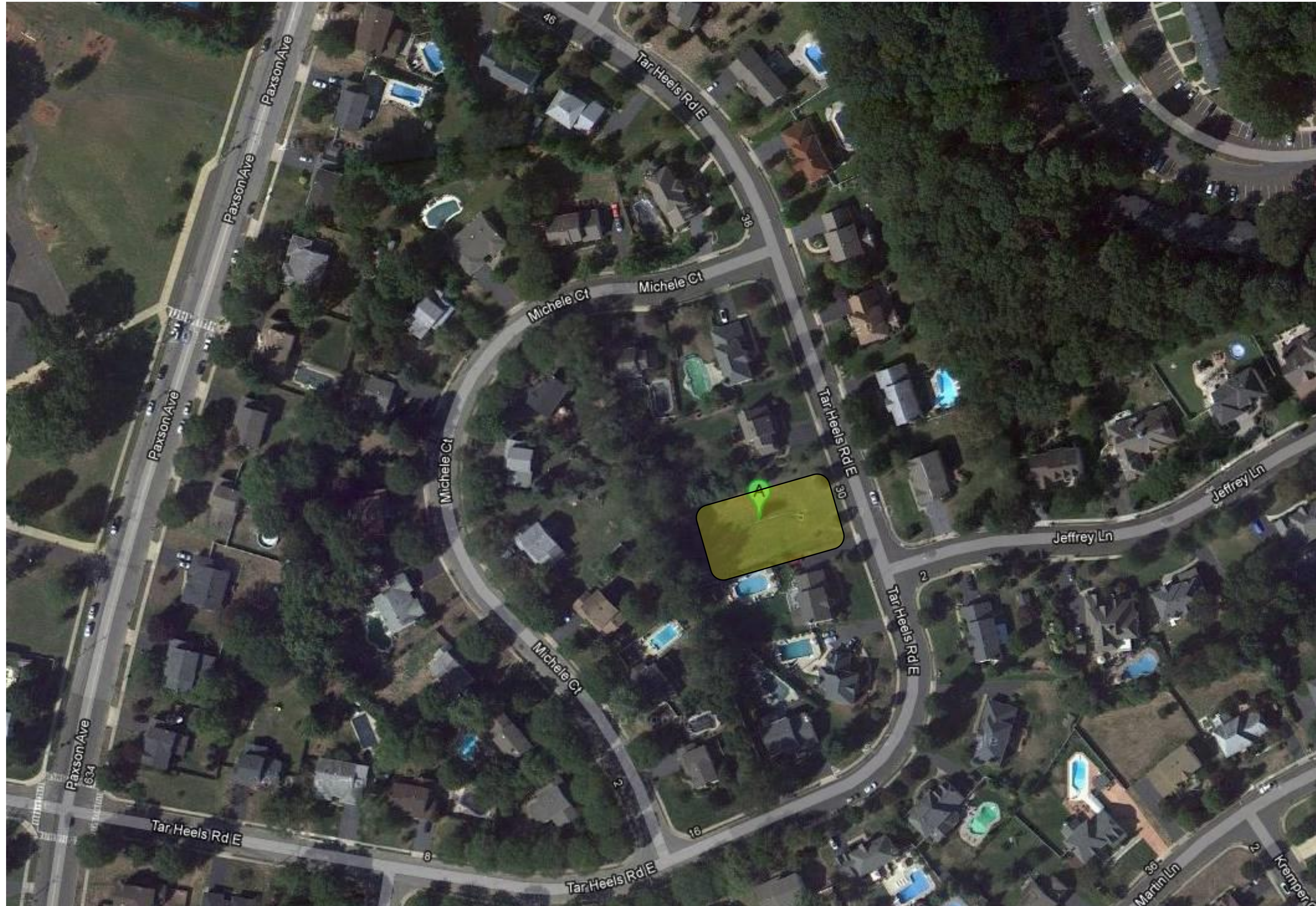


2019 Notes:

- Two inlets and one outlet
- Concrete low flow channel has grass growing over it
- Opportunity to remove concrete low flow channels and replace with a stone channel

Hamilton Township
Stormwater Basin Assessment
9. Tar Heel Rd E Residential Basin

Address:
30 Tar Heels Rd E
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
9. Tar Heel Rd E Residential Basin

Address:
30 Tar Heels Rd E
Hamilton Township, NJ 08619



Basin bottom looking west



Basin bottom looking east

2012 Notes:

- Sediment accumulation in low flow channel that is restricting the flow of water
- Outlet orifice is clogged with sediment
- Woody vegetation growth around outlet

Hamilton Township
Stormwater Basin Assessment
9. Tar Heel Rd E Residential Basin

Address:
30 Tar Heels Rd E
Hamilton Township, NJ 08619



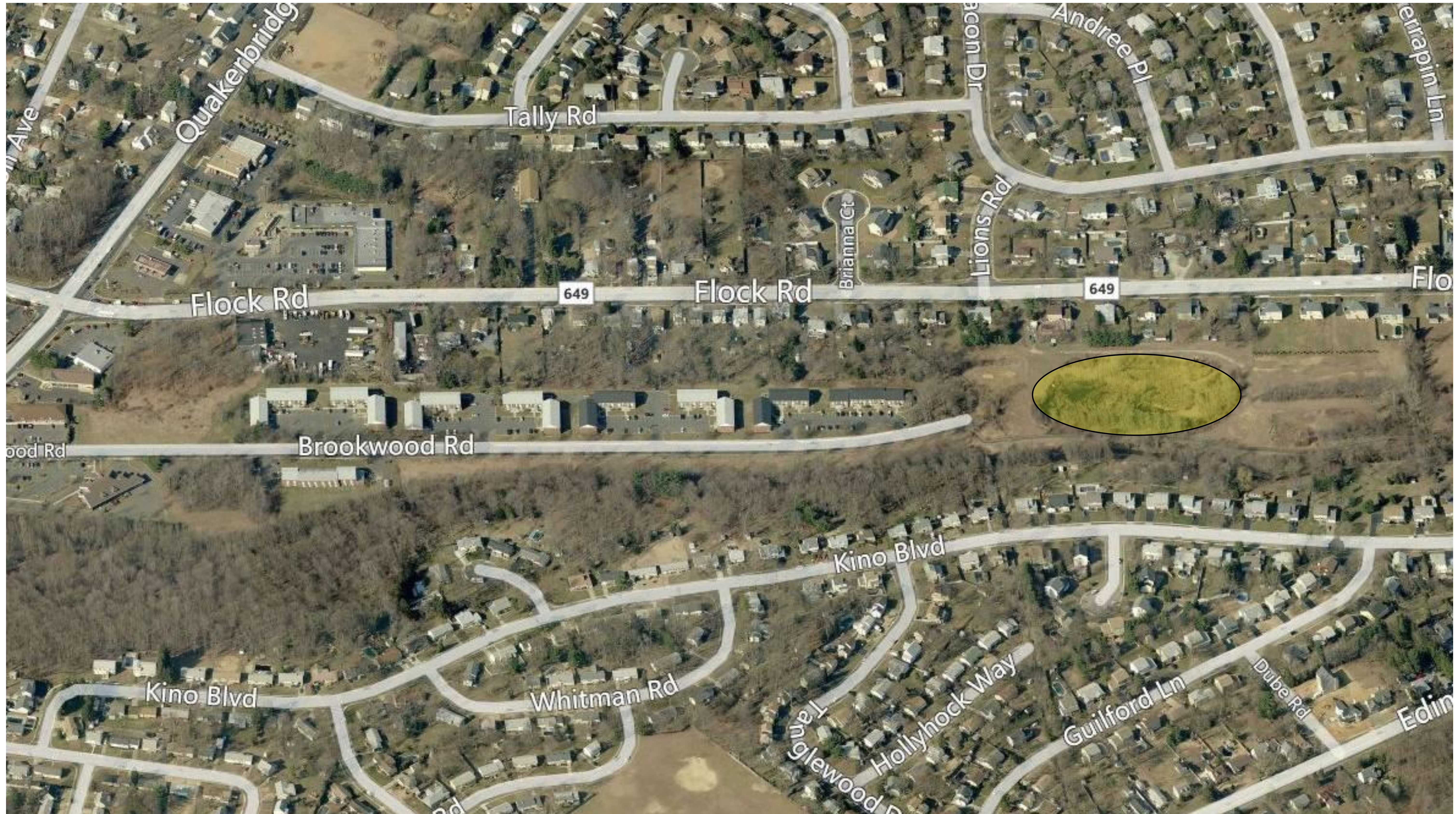
2019 Notes:

- Typical detention basin in good condition with one inlet and one outlet
- Rock flow channel opportunity
- Low flow channel could be removed and basin allowed to naturalize by reducing mowing

Hamilton Township
Stormwater Basin Assessment

19. Brookwood Rd Residential Basin

Address:
193 Brookwood Rd
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
19. Brookwood Rd Residential Basin

Address:
193 Brookwood Rd
Trenton, NJ 08619



View of basin looking east



Outlet Structure



Inlet and erosion

2012 Notes:

- Basin is naturalized with dense vegetation
- Inlets and outlets are inaccessible due to vegetation growth in warm months
- Invasive plant species present including Phragmites and Purple Loosestrife
- Erosion present

Hamilton Township
Stormwater Basin Assessment

19. Brookwood Rd Residential Basin

Address:
193 Brookwood Rd
Trenton, NJ 08619



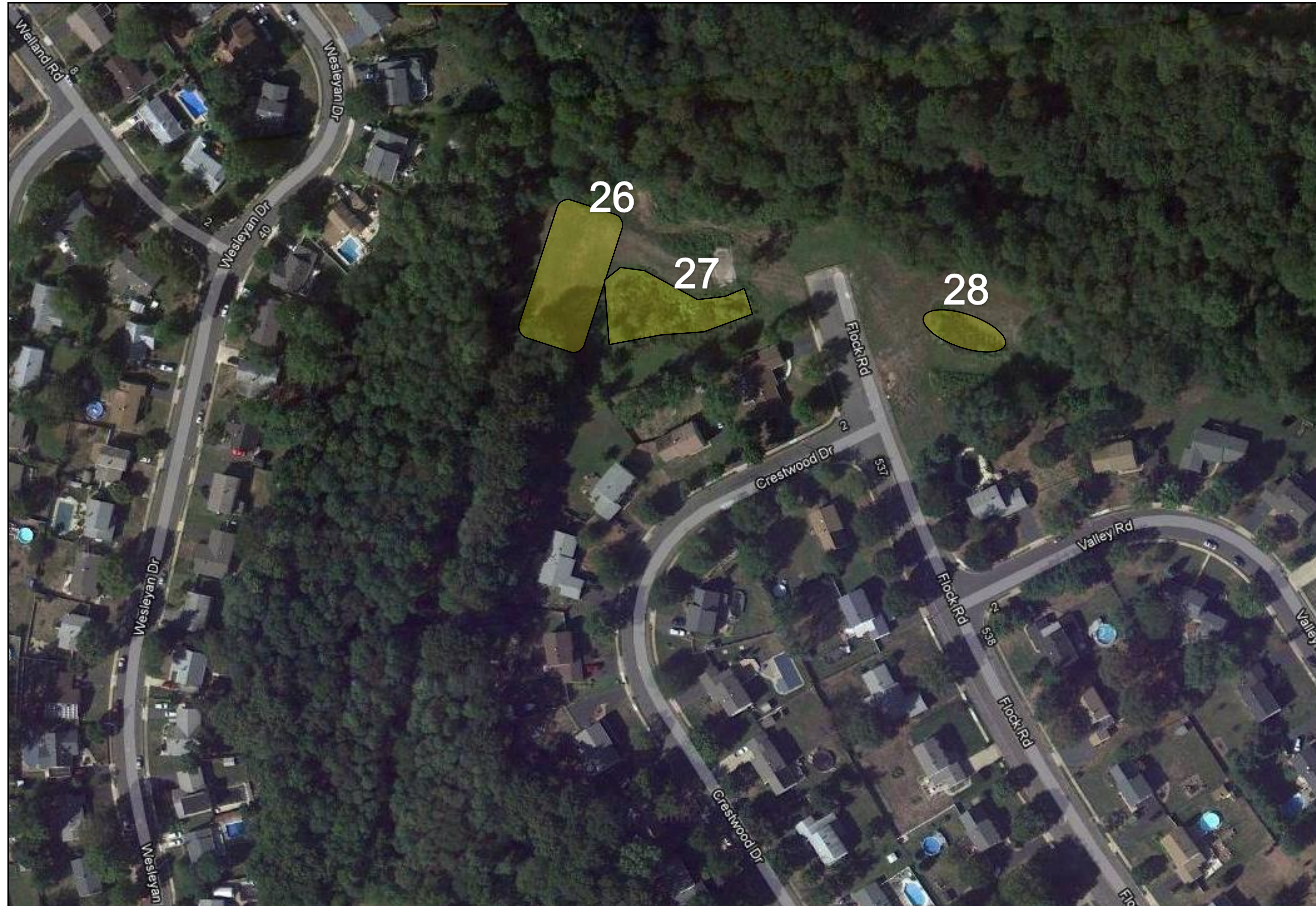
2019 Notes:

- Basin is inaccessible due to over grown vegetation
- Maintenance suggested to have access to basin and outlet structures

Hamilton Township
Stormwater Basin Assessment

26, 27, & 28. Crestwood Dr Residential Basins

Address:
6 Crestwood Dr
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
26 & 27. Crestwood Dr Residential Basins

Address:
6 Crestwood Dr
Trenton, NJ 08619



Outlet



Inlet



Emergency Spillway

2012 Notes:

- Standing water remaining in basin
- Woody vegetation growth around inlet
- Excess sediment accumulation in outlet

Hamilton Township
Stormwater Basin Assessment
26 & 27. Crestwood Dr Residential Basins

Address:
6 Crestwood Dr
Trenton, NJ 08619



26.



