



Student interns measure outlet structure at Ravenscoft basin

**Hamilton Township (Mercer County)
Stormwater Basin Assessment Summary
Addendum (Year 3)**

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

September 30, 2014

Acknowledgements

The Hamilton Township (Mercer County) Stormwater Basin Assessment Summary (Year 3) has been produced by the **Rutgers Cooperative Extension (RCE) Water Resources Program**. The principal author was **Jeremiah Bergstrom, LLA, ASLA**, Senior Research Project Manager. Field work for the assessments and review of the results of the assessments was conducted by the RCE Water Resources Program interns **Dillon Swiderski Soto, Dominick Cardella, Hollie DiMuro**, and **Kaylin Mahoney**.

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

Introduction

During the summer of 2014, the Rutgers Cooperative Extension (RCE) Water Resources Program continued the assessment of Hamilton Township's stormwater management basins with a goal to assess the remaining basins throughout the Township. These assessments are needed to determine the overall state of existing stormwater infrastructure and to identify structural and maintenance problems. Once the problems have been identified, staff can begin designing and implementing solutions. The Stormwater Basin Inspection Checklist (Attachment 1) used in Year 1 and Year 2 was useful for identifying key issues occurring within the existing stormwater basins. Year 3 efforts focused on using the same procedure to identify key structural integrity issues, maintenance deficiencies, and overall functionality in remaining areas of the Township.

During July and August 2014, staff and students conducted assessments of 133 basins in Hamilton Township (Figure 1). These basins were located primarily in the southern portion of the Township. While the southern portion of the Township is not as urbanized as the area assessed during Year 2, the assessment process remains important to the overall goal of addressing Hamilton Township's water resources issues.

Basins in Southern Hamilton Township

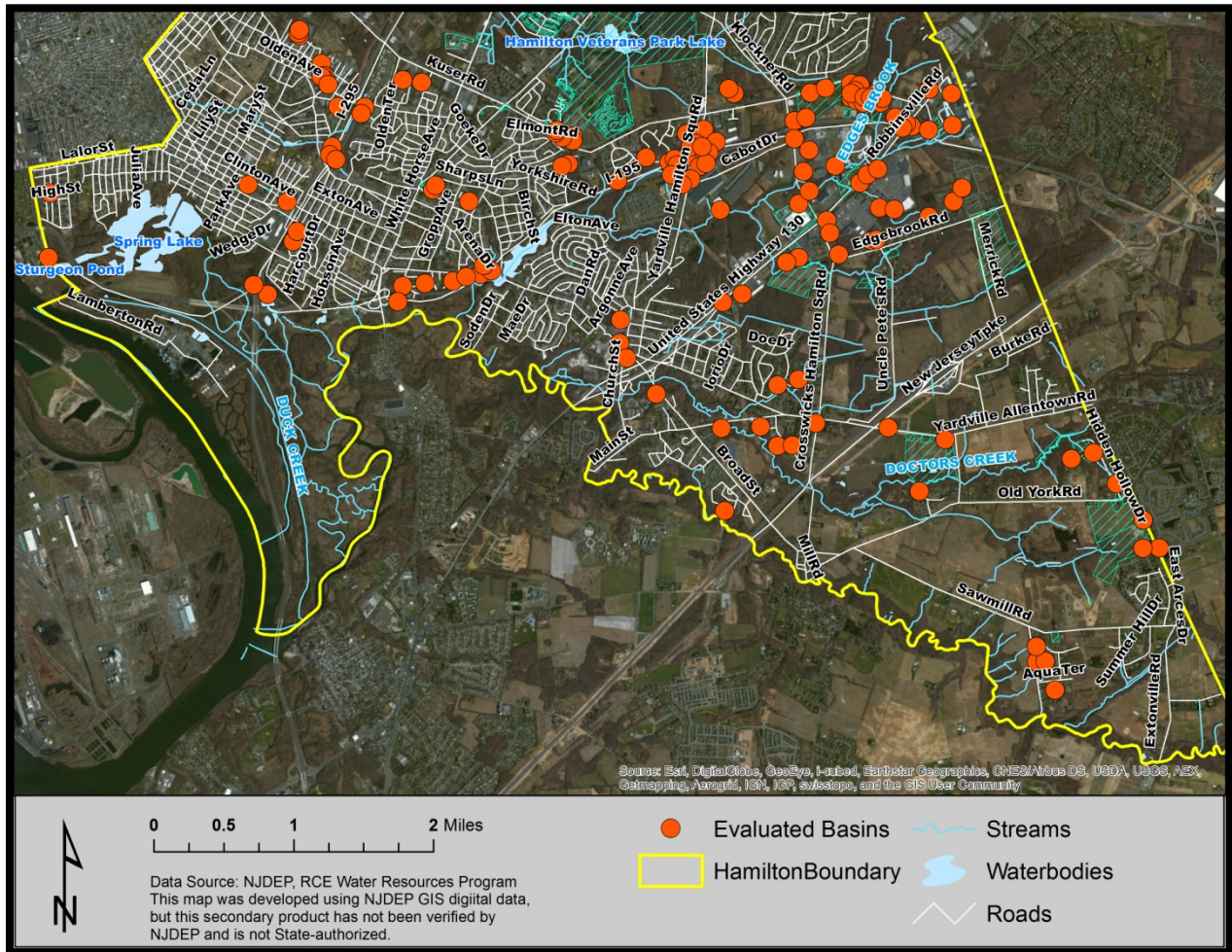


Figure 1: Stormwater basins evaluated during the summer of 2014

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.

Maps in this report include:

Basins That Require Cleaning

This map (Attachment 2A) identifies stormwater basins that have components that need to be cleaned. 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.

Basins That Require Maintenance

This map (Attachment 2B) identifies stormwater basins in need of maintenance. 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. The system is no longer functioning as designed and may be a safety hazard. Immediate action is needed to make the facility operational and safe.

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.

Priority Basins

This map (Attachment 2E) identifies stormwater basins where multiple issues were noted during the site visit. It is likely that multiple actions will be needed to get these facilities 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. Please refer to the "Hamilton Township Soil Suitability for Stormwater BMPs" report for more precise information regarding soil categorization.

Basins Maintained by New Jersey Department of Transportation (NJDOT)

This map (Attachment 2G) identifies stormwater basins presumed to be maintained by the NJDOT. These basins were primarily adjacent to major New Jersey highways and roadways.

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. 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 basins were evaluated to determine the most feasible retrofits based upon soil characteristics. Following is a list of the detention basins the RCE Water Resources Program recommends Hamilton Township consider as priority basins for retrofits and modifications.

177. Sylvan Avenue Industrial Offices Basin



The basin near VACA on Sylvan Avenue is located in an area suitable for an infiltration retrofit. Evidence of excessive sediment accumulation was noted during the assessment. This problem can be alleviated by planting meadow grasses with deep root systems near the inlet and outlet structures to intercept incoming sediment and promote infiltration. This basin includes a concrete low flow channel, which could also be removed. Once removed, it could be replaced with a

stone-lined feature to enhance stormwater infiltration, reduce pollutants, and improve water quality downstream.

201. Goddard School Basin (A)



The basin located behind the Goddard School on Kuser Road appears to be in an area suitable for an infiltration system. The basin currently has an overgrown inlet structure, an outlet orifice clogged with sediment, and invasive vegetation impeding its function. A viable retrofit for this basin would be to convert it to a swale-like feature. A vegetated swale would include removal of the concrete low flow channel and planting it with native plant species to improve infiltration and groundwater recharge. This mitigation strategy reduces total suspended solids while improving water quality and aesthetics.

202. Weber Scientific Basin



The basin located at Weber Scientific near Kuser Road is considered suitable for infiltration. It is a candidate for a retrofit involving naturalization and planting of the basin. The basin is currently in need of maintenance and repair due to sediment accumulated in the basin bottom and

deteriorated landscape fabric in the low flow channel. Naturalizing and planting the basin bottom with meadows and routinely mowing a 6-8 foot section along the perimeter of the basin would improve water quality and the capacity of the basin to infiltrate stormwater runoff. Routine scheduled maintenance of the inlets and outlet structure, is needed and will help to reduce labor and equipment costs without compromising the basin's functionality.

216. Richard C. Crockett Middle School Basin



The basin located at Richard C. Crockett Middle School features a narrow swale-like basin suitable for an infiltration retrofit. This site is a high priority candidate for transforming the existing overgrown detention basin into a planted bioswale. The detention basin is approximately 415 feet long by 45 feet wide and located north of the school. The basin currently has overgrown grass, excessive sediment, and erosion resulting from lack of maintenance and structural degradation. To retrofit the present condition, plans should include removing 12-18 inches of soil/sediment from the basin and backfilling with appropriate bioretention soil amendments. The swale can then be planted with a diverse mix of native plants and meadow grasses that will provide color and visual interest, treat water quality, and reduce flooding. In addition to the environmental benefits, this bioswale retrofit would provide an opportunity to engage students in learning about native plants, local wildlife habitat, and water resources issues in New Jersey.

218. AAA Mid-Atlantic Basin



The detention basin located on the eastern side of AAA Mid-Atlantic resides in an area suitable for an infiltration retrofit. Currently the basin is receiving excessive sediment loads from the adjacent roadway. Sediment deposits have built-up in multiple locations restricting stormwater flow between the inlet and outlet. A retrofit plan is needed to alleviate the issue. First, removal of the sediment and existing concrete low flow channels from the basin should be done. A 12-18 inch deep, 3-4 foot wide stream-bed feature consisting of river stone can replace the concrete low flow channels and lead to a large rain garden near the outlet structure. Furthermore, planting and/or naturalizing the rain garden would contribute significantly to capturing and stabilizing the amount of sediment passing through the basin while improving water quality and enhancing aesthetics.

232. Betsy Court Basin



The basin located west of Betsy Court occupies an area suitable for an infiltration retrofit. Considering that this basin has soils with good infiltration rates, a relatively inexpensive retrofit design would include removing the 95-foot section of the concrete low flow channel up to the fork and allowing naturalization of the basin bottom. Currently smaller more frequent storm events are travelling directly from the inlets to the outlet without any treatment. Implementing a mow plan to maintain the inlets, outlet, and embankment of the basin clear of vegetation on a routine basis would ensure proper functioning of the system while addressing stormwater concerns. As a result, this would leave an approximate 4,600 square foot area of naturalized grass in the basin bottom. With this retrofit, sediment, litter, and debris will settle out in the grassed areas as the stormwater infiltrates, in turn reducing localized flooding and nonpoint source pollutants.

233. Alessio Terrace Basin



The detention basin located south of Alessio Terrace is in an area suitable for an infiltration retrofit. At the time of assessment, the basin appeared to be well maintained and functioning as designed. However, a simple retrofit design can improve its functioning to address water quality concerns and promote infiltration. Currently the basin has a 13-inch diameter outlet orifice that provides little or no stormwater detention during small rain events. To mitigate this issue, a steel restrictor plate with a 4-6 inch outlet orifice can be installed over the existing 13-inch outlet pipe. In addition, the entire low flow channel can be replaced with a 3-foot wide by 6-12 inch deep stream-bed feature. This will in turn slow the volume of runoff travelling through the basin as well as allow water to infiltrate back into the soil.

239. Adam's Party Rental Basin



The basin at Adam's Party Rental is located in an area suitable for an infiltration retrofit. The preliminary step should involve removing excess sediment and debris from the inlet and currently overgrown outlet orifice. A retrofit design could include transforming the existing basin into a 2,200 square foot rain garden. The eroded swale directing runoff from the northern parking lot should be addressed by adding soil and rip-rap to stabilize the inlet channel. The southeastern curb-cut inlet should also be cleared of overgrown turf grass. The basin bottom should then be left to naturalize or be planted with a meadow seed mix to establish plant growth with deep root systems to promote infiltration and reduce future clogging issues.

243. Good Year Auto Service Basin



The detention basin located on the premises of Good Year Auto Service is in an area suitable for an infiltration retrofit. The basin consists of two basin sections sharing one main outlet structure. During the assessment, overgrown vegetation and debris was found to be impeding the

functionality of the basin. The inlet is a 30-inch curb-cut from the most eastern portion of the parking lot; the erosion can be repaired by re-digging the trench, then adding soil and rip-rap to control the velocity of runoff entering the basin. To improve infiltration, the retrofit could involve planting with native plants or allowing the basin to naturalize. This strategy will enhance the capture of debris entering the basin while simultaneously reducing pollutants before discharging downstream.

264. Perilli Drive Basin



The basin adjacent to Perilli drive is located in an area considered suitable for an infiltration retrofit. At the time of assessment, the basin had evidence of heavy debris and sediment loads near the primary structures that require removal. The outlet orifice diameter was measured to be 17 inches, which provides little or no detention time for small storms. Efforts to retrofit this basin could include replacing the concrete low flow channel with a 3-foot wide by 6-inch deep river stone stream-bed and subsurface perforated pipe leading to the outlet structure. In addition, planting meadows near the inlet and outlet structure can act as a buffer for incoming sediment and debris. This will enable incoming runoff to filter, and slowly percolate through the pipe with some preliminary treatment before discharging from the basin. At a minimum, a restrictor plate can be installed to reduce the outlet diameter, increasing detention time during small and large storm events. This will allow more time for the water to settle-out pollutants before infiltrating back into the soil.

272. Iron Bridge Road Basin



The basin located east of Iron Bridge Road is in an area considered suitable for an infiltration retrofit. At the time of assessment, excessive vegetation was found to be obstructing the inlet. This basin does not have a low flow channel making it ideal for an infiltration retrofit. The first step should be to remove excessive plant growth from the inlet so runoff can flow unrestricted into the basin. A retrofit design for this basin would involve planting deep rooted native grasses in the area leading from the inlet to the basin. In addition, areas of meadows and native grasses should be planted near the outlet to increase detention time. These plantings will allow water to sheetflow throughout the basin, recharging groundwater and increasing pollutant removal. At a minimum, the perimeter and main structures of the basin should remain mowed on a scheduled (bi-weekly or monthly) basis, letting the basin bottom naturalize.

306. Saint James Church Basin



The detention basin located south of Saint James Church is in an area considered suitable for an infiltration retrofit. The basin consists of two basins sharing one common outlet structure. At the time of assessment, the western basin was found to have excessive sediment in the basin bottom, obstructing the outlet orifice. The basin is a priority candidate for a retrofit design that would transform the existing basin into a planted/naturalized system. A preliminary step would involve removing the 3-6 inch layer of sediment covering the basin bottom and planting with a meadow seed mix. The eastern basin can be planted with native grasses to filter sediment from stormwater entering the basins through the curbcut inlet. This will decrease stormwater peak runoff volume and nonpoint source pollutants discharging from the basin.

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?			



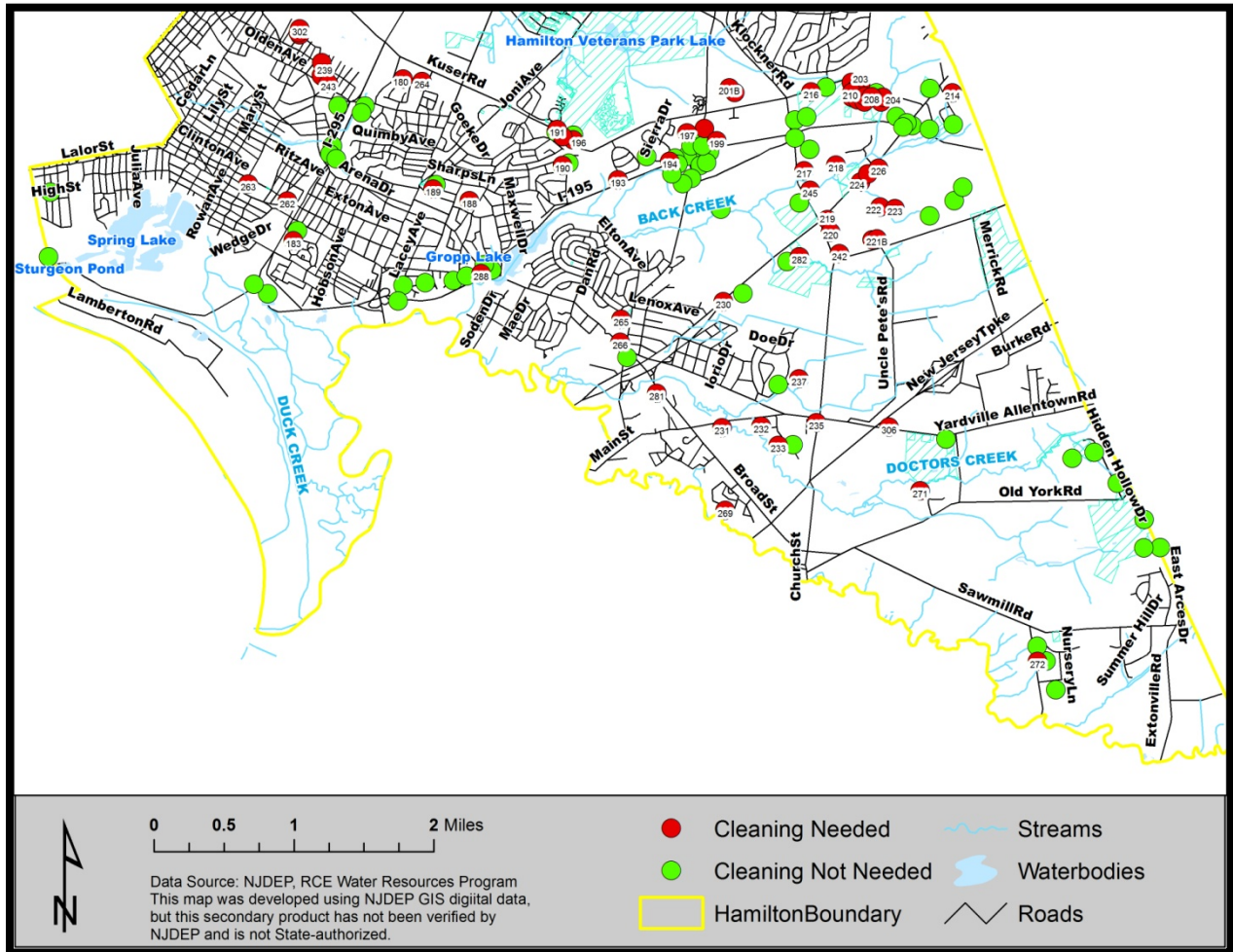
Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist



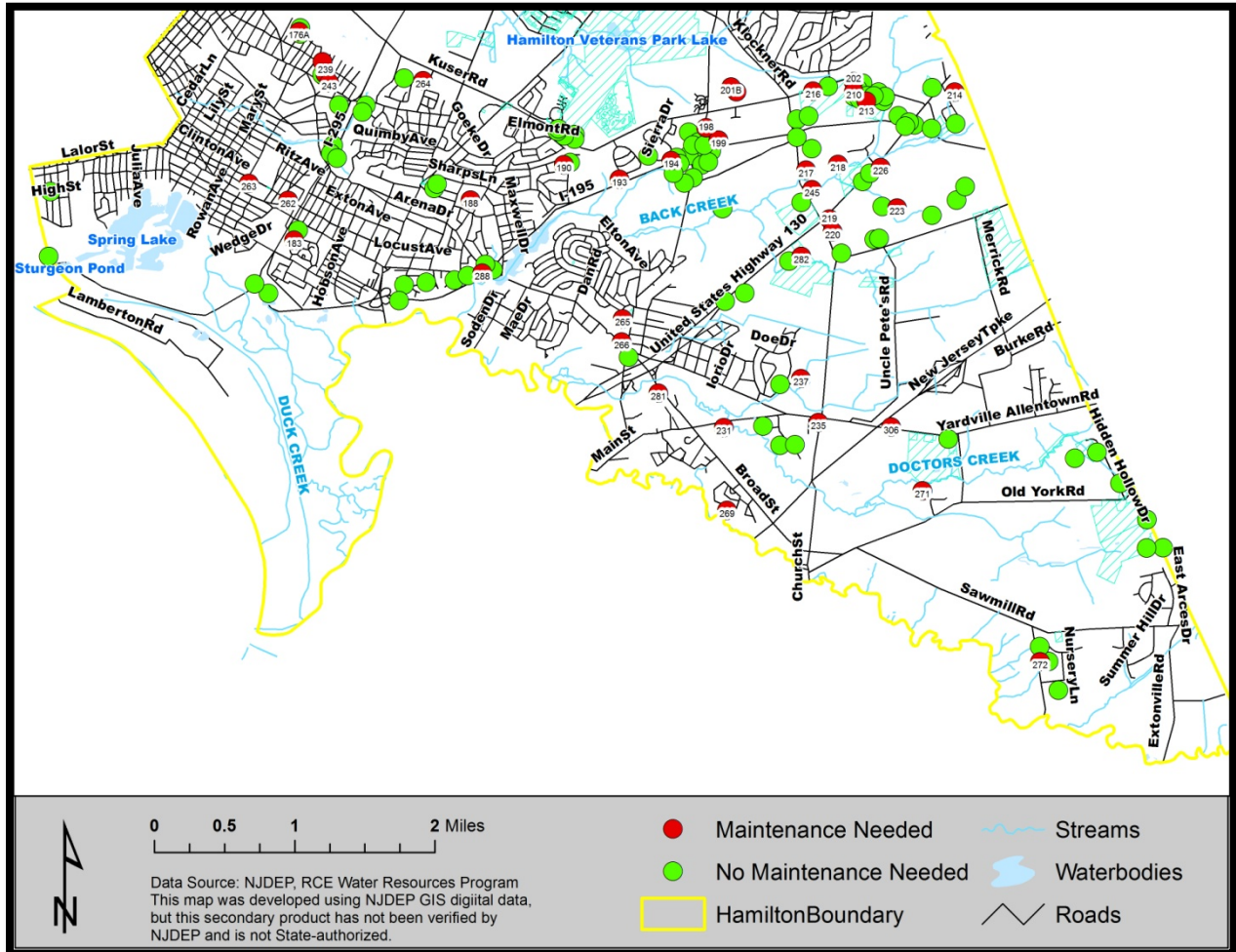
OUTLET	YES	NO	NOTES/REMARKS
1) Breakage, damage, corrosion or rusting to outlet pipe or conveyance?			
2) Signs of erosion, scour or gullies; rock or vegetation above or around the outlet structure?			
3) Debris or sediment accumulation in or around the outlet pipe (i.e. debris or sediment)?			
4) Accumulation 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			

Attachments 2A-2G: Evaluation Maps

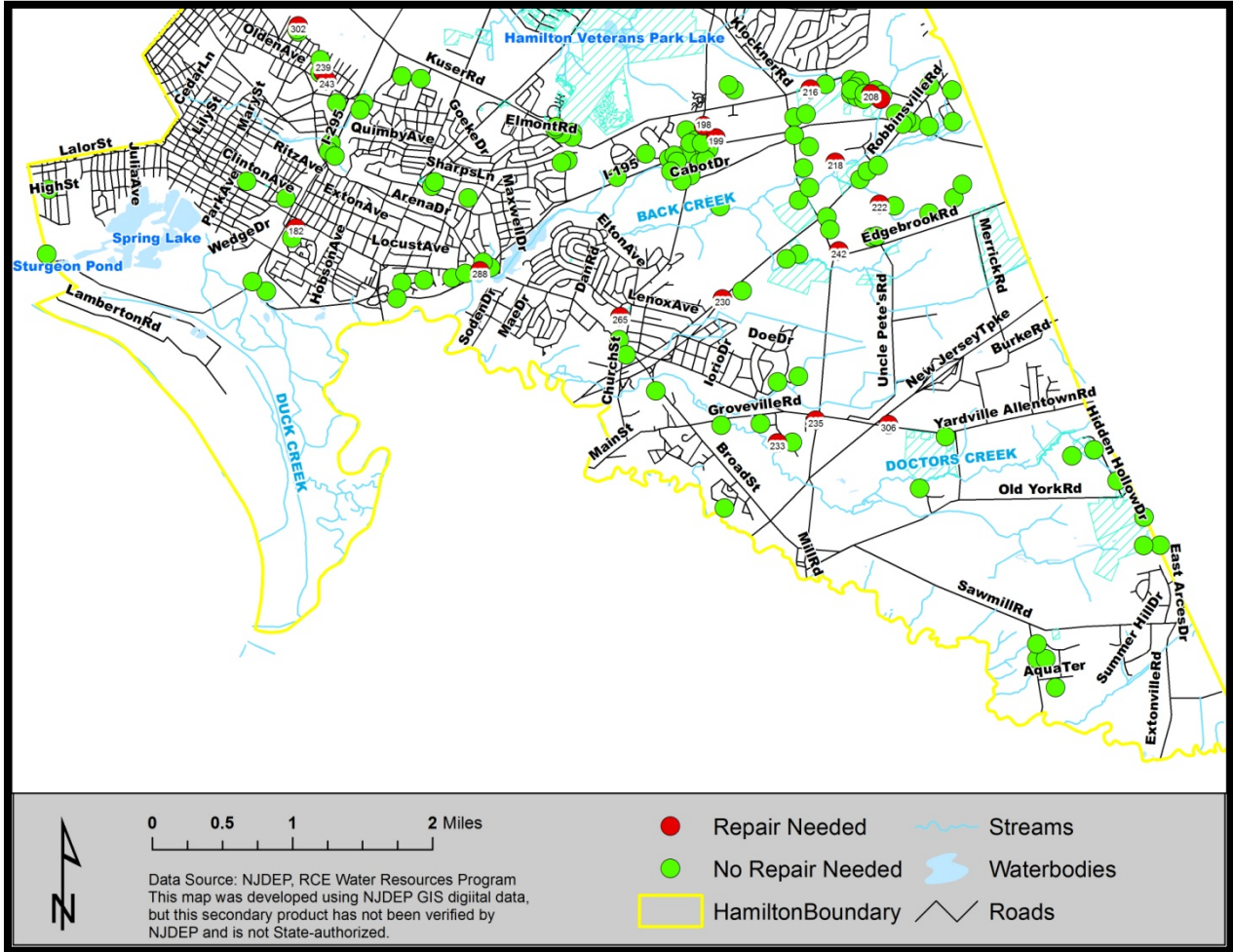
Attachment 2A: Basins in Southern Hamilton that Require Cleaning