27.

2019 Notes:

- Grass area surrounding inflow
- Largely vegetated basins with both herbaceous and woody plant
- Some erosion in channelized areas

Hamilton Township
Stormwater Basin Assessment

28. Crestwood Dr Residential Basins

Address:
6 Crestwood Dr
Trenton, NJ 08619



Entire basin looking east near inlet

2012 Notes:

- Standing water remaining in basin
- No outlet visible, basin developing into a wetland system

Hamilton Township
Stormwater Basin Assessment

28. Crestwood Dr Residential Basins

Address:
6 Crestwood Dr
Trenton, NJ 08619



2019 Notes:

- Heavy vegetation in the basin
- No clear outlet identified

Hamilton Township
Stormwater Basin Assessment

29. Arrowwood Dr Residential Basin

Address:
11 Arrowwood Dr
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
29. Arrowwood Dr Residential Basin

Address:
11 Arrowwood Dr
Trenton, NJ 08619



Basin bottom looking south



Two inlets



Outlet

2012 Notes:

- Excess sediment accumulation in low flow channel
- Outlet has some sediment accumulation

Hamilton Township
Stormwater Basin Assessment

29. Arrowwood Dr Residential Basin

Address:
11 Arrowwood Dr
Trenton, NJ 08619



2019 Notes:

- Long detention basin with two inlets and an outlet
- Standing water present in low flow channel
- Clear sign of erosion occurring upstream from color of water in low flow channel

Hamilton Township
Stormwater Basin Assessment
30. Fordham Dr Residential Basin

Address:
5 Fordham Dr
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
30. Fordham Dr Residential Basin

Address:
5 Fordham Dr
Trenton, NJ 08619



Basin bottom looking northeast



Inlet protection



Gabion wall perimeter



Overgrown outlet

2012 Notes:

- Standing water in low flow channel
- Outlet has sediment accumulation and excessive plant growth

Hamilton Township
Stormwater Basin Assessment
30. Fordham Dr Residential Basin

Address:
5 Fordham Dr
Trenton, NJ 08619



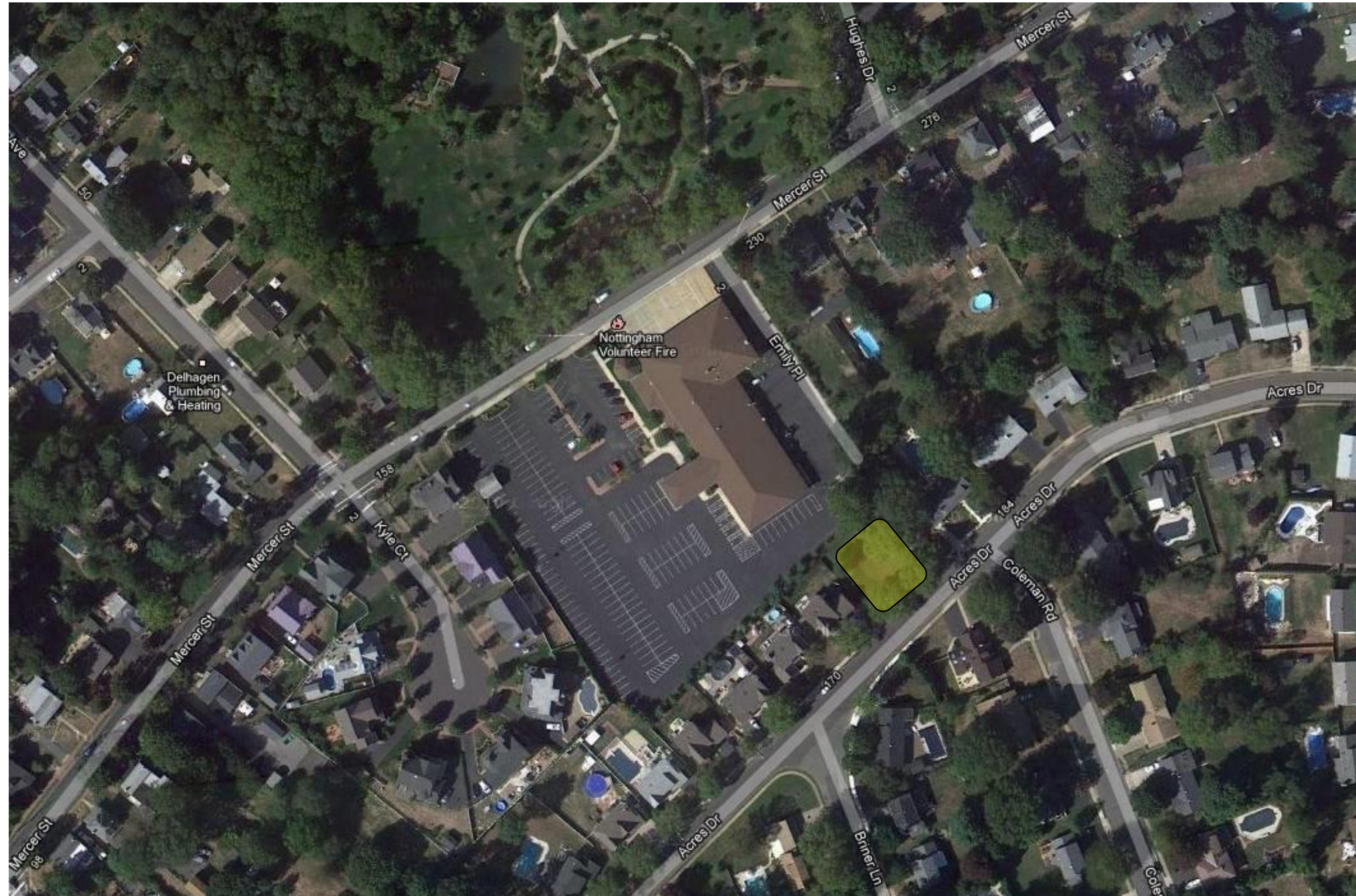
2019 Notes:

- Standing water present in the low flow channel, and large amounts of vegetation around basin
- Low flow channel could be removed to promote infiltration instead of the standing water that is present.

Hamilton Township
Stormwater Basin Assessment

32. Nottingham Volunteer Fire Co Basin

Address:
200 Mercer Street
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

32. Nottingham Volunteer Fire Co Basin

Address:
200 Mercer Street
Trenton, NJ 08690



Inlet clogged with sediment



Clogged outlet structure



Basin bottom looking southeast

2012 Notes:

- Excess sediment accumulation in inlet, outlet and low flow channel
- Litter and debris accumulation in basin bottom, inlet and outlet

Hamilton Township
Stormwater Basin Assessment

32. Nottingham Volunteer Fire Co Basin

Address:
200 Mercer Street
Trenton, NJ 08690

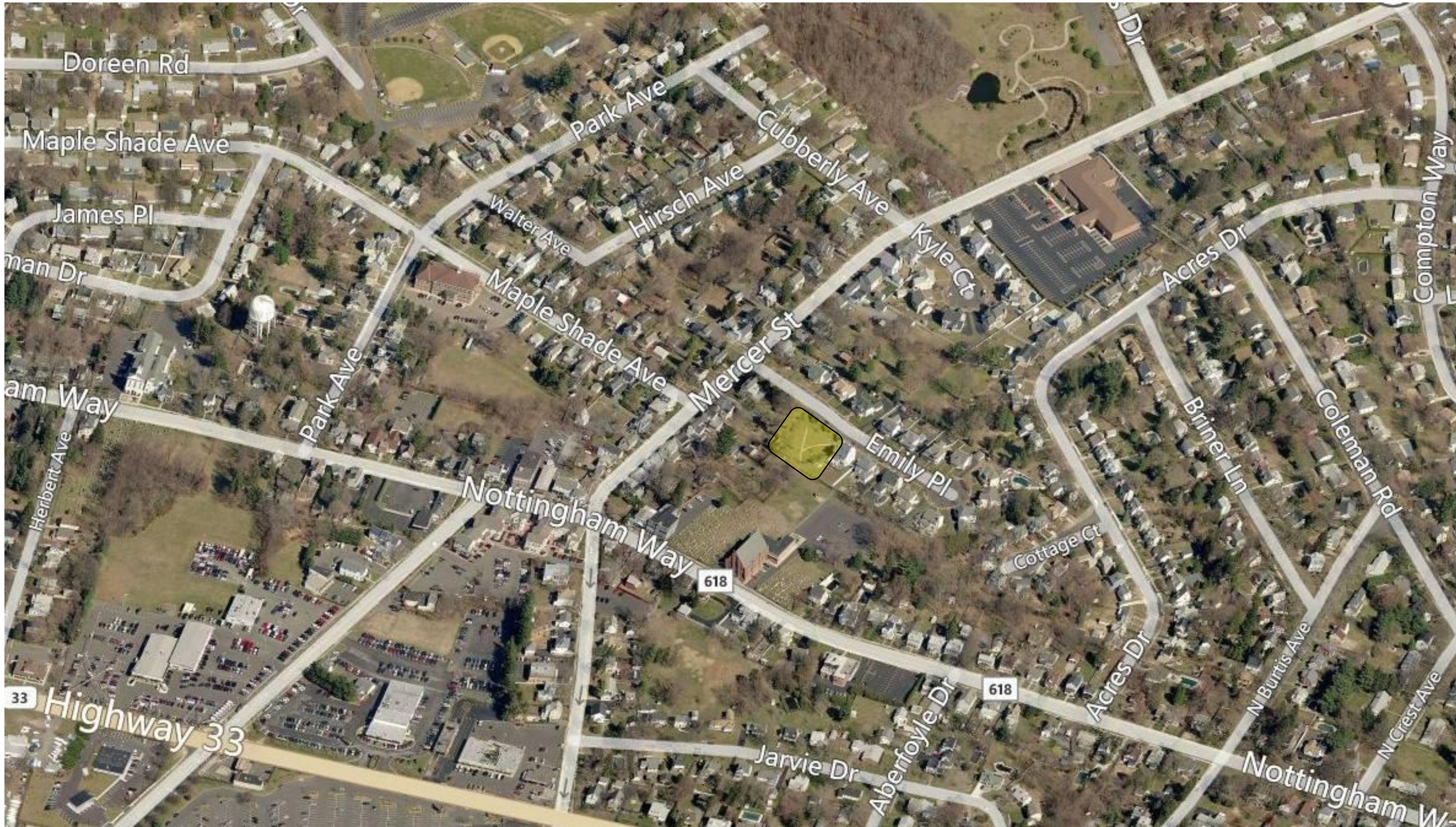


2019 Notes:

- Basin in overall good condition
- Some slight scouring along main flow channel
- Outlet clogged with leaves

Hamilton Township
Stormwater Basin Assessment
33. Emily Place Residential Basin

Address:
10 Emily Pl
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
33. Emily Place Residential Basin

Address:
10 Emily Pl
Hamilton Township, NJ 08690



Basin bottom looking southwest



Inlet



Woody vegetation growth around outlet

2012 Notes:

- Woody vegetation growth around outlet
- Large outlet diameter, no grates or screens