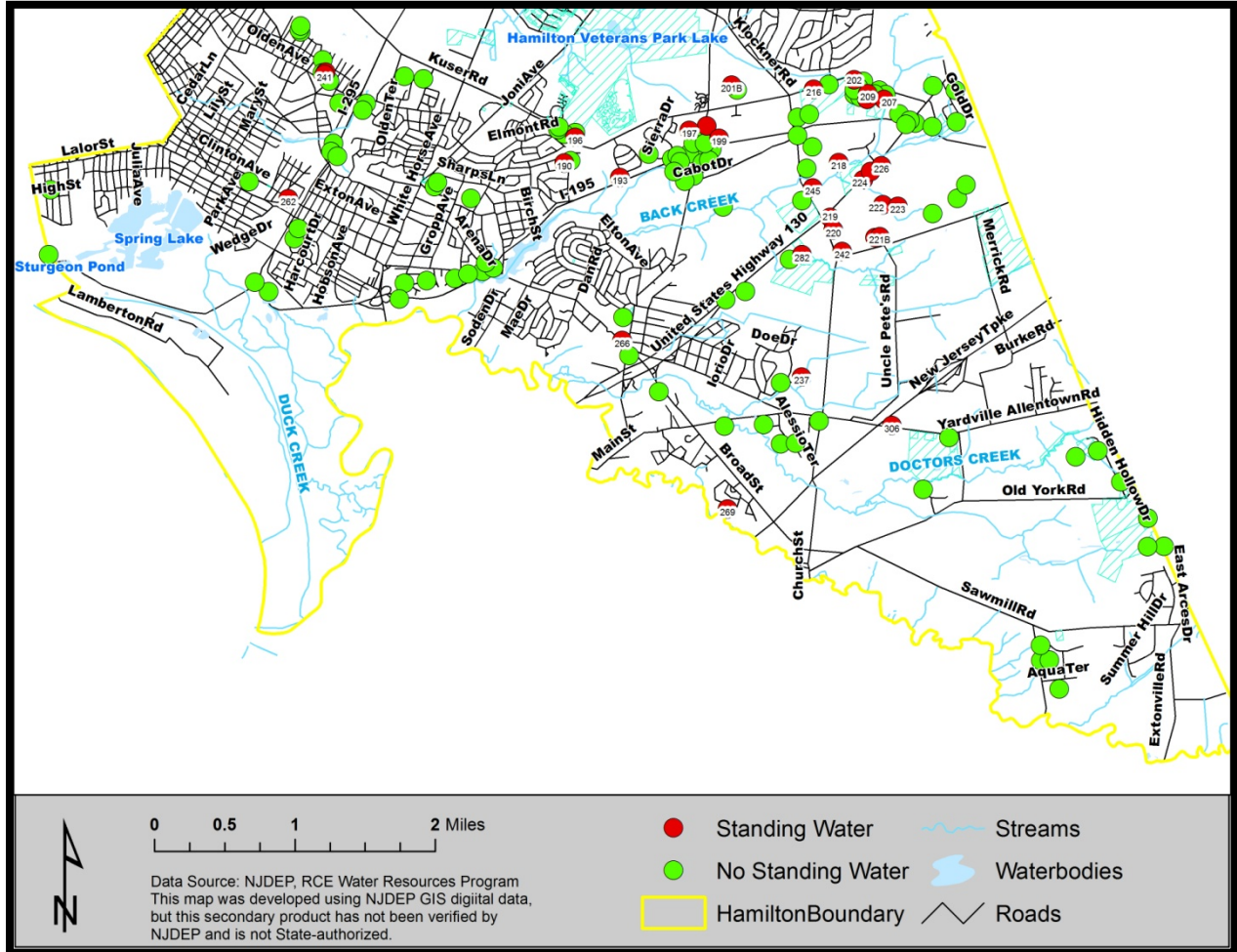
Attachment 2B: Basins in Southern Hamilton that Require Maintenance



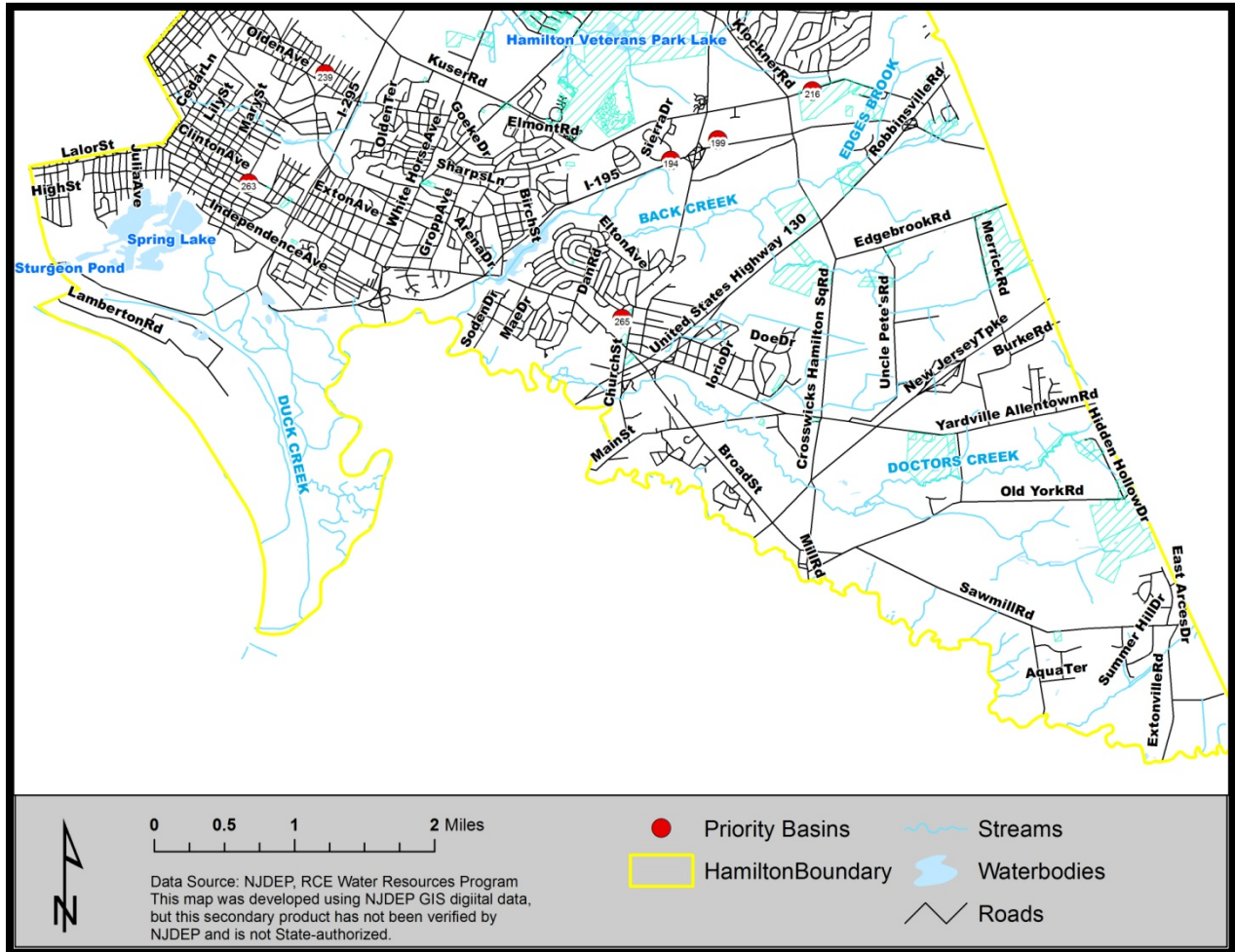
Attachment 2C: Basins in Southern Hamilton that Require Repair



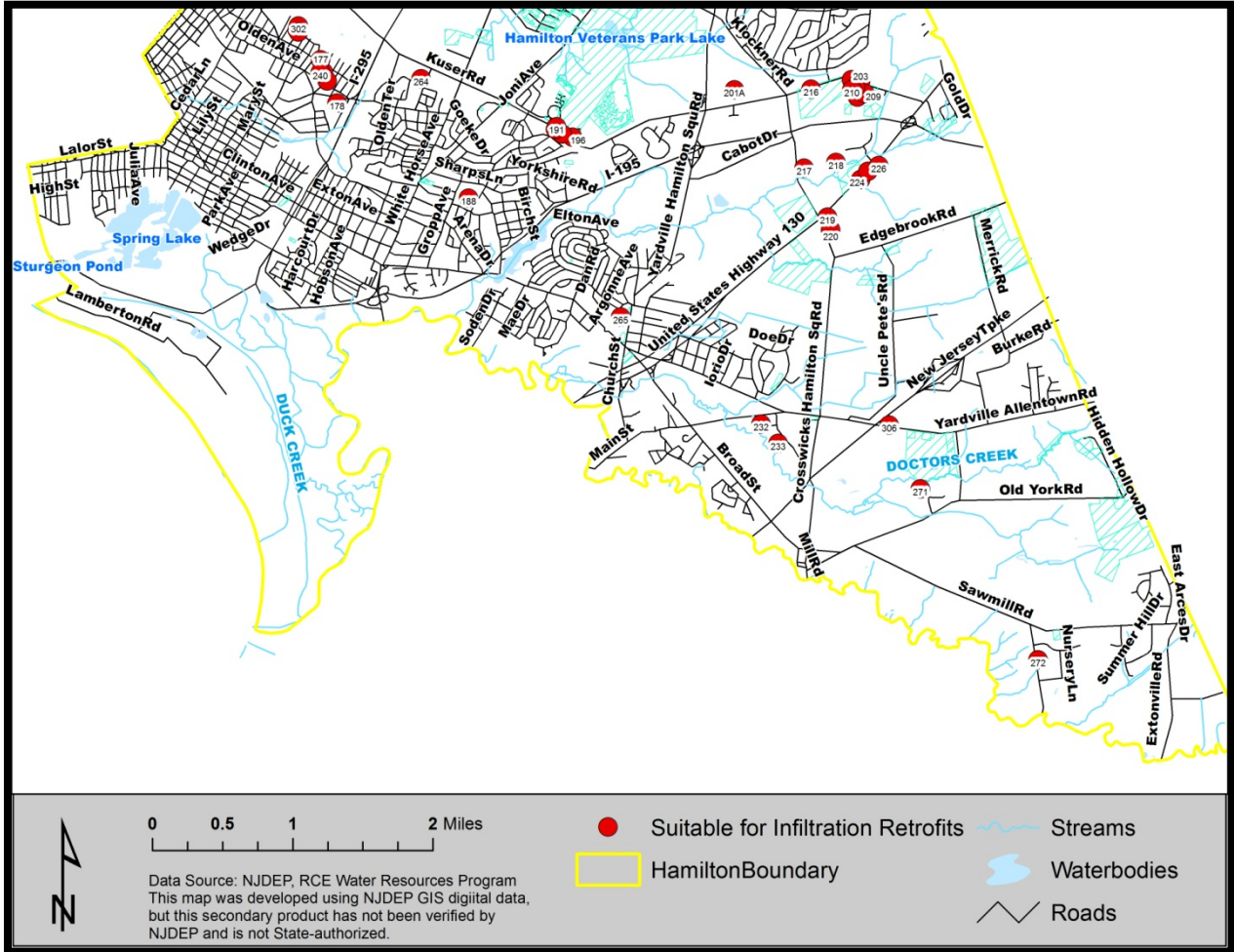
Attachment 2D: Basins in Southern Hamilton With Standing Water



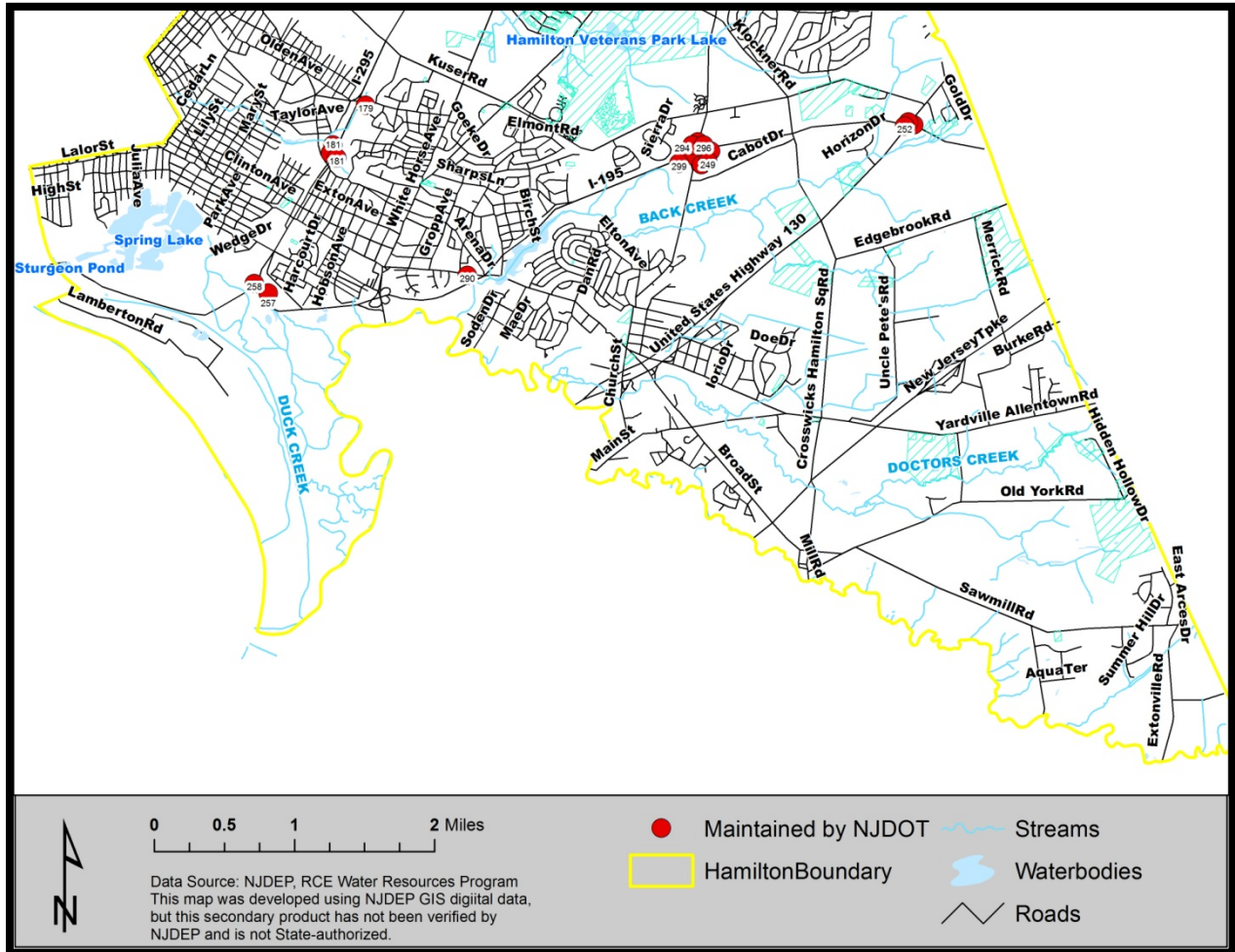
Attachment 2E: Priority Basins in Southern Hamilton



Attachment 2F: Basins in Southern Hamilton Suitable for Infiltration Retrofits



Attachment 2G: Basins in Southern Hamilton Maintained by NJDOT



Attachment 3: Stormwater Basin Assessments



ID#	Location
176.	105 Paterson Ave (A and B)
177.	1700 Sylvan Ave
178.	60 Old Olden Ave
179.	1897 S Olden Ave
180.	20 Perilli Drive
181.	Highway 295
182.	61 Meredith Rd
183.	61 Meredith Rd
184.	20 James Cubberly Ct
185.	20 James Cubberly Ct
186.	3441 S Broad St
187.	16 Copperfield Dr
188.	255 Sharps Ln
189.	479 Whitehorse Hamilton Square Rd
190.	41 Dark Leaf Dr
191.	2193 Kuser Rd
192.	2193 Kuser Rd
193.	72 Kingston Blvd
194.	314 Mowat Cr
195.	2322 Kuser Rd
196.	73 County Ln
197.	2429 Kuser Rd
198.	2501 Kuser Rd
199.	160 Commerce Way
200.	401 Carbot Dr

ID#	Location
201.	2468 Kuser Rd (A and B)
202.	2740 Kuser Rd
203.	2740 Kuser Rd
204.	2 Black Forest Rd
205.	2 Black Forest Rd
206.	2 Black Forest Rd
207.	4 Black Forest Rd
208.	6 Black Forest Rd
209.	8 Black Forest Rd
210.	10 Black Forest Rd
211.	17 Black Forest Rd
212.	15 Black Forest Rd
213.	11 Black Forest Rd
214.	100 N Gold Dr
215.	1305 Kruser Rd
216.	2631 Kruser Rd
217.	700 Horizon Dr
218.	700 Horizon Dr
219.	691 US-130
220.	3801 Klockner Rd
221.	69 Edgebrook Rd (A and B)
222.	Marketplace Blvd
223.	Marketplace Blvd
224.	Marketplace Blvd
225.	Marketplace Blvd

ID#	Location
226.	Marketplace Blvd
227.	14 Barbados Ct
228.	39 Monte Carlo Dr
229.	39 Monte Carlo Dr
230.	467 NJ-156
231.	21 Jimarie Ct
232.	7 Betsy Ct
233.	17 Alessio Terrace
234.	17 Alessio Terrace
235.	4450 Crosswicks Hamilton Square Rd
236.	79 Village Drive East
237.	79 Village Drive East
238.	9 Weathersfield Dr
239.	154 Turnbull Ave
240.	131 Turnbull Ave
241.	154 Turnbull Ave
242.	79 Edgebrook Rd
243.	1614 S Olden Ave
244.	Corner of US-130 and Klockner Rd
245.	Back Creek Rd
246.	1400 Negron Dr
247.	Yardville Hamilton Square Rd and I-295
248.	Yardville Hamilton Square Rd and I-295
249.	Yardville Hamilton Square Rd and I-295
250.	960 Robbinsville Rd



ID#	Location	ID#	Location	ID#	Location
251.	960 Robbinsville Rd	277.	60 Extonville Rd	303.	123 Englewood Blvd
252.	960 Robbinsville Rd	278.	9 Extonville Rd	304.	31 Willow Bend Dr
253.	1080 US-130	279.	1 Hidden Hollow Dr	305.	400 Cabot Dr
254.	2631 Kuser Rd	280.	8 Hidden Hollow Dr	306.	1040 Yardville Allentown Rd
255.	3666 Klockner Rd	281.	2 Elliot Ct		
256.	2631 Kuser Rd	282.	691 Rt. 130		
257.	Corner Route 29 and I-295	283.	621 Rt. 130		
258.	Corner Route 29 and I-295	284.	557 Rt. 130		
259.	110 High St	285.	5 Aaa Dr		
260.	110 High St	286.	70 Kenwood Terrace		
261.	20 Robert Pearson Ct	287.	35 Sharps Ln		
262.	3101 S Clinton Ave	288.	1989 Arena Dr		
263.	2200 Genesee St	289.	66 Lakeside Blvd		
264.	39 Perilli Dr	290.	4 Hempstead Rd		
265.	211 Yardville Hamilton Square Rd	291.	3666 Klockner Rd		
266.	4400 S Broad St	292.	714 Mowat Cir		
267.	21 Church St	293.	2465 Kuser Rd		
268.	2779 Kuser Rd	294.	2465 Kuser Rd		
269.	56 Kristopher Dr	295.	2465 Kuser Rd		
270.	65 Tattletown Rd	296.	2465 Kuser Rd		
271.	7 Sam's Way	297.	2465 Kuser Rd		
272.	63 Iron Bridge Rd	298.	2465 Kuser Rd		
273.	3 Carney Way	299.	2465 Kuser Rd		
274.	2 Carney Way	300.	890 Yardville Hamilton Square Rd		
275.	33 Iron Bridge Rd	301.	6304 Talbot Way		
276.	60 Extonville Rd	302.	339 Patterson Ave		

2014
Hamilton Township
Stormwater Basin Assessment

Hamilton Township
Stormwater Basin Assessment

176. Waste Management Detention Basin (A)

Address:
105 Paterson Ave.
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

176. Waste Management Detention Basin (A)



Overview of basin

Address:
105 Paterson Ave.
Hamilton Township, NJ 08610



Inlet



Outlet

Notes:

- Excess sediment and woody vegetation near outlet structure
- Restrictor plate retrofit could be a possibility for outlet orifice
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

176. Waste Management Detention Basin (B)

Address:
105 Paterson Ave.
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

176. Waste Management Detention Basin (B)

Address:
105 Paterson Ave.
Hamilton Township, NJ 08610



Overview of Basin

Notes:

- No access – Area is in Waste Management facilities
- Excess sediment in inlet
- Possible infiltration basin

Hamilton Township
Stormwater Basin Assessment

177. Industrial Offices Detention Basins

Address:
1700 Sylvan Ave.
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
177. Industrial Offices Detention Basins



Address:
1700 Sylvan Ave.
Hamilton Township, NJ 08610



Overview of basin



Outlet



Inlet

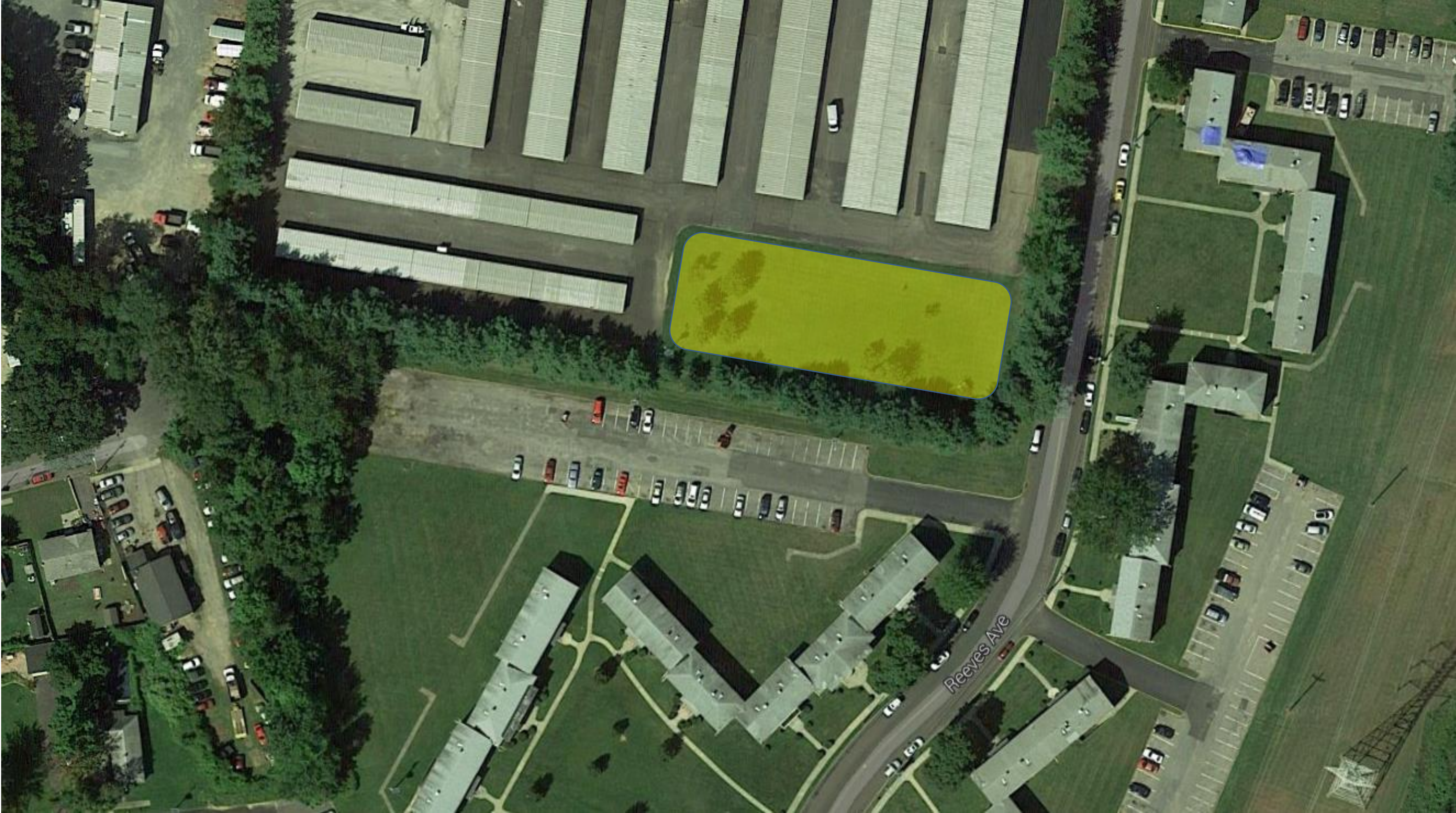
Notes:

- Excess sediment in drain, and around the inlet and outlet
- Receives runoff from adjacent parking lot

Hamilton Township
Stormwater Basin Assessment

178. CubeSmart Self Storage Detention Basin

Address:
60 Old Olden Ave.
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

178. CubeSmart Self Storage Detention Basin

Address:
60 Old Olden Ave.
Hamilton Township, NJ 08610



Outlet

Notes:

- Limited access - Basin located on CubeSmart facilities
- Outlet structure may need to be replaced in near future
- Woody plants growing near outlet structure

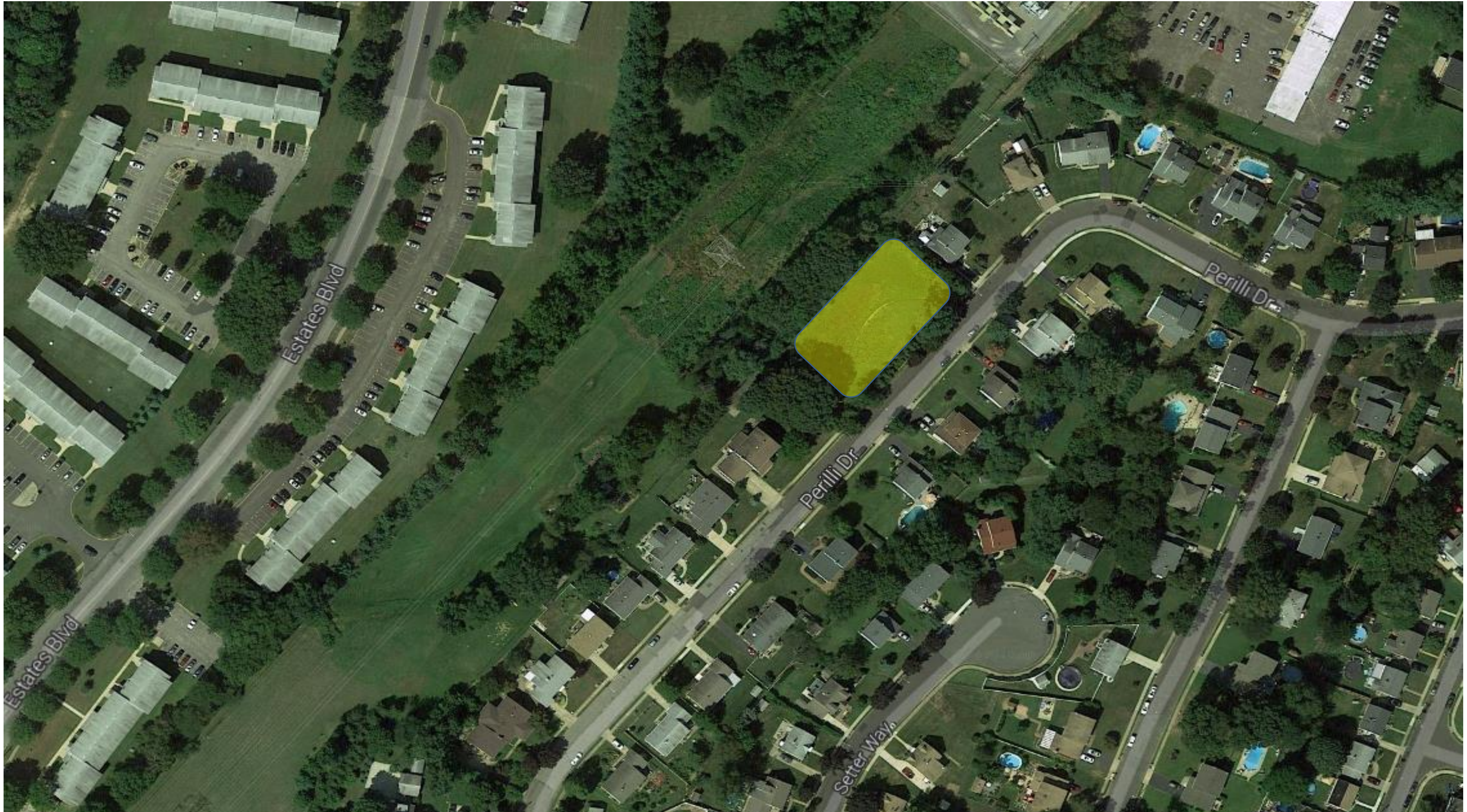
Hamilton Township
Stormwater Basin Assessment
179. I-95 N Detention Basin

Address:
1897 S Olden Ave.
Hamilton Township, NJ 08610



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

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

181. I-95 S Detention Basins

Address:
Highway 295
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

182. Meredith Road Residential Basins

Address:
61 Meredith Rd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
182. Meredith Road Residential Basins

Address:
61 Meredith Rd
Hamilton Township, NJ 08610



Overview of basin



Inlet



Inside of outlet

Notes:

- Riprap around inlet and outlet
- No low flow channel
- Appears to be infiltration basin
- Emergency spillway directed to local stream
- Exposed earth near basin inlet and center

Hamilton Township
Stormwater Basin Assessment

183. Meredith Road Residential Basins

Address:
61 Meredith Rd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

183. Meredith Road Residential Basins



Low flow channel



Low flow channel looking east

Address:
61 Meredith Rd
Hamilton Township, NJ 08610



Outlet

Notes:

- Reports of system not functioning
- Sediment and a fallen tree in low flow channel
- Japanese knotweed growing near outlet

Hamilton Township
Stormwater Basin Assessment

184 & 185. Pebble Creek Drive Residential Basins

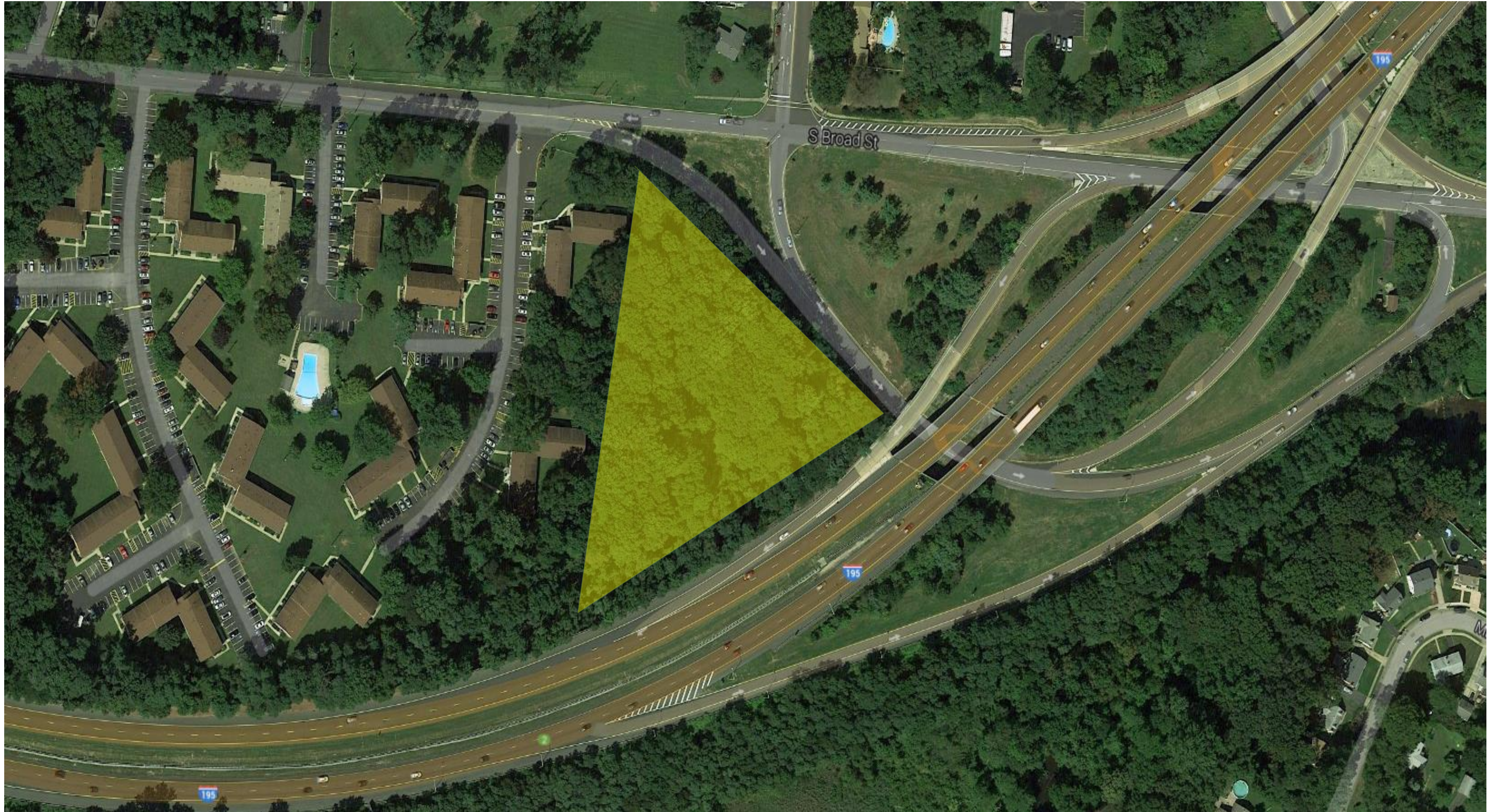
Address:
20 James Cubberly Ct
Trenton, NJ 08610



Hamilton Township
Stormwater Basin Assessment

186. S Broad Street Residential Basin

Address:
3441 S Broad St
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment

187. Copperfield Drive Residential Basin

Address:
16 Copperfield Dr
Hamilton Township, NJ 08610



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

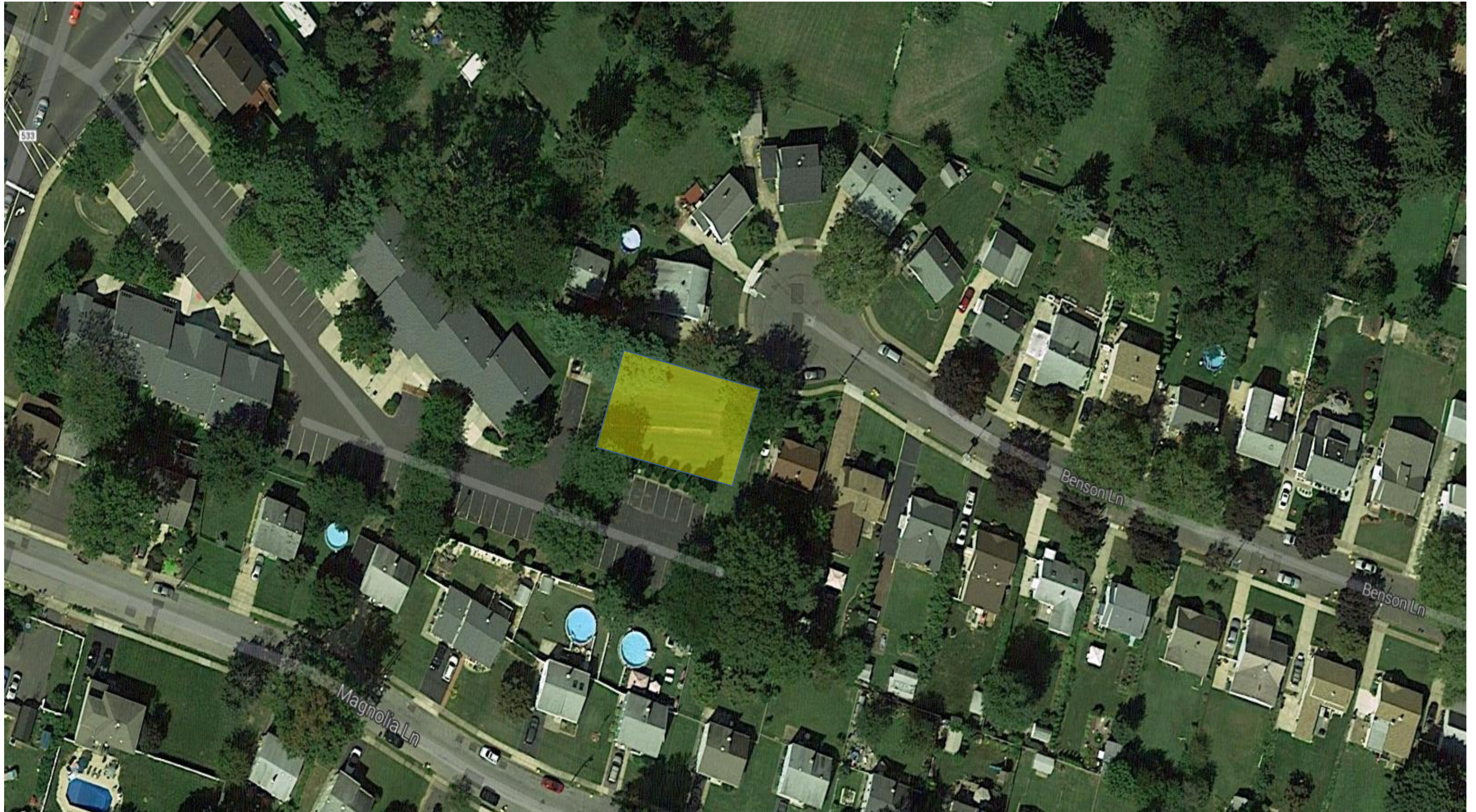
Notes:

- 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

189. Mapleshade Square Detention Basin

Address:
479 Whitehorse Hamilton Square Rd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
189. Mapleshade Square Detention Basin

Address:
479 Whitehorse Hamilton Square Rd
Hamilton Township, NJ 08610



Low flow channel



Outlet



Inlet

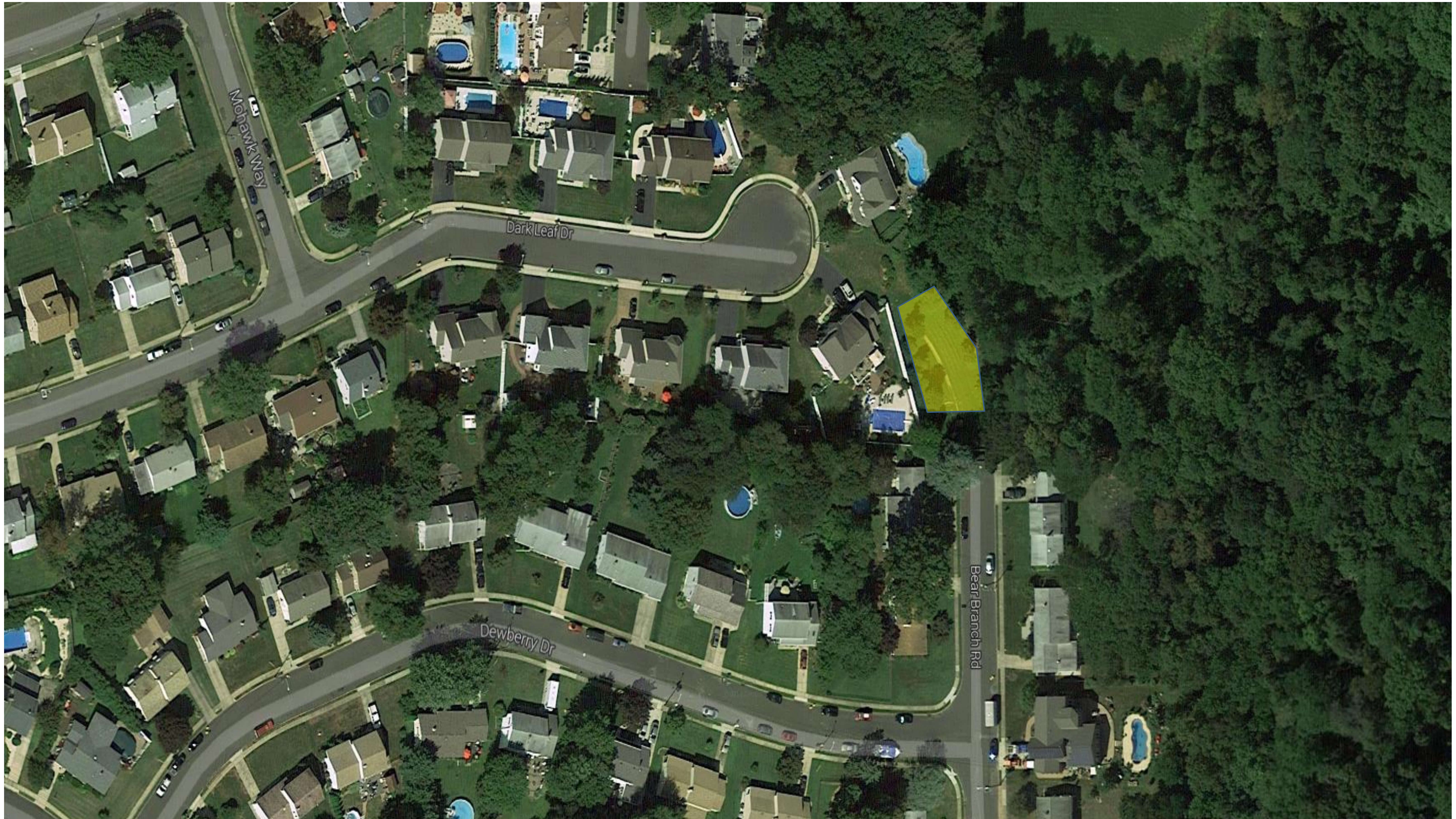
Notes:

- Inlet is a curb-cut receiving runoff from a portion of the parking lot
- Outlet has minimal amounts of sediment
- Sediment in low flow channel

Hamilton Township
Stormwater Basin Assessment

190. Dark Leaf Drive Residential Basin

Address:
41 Dark Leaf Dr
Hamilton Township, NJ 08610

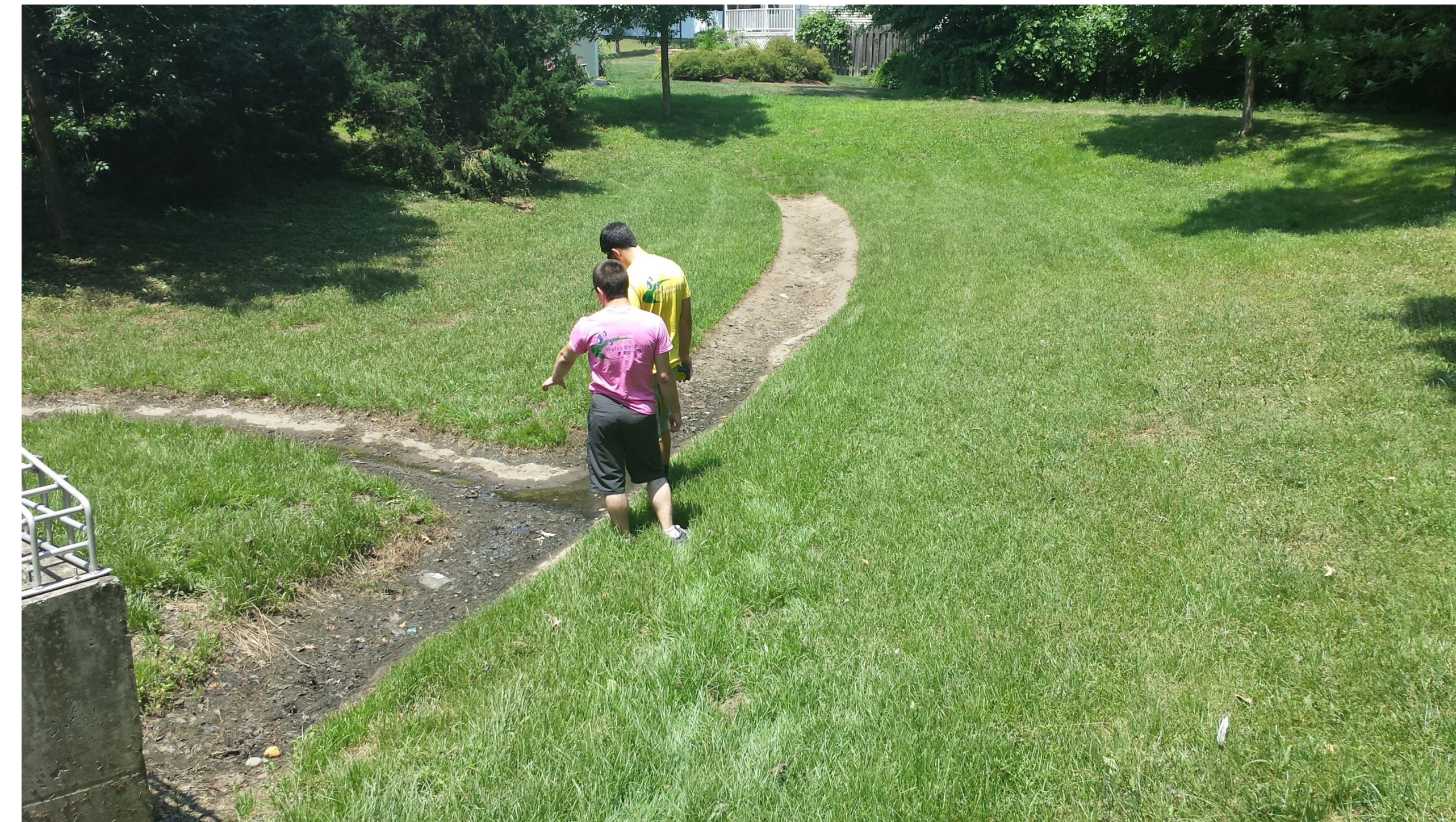


Hamilton Township
Stormwater Basin Assessment
190. Dark Leaf Drive Residential Basin

Address:
41 Dark Leaf Dr
Hamilton Township, NJ 08610



Inlet



Sediment in low flow channel



Mosquito larvae in low flow channel

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

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

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

193. Kingston Boulevard Residential Basins

Address:
72 Kingston Blvd
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
193. Kingston Boulevard Residential Basins

Address:
72 Kingston Blvd
Hamilton Township, NJ 08690



Inlet



Outlet



Stone bed as emergency spillway

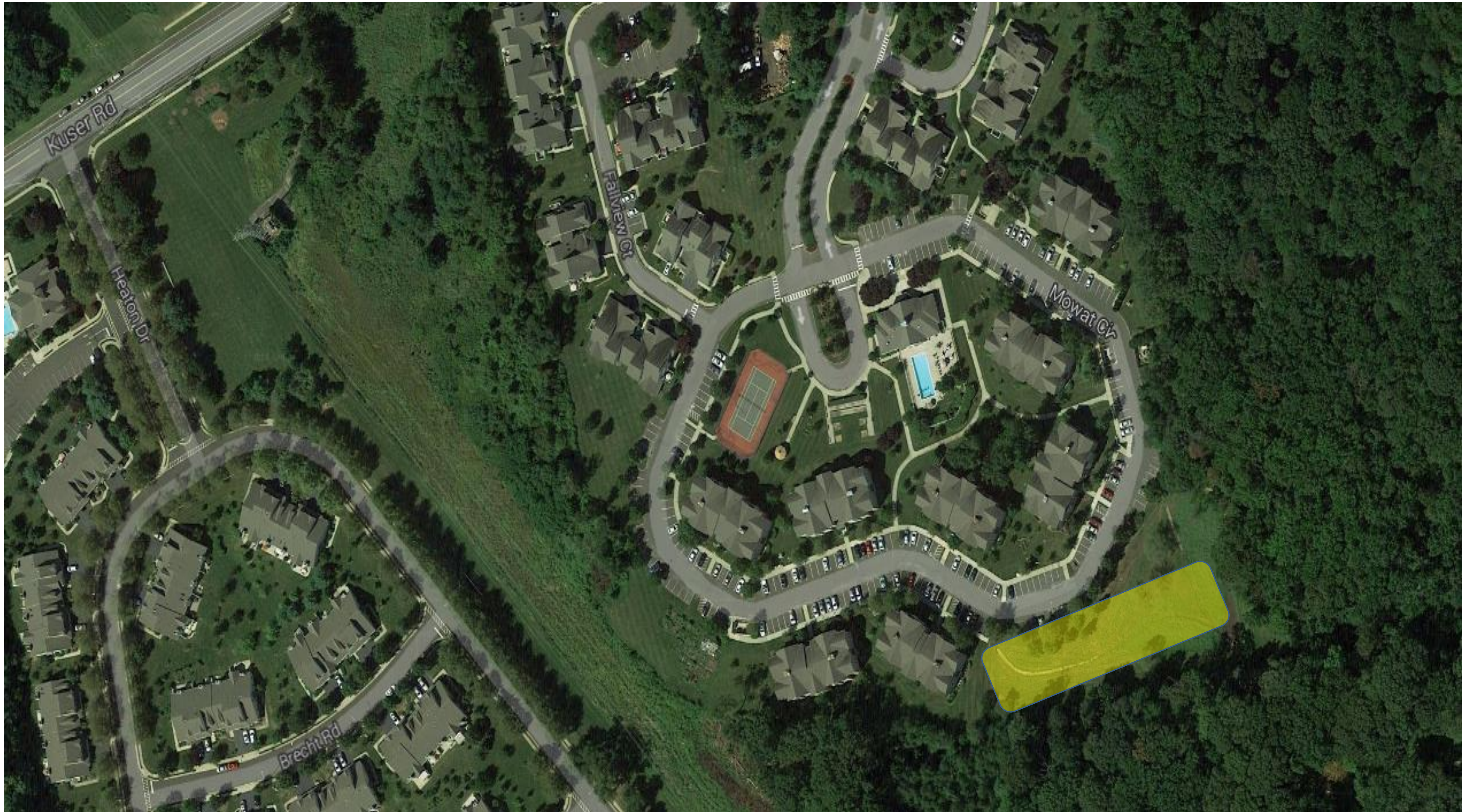
Notes:

- Dense vegetation around both inlets
- Standing water in outlet structure
- Excess grass clippings around trash rack
- Stormwater drains to local stream

Hamilton Township
Stormwater Basin Assessment

194. Mowat Circle Residential Basin

Address:
314 Mowat Cr
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
194. Mowat Circle Residential Basin

Address:
314 Mowat Cr
Hamilton Township, NJ 08690



Low flow channel



Front view of outlet



Side view of outlet

Notes:

- Excessive sediment in low flow channel and basin bottom
- Trash rack broken and placed inside outlet structure
- Area near outlet has strong odor

Hamilton Township
Stormwater Basin Assessment

195. Ravenscoft Residential Basin

Address:
2322 Kuser Rd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
195. Ravenscoft Residential Basin

Address:
2322 Kuser Rd
Hamilton Township, NJ 08610



Overview of basin



Center of the low flow channel



Erosion near inlet

Notes:

- Noticeable amount of iron in low flow channel
- Minimal amounts of sediment near outlet structure
- Emergency spillway adjacent to basin flows to nearby field
- Overall in good condition

Hamilton Township
Stormwater Basin Assessment
196. County Lane Residential Basin

Address:
73 County Ln
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
196. County Lane Residential Basin

Address:
73 County Ln
Hamilton Township, NJ 08610



Overview of basin



Sediment in low flow channel



Low flow channel

Notes:

- Standing water in low flow channel and around inlets
- Excess sediment in low flow channel is restricting water flow

Hamilton Township
Stormwater Basin Assessment
197. Kuser Road Commercial Basin

Address:
2429 Kuser Rd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
197. Kuser Road Commercial Basin

Address:
2429 Kuser Rd
Hamilton Township, NJ 08610



Overview of basin



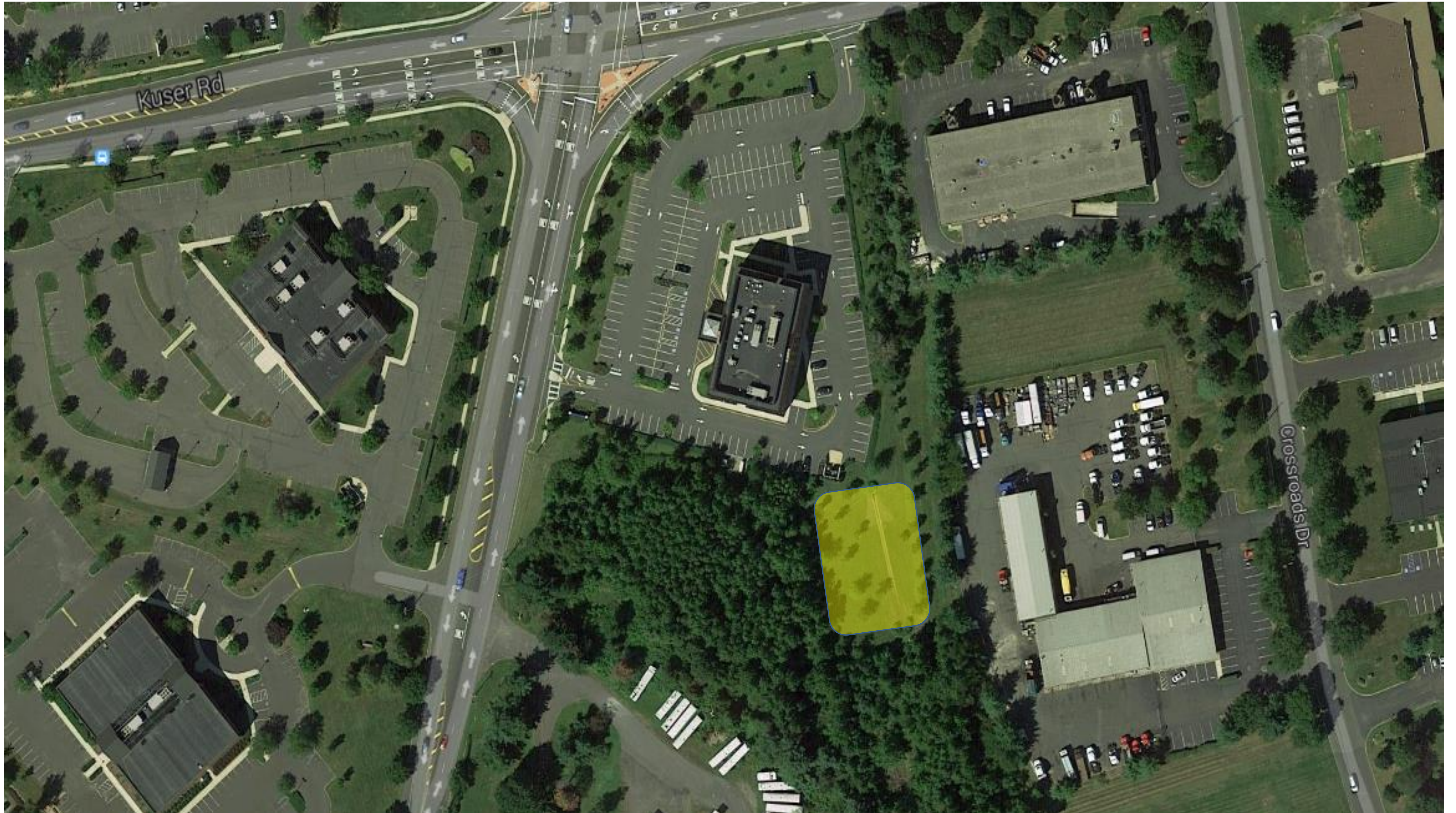
Swale exiting basin

Notes:

- Access blocked due to high voltage fence
- Swale outside of fence has standing water and traces of oil
- Swale directs water extremely close to electric utility box

Hamilton Township
Stormwater Basin Assessment
198.Kuser Road Commercial Basin

Address:
2501 Kuser Rd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
198.Kuser Road Commercial Basin

Address:
2501 Kuser Rd
Hamilton Township, NJ 08610



Overview of basin



Low flow channel leading to outlet

Notes:

- Excess sediment and standing water in low flow channel near outlet
- Outfall leads to stream
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

199. Commerce Way Commercial Basin

Address:
160 Commerce Way
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
199. Commerce Way Commercial Basin

Address:
160 Commerce Way
Hamilton Township, NJ 08610



Basin bottom looking southwest



Notes:

- Outlet orifice is clogged due to excess debris, litter, and sediment
- Outlet structure has cracks and breakage
- Ponding water in basin bottom
- One inlet has exposed wire due to erosion



Standing water in low flow channel

Hamilton Township
Stormwater Basin Assessment

200. APL Logistics Detention Basin

Address:
401 Carbot Dr
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

200. APL Logistics Swale

Address:
401 Carbot Dr
Hamilton Township, NJ 08691



Gullying near west end of swale



Overview of swale

Notes:

- Traces of iron in swale bottom
- Gullying near west end of swale

Hamilton Township
Stormwater Basin Assessment

201. Goddard School Detention Basin (A)

Address:
2468 Kuser Rd
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment

201. Goddard School Detention Basin (A)

Address:
2468 Kuser Rd
Hamilton Township, NJ 08690



Rip rap, debris, and leaves are restricting the flow of water in inlet



Sediment in low flow channel



Debris, litter, and sediment accumulation near inlet



Invasive turf has accumulated in low flow channel

Notes:

- Invasive turf accumulated in low flow channel
- Rip rap, debris, and leaves are restricting the flow of water in both inlets
- Excess sediment accumulated in low flow channel
- Outlet orifice is clogged with sediment and invasive vegetation

Hamilton Township
Stormwater Basin Assessment

201. Goddard School Detention Basin (B)

Address:
2468 Kuser Rd
Hamilton Township, NJ 08690



Hamilton Township Stormwater Basin Assessment

201. *Goddard School Detention Basin (B)*

Address:
2468 Kuser Rd
Hamilton Township, NJ 08690



Basin overview looking south



Inlet



Grass clippings accumulated near outlet structure



Eroded embankment

Notes:

- Basin has inlets directed to a retention pond, which overflows into a detention basin
- Outlet structure appeared clogged with sediment
- Standing water near outlet structure due to excessive grass clipping accumulation
- Both inlets have vegetative growth near
- Erosion occurring near gabion wall retrofit

Hamilton Township
Stormwater Basin Assessment

202. Weber Scientific Detention Basin

Address:
2740 Kuser Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
202. Weber Scientific Detention Basin

Address:
2740 Kuser Rd
Hamilton Township, NJ 08691



Basin bottom looking west



Standing water in basin bottom



Low flow channel

Notes:

- Inlet piping coming from roof runoff
- Deteriorated landscape fabric as low flow channel
- Sediment accumulation and standing water in basin bottom
- Outlet structure was clogged with sediment and debris

Hamilton Township
Stormwater Basin Assessment
203. Schwan's Detention Basin

Address:
2740 Kuser Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
203. Schwan's Detention Basin

Address:
2740 Kuser Rd
Hamilton Township, NJ 08691



Basin overview looking north



Low flow channel

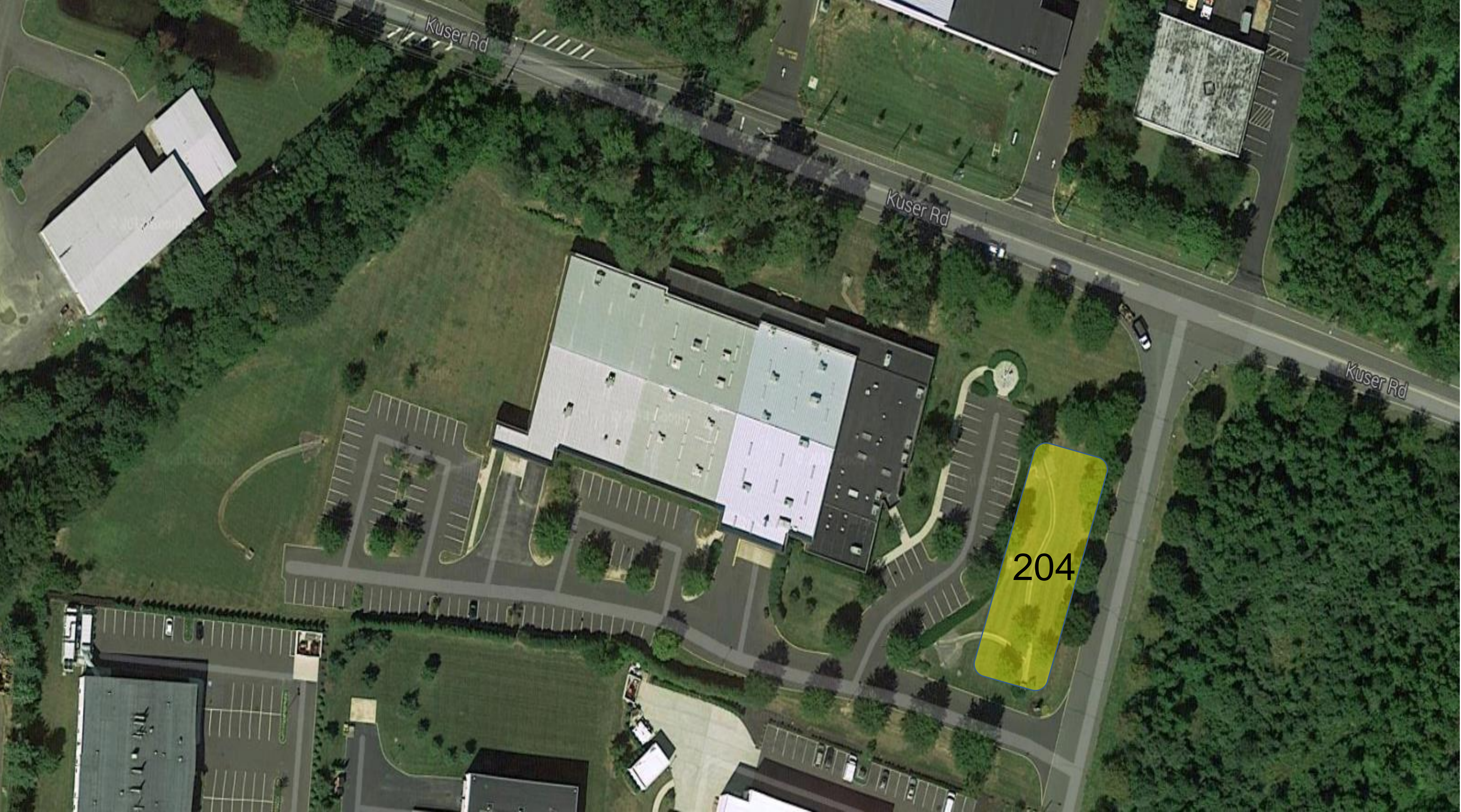
Notes:

- Low flow channel has overgrown turf
- Some sediment accumulation near inlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

204. KNF Detention Basin

Address:
2 Black Forest Rd
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
204. KNF Detention Basin

Address:
2 Black Forest Rd
Trenton, NJ 08619



Basin overview



Outlet structure

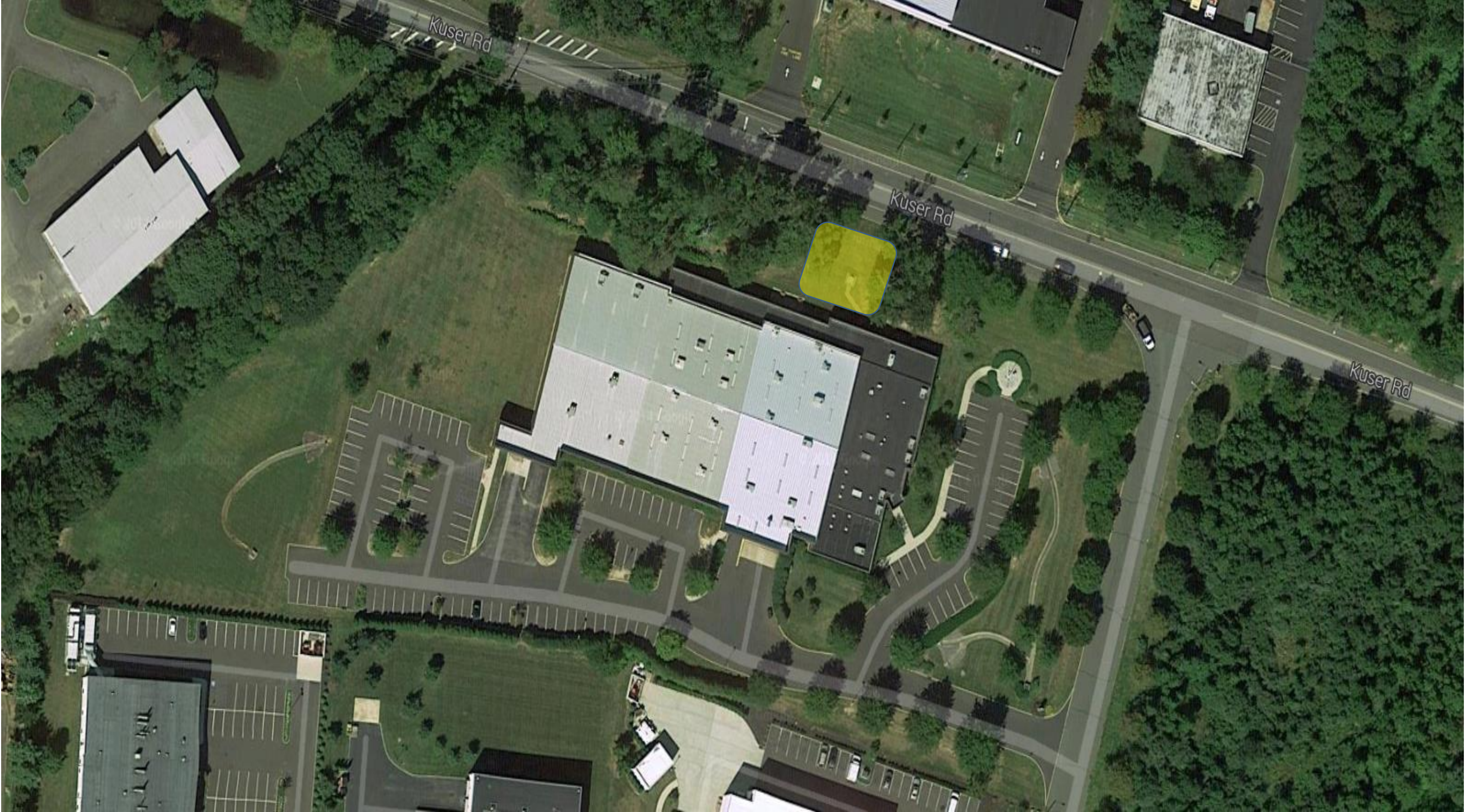
Notes:

- Leaf and sediment accumulation near outlet structure
- Some cracks near lower end of outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

205. KNF Detention Basin

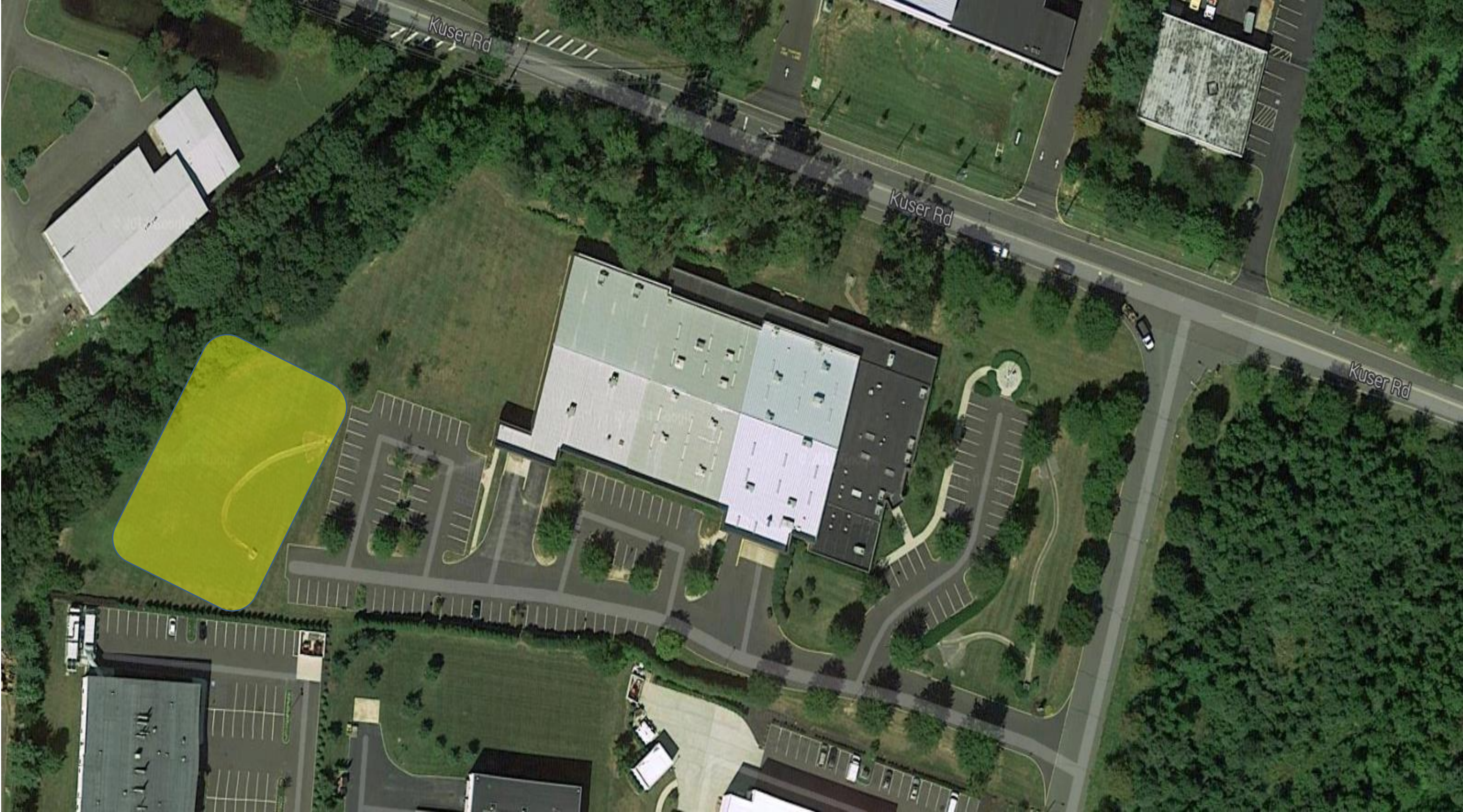
Address:
2 Black Forest Rd
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment

206. KNF Detention Basin

Address:
2 Black Forest Rd
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment
206. KNF Detention Basin

Address:
2 Black Forest Rd
Trenton, NJ 08619



Sediment in low flow channel



Basin Overview



Outlet structure

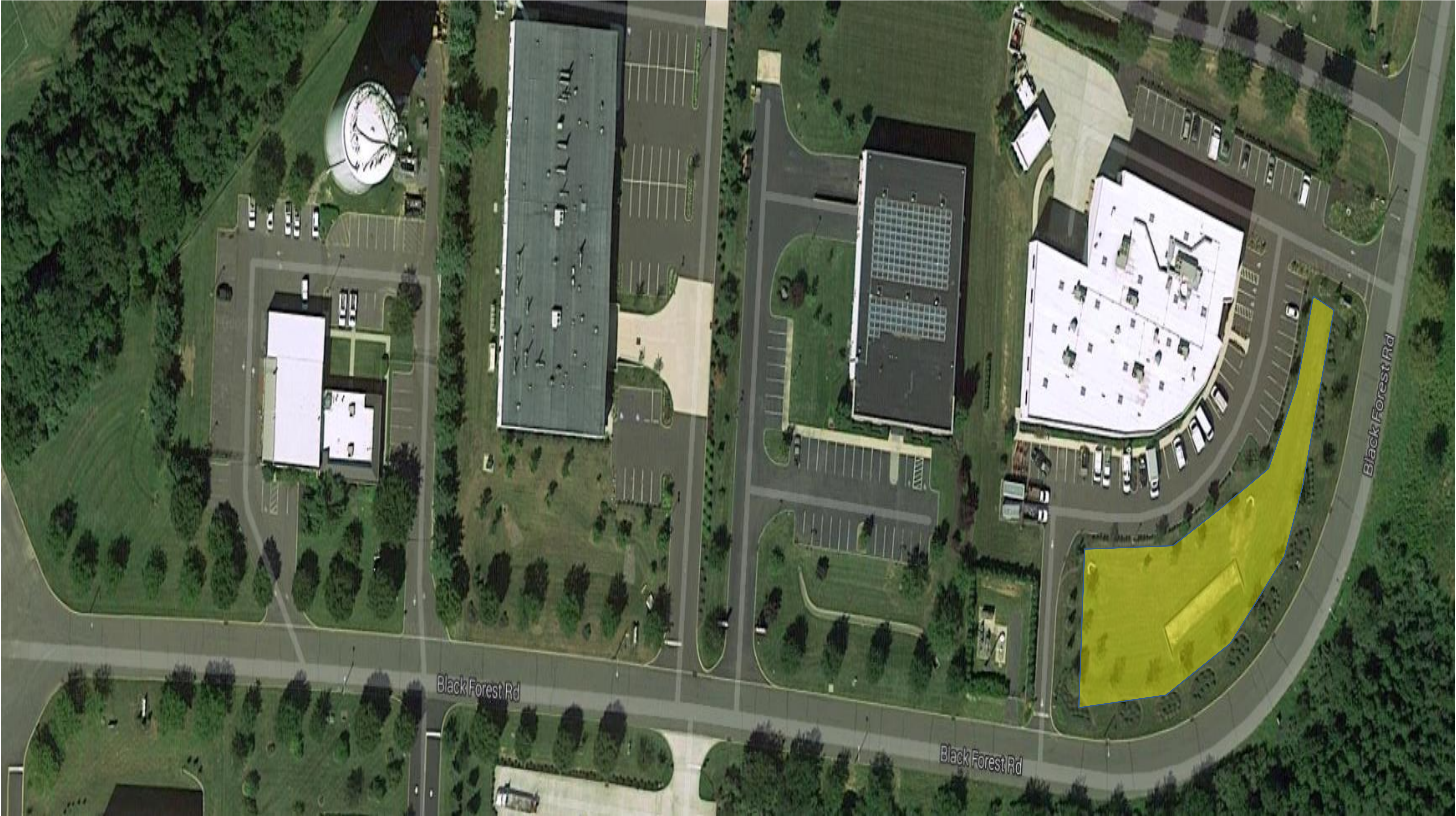
Notes:

- Excess sediment in low flow channel
- Leaves, debris, and sediment accumulation near outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

207. Sherute LLC Detention Basin

Address:
4 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
207. Sherute LLC Detention Basin

Address:
4 Black Forest Rd
Hamilton Township, NJ 08691



Inlet



Overview of basin



Exposed earth by inlet

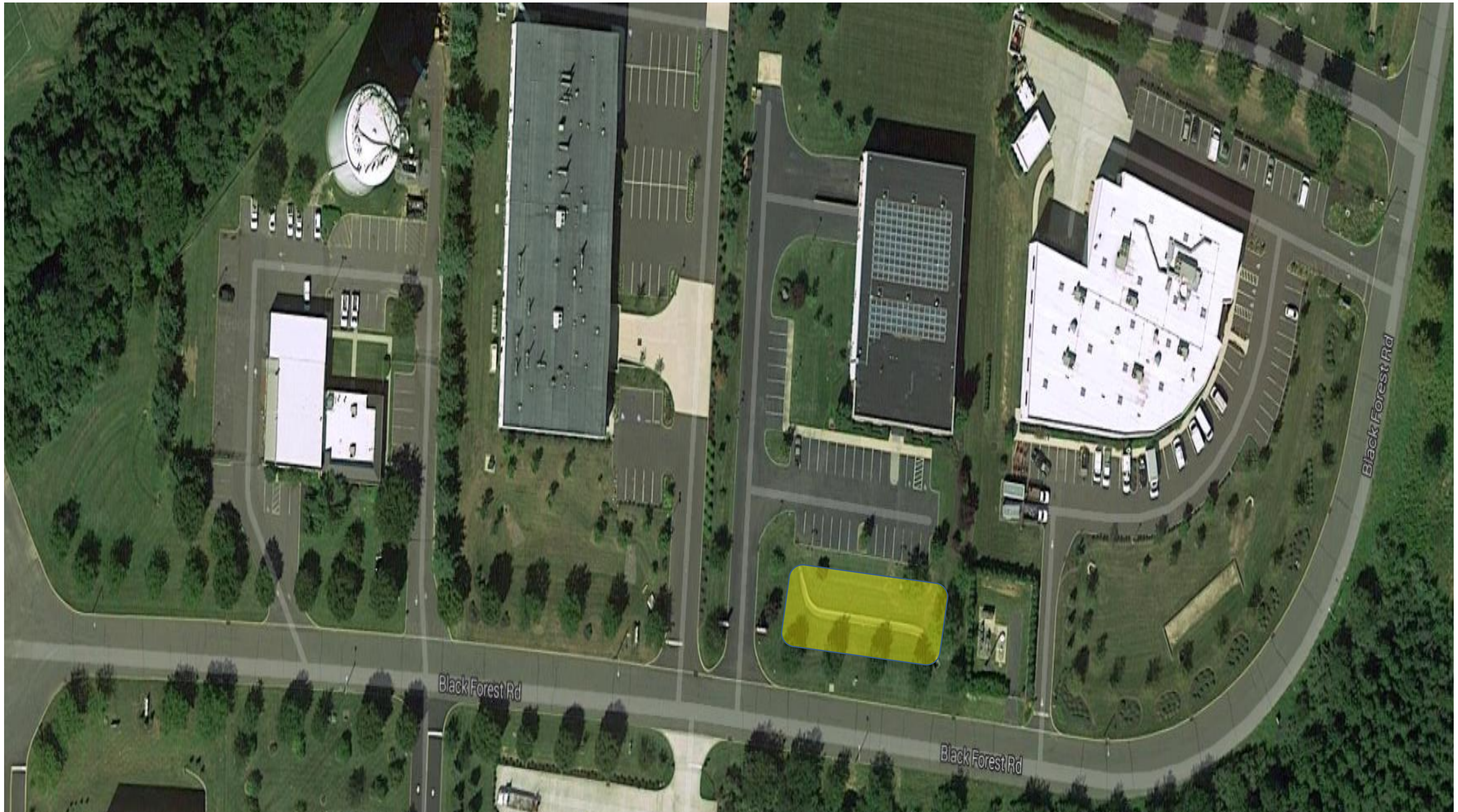
Notes:

- Infiltration basin with stone wall providing additional detention time
- Grass clippings, sediment, and standing water near both inlets
- Leeches present in the standing water near western inlet
- Outlet made of poured concrete

Hamilton Township
Stormwater Basin Assessment

208. Black Forest Realty Partners Detention Basin

Address:
6 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

208. Black Forest Realty Partners Detention Basin

Address:
6 Black Forest Rd
Hamilton Township, NJ 08691



Front view of trash rack



Top view of outlet structure



Inlet

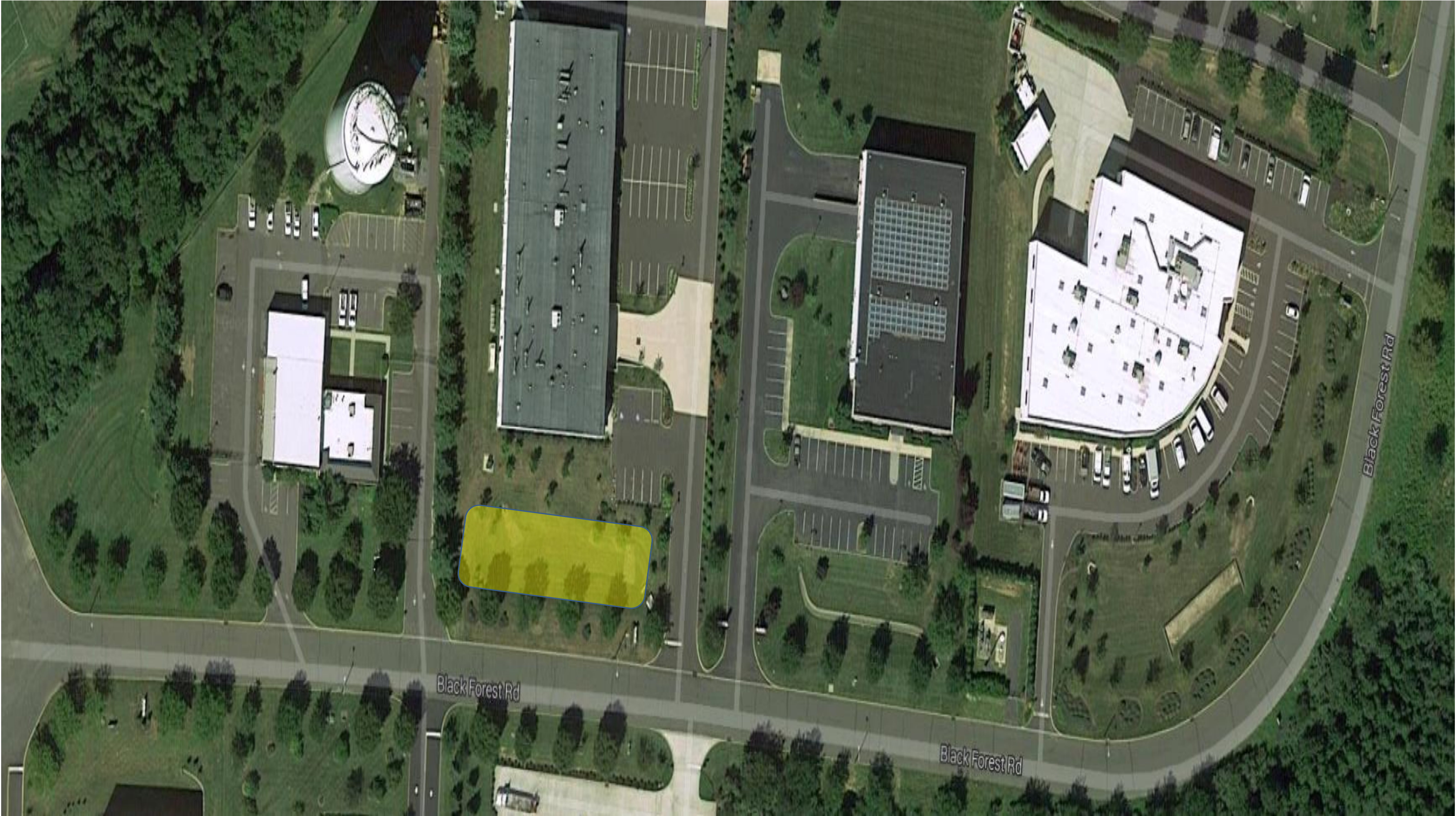
Notes:

- Exposed earth in basin bottom
- Excess sediment in basin bottom
- Secondary spillway is missing top grate
- Trash rack is clogged with leaves and debris
- Standing water near outlet structure

Hamilton Township
Stormwater Basin Assessment

209. Venenum Detention Basin

Address:
8 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
209. Venenum Detention Basin

Address:
8 Black Forest Rd
Hamilton Township, NJ 08691



Inlet



Outlet



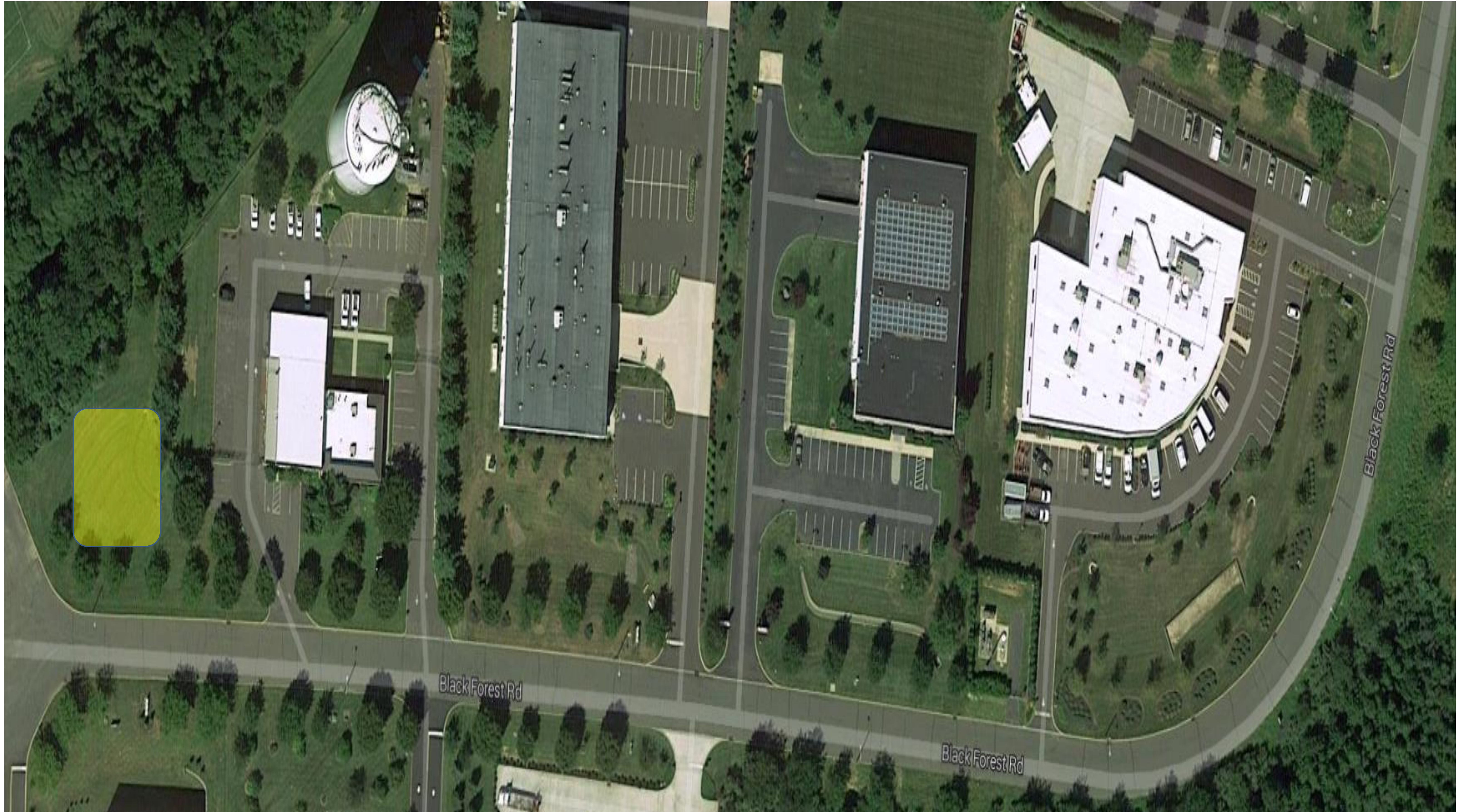
Inlet

Notes:

- Newly constructed basin
- Standing water near inlets and outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
210. Aqua Detention Basin

Address:
10 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
210. Aqua Detention Basin

Address:
10 Black Forest Rd
Hamilton Township, NJ 08691



Inlet



Overview of basin



Outlet

Notes:

- Sediment and standing water in low flow channel
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

211. Industrial Park Detention Basin

Address:
17 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

211. Industrial Park Detention Basin

Address:
17 Black Forest Rd
Hamilton Township, NJ 08691



Outlet



Low flow channel



Inlet

Notes:

- Sediment accumulation in low flow channel
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
212. Commercial Detention Basin

Address:
15 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
212. Commercial Detention Basin

Address:
15 Black Forest Rd
Hamilton Township, NJ 08691



Inlet



Low flow channel



Outlet

Notes:

- Excessive turf grass growing near low flow channel
- Sediment and standing water in low flow channel
- Outlet made of concrete blocks

Hamilton Township
Stormwater Basin Assessment

213. ECT Manufacturing Detention Basin

Address:
11 Black Forest Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
213. ECT Manufacturing Detention Basin

Address:
11 Black Forest Rd
Hamilton Township, NJ 08691



Outlet



Inlet



Inlet

Notes:

- Standing water near outlet and northwestern inlet
- Sediment accumulated near outlet
- Basin is connected to another basin
- Basin bottom has accumulated debris

Hamilton Township
Stormwater Basin Assessment
214. CCL Detention Basin

Address:
100 N Gold Dr
Robinsville, NJ 08691



Hamilton Township
Stormwater Basin Assessment
214. CCL Detention Basin

Address:
100 N Gold Dr
Robinsville, NJ 08691



Outlet structure



Inlet



Front view of outlet structure

Notes:

- Heavy erosion around outlet structure
- Standing water in low flow channel and near outlet orifice
- Outlet orifice appears to be retrofitted

Hamilton Township
Stormwater Basin Assessment

215. Princeton Women's Services Detention Basins

Address:
1305 Kruser Rd
Trenton, NJ 08619



Hamilton Township
Stormwater Basin Assessment

216. Richard C. Crockett Middle School Detention Basin

Address:
2631 Kruser Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

216. Richard C. Crockett Middle School Detention Basin

Address:
2631 Kruser Rd
Hamilton Township, NJ 08691



Inlet



Inlet



Degraded outlet structure

Notes:

- Overgrown/excess sediment in low flow channel and near inlets
- Excess sediment accumulated in basin bottom
- Exposed wire and standing water inside outlet structure
- Excessive debris accumulated near outlet structure

Hamilton Township
Stormwater Basin Assessment

217. AAA Mid-Atlantic Detention Basins

Address:
700 Horizon Dr
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
217. AAA Mid-Atlantic Detention Basins

Address:
700 Horizon Dr
Hamilton Township, NJ 08691



Top View of Outlet



Outlet



Inlet

Notes:

- Older outlet made of concrete blocks
- Rusted steel grate
- Erosion and slumping around outlet
- Infiltration basin – appears to be functioning properly
- Meadows growing in basin bottom near all inlet structures
- Connected to swale north of Horizon Drive

Hamilton Township
Stormwater Basin Assessment

218. AAA Mid-Atlantic Detention Basins

Address:
700 Horizon Dr
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
218. AAA Mid-Atlantic Detention Basins

Address:
700 Horizon Dr
Hamilton Township, NJ 08691



Outlet



Inlet



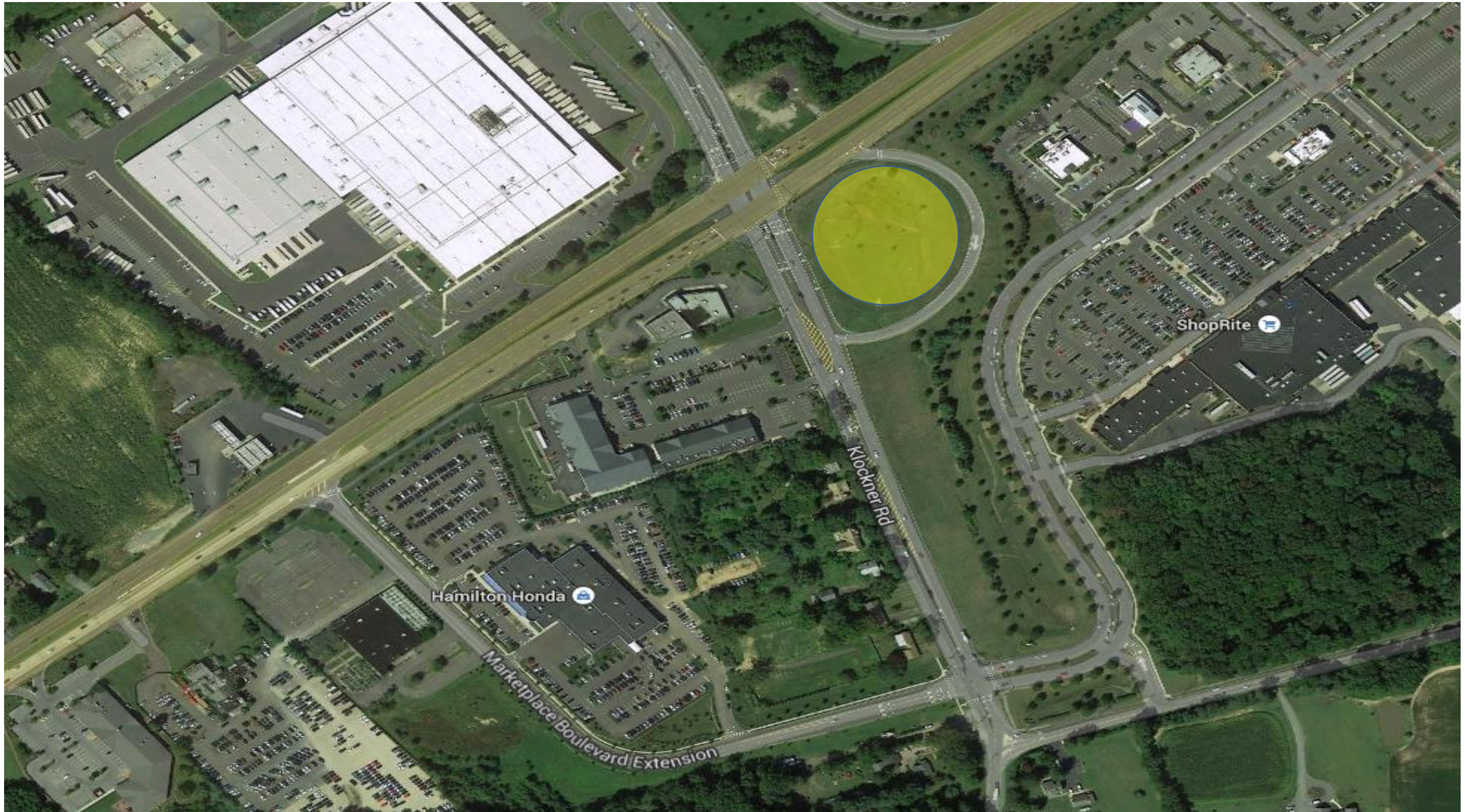
Low Flow Channel

Notes:

- Low flow channel is overgrown and broken
- Low flow channel has excess sediment and standing water
- Outlet has sediment accumulation and strong odor problems

Hamilton Township
Stormwater Basin Assessment
219. Route US-130 Detention Basin

Address:
691 US-130
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
219. Route US-130 Detention Basin

Address:
691 US-130
Hamilton Township, NJ 08691



Inlet



Sediment accumulation



Outlet

Notes:

- Standing water in low flow channel
- Sediment in basin bottom and low flow channel
- Inlets are overgrown and have excess accumulated sediment
- Standing water in outlet structure
- Excess sediment and invasive turf grass near outlet

Hamilton Township
Stormwater Basin Assessment
220. ShopRight Detention Basin

Address:
3801 Klockner Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
220. ShopRight Detention Basin

Address:
3801 Klockner Rd
Hamilton Township, NJ 08691



Above inlet



Outlet



Standing water near inlet

Notes:

- Standing water in basin bottom and low flow channel
- Flooding occurs near inlet rip-rap
- Erosion along sides of outlet structure
- Outlet structure has strong odor due to sediment accumulation

Hamilton Township
Stormwater Basin Assessment

221. Ross Dress for Less Detention Basin (A)

Address:
69 Edgebrook Rd
Robbinsville, NJ 08691



Hamilton Township
Stormwater Basin Assessment

221. Ross Dress for Less Detention Basin (A)

Address:
69 Edgebrook Rd
Robbinsville, NJ 08691



Inlet



Outlet



Exposed wire

Notes:

- Standing water in low flow channel
- Riprap near inlets has standing water
- Northeastern inlet has exposed wire
- Area around inlets are eroded

Hamilton Township
Stormwater Basin Assessment

221. Ross Dress for Less Detention Basin (B)

Address:
69 Edgebrook Rd
Robbinsville, NJ 08691



Hamilton Township
Stormwater Basin Assessment

221. Ross Dress for Less Detention Basin (B)

Address:
69 Edgebrook Rd
Robbinsville, NJ 08691



Standing water



Outlet looking east



Top view of outlet

Notes:

- All inlets are eroded
- Standing water in low flow channel
- Rip-rap portion near inlets have standing water
- Oil and standing water near outlet
- Sediment accumulation near outlet causes standing water

Hamilton Township
Stormwater Basin Assessment

222. Kohl's Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
222. Kohl's Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Outlet



Low Flow Channel



Inlet

Notes:

- Erosion around inlets
- Standing water, sediment, and debris in low flow channel
- Minimal cracks in low flow channel
- Oil traces near outfall area
- Sediment accumulated near outlet

Hamilton Township
Stormwater Basin Assessment
223. Walmart Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
223. Walmart Detention Basin



Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Low flow channel



Outlet



Standing water near inlet

Notes:

- Standing water and traces of oil in low flow channel
- Outlet is constructed of poured concrete
- Standing water near outlet
- Strong odor near outlet structure

Hamilton Township
Stormwater Basin Assessment
224. Chick-Fil-A Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
224. Chick-Fil-A Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Outlet



Overgrown rip-rap near inlet



Low flow channel

Notes:

- Standing water, sediment, and overgrown turf grass in low flow channel
- Erosion around inlet structures
- Rip-rap near inlet is covered with sediment
- Erosion inside and around outlet structure
- Outlet structure area has strong odor
- Basin outfall area is overgrown with woody plants and vines

Hamilton Township
Stormwater Basin Assessment
225. US-130 Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
225. US-130 Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Inlet



Outlet



Low Flow Channel

Notes:

- Sediment and standing water in low flow channel
- Erosion around inlets
- Erosion inside and around outlet
- Sediment and debris accumulated in front of outlet

Hamilton Township
Stormwater Basin Assessment
226. Cracker Barrel Detention Basin

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
226. Cracker Barrel Detention Basin