Hamilton Township
Stormwater Basin Assessment
33. Emily Place Residential Basin

Address:
10 Emily Pl
Hamilton Township, NJ 08690

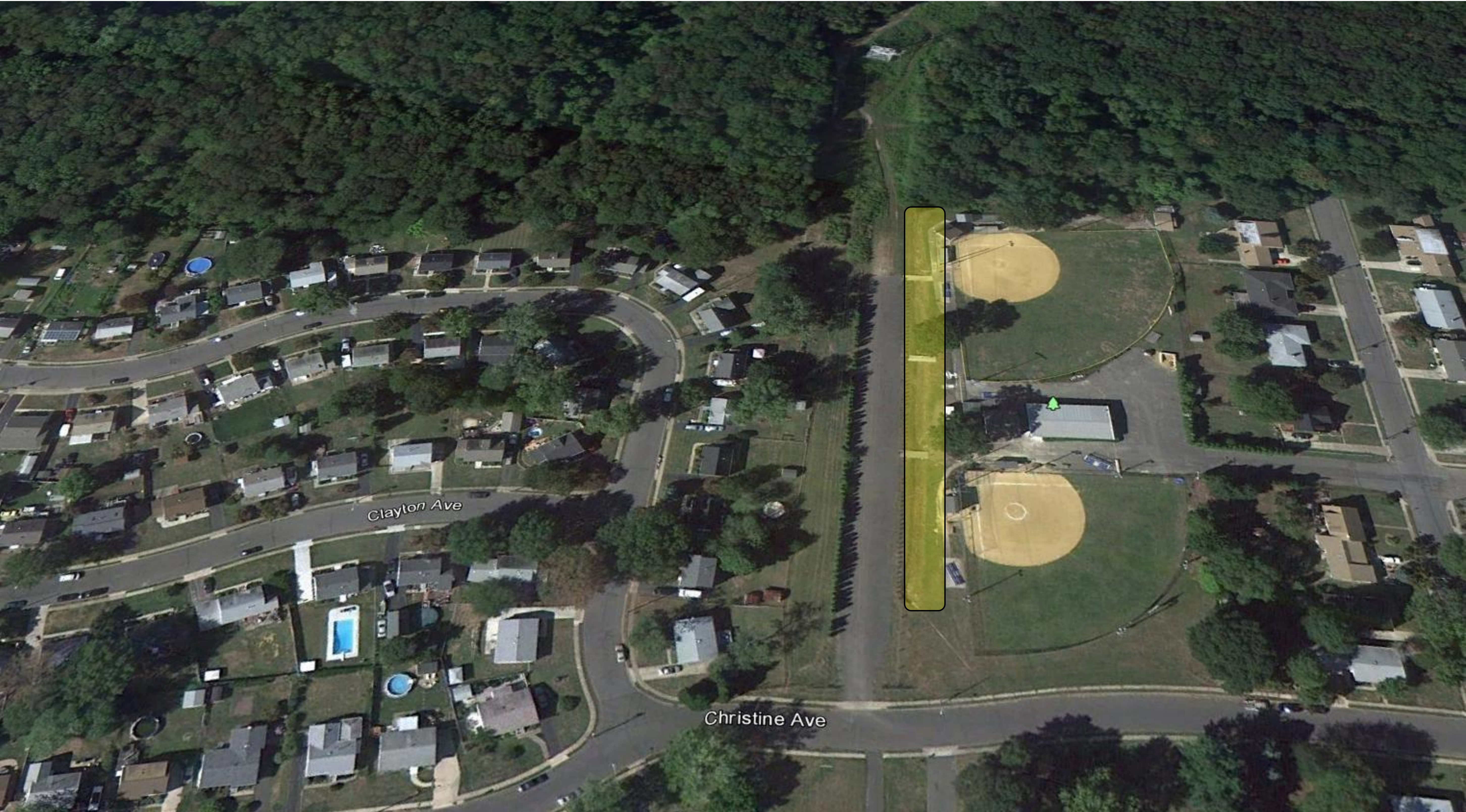


2019 Notes:

- Heavily maintained detention basin in good condition
- Mown with trees around perimeter
- Remove low flow channel to promote more infiltration

Hamilton Township
Stormwater Basin Assessment
39. George Dick Field Basin

Address:
112 Armour Avenue,
Hamilton Township NJ 08619



Hamilton Township
Stormwater Basin Assessment
39. George Dick Field Basin

Address:
112 Armour Avenue,
Hamilton Township NJ 08619



Inlet with sediment accumulation



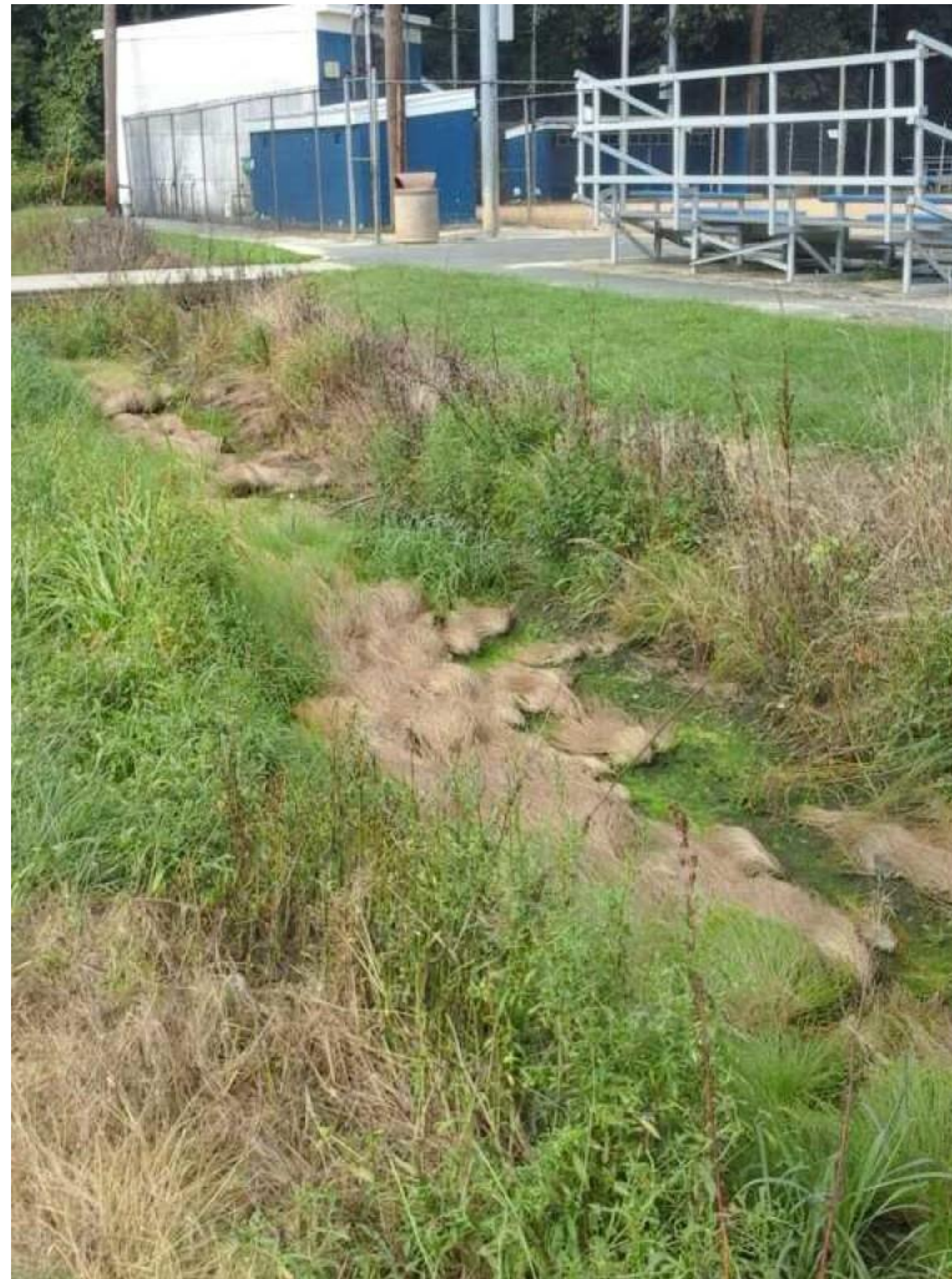
Basin bottom with erosion

2012 Notes:

- Excess sediment accumulation in inlet
- Exposed soil and erosion in basin bottom
- Discharges directly to Miry Run

Hamilton Township
Stormwater Basin Assessment
39. George Dick Field Basin

Address:
112 Armour Avenue,
Hamilton Township NJ 08619



2019 Notes:

- Appears to be a vegetated swale with check dams, not a true stormwater basin
- Bottom has some algae growth and lots of trash in it, appears to have high water flow with some erosion present
- Add stone to the bottom to help slow down the water and reduce erosion

Hamilton Township
Stormwater Basin Assessment
56. Colton Ct Residential Basin

Address:
Colton Court
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
56. Colton Ct Residential Basin

Address:
Colton Court
Hamilton Township, NJ 08619



Inlet



Clogged trash rack at outlet



Basin bottom looking southwest

2012 Notes:

- Standing water in low flow channel
- Outlet has structural damage and trash rack is clogged with sediment/debris

Hamilton Township
Stormwater Basin Assessment
56. Colton Ct Residential Basin

Address:
Colton Court
Hamilton Township, NJ 08619

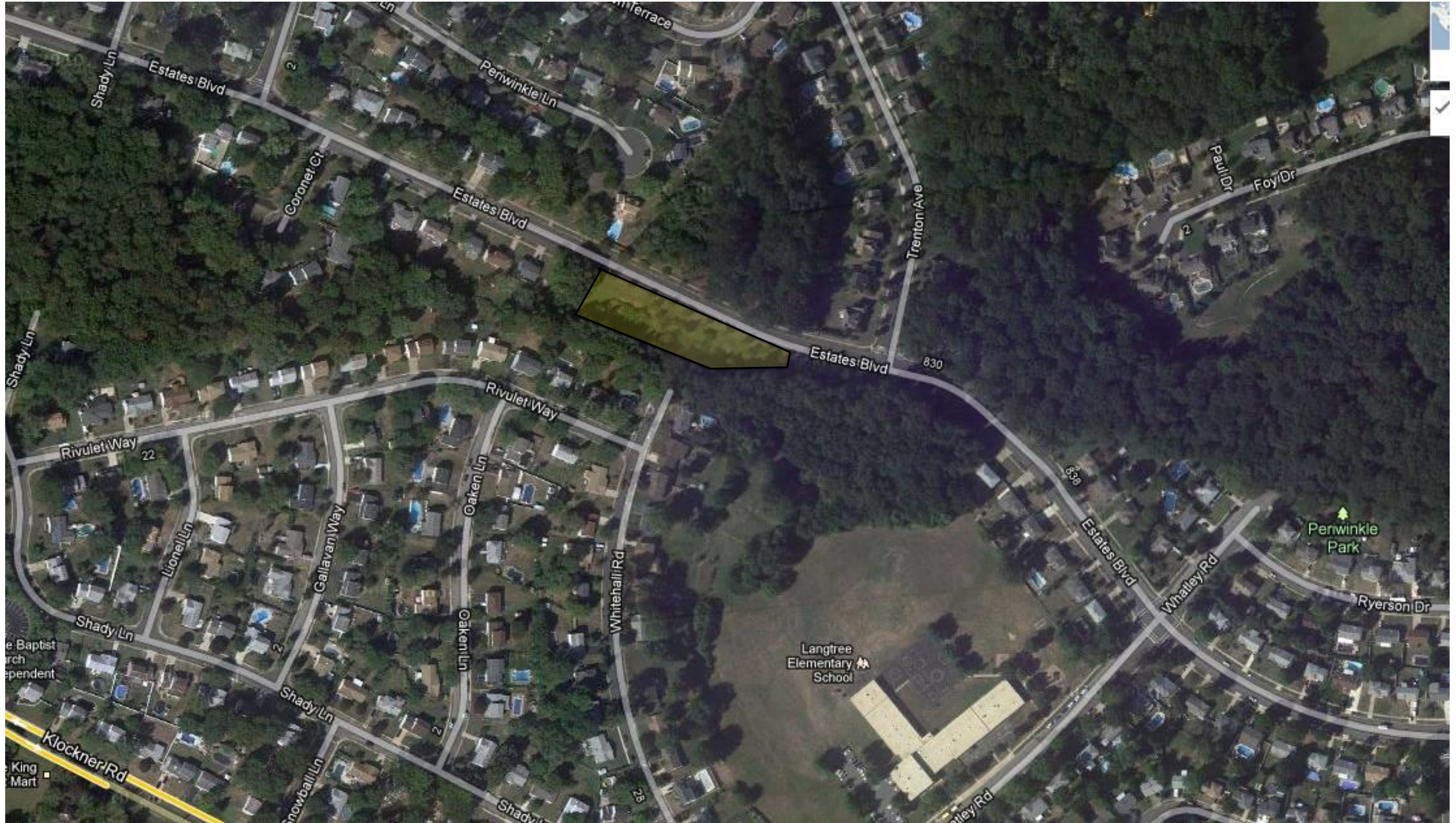


2019 Notes:

- Low flow channel blocked by organic debris and sediment
- Remove sediment and clearing of obstructions to outflow
- Opportunity to remove concrete channels and add rock flow channels with vegetation

Hamilton Township
Stormwater Basin Assessment
87. Roadside Residential Basin

Address:
Estates Blvd and Trenton Ave
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
87. Roadside Residential Basin