Low flow channel



Rip-rap by inlet

Address:
Marketplace Blvd
Hamilton Township, NJ 08691



Outlet

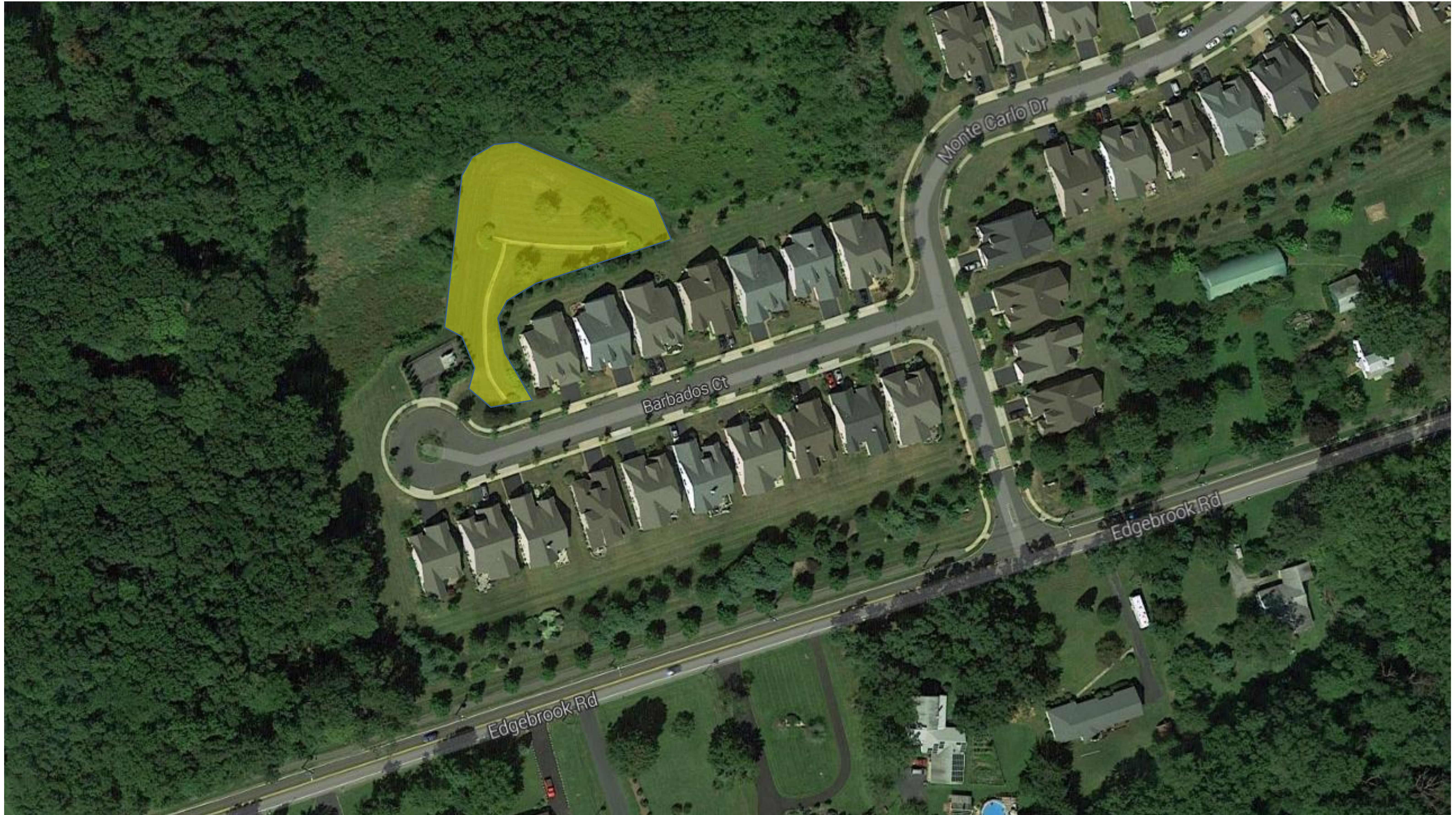
Notes:

- Portion of low flow channel has standing water
- Sediment in low flow channel
- Standing water in basin bottom
- Excessive sediment near outlet structure
- Standing water near outlet structure
- Erosion around and inside outlet structure
- Outlet area has strong odor

Hamilton Township
Stormwater Basin Assessment

227. Barbados Court Residential Detention Basin

Address:
14 Barbados Ct
Robbinsville, NJ 08691



Hamilton Township
Stormwater Basin Assessment

228 & 229. Monte Carlo Drive Residential Detention Basins

Address:
39 Monte Carlo Dr
Robbinsville, NJ 08691



Hamilton Township
Stormwater Basin Assessment

230. US Postal Service Carrier Annex Detention Basin

Address:
435 US 130 N
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
230. US-130 Commercial Detention Basin

Address:
467 NJ-156
Hamilton Township, NJ 08620



Outlet



Basin overview



Inlet

Notes:

- Oil and excess sediment settling near inlet
- Outlet garbage rack broken
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

231. Jimarie Court Residential Basin

Address:
21 Jimarie Ct
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
231. Jimarie Court Residential Basin

Address:
21 Jimarie Ct
Hamilton Township, NJ 08620



Outlet



Basin overview



Inlet

Notes:

- Tree branches leaning in front of inlet
- Leaves, debris, and sediment accumulating near outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
232. Betsy Court Residential Basin

Address:
7 Betsy Ct
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
232. Betsy Court Residential Basin

Address:
7 Betsy Ct
Hamilton Township, NJ 08620



Low flow channel



Basin overview



Outlet

Notes:

- Sediment accumulation in low flow channel and near outlet structure
- Sections of exposed earth in basin bottom
- Overall well maintained

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

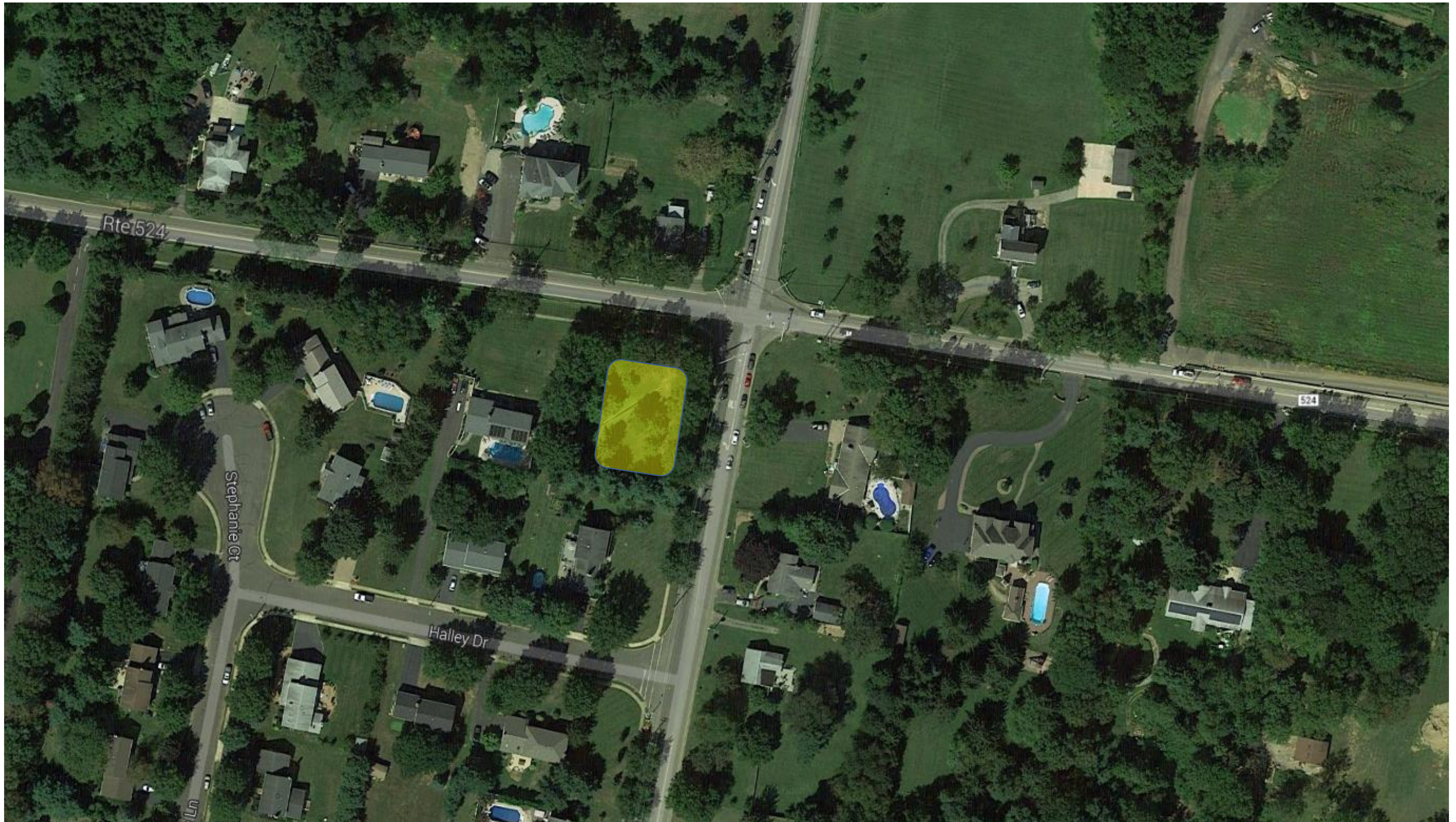
Notes:

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

Hamilton Township
Stormwater Basin Assessment

235. Cross-Ham Road Residential Basin

Address:
4450 Crosswicks Hamilton Square Rd
Trenton, NJ 08691



Hamilton Township
Stormwater Basin Assessment
235. Cross-Ham Road Residential Basin

Address:
4450 Crosswicks Hamilton Square Rd
Trenton, NJ 08691



Basin overview



Inlet



Metal grate in low flow channel



Low flow channel

Notes:

- Sediment and turf grass covering low flow channel
- Turf grass growing near outlet orifice
- Two metal grates were found out of place in the basin

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

Notes:

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

Hamilton Township
Stormwater Basin Assessment
238. Weathersfield Drive Residential Basin

Address:
9 Weathersfield Dr
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

239. Adam's Party Rental Detention Basin

Address:
154 Turnbull Ave
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
239. Adam's Party Rental Detention Basin

Address:
154 Turnbull Ave
Hamilton Township, NJ 08610



Severe ponding in basin



Obstructed inlet



Overgrown curbcut



Eroded swale bottom

Notes:

- Outlet structure is clogged with debris and sediment
- Inlet pipe has excessive sediment accumulation and overgrown turf
- Curb-cut leading to basin from parking lot is eroded and overgrown
- Swale bottom leading to basin is eroded

Hamilton Township
Stormwater Basin Assessment
240. Sound Auto Detention Basin

Address:
131 Turnbull Ave
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
240. Sound Auto Detention Basin

Address:
131 Turnbull Ave
Hamilton Township, NJ 08610



Basin overview



Inlet structure

Notes:

- Minor sediment accumulation near inlet
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

241. Hamilton Tavern Detention Basin

Address:
154 Turnbull Ave
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
241. Hamilton Tavern Detention Basin



Address:
154 Turnbull Ave
Hamilton Township, NJ 08610



Basin overview looking northeast



Erosion near eastern embankment



Downspout inlet

Notes:

- Low flow channel is overgrown with turf grass
- Gullying below downspout inlet on eastern berm of basin
- Erosion near eastern embankment

Hamilton Township
Stormwater Basin Assessment
242. Edgebrook Road Detention Basin

Address:
79 Edgebrook Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
242. Edgebrook Road Detention Basin

Address:
79 Edgebrook Rd
Hamilton Township, NJ 08691



Inlet



Outlet



Low flow channel

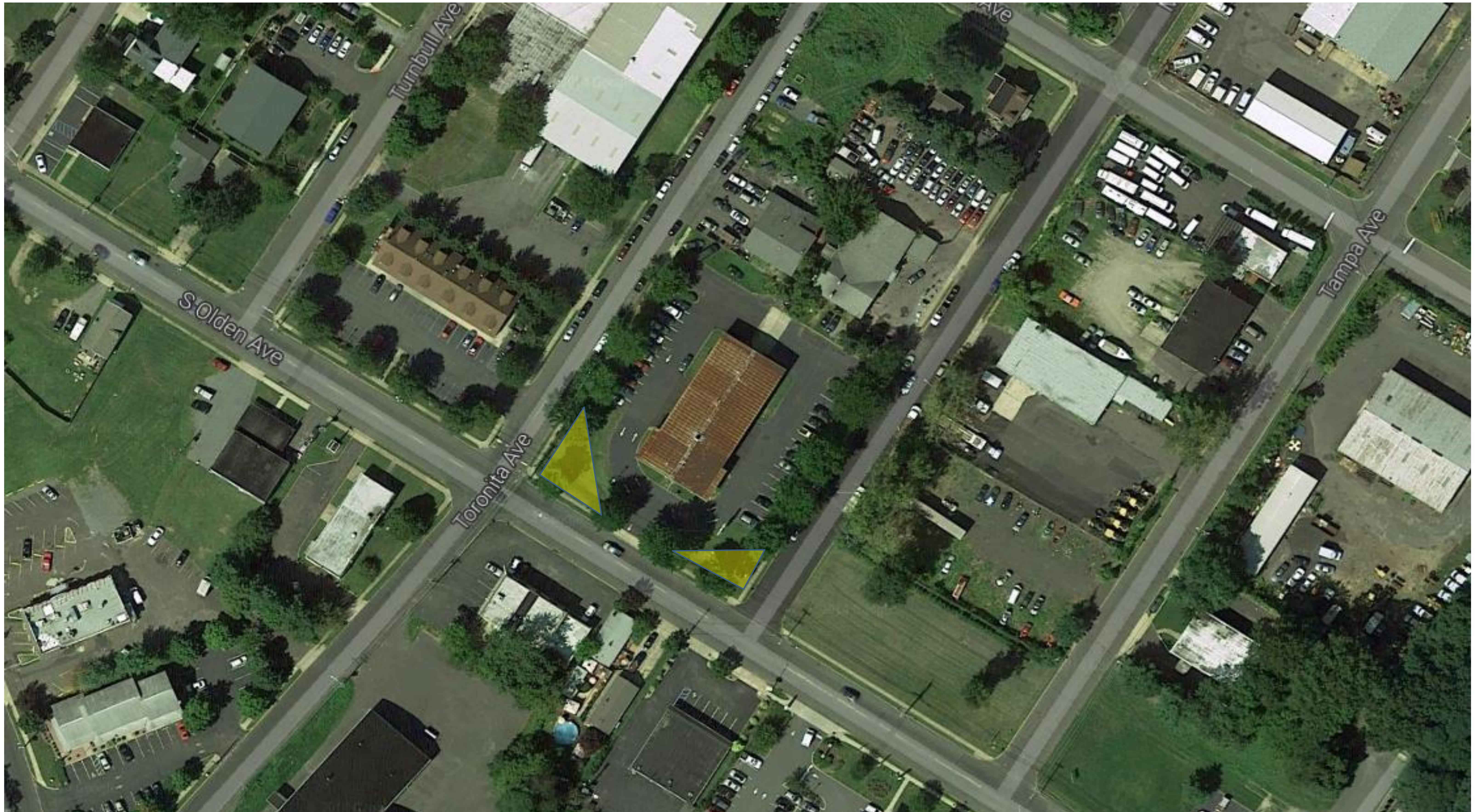
Notes:

- Erosion near inlet and outlet
- Sediment and traces of oil in low flow channel
- Sediment and trash accumulated near outlet structure
- Exposed earth near outlet structure

Hamilton Township
Stormwater Basin Assessment

243. Good Year Auto Service Detention Basin

Address:
1614 S Olden Ave
Trenton, NJ 08610



Hamilton Township
Stormwater Basin Assessment

243. Good Year Auto Service Detention Basin

Address:
1614 S Olden Ave
Trenton, NJ 08610



Curb-cut from parking lot



Inlet connecting the basins



Inlet



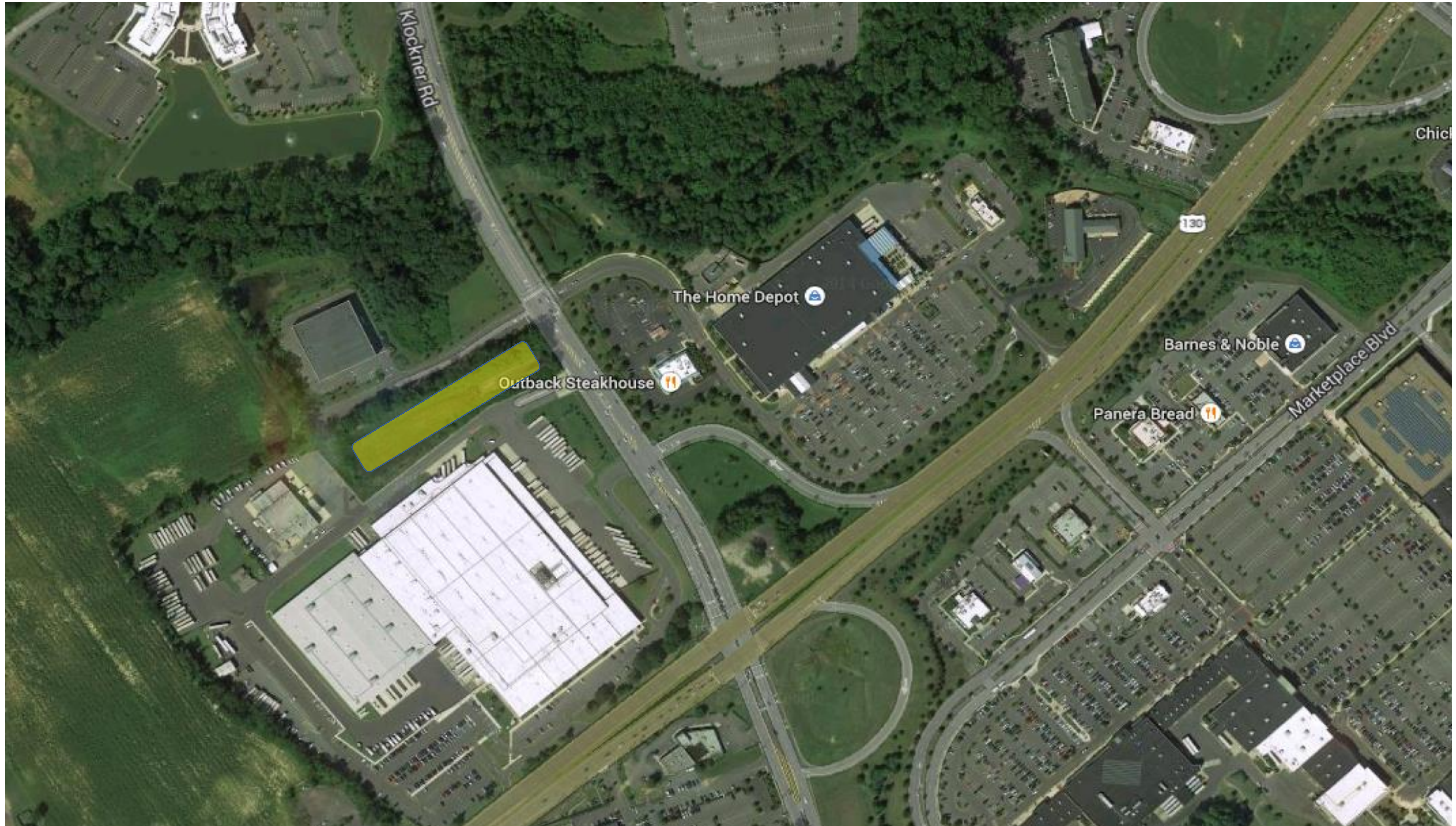
Outlet

Notes:

- Inlet and outlet are completely clogged
- Excess sediment and debris in basin bottom
- Outlet structure is structurally deteriorating

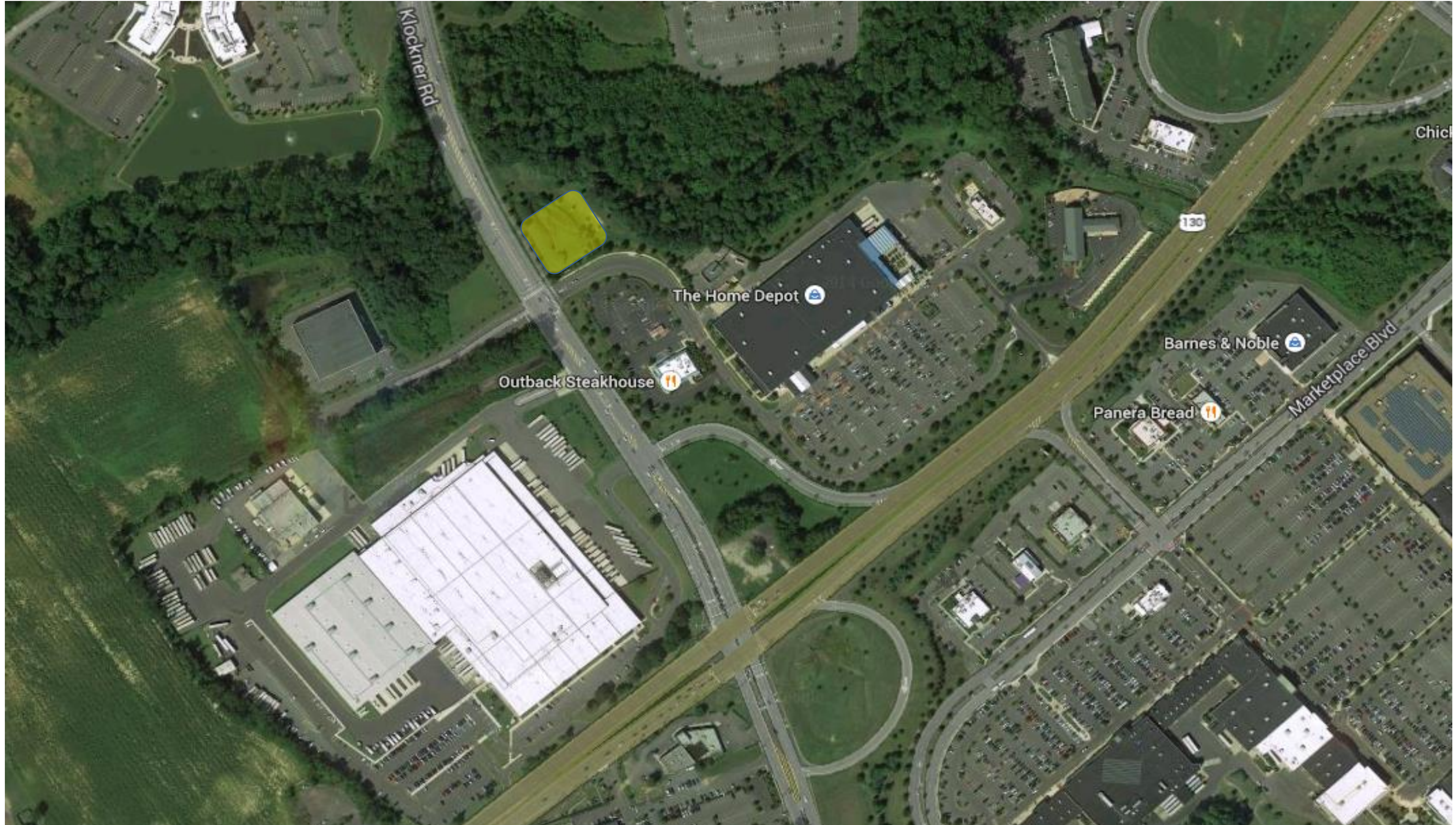
Hamilton Township
Stormwater Basin Assessment
244. US Postal Services Detention Basin

Address:
Corner of US-130 and Klockner Rd
Hamilton Township, NJ 08650



Hamilton Township
Stormwater Basin Assessment
245. Outback Steakhouse Detention Basin

Address:
Back Creek Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
245. Outback Steakhouse Detention Basin

Address:
Back Creek Rd
Hamilton Township, NJ 08691



Inlet



Outlet



Basin bottom

Notes:

- Possibly a retention pond
- Large woody vegetation in basin
- Outlet is covered with sediment and leaves
- Debris and trash has accumulated in basin bottom

Hamilton Township
Stormwater Basin Assessment

246. NJ State Police Possible Basin

Address:
1400 Negron Dr
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
247, 248, & 249. Interstate I-295 Basins

Address:
Yardville Hamilton Square Rd and I-295
Hamilton Township, NJ 08690



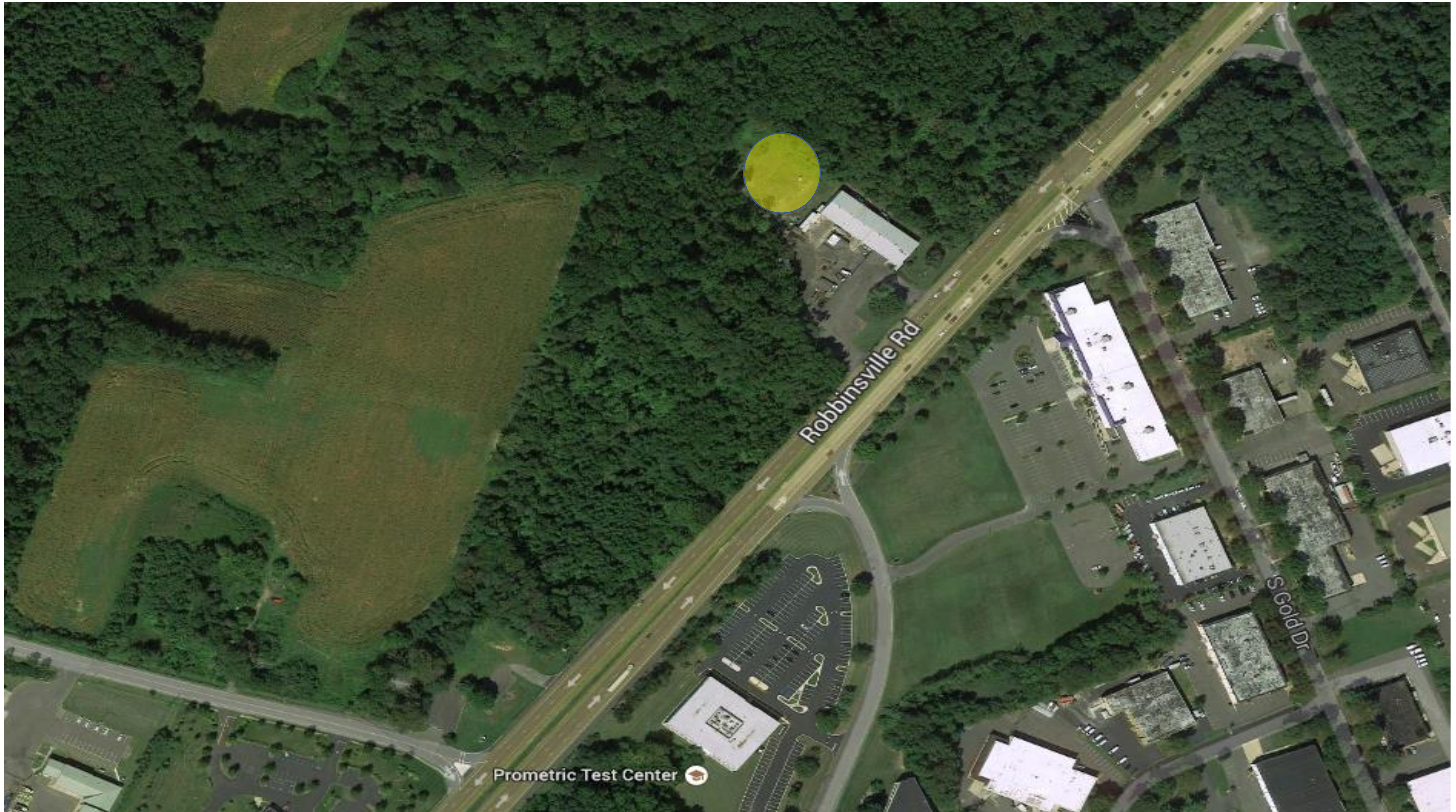
Hamilton Township
Stormwater Basin Assessment
250, 251, & 252. Interstate I-295 Basins

Address:
960 Robbinsville Rd
Hamilton Township, NJ 08691



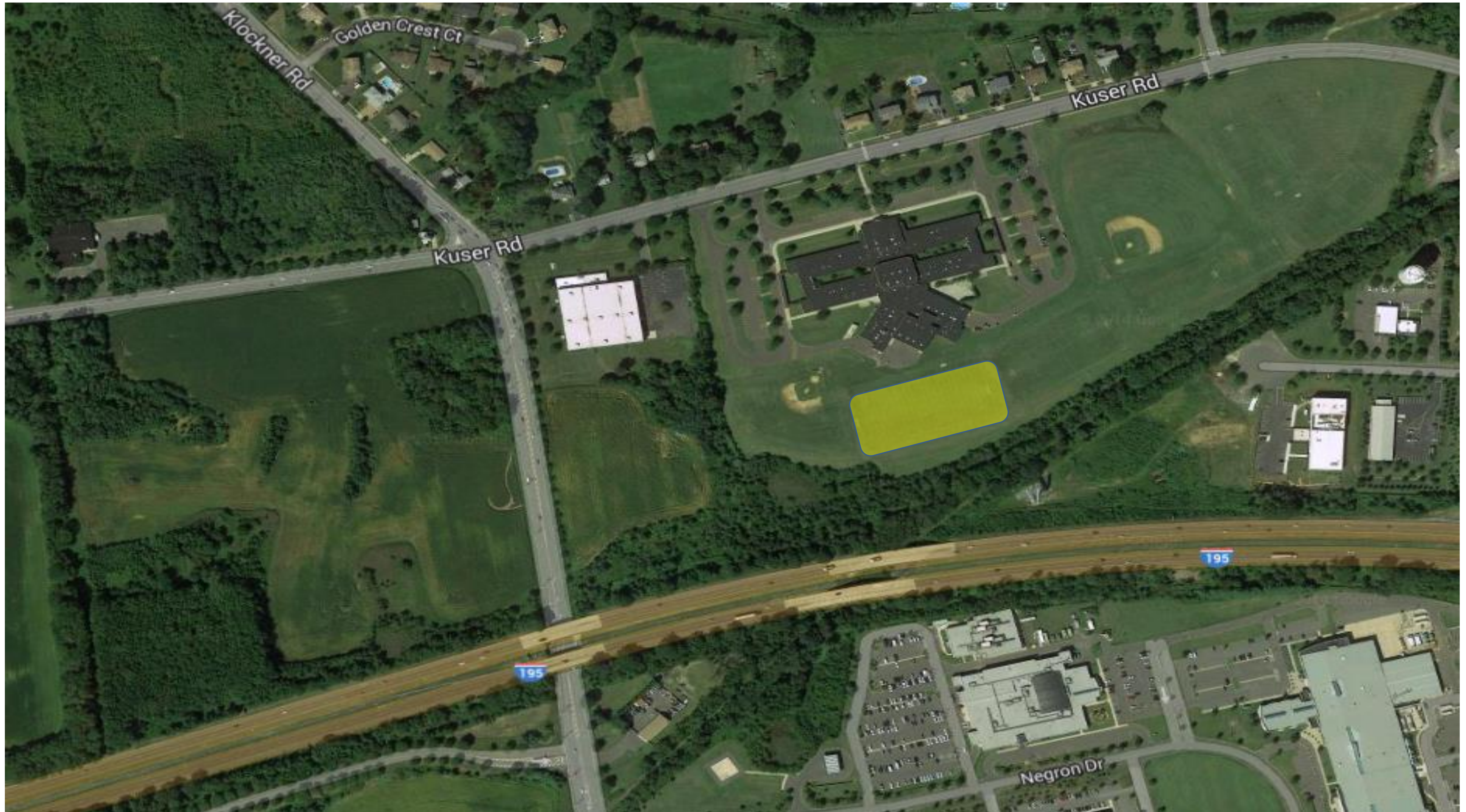
Hamilton Township
Stormwater Basin Assessment
253. Gaum Detention Basin

Address:
1080 US-130
Hamilton Township, NJ 08691



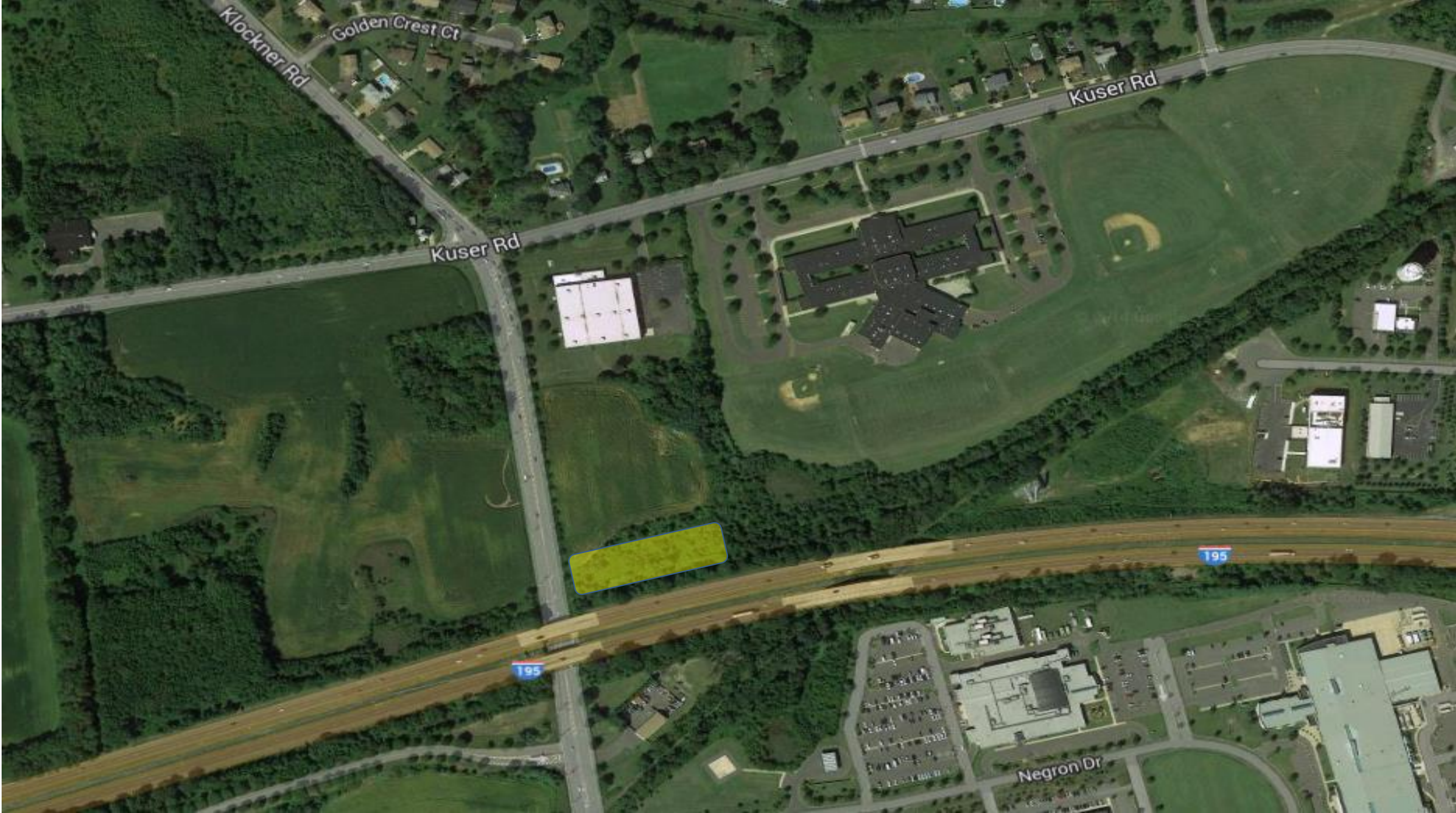
Hamilton Township
Stormwater Basin Assessment
254. Crocket Middle School Detention Basin

Address:
2631 Kuser Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
255. I-295 Detention Basin

Address:
3666 Klockner Rd
Trenton, NJ 08691



Hamilton Township
Stormwater Basin Assessment
256. Crocket Middle School Detention Basin

Address:
2631 Kuser Rd
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
256. Crocket Middle School Detention Basin

Address:
2631 Kuser Rd
Hamilton Township, NJ 08691



Overview of Basin



Outlet

Notes:

- Outlet structure is clogged with sediment and debris
- Standing water in the basin bottom
- Outlet structure is missing secondary spillway grate

Hamilton Township
Stormwater Basin Assessment

257 & 258. I-295 Detention Basins

Address:
Route 29 and I-295
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
259. High Street Residential Basin

Address:
110 High St
Hamilton Township, NJ 08611



Hamilton Township
Stormwater Basin Assessment
260. John Fitch Way Residential Basin

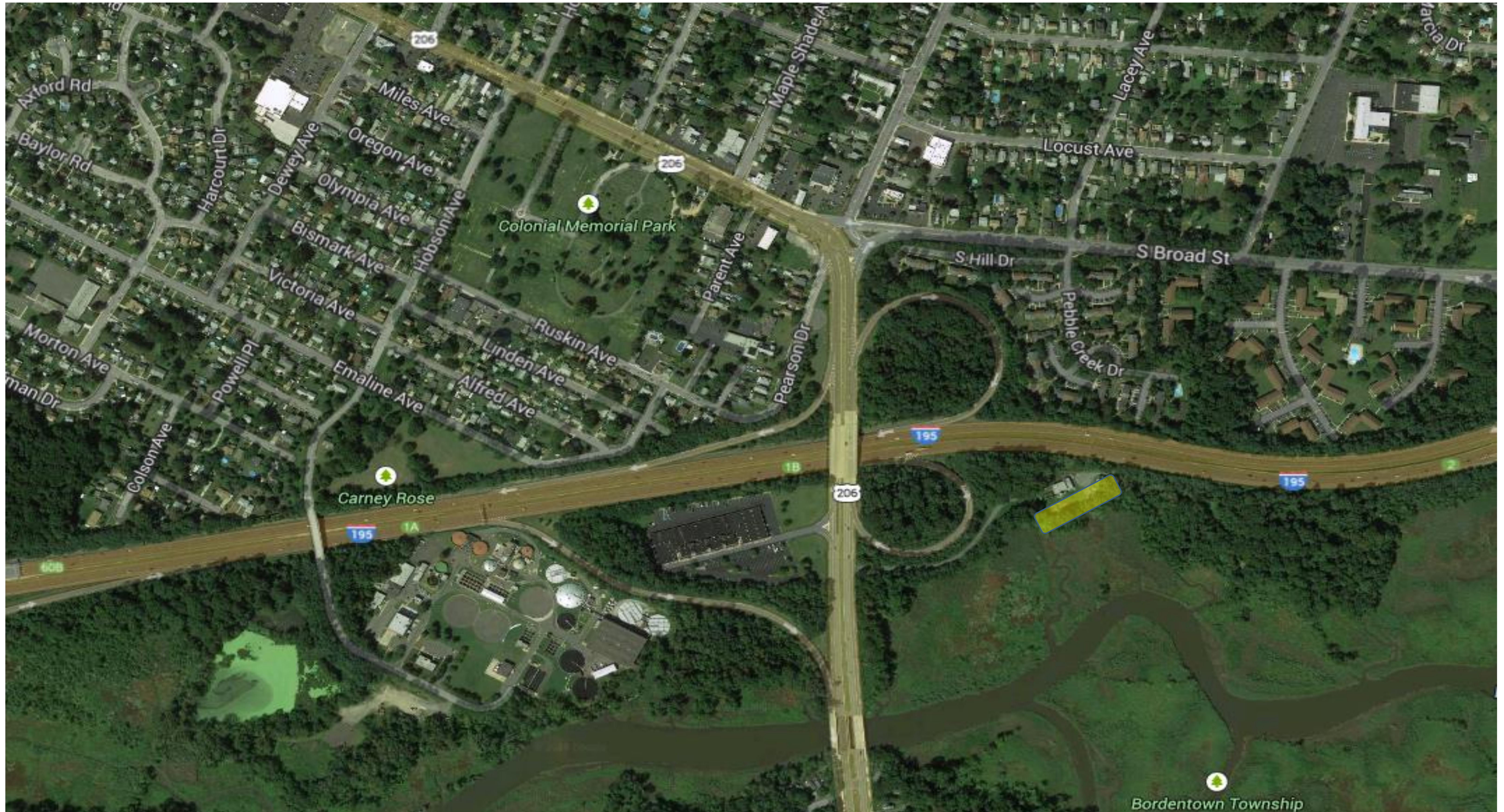
Address:
John Fitch Way
Hamilton Township, NJ 08611



Hamilton Township
Stormwater Basin Assessment

261. Robert Pearson Court Residential Basin

Address:
20 Robert Pearson Ct
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
262. Bank of America Detention Basin

Address:
3101 S Clinton Ave
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
262. Bank of America Detention Basin

Address:
3101 S Clinton Ave
Hamilton Township, NJ 08610



Basin bottom



Outlet



Inlet

Notes:

- Excess sediment accumulated in front of inlet and outlet structure
- Standing water near inlet
- Exposed earth in basin bottom

Hamilton Township
Stormwater Basin Assessment
263. Genesee Street Residential Basin

Address:
2200 Genesee St
Trenton, NJ 08610



Hamilton Township
Stormwater Basin Assessment
263. Genesee Street Residential Basin

Address:
2200 Genesee St
Trenton, NJ 08610



Basin overview



Outlet



Inlet

Notes:

- Sediment and debris has accumulated in basin bottom
- A portion of the rip-rap head wall has buckled into basin
- Inlet and outlet are clogged with sediment and debris

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



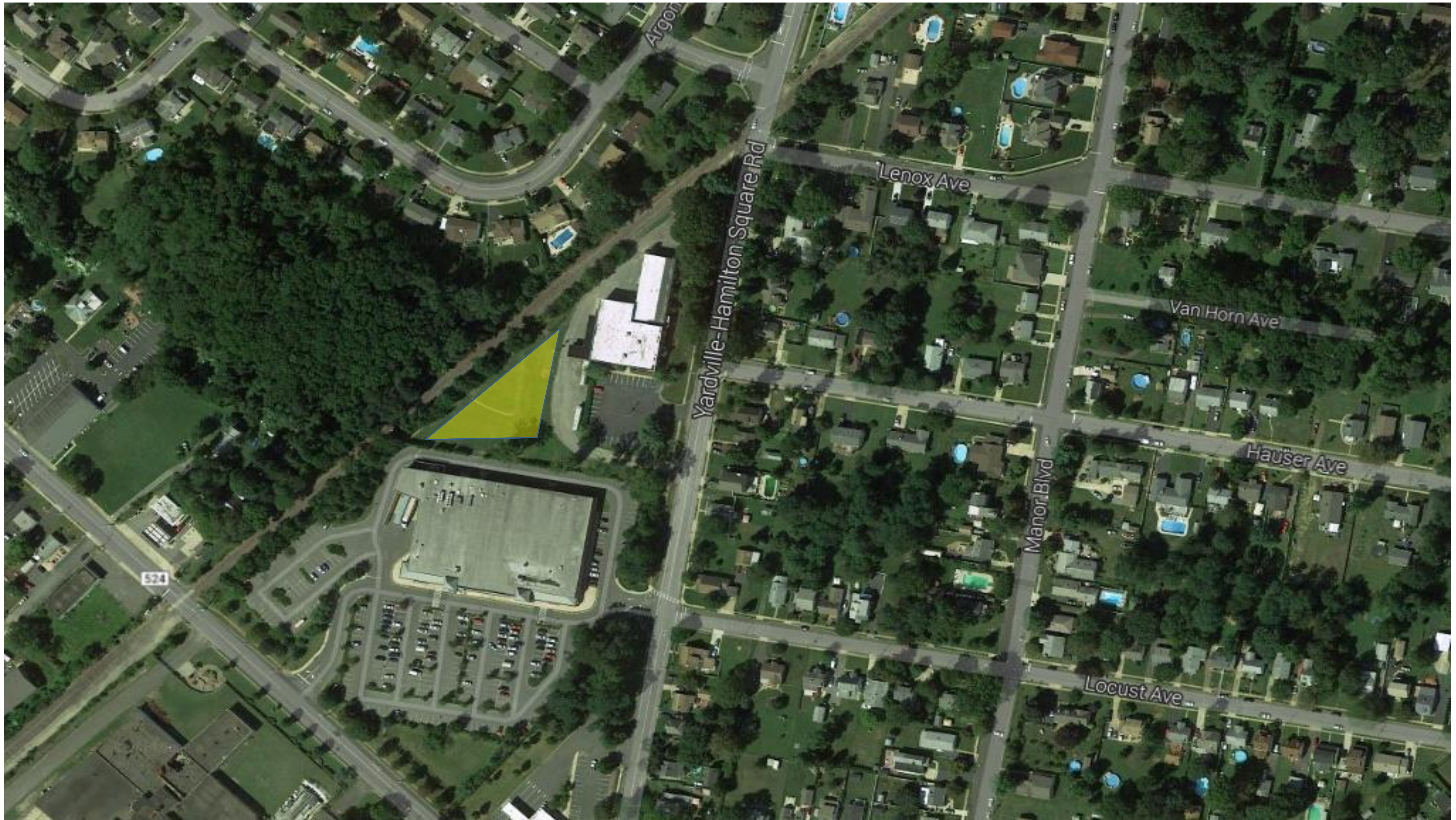
Inlet

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
265. JEK Building Detention Basin

Address:
211 Yardville Hamilton Square Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
265. JEK Building Detention Basin

Address:
211 Yardville Hamilton Square Rd
Hamilton Township, NJ 08620



Basin overview



Outlet



Inlet

Notes:

- Inlet and outlet structure are overgrown with turf grass
- Sediment accumulating in low flow channel
- Outlet is dated and structurally deteriorated

Hamilton Township
Stormwater Basin Assessment

266. ACME Super Pharmacy Detention Basin

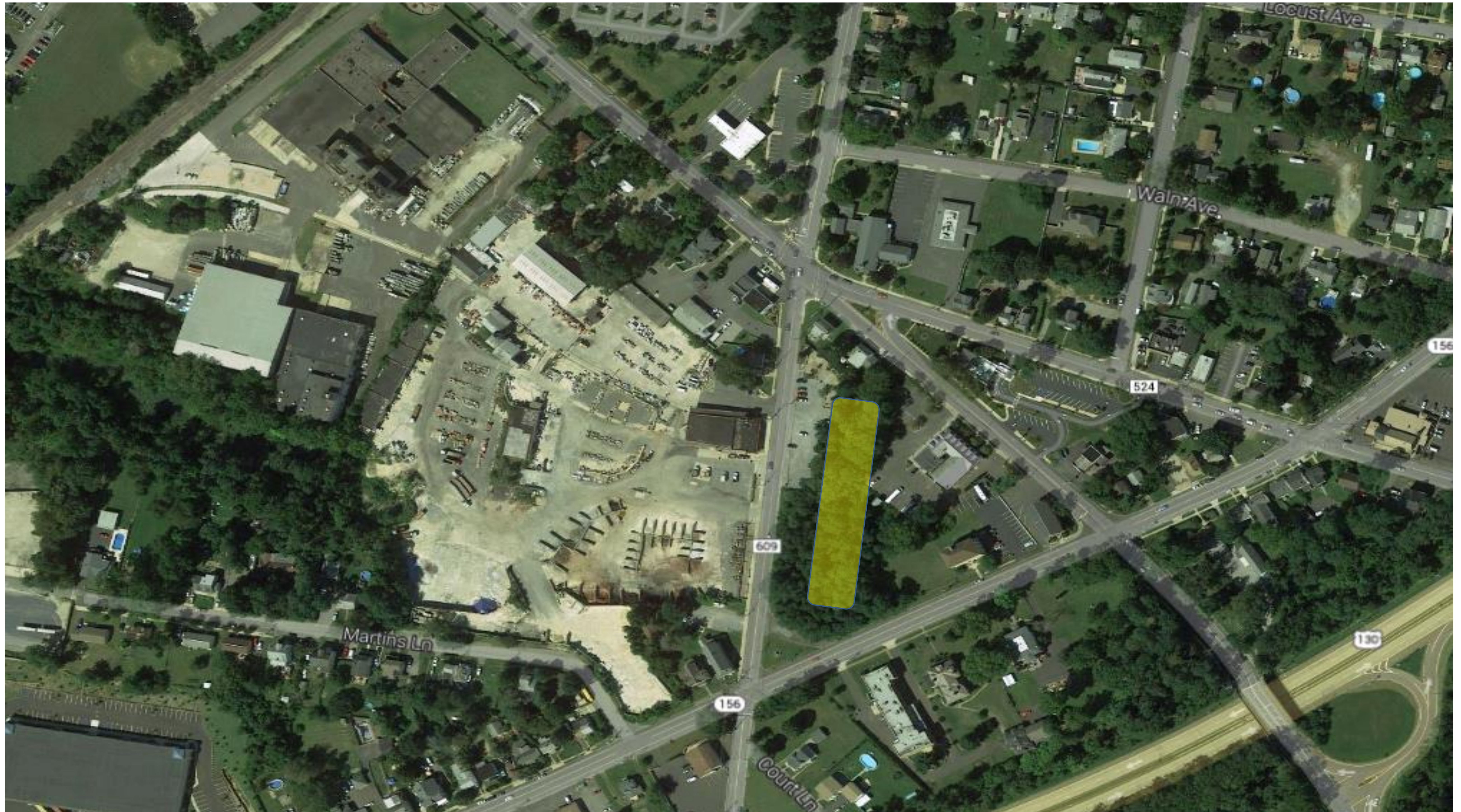
Address:
4400 S Broad St
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