Address:
Estates Blvd and Trenton Ave
Hamilton Township, NJ 08619



Basin bottom looking west



Basin bottom looking north



Outlet Structure

2012 Notes:

- Woody vegetation growth around inlet and outlet structures

Hamilton Township
Stormwater Basin Assessment
87. Roadside Residential Basin

Address:
Estates Blvd and Trenton Ave
Hamilton Township, NJ 08619



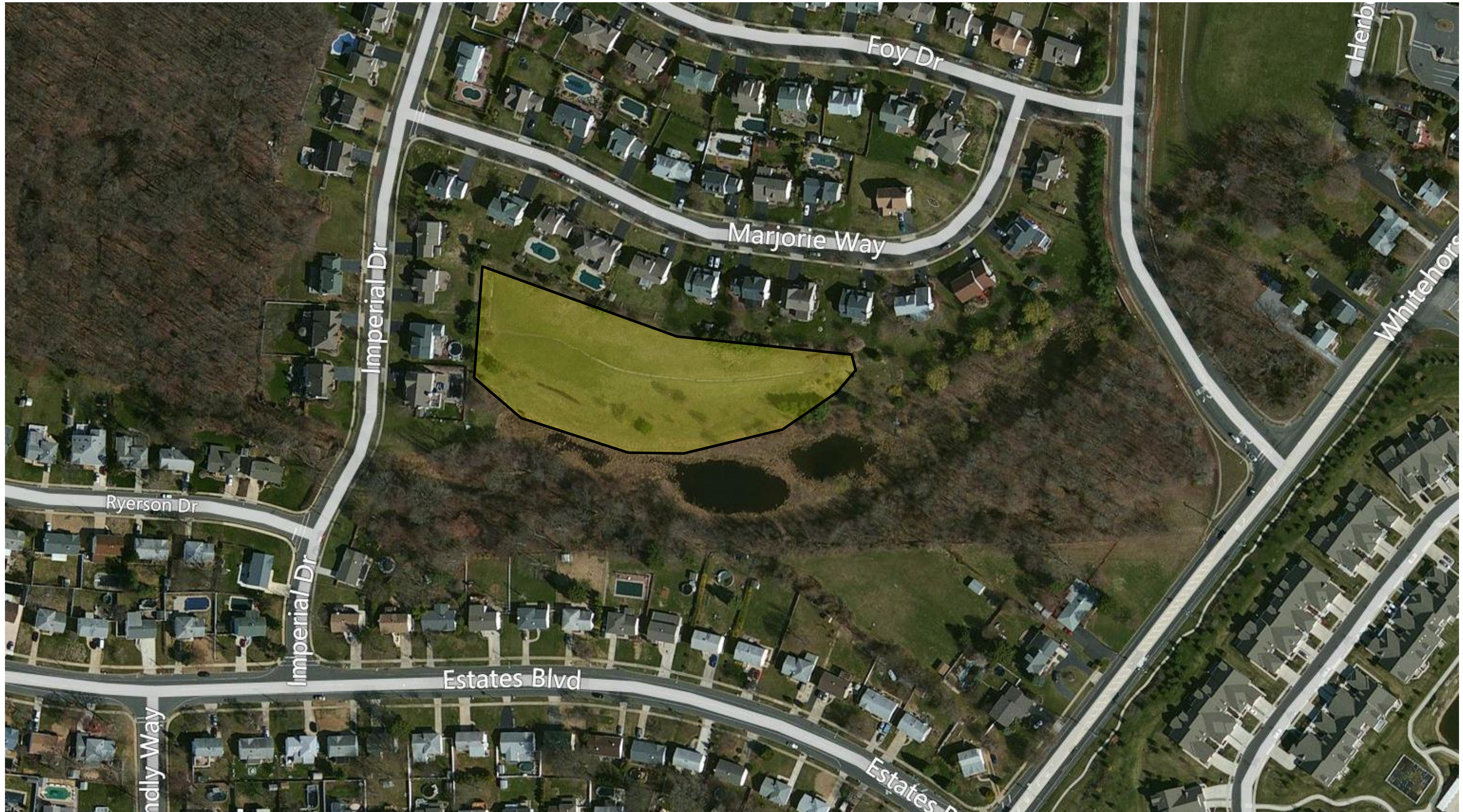
2019 Notes:

- Basin in good condition overall with two inlets
- Clean out inlets as they have accumulated sediment and restrict inflow

Hamilton Township
Stormwater Basin Assessment

120. Imperial Drive Residential Detention Basin

Address:
12 Imperial Dr
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

120. Imperial Drive Residential Detention Basin

Address:
12 Imperial Dr
Trenton, NJ 08690



Overgrown inlet



Inlet structure and overgrown rip-rap apron



Basin bottom looking west



Overgrown outlet structure

2013 Notes:

- Two of the three inlet structures are overgrown and inaccessible
- The most northwestern inlet is filled with sediment and the rip rap apron has spilled into the low flow channel
- The outlet is overgrown with woody growth and the trash rack is clogged with sediment and debris

Hamilton Township
Stormwater Basin Assessment

120. Imperial Drive Residential Detention Basin

Address:
12 Imperial Dr
Trenton, NJ 08690



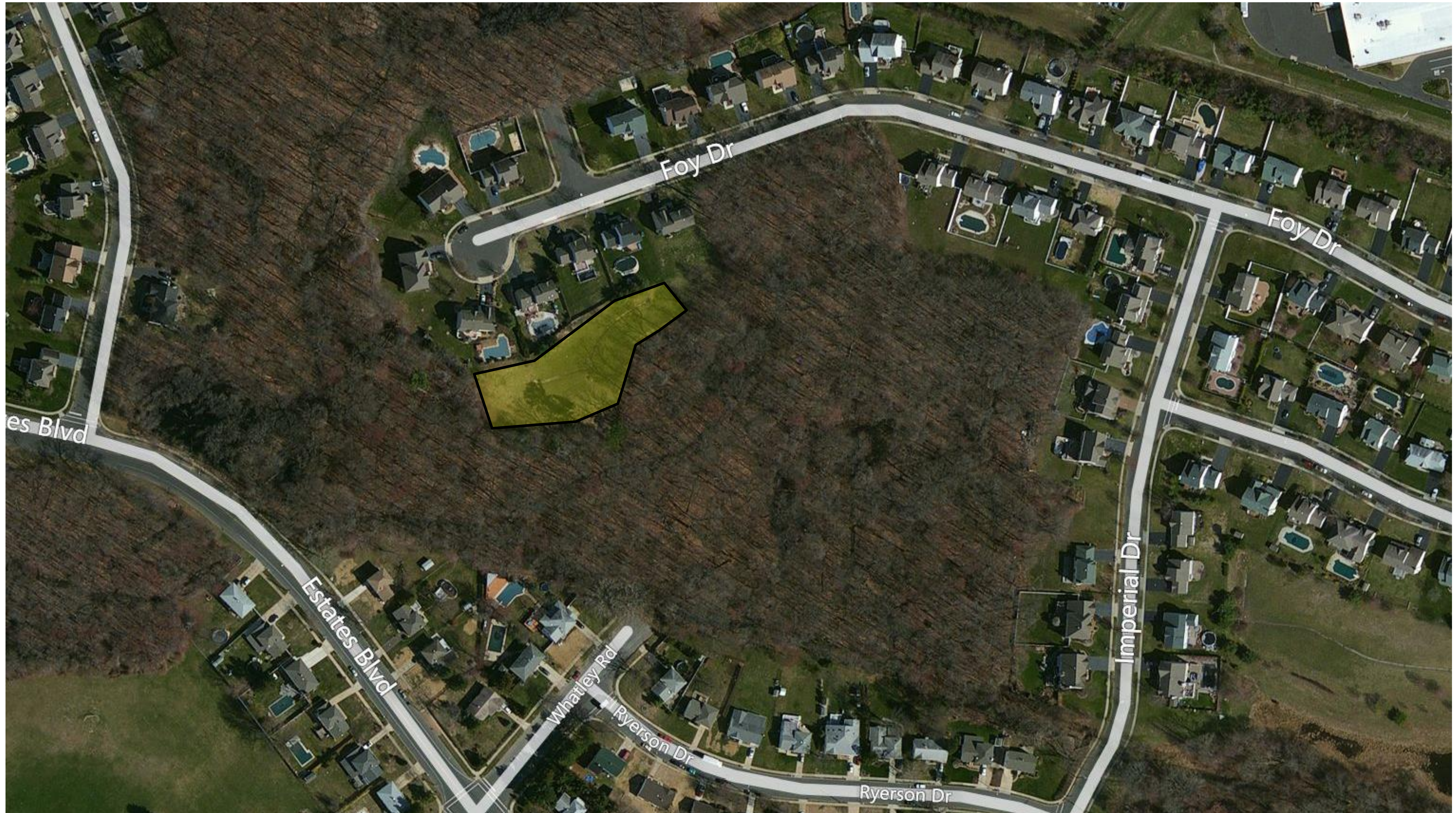
2019 Notes:

- Basin in overall good condition, much improved from previous assessment with all inlet and outlets cleared
- Significant leaf litter clogging outlet structure
- Low flow channels could be removed to promote more infiltration throughout the basin

Hamilton Township
Stormwater Basin Assessment

121. Foy Drive Residential Detention Basin

Address:
1 Foy Dr
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

121. Foy Drive Residential Detention Basin

Address:
1 Foy Dr
Trenton, NJ 08690



Outlet Structure



Overgrown inlet structure



Basin discharge area



Basin looking southwest

2013 Notes:

- There is excess sediment accumulated in the low flow channel that is restricting the flow of water
- The western inlet has excess plant growth throughout its rip rap apron
- The outlet has minimal sediment accumulated in front of it
- The basin discharge area has excessive plant growth

Hamilton Township
Stormwater Basin Assessment

121. Foy Drive Residential Detention Basin

Address:
1 Foy Dr
Trenton, NJ 08690



2019 Notes:

- Built up sediment in channel is leading to some standing water
- Clean out channel and potentially replace concrete channel with stone channel

Hamilton Township
Stormwater Basin Assessment

128. Hamilton Twp Library Detention Basin

Address:
19 Justice Samuel A. Alito Jr. Way
Trenton, NJ 08619



Hamilton Township Stormwater Basin Assessment

128. Hamilton Twp Library Detention Basin

Address:
19 Justice Samuel A. Alito Jr. Way
Trenton, NJ 08619



Concrete deterioration on southern inlet



Concrete deterioration on northern inlet



Basin bottom looking west

2013 Notes:

- There is excessive ponding in the basin bottom, ponding reaches depths of about three feet
- Outlet is overgrown by brush, it is located in the northern corner. The outlet is clogged with sediment, causing the ponding in the basin
- There is concrete deterioration on both inlets

Hamilton Township
Stormwater Basin Assessment

128. Hamilton Twp Library Detention Basin

Address:
19 Justice Samuel A. Alito Jr. Way
Trenton, NJ 08619



2019 NOTES:

- Low flow channel from two inlets flow into a vegetated swale to the outlet
- Standing water issues observed in previous assessment were not identified
- Basin can be naturalized with herbaceous plants

Hamilton Township
Stormwater Basin Assessment

137. Noa Court Residential Detention Basin

Address:
76 Noa Ct
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment
137. Noa Court Residential Detention Basin

Address:
76 Noa Ct
Trenton, NJ 08690



Basin bottom looking northeast



Litter and debris accumulated inside outlet



Outlet structure

2013 Notes:

- There is excess sediment accumulated in front of the outlet
- There are some bare areas around low flow channel
- Litter and debris area accumulated inside of the outlet structure, implementing a trash rack over the weir would help prevent this

Hamilton Township
Stormwater Basin Assessment
137. Noa Court Residential Detention Basin

Address:
76 Noa Ct
Trenton, NJ 08690



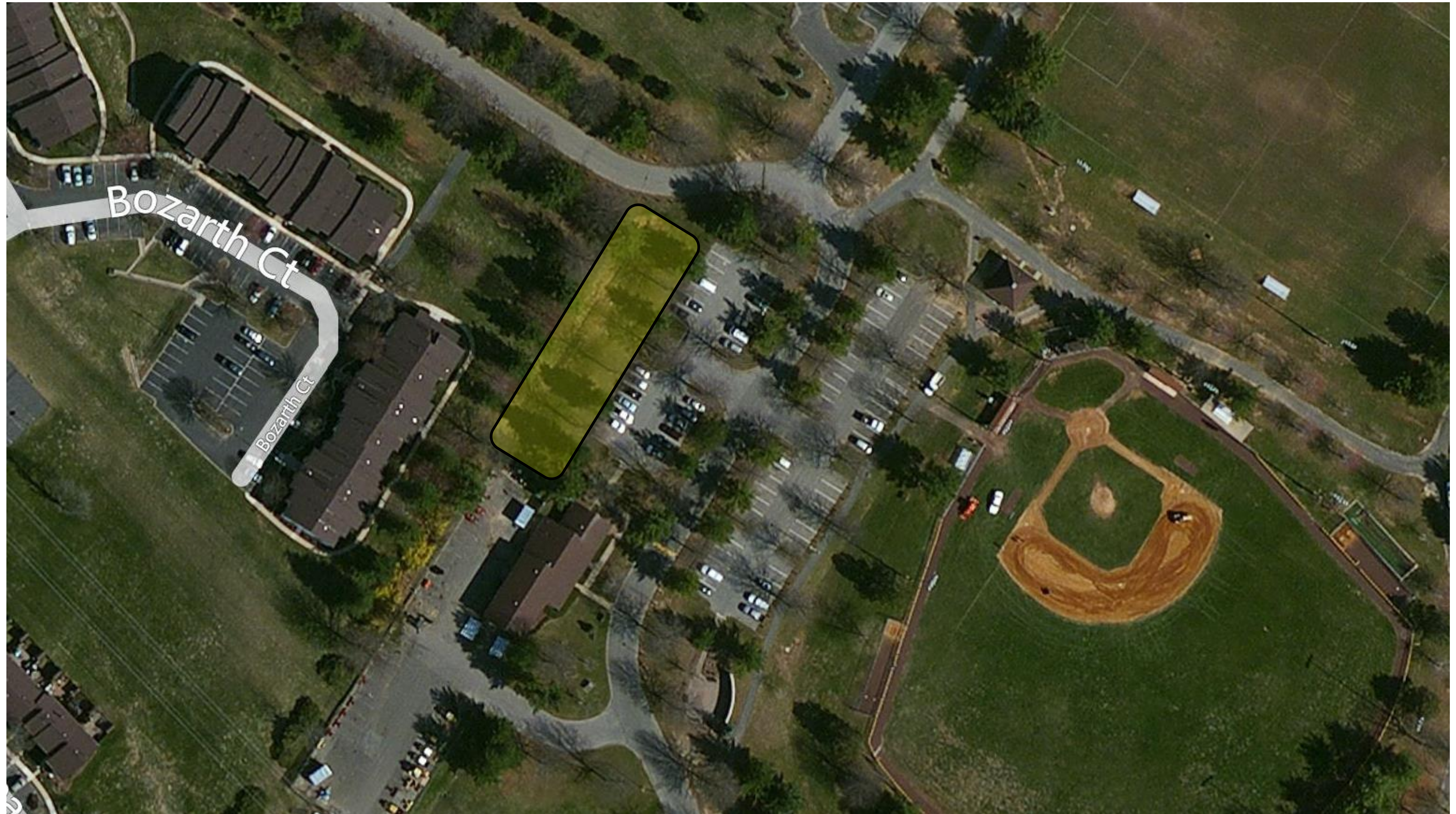
2019 Notes:

- Excessive sediment build up in front of outlet structure, grass growing over low flow channel
- Excess sediment and litter should be removed
- Opportunity to replace low flow channel with a stone channel to promote infiltration

Hamilton Township
Stormwater Basin Assessment

158. Hamilton Veterans Park Detention Basin (a)

Address:
Bozarth Ct
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

158. Hamilton Veterans Park Detention Basin (a)

Address:
Bozarth Ct
Trenton, NJ 08690



Northeastern inlet structure



Southern inlet structure filled with sediment



Outlet structure and gully



Basin bottom looking southwest

2013 Notes:

- The southern inlet is about halfway filled with sediment
- The northeastern inlet is in need of replacement
- The basin bottom has many gullies throughout and excess sediment accumulation
- There is standing water and erosion in front of the outlet

Hamilton Township
Stormwater Basin Assessment

158. Hamilton Veterans Park Detention Basin (a)

Address:
Bozarth Ct
Trenton, NJ 08690



2019 Notes:

- Area appears to be more of a swale than a basin
- Severe erosion issue near inlet that needs to be remediated
- Naturalize base with herbaceous plants

Hamilton Township
Stormwater Basin Assessment

159 & 160. Hamilton Veterans Park Detention Basins (b & c)

Address:
224 Kruser Rd
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

159 & 160. Hamilton Veterans Park Detention Basins (b & c)

Address:
224 Kruser Rd
Trenton, NJ 08690



Basin #159 bottom looking west



Basin #159 inlet structure



Basin #160 bottom looking north



Basin #160 outlet structure

2013 Notes:

- Basin #159 collects runoff from adjacent fields then discharges to basin #160 where it spreads out over a grassed area
- The inlet and outlet structures in both basins are clogged with sediment
- Basin #160 has ponding in the basin bottom

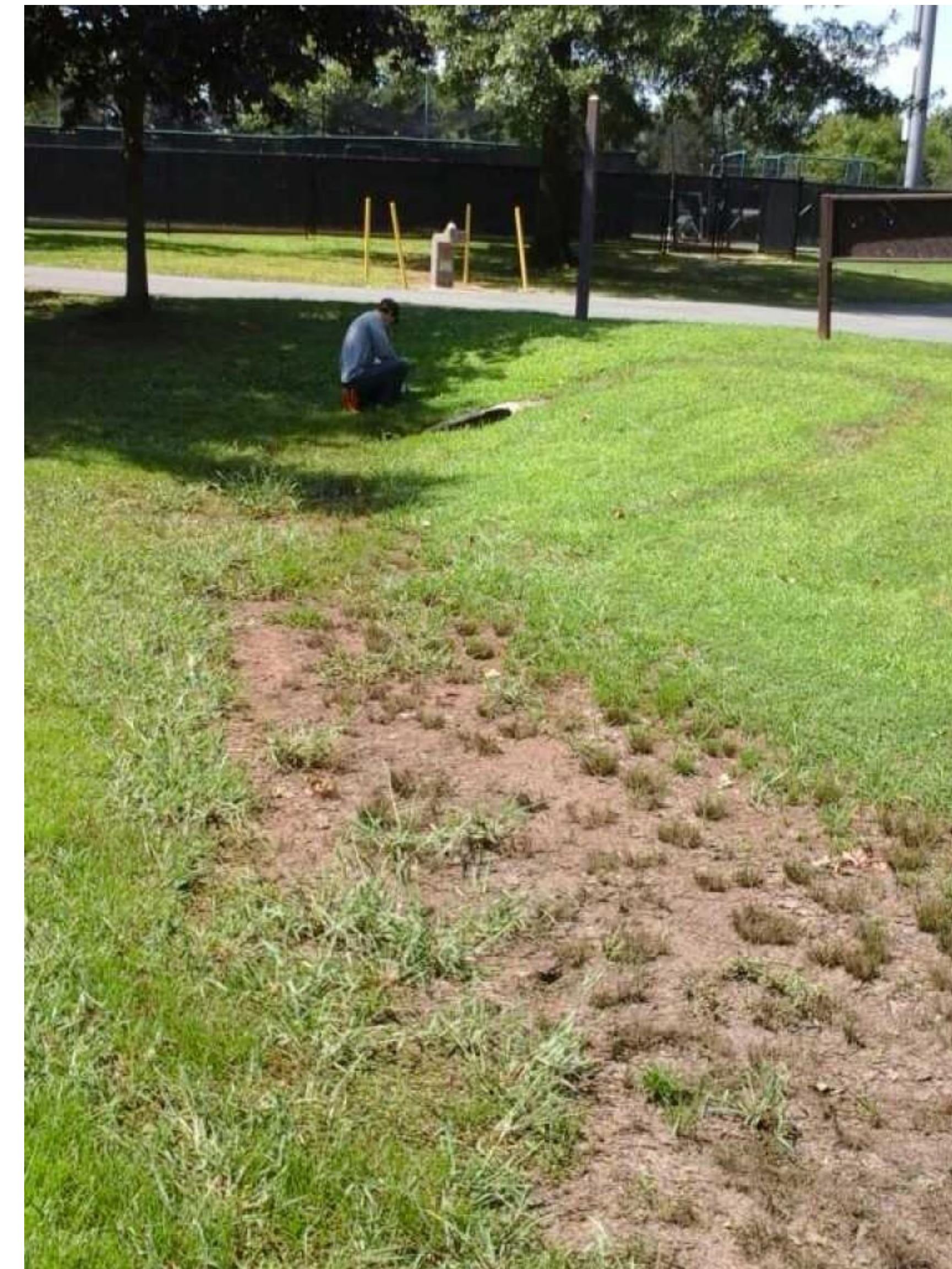
Hamilton Township Stormwater Basin Assessment

159 & 160. Hamilton Veterans Park Detention Basins (b & c)

Address:
224 Kruser Rd
Trenton, NJ 08690



Basin #159



Basin #160

2019 Notes:

- Areas appear to be more of a swale than a basin
- Exposed dirt next to soccer field and in swale bottom, plant areas with herbaceous plants to prevent erosion.

Hamilton Township
Stormwater Basin Assessment

161. Hamilton Veterans Park Detention Basin (d)

Address:
224 Kruser Rd
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

161. Hamilton Veterans Park Detention Basin (d)

Address:
224 Kruser Rd
Trenton, NJ 08690



Northeastern inlet



Northwestern inlet



Outlet structure



Swale that conveys two inlets to basin

2013 Notes:

- There is a swale that collects runoff from the nearby parking lots which conveys the water into the basin
- The basin has 5 total inlets
- The northeastern inlet is in need of replacement
- The northwestern inlet is clogged with sediment that is restricting the flow of water
- The outlet has a large low flow orifice that could use a restrictor plate
- The basin bottom has areas of gullying and tread marks

Hamilton Township
Stormwater Basin Assessment

161. Hamilton Veterans Park Detention Basin (d)

Address:
224 Kruser Rd
Trenton, NJ 08690



2019 Notes:

- Basin overall in good condition
- Inlets have signs of erosion, implement rip rap aprons to prevent erosion
- Natural basin with herbaceous plants

Hamilton Township
Stormwater Basin Assessment

163. Hamilton Green Limewood Detention Basin

Address:
Mint Leaf Dr and Limewood Dr
Trenton, NJ 08690



***Likely not stormwater basin, just catch basin**

Hamilton Township
Stormwater Basin Assessment

163. Hamilton Green Limewood Detention Basin

Address:
Mint Leaf Dr and Limewood Dr
Trenton, NJ 08690



2019 Notes:

- Note assessed in 2013 due to inaccessibility
- Appears to just be a catch basin in a forested area

Hamilton Township
Stormwater Basin Assessment

164. Great Oak Road Residential Detention Basin

Address:
Great Oak Rd and Dukoff Dr
Trenton, NJ 08690



Hamilton Township Stormwater Basin Assessment

164. Great Oak Road Residential Detention Basin

Address:
Great Oak Rd and Dukoff Dr
Trenton, NJ 08690



Basin bottom looking east



Excessive sediment in front of inlet



Secondary emergency overflow



Outlet structure

2013 Notes:

- Low flow channels in basin are clogged with accumulated sediment; there is ponding in the channels that appears very stagnant
- It appears that sediment was removed from the low flow channel, but left in the basin. The sediment needs to be hauled away.
- The inlet structures all have excessive sediment accumulated in front of them
- The southwestern inlet has some concrete deterioration and should be replaced
- The outlet structure is missing a trash rack and has some cracks in parging

Hamilton Township
Stormwater Basin Assessment

164. Great Oak Road Residential Detention Basin

Address:
Great Oak Rd and Dukoff Dr
Trenton, NJ 08690



2019 Notes:

- Large Infiltration basin with sediment filled low flow channels
- Vegetated with grasses and trees
- Clean out low flow channels and maintain areas with over grown vegetation
- Opportunity to remove low flow channels and replace with stone channels to allow infiltration

Hamilton Township
Stormwater Basin Assessment

166 & 167. Innocenzi Drive Residential Detention Basins

Address:
Innocenzi Dr and Great Oak Rd
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

167. Innocenzi Drive Residential Detention Basin (b)

Address:
Innocenzi Dr and Great Oak Rd
Trenton, NJ 08690



Basin bottom looking northwest



Overgrown eastern inlet



Overgrown western inlet



Outlet structure

2013 Notes:

- There is excess sediment accumulated and standing water in the low flow channel
- The eastern and western inlets both have excess sediment accumulation and are overgrown with various types of vegetation
- The outlet structure has cracks in parging, the trash rack is broken, and the water is not discharging from the outlet causing the entire basin to back up

Hamilton Township
Stormwater Basin Assessment

167. Innocenzi Drive Residential Detention Basin (b)

Address:
Innocenzi Dr and Great Oak Rd
Trenton, NJ 08690

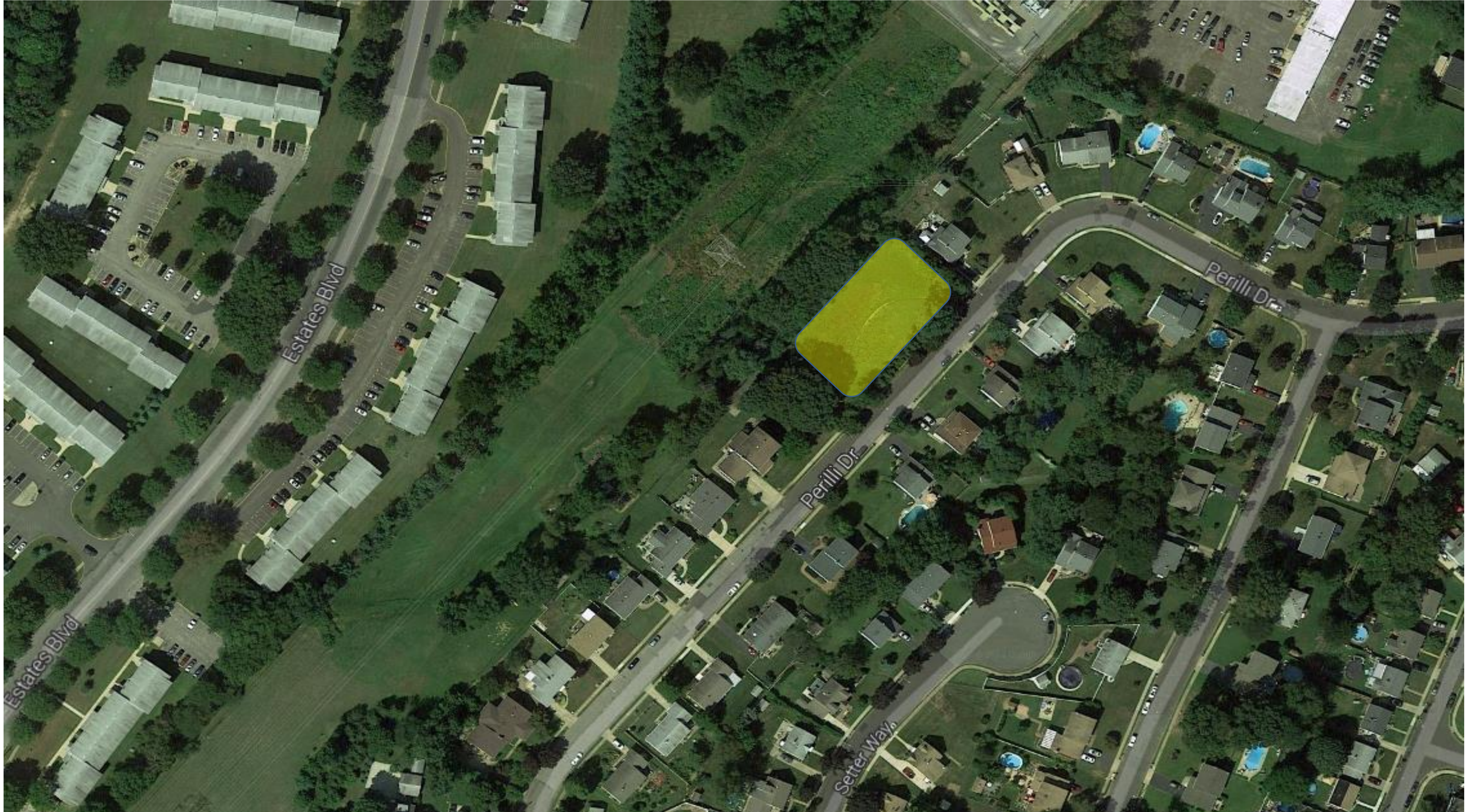


2019 Notes:

- Significant standing water in low flow channel and near outlet likely due to clogged low flow orifice
- Clear out outlet to allow basin to drain properly
- Low flow channel can be removed and replaced with a stone channel to allow more infiltration in smaller storm events

Hamilton Township
Stormwater Basin Assessment
180. Residential Detention Basin

Address:
20 Perilli Drive
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
180. Residential Detention Basin

Address:
20 Perilli Drive
Hamilton Township, NJ 08610



Outlet



Low flow channel near outlet



Inlet

2014 Notes:

- Standing water and sediment in basin bottom and low flow channel
- Basin appears to be treated as infiltration basin
- Naturalized basin bottom

Hamilton Township
Stormwater Basin Assessment
180. Residential Detention Basin

Address:
20 Perilli Drive
Hamilton Township, NJ 08610



2019 Notes:

- A lot of sediment buildup in basin
- Clear out sediment in low flow channel to be sure basin is working as designed. Appears low flow orifice is completely clogged
- Allow basin to continue to naturalize, but plant or seed with native herbaceous species

Hamilton Township
Stormwater Basin Assessment

188. Sharps Lane Residential Basin

Address:
255 Sharps Ln
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

188. Sharps Lane Residential Basin

Address:
255 Sharps Ln
Hamilton Township, NJ 08610



Inside of outlet



Outlet



Overgrown on low flow channel

2014 Notes:

- Sediment surrounding outlet
- Slight overgrown vegetation in low flow channel
- Litter inside of outlet structure
- Emergency spillway leads to swale north of basin

Hamilton Township
Stormwater Basin Assessment
188. Sharps Lane Residential Basin

Address:
255 Sharps Ln
Hamilton Township, NJ 08610



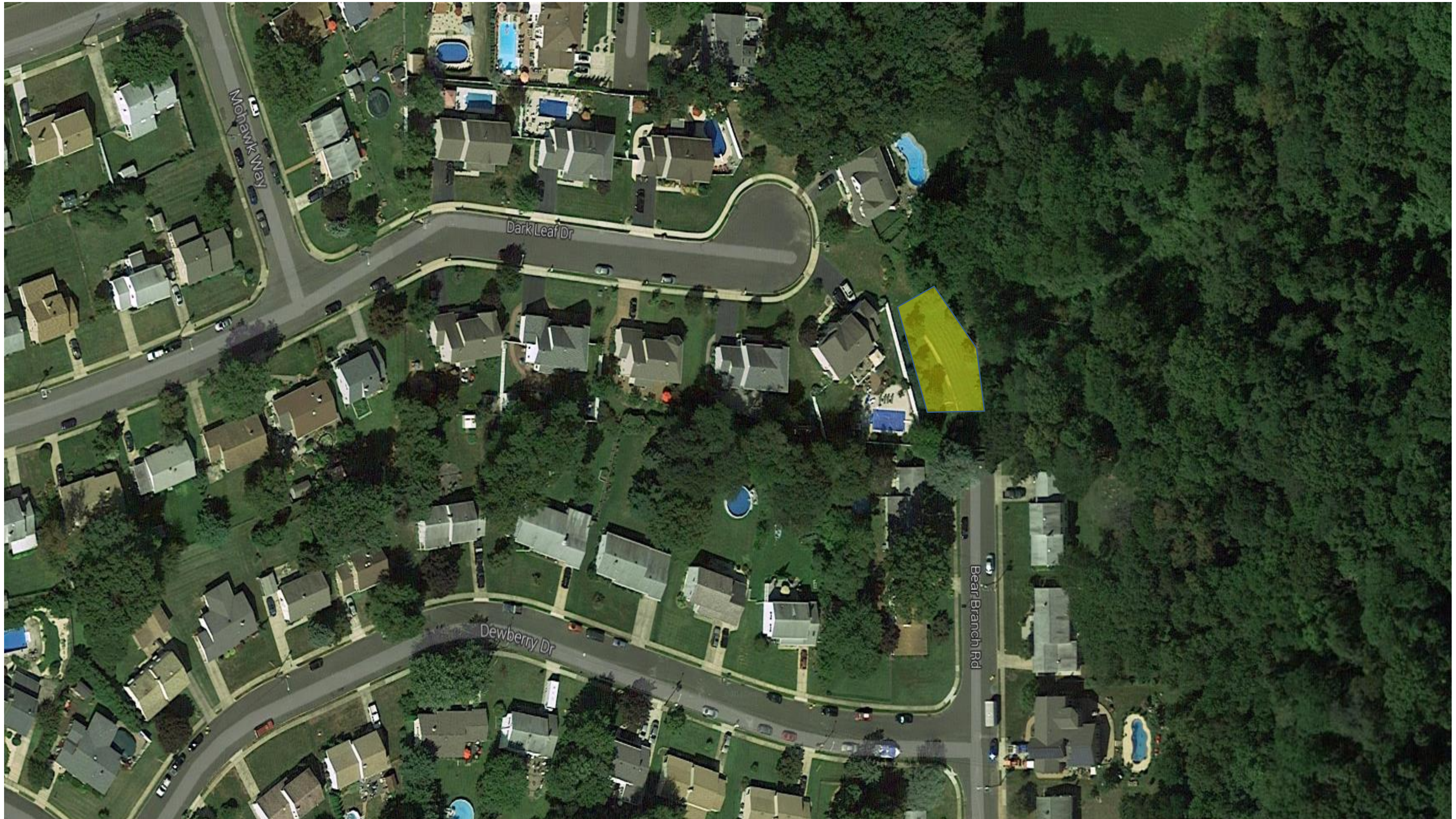
2019 Notes:

- Trees existing in basin, some standing water present, fallen tree
- Replace low flow channel with stone channel to reduce standing water and allow infiltration
- Naturalize with herbaceous plants

Hamilton Township
Stormwater Basin Assessment

190. Dark Leaf Drive Residential Basin

Address:
41 Dark Leaf Dr
Hamilton Township, NJ 08610



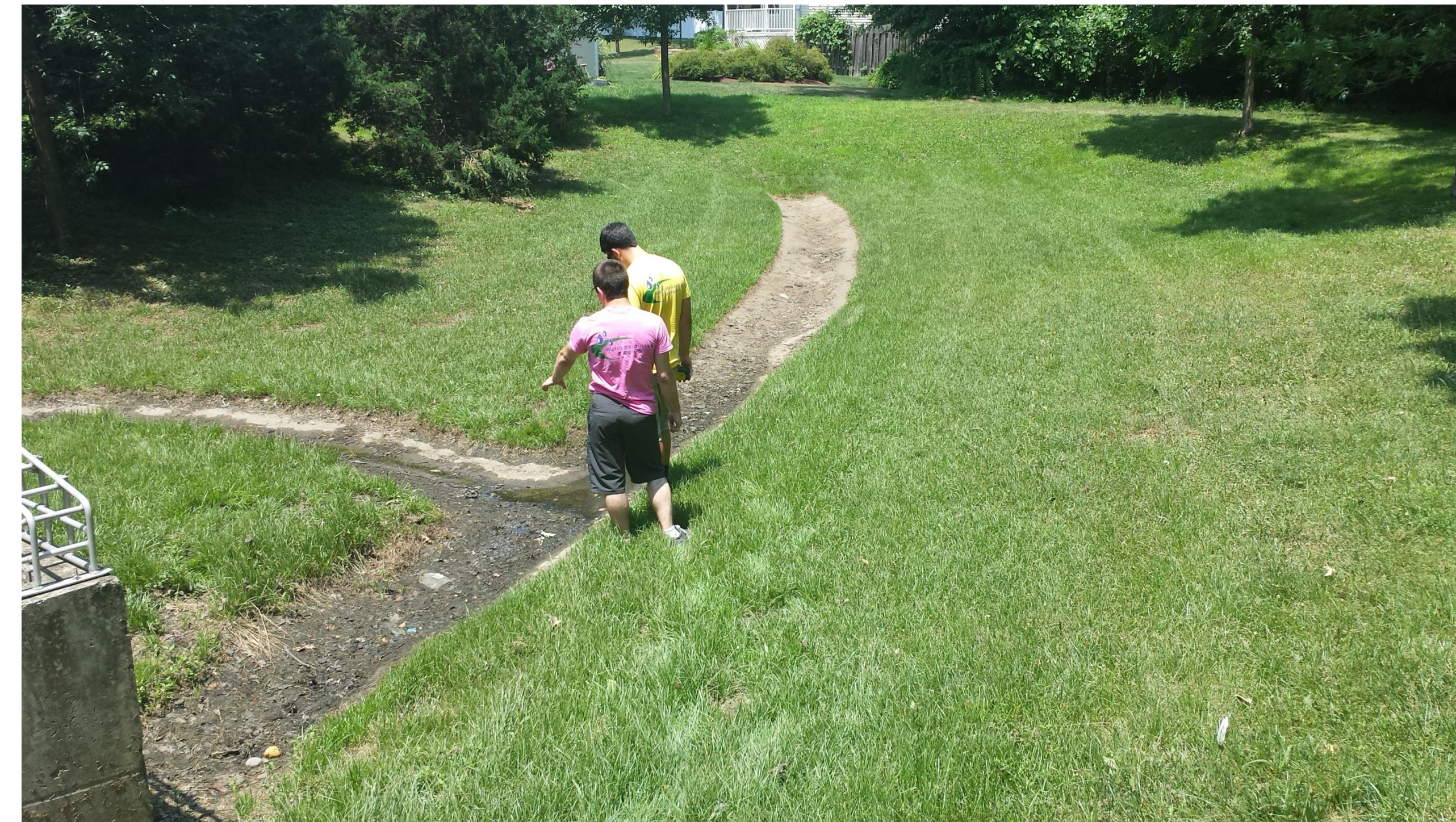
Hamilton Township
Stormwater Basin Assessment
190. Dark Leaf Drive Residential Basin



Address:
41 Dark Leaf Dr
Hamilton Township, NJ 08610



Inlet



Sediment in low flow channel



Mosquito larvae in low flow channel

2014 Notes:

- Inlet has standing water
- Low flow channel has standing water and sediment accumulated
- Mosquito breeding in low flow channel
- Emergency spillway directed west, behind houses

Hamilton Township
Stormwater Basin Assessment
190. Dark Leaf Drive Residential Basin

Address:
41 Dark Leaf Dr
Hamilton Township, NJ 08610



2019 Notes:

- Erosion present in basin
- Slight standing water in low flow channels
- Remove low flow channel to allow more infiltration
- Naturalize with herbaceous plants to help reduce erosion

Hamilton Township
Stormwater Basin Assessment

191 & 192. Veterans Park Detention Basins

Address:
2193 Kuser Rd
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
191 & 192. Veterans Park Detention Basins

Address:
2193 Kuser Rd
Hamilton Township, NJ 08690



Inlet



Swale feature leading to basin



Garden at end of swail

2014 Notes:

- Inlet has grass and plants restricting water flow
- Water flows to a maintained garden
- Minimal erosion caused by running water
- No outlets apparent
- Emergency spillway leads to depressed area near basin center
- Swale receives water from northern parking lot

Hamilton Township
Stormwater Basin Assessment
191 & 192. Veterans Park Detention Basins

Address:
2193 Kuser Rd
Hamilton Township, NJ 08690



Basin #191



Basin #192

2019 Notes:

- Basin #191 appears to be more of a swale leading to Basin #192
- Swale can be retrofitted into a bioswale with herbaceous plants
- Woody trees and plants contained to the center of the basin, install supplemental meadow to reduce lawn area and open path to access outlet structure

Hamilton Township
Stormwater Basin Assessment

233 & 234. Alessio Terrace Residential Basins

Address:
17 Alessio Terrace
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
233 & 234. Alessio Terrace Residential Basins

Address:
17 Alessio Terrace
Hamilton Township, NJ 08620



Basin overview



Low flow channel



Erosion near outlet structure

2014 Notes:

- Sediment and grass invading low flow channel near outlet
- Erosion near outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
233 & 234. Alessio Terrace Residential Basins

Address:
17 Alessio Terrace
Hamilton Township, NJ 08620



Basin #233



Basin #234

2019 Notes:

- Basin #233 low flow channel has some grass clippings and some standing water
- Retrofit plants for infiltration
- Tall grass, located in between houses
- Both basins can have stone channels implemented in place of low flow channels, and herbaceous plant can be used to naturalize the basins

Hamilton Township
Stormwater Basin Assessment

236 & 237. Village Drive Residential Basins

Address:
79 Village Drive East
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
236 & 237. Village Drive Residential Basins

Address:
79 Village Drive East
Hamilton Township, NJ 08620



Basin overview



Inlet



Outlet

2014 Notes:

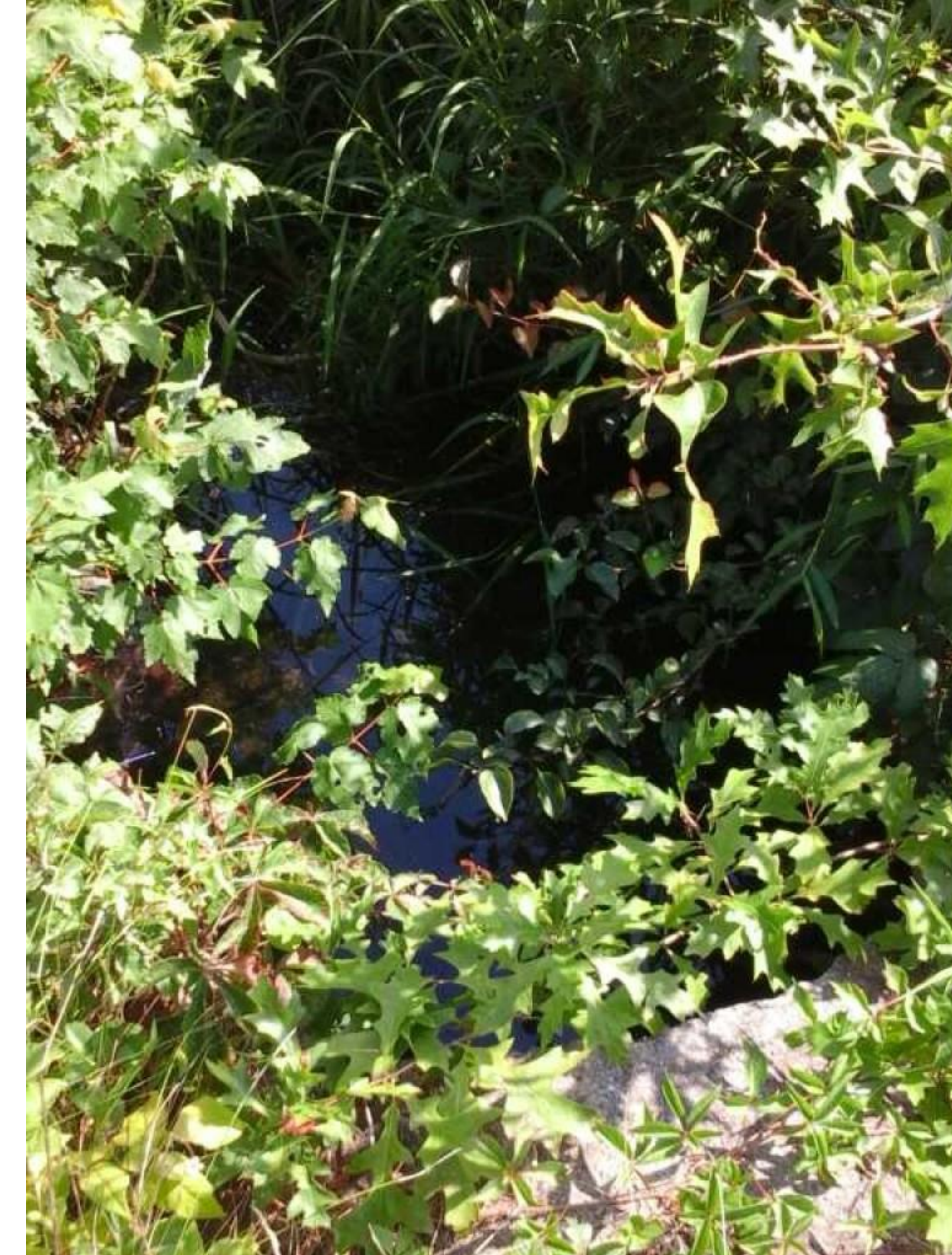
- Significant vegetative growth near outlet structure
- Invasive turf grass and sediment throughout low flow channel

Hamilton Township
Stormwater Basin Assessment
236 & 237. Village Drive Residential Basins

Address:
79 Village Drive East
Hamilton Township, NJ 08620



Basin #236



Basin #237

2019 Notes:

- Both basin suffer from similar problems with Basin #236 being worse
- Water flowing through has a red is color, channel is overgrown, due to overgrowth and excess sediment, the outlet is blocked and water is backing up
- Replace channel with rocks, clear out unwanted vegetation, clean outlet and excess sediment
- Replace low flow channel with rock channel

Hamilton Township
Stormwater Basin Assessment
238. Weathersfield Drive Residential Basin

Address:
9 Weathersfield Dr
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
238. Weathersfield Drive Residential Basin

Address:
9 Weathersfield Dr
Hamilton Township, NJ 08620



2019 Notes:

- 2014 report did not include notes for this basin as retention basins were not being fully assessed at the time
- Massive retention basin surrounded by thick vegetation
- Appears in good condition, no recommendation

Hamilton Township
Stormwater Basin Assessment
264. Perilli Drive Residential Basin

Address:
39 Perilli Dr
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
264. Perilli Drive Residential Basin

Address:
39 Perilli Dr
Hamilton Township, NJ 08610



Basin overview



Outlet



Inlet

2014 Notes:

- Excess sediment and debris accumulated in low flow channel near outlet
- Outlet structure is overgrown with turf grass
- Invasive weeds growing in low flow channel

Hamilton Township
Stormwater Basin Assessment
264. Perilli Drive Residential Basin

Address:
39 Perilli Dr
Hamilton Township, NJ 08610

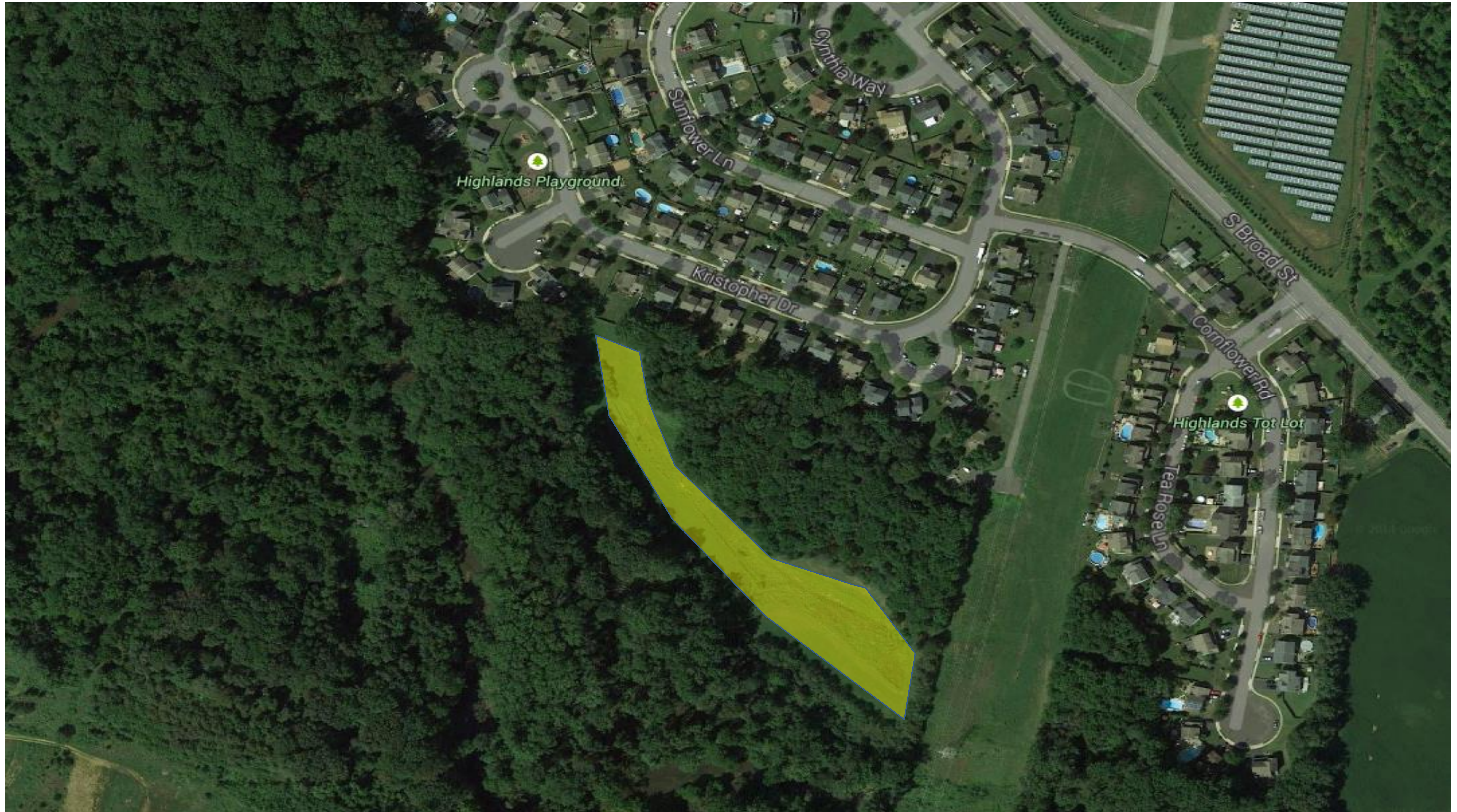


2019 Notes:

- Outlet has excessive sediment accumulation clogging low flow orifice
- Remove low flow channel and replace with a rock-lined channel to allow infiltration
- Naturalize with herbaceous plants

Hamilton Township
Stormwater Basin Assessment
269. Kristopher Drive Residential Basin

Address:
56 Kristopher Dr
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
269. Kristopher Drive Residential Basin

Address:
56 Kristopher Dr
Hamilton Township, NJ 08620



Overview of basin



Inlet

2014 Notes:

- Outlet structure exists but there is no access to it
- Woody vegetation growing near inlet
- Excess sediment has accumulated near inlets and outlet structure
- Algae growth in basin

Hamilton Township
Stormwater Basin Assessment
269. Kristopher Drive Residential Basin

Address:
56 Kristopher Dr
Hamilton Township, NJ 08620



2019 Notes:

- Well establish meadow in basin with vegetation in good condition
- Better access to inlets and outlet could be added

Hamilton Township
Stormwater Basin Assessment

275. Iron Bridge Road Residential Basin

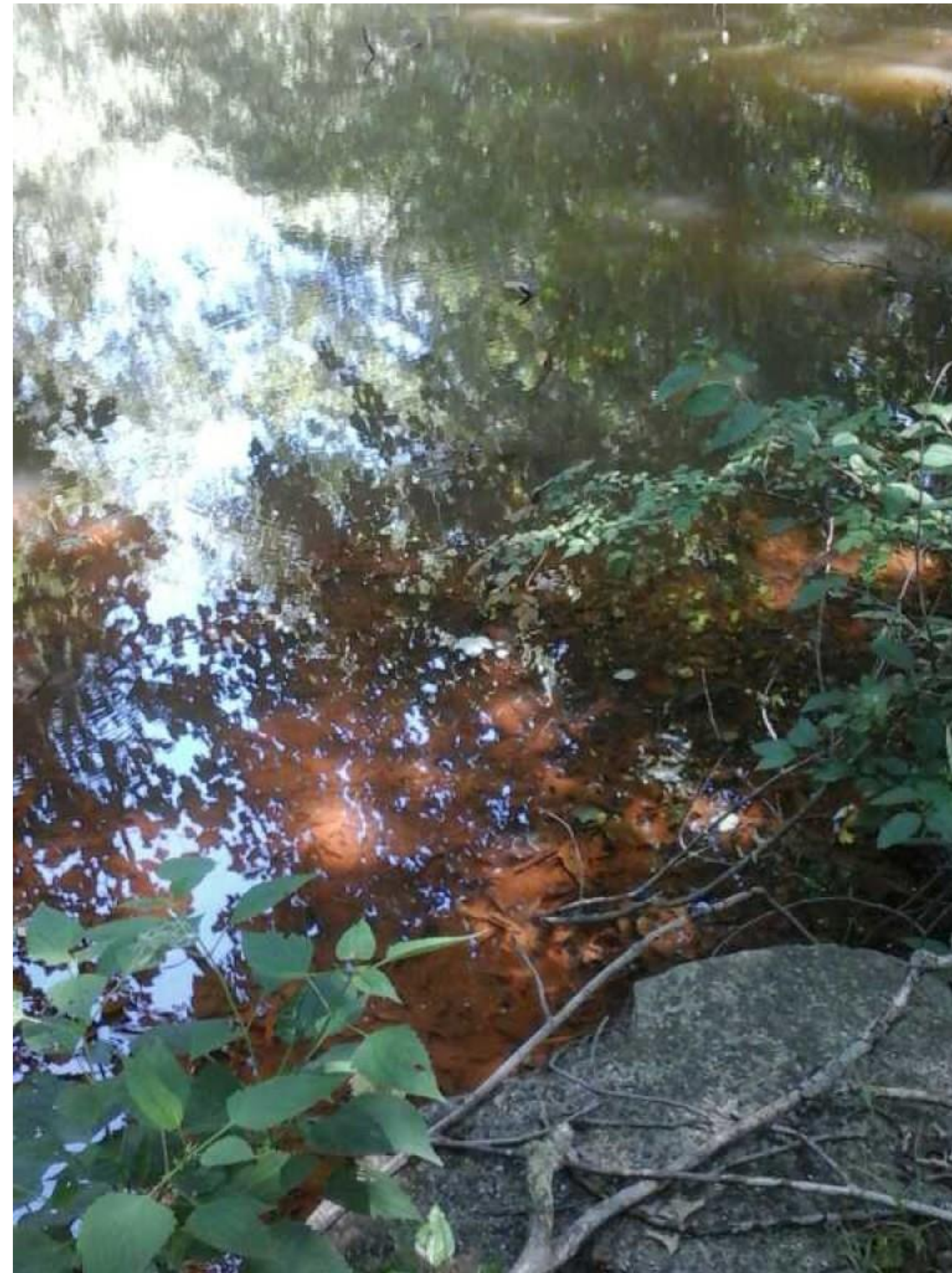
Address:
33 Iron Bridge Rd
Hamilton Township, NJ 08620



*Nonexistent, pond

Hamilton Township
Stormwater Basin Assessment
275. Iron Bridge Road Residential Basin

Address:
33 Iron Bridge Rd
Hamilton Township, NJ 08620



2019 Notes:

- No notes from 2014 report
- Appears to just be a pond, not a basin

Hamilton Township
Stormwater Basin Assessment
288. Russo Music Center Basin

Address:
1989 Arena Dr
Trenton, NJ 08610



Hamilton Township
Stormwater Basin Assessment
288. Russo Music Center Basin

Address:
1989 Arena Dr
Trenton, NJ 08610



Outlet



Overview of basin



Curb-cut leading to basin

2014 Notes:

- Standing water, oil, and iron are present near outlet structure
- Erosion and slumping around outlet structure
- Appears MS4 is clogged

Hamilton Township
Stormwater Basin Assessment
288. Russo Music Center Basin

Address:
1989 Arena Dr
Trenton, NJ 08610



2019 Notes:

- The low flow outlet appears to be clogged leading to significant standing water in low flow channel
- Heavy erosion caused by small inlet pipe should be remediated
- Low flow channel can be replaced with a stone channel to provide better infiltration in smaller storm events

Hamilton Township
Stormwater Basin Assessment

303. Englewood Boulevard Residential Basin

Address:
123 Englewood Blvd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
303. Englewood Boulevard Residential Basin

Address:
123 Englewood Blvd
Hamilton Township, NJ 08610



2019 Notes:

- No notes from 2014, was believed to be a retention basin which were not fully assessed at the time
- May be detention or infiltration basin and is adjacent to a natural pond in the forested area
- Lots of herbaceous vegetation growing in portion of basin

Hamilton Township
Stormwater Basin Assessment

304. Willow Bend Drive Residential Basin

Address:
31 Willow Bend Dr
Hamilton Township, NJ 08610



*Nonexistent

Hamilton Township
Stormwater Basin Assessment

315. Hobbs Road Residential Basin

Address:
390 Cypress Lane
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
315. Hobbs Road Residential Basin

Address:
390 Cypress Lane
Hamilton Township, NJ 08610



Low flow channel leading to catch basin



Clean out in low flow channel



Outlet structure

2017 Notes:

- Two low flow channels lead to a catch basin
- Basin can be naturalized using a stone lined channel to replace the low flow channel
- Reduce mowing and raise catch basin at the end of the low flow channels to allow better infiltration

Hamilton Township
Stormwater Basin Assessment
315. Hobbs Road Residential Basin

Address:
390 Cypress Lane
Hamilton Township, NJ 08610



2019 Notes:

- Sediment build up and grass in low flow channel leading to standing water
- Raise primary catch basin outlet and add low flow orifice to increase detention capacity
- Remove concrete low flow and add stone channel to enhance infiltration capacity
- Naturalize with herbaceous plants

Hamilton Township
Stormwater Basin Assessment

*329. & 330. Kuser Road and Whitehorse Hamilton
Square Road Basins*

Address:
1870 Kuser Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

*329. & 330. Kuser Road and Whitehorse Hamilton
Square Road Basins*

Address:
1870 Kuser Road
Hamilton Township, NJ 08610



Inlet vegetation and overview of Basin #329

Overview of Basin #330 and basin outlet

2017 Notes:

- Sediment accumulation at outlets and in low flow channels for both basins
- Vegetation overgrowth at Basin #329
- Reduce mowing and establish meadows to improve infiltration

Hamilton Township Stormwater Basin Assessment

*329. & 330. Kuser Road and Whitehorse Hamilton
Square Road Basins*

Address:
1870 Kuser Road
Hamilton Township, NJ 08610



Basin #329



Basin #330

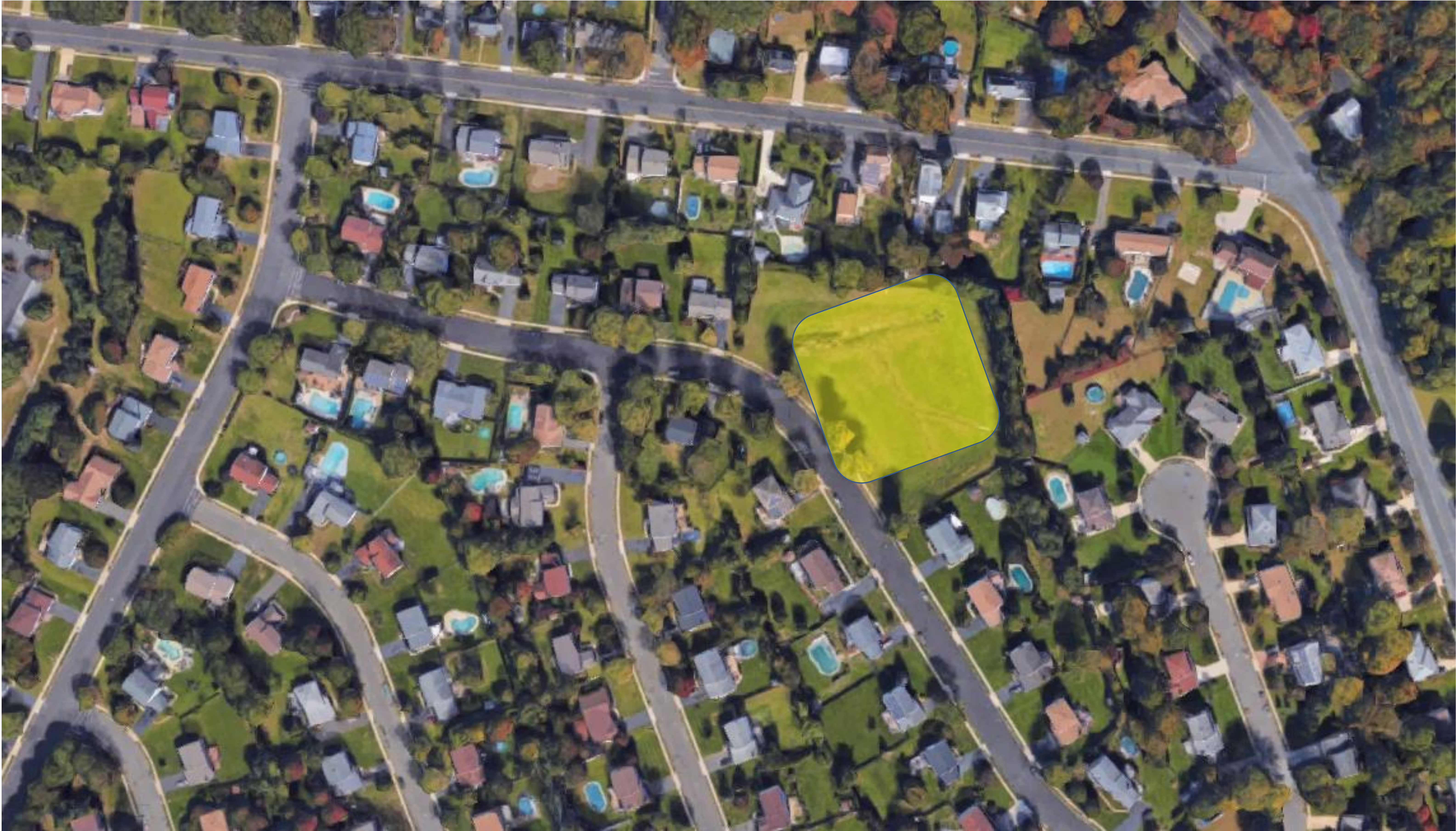
2019 Notes:

- Both basin have similar issues
- Heavy sedimentation in low flow channel with grass growing over,
- Low flow channels should be cleaned to avoid standing water
- Some erosion near outlet of Basin #329
- Opportunity to remove low flow channel
- Plant herbaceous vegetation to enhance the basins ability to absorb stormwater

Hamilton Township
Stormwater Basin Assessment

332. Robin Drive Residential Basin

Address:
101 Robin Drive
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
332. Robin Drive Residential Basin

Address:
101 Robin Drive
Hamilton Township, NJ 08610



Basin overview



Basin overview



Outlet structure

2017 Notes:

- Basin is partly naturalized
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
332. Robin Drive Residential Basin

Address:
101 Robin Drive
Hamilton Township, NJ 08610



2019 Notes:

- Large vegetation growth around the channels. Large plants such as cat tails and lavender
- Make sure inflow and outflow areas are not too restricted by vegetation
- Low flow channel should be removed for proper naturalization to allow water to infiltrate
- Allow rest of basin to naturalize by converting to meadow by reducing mowing

Hamilton Township
Stormwater Basin Assessment

346. & 347. Jeremy Place Residential Basins

Address:
10 Jeremy Place
Trenton, NJ 08620



Hamilton Township
Stormwater Basin Assessment
346. Jeremy Place Residential Basin (West)

Address:
10 Jeremy Place
Trenton, NJ 08620



Basin Overview



Outlet structure



Fish in outlet structure

2017 Notes:

- Dead fish in outlet structure
- Otherwise well maintained
- Retention basin

Hamilton Township
Stormwater Basin Assessment
346. Jeremy Place Residential Basin (West)

Address:
10 Jeremy Place
Trenton, NJ 08620



2019 Notes:

- Well establish retention basin with a fountain
- Maintain adequate mowing (up to property lines, had a complaint township is not mowing from nearby home owners)

Hamilton Township
Stormwater Basin Assessment
347. Jeremy Place Residential Basin (North)

Address:
10 Jeremy Place
Trenton, NJ 08620



Basin Overview



Outlet structure

2017 Notes:

- Invasive phragmites growing in retention pond
- Otherwise well maintained



Invasive vegetation growth

Hamilton Township
Stormwater Basin Assessment
347. Jeremy Place Residential Basin (North)

Address:
10 Jeremy Place
Trenton, NJ 08620



2019 Notes:

- Well established retention basin, water seems fairly stagnant
- Fountain could be installed to help with stagnant water issue
- Maintain adequate mowing around basins

Hamilton Township
Stormwater Basin Assessment

428. Dogwood Lane Residential Basin

Address:
21 Dogwood Lane
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
428. Dogwood Lane Residential Basin

Address:
21 Dogwood Lane
Hamilton Township, NJ 08610



Inlet



Basin overview

2017 Notes:

- Two part basin system
- Reduce mowing to improve infiltration
- Overall well maintained



Inlet



Outlet

Hamilton Township
Stormwater Basin Assessment
428. Dogwood Lane Residential Basin

Address:
21 Dogwood Lane
Hamilton Township, NJ 08610



2019 Notes:

- Infiltration basin forebay with spillway into detention basin for larger storms
- Both basins could be naturalized with herbaceous plants