267. Yardville Supply Co. ACE Detention Basin

Address:
21 Church St
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

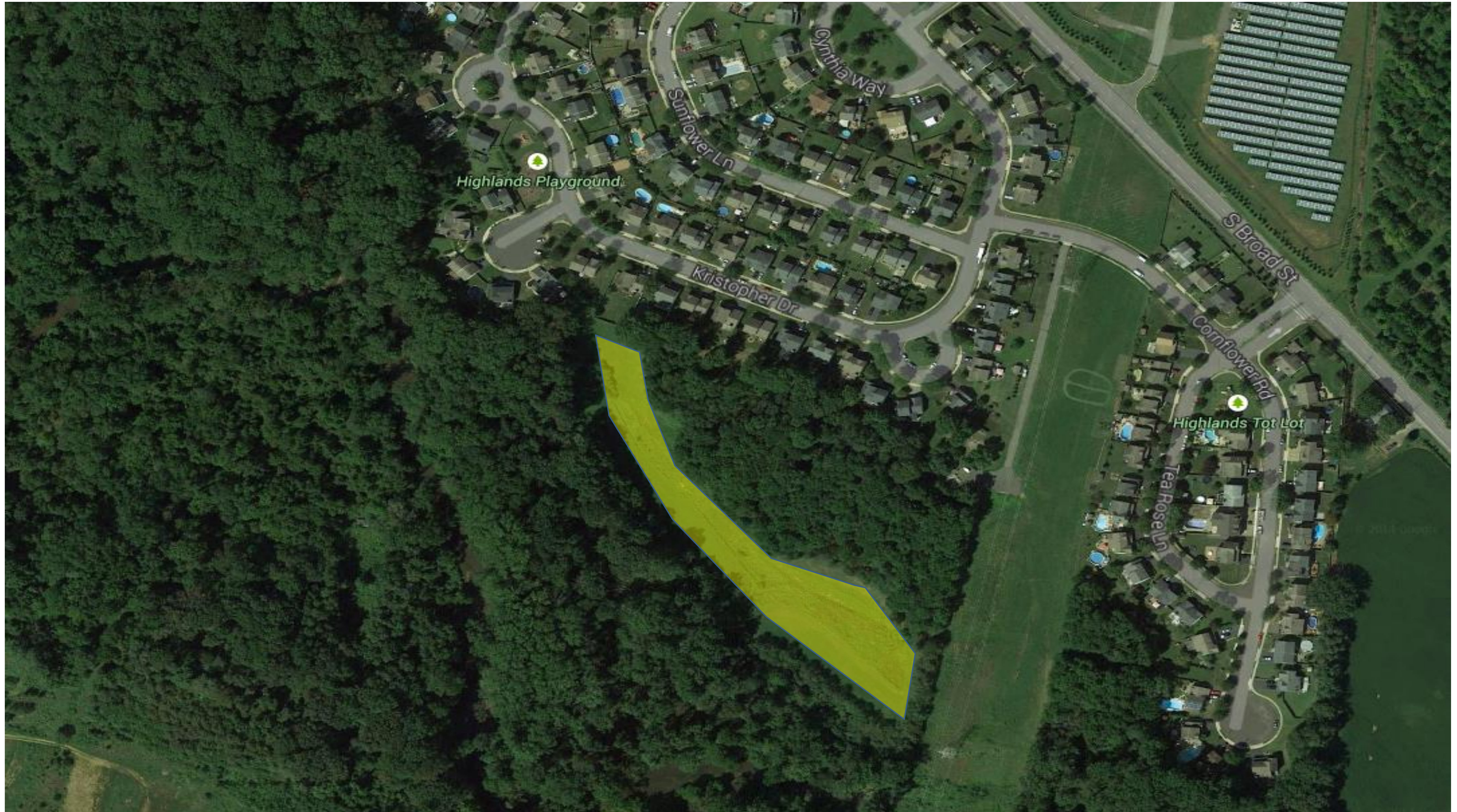
268. Hamilton Maintenance Yard Basin

Address:
2779 Kuser Rd
Hamilton Township, NJ 08691



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

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

270. Tattletown Road Detention Basin

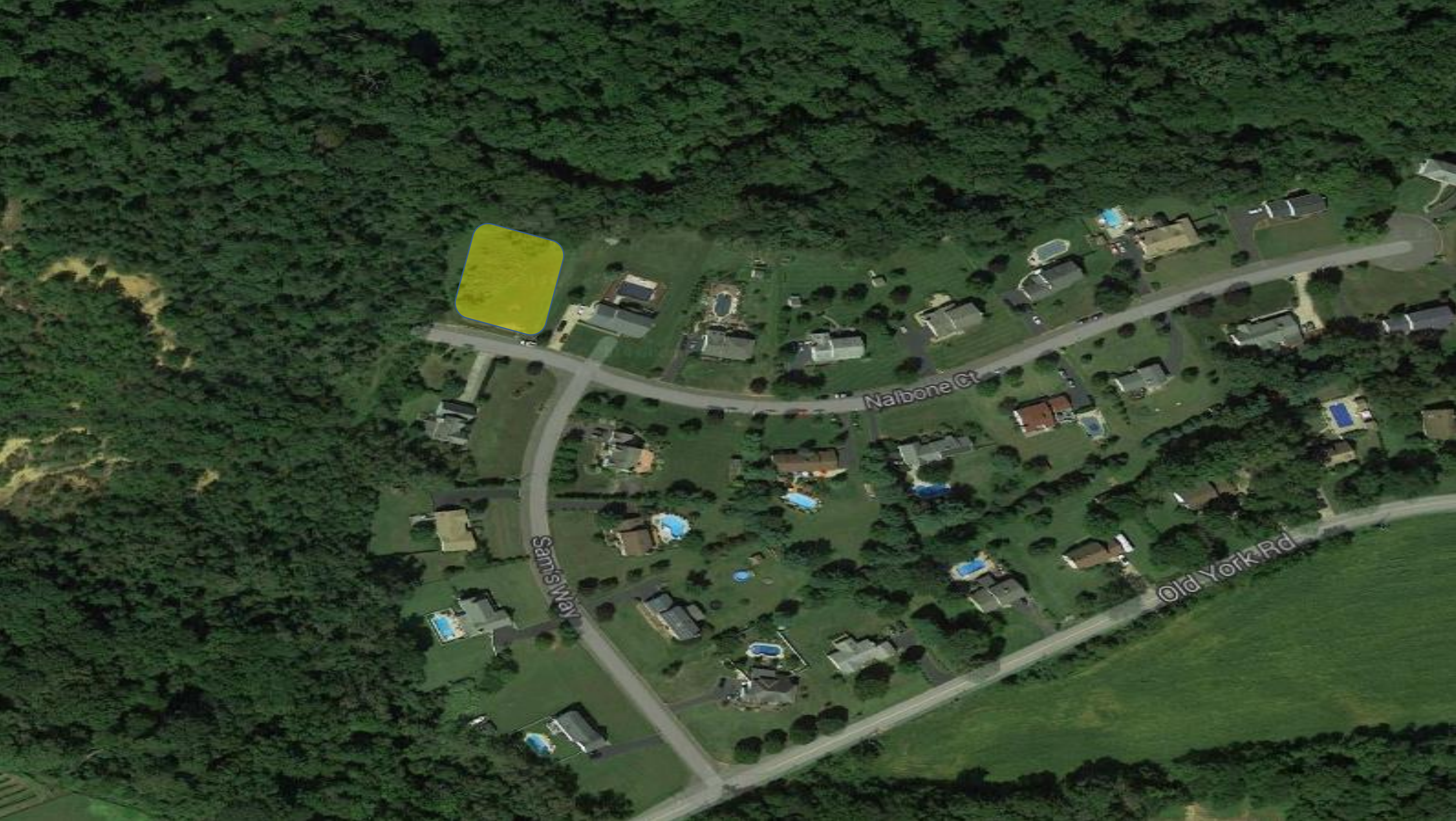
Address:
65 Tattletown Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

271. Nalbone Court Detention Basin

Address:
7 Sam's Way
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
271. Nalbone Court Detention Basin

Address:
7 Sam's Way
Hamilton Township, NJ 08620



Overview of basin

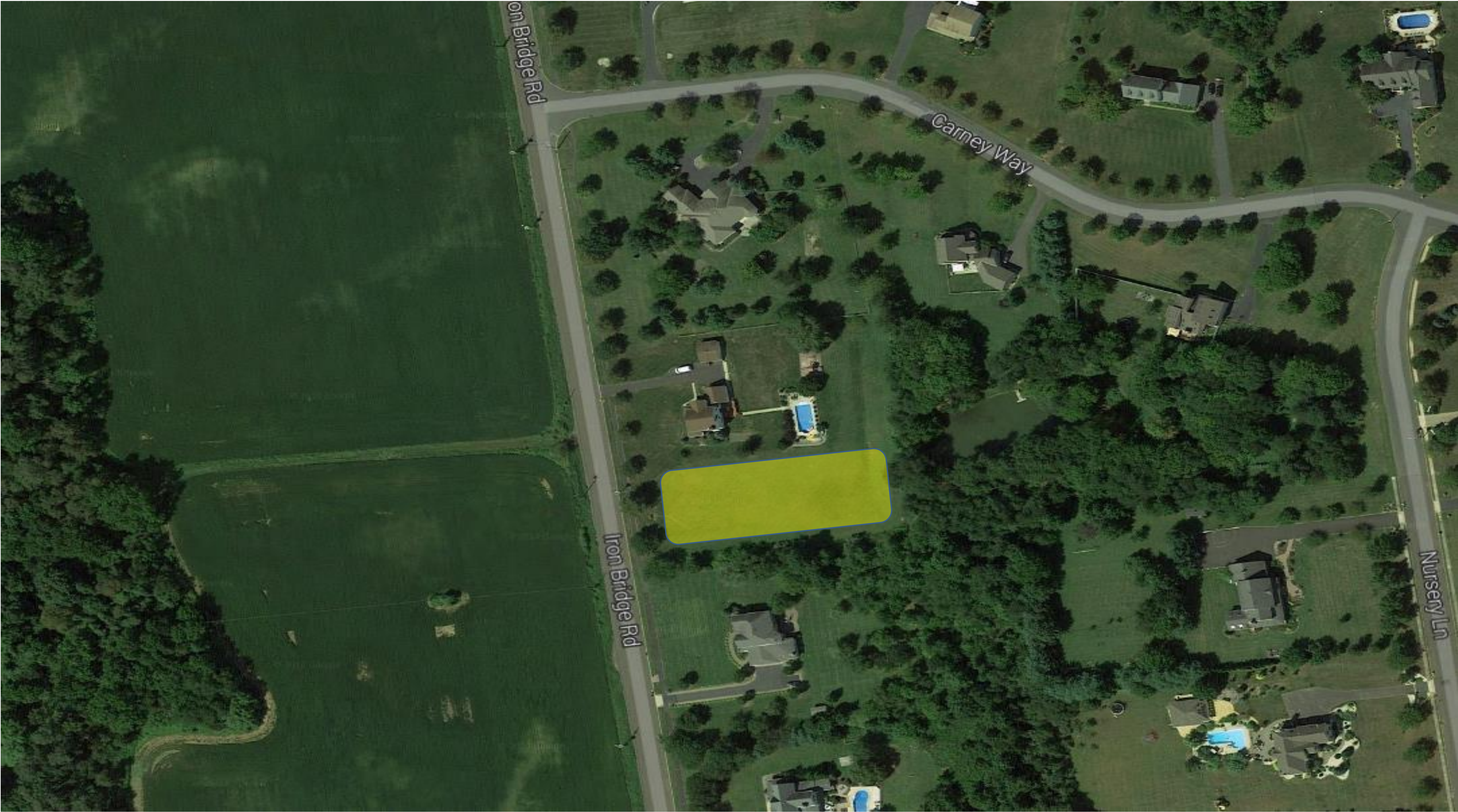
Notes:

- Unable to see inlet(s)/outlet structures due to dense vegetation
- Storm drains and curb-cuts direct water from the street into basin

Hamilton Township
Stormwater Basin Assessment

272. Iron Bridge Road Detention Basin

Address:
63 Iron Bridge Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
272. Iron Bridge Road Detention Basin

Address:
63 Iron Bridge Rd
Hamilton Township, NJ 08620



Overview of basin



Inlet



Outlet

Notes:

- Dense vegetation blocking inlet structure
- Outlet structure is cracked
- Elevated mount in basin bottom redirecting water to outlet

Hamilton Township
Stormwater Basin Assessment
273. Carney Way Detention Basin

Address:
3 Carney Way
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
274. Carney Way Detention Basin

Address:
2 Carney Way
Hamilton Township, NJ 08620



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

Address:
33 Iron Bridge Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

276. Nursery Materials & Supplies Basin

Address:
60 Extonville Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
277. Nursery Materials & Supplies Basin

Address:
60 Extonville Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

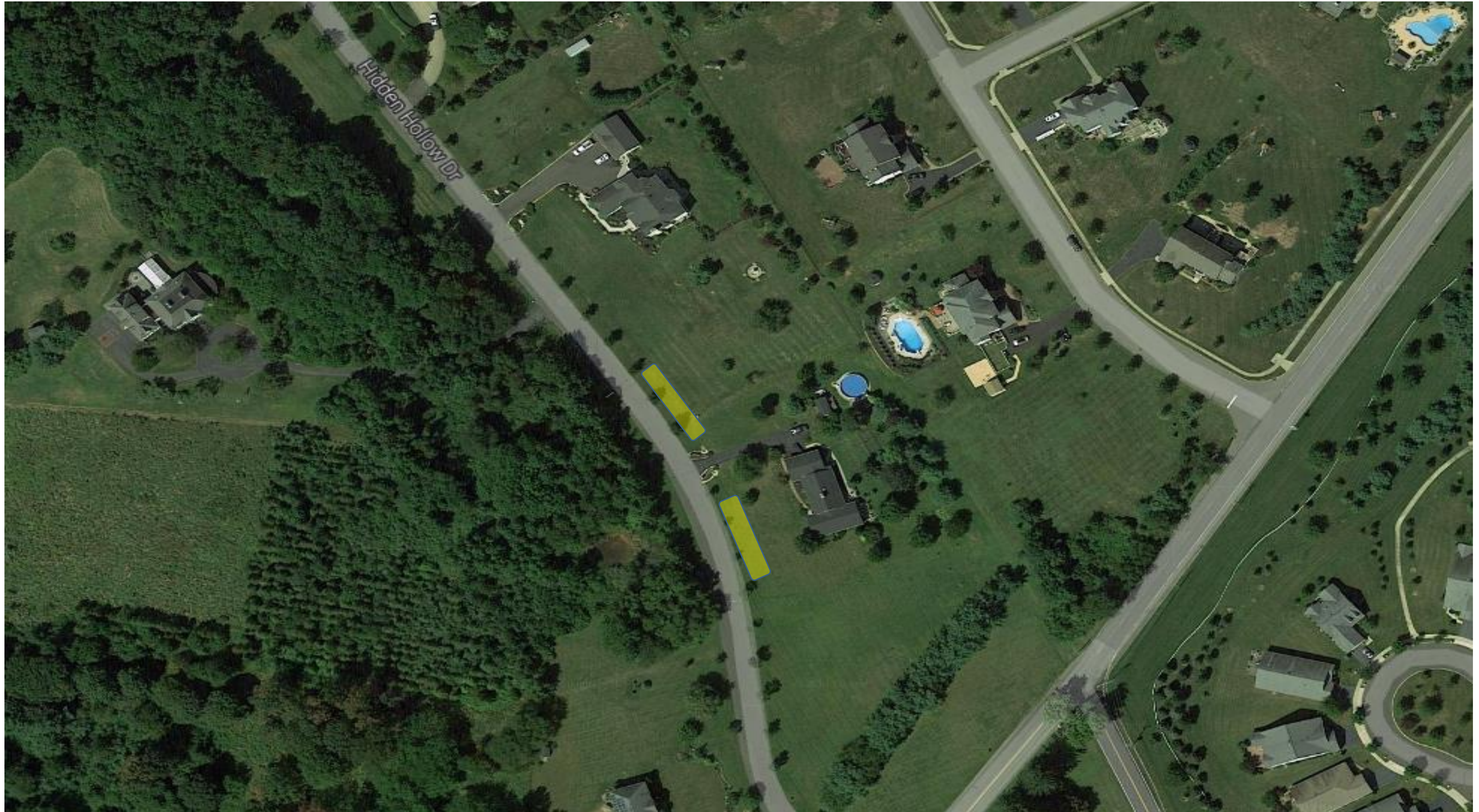
278. Extonville Road Residential Basin

Address:
9 Extonville Rd
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
279. Hidden Hollow Drive Residential Basin

Address:
1 Hidden Hollow Dr
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

280. Hidden Hollow Drive Residential Basin

Address:
8 Hidden Hollow Dr
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

281. Elliot Court Residential Basin

Address:
2 Elliot Ct
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
281. Elliot Court Residential Basin

Address:
2 Elliot Ct
Hamilton Township, NJ 08620



Exposed earth



Outlet



Inlet

Notes:

- Exposed earth in basin bottom
- Litter accumulated near outlet
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

282. Deer Path Pavilion Detention Basin

Address:
691 Rt. 130
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
282. Deer Path Pavilion Detention Basin

Address:
691 Rt. 130
Hamilton Township, NJ 08619



Overview of basin



Low flow channel



Outlet

Notes:

- Outlet orifice is clogged with grass clippings and sediment
- Standing water and vegetation in low flow channel
- Exposed earth in basin bottom

Hamilton Township
Stormwater Basin Assessment

283. Buckley Plaza Detention Basin

Address:
621 Rt. 130
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
284. Buckley Plaza Detention Basin

Address:
557 Rt. 130
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
285. Gray Thought Solutions LLC Basin

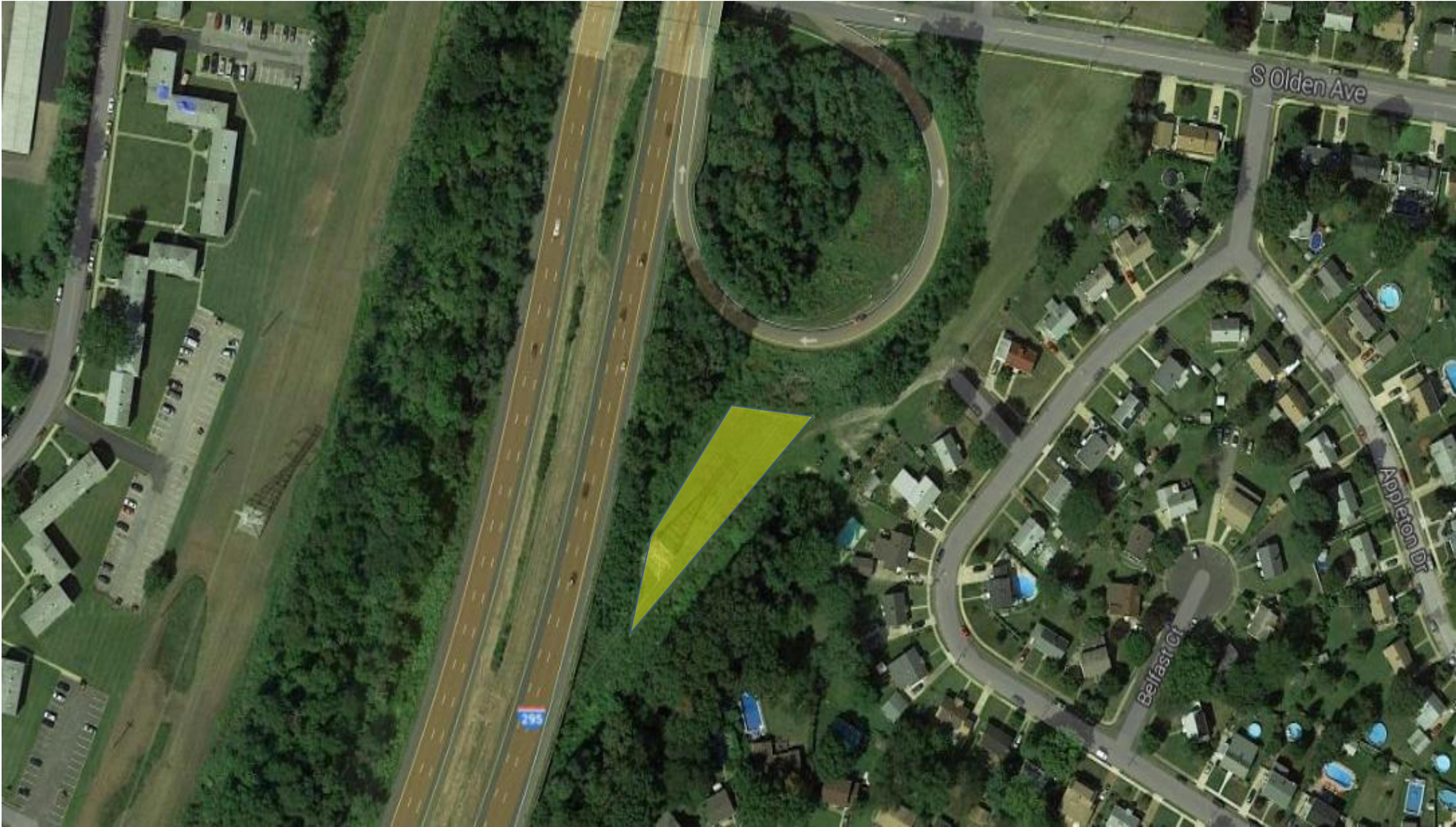
Address:
5 Aaa Dr
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

286. Kenwood Terrace Residential Basin

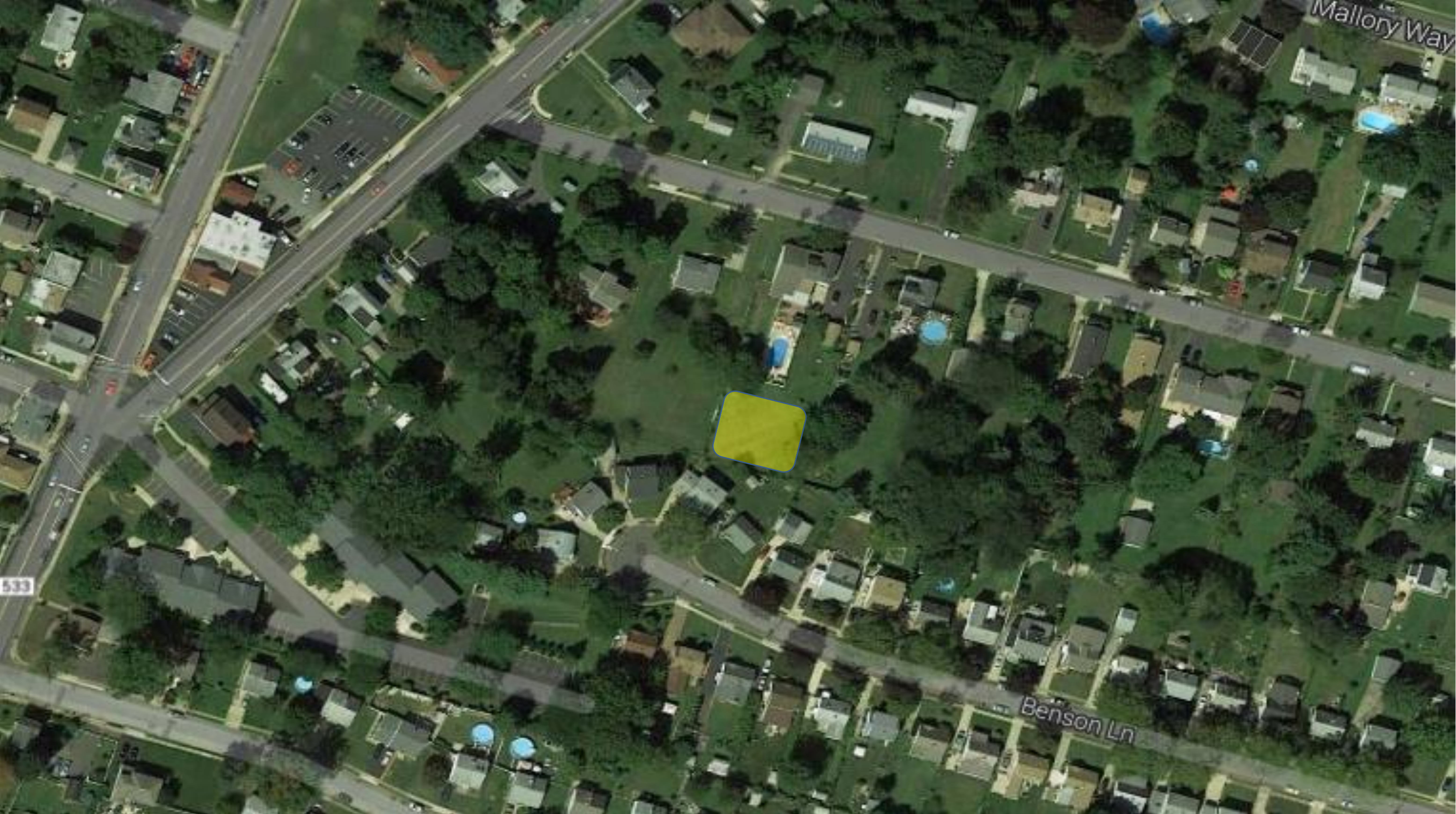
Address:
70 Kenwood Terrace
Trenton, NJ 08610



Hamilton Township
Stormwater Basin Assessment

287. Sharps Lane Residential Basin

Address:
35 Sharps Ln
Hamilton Township, NJ 08610



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

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

289. Shell Gas Station Detention Basin

Address:
66 Lakeside Blvd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
290. Copperfield Drive Detention Basin

Address:
4 Hempstead Rd
Trenton, NJ 08610



Hamilton Township
Stormwater Basin Assessment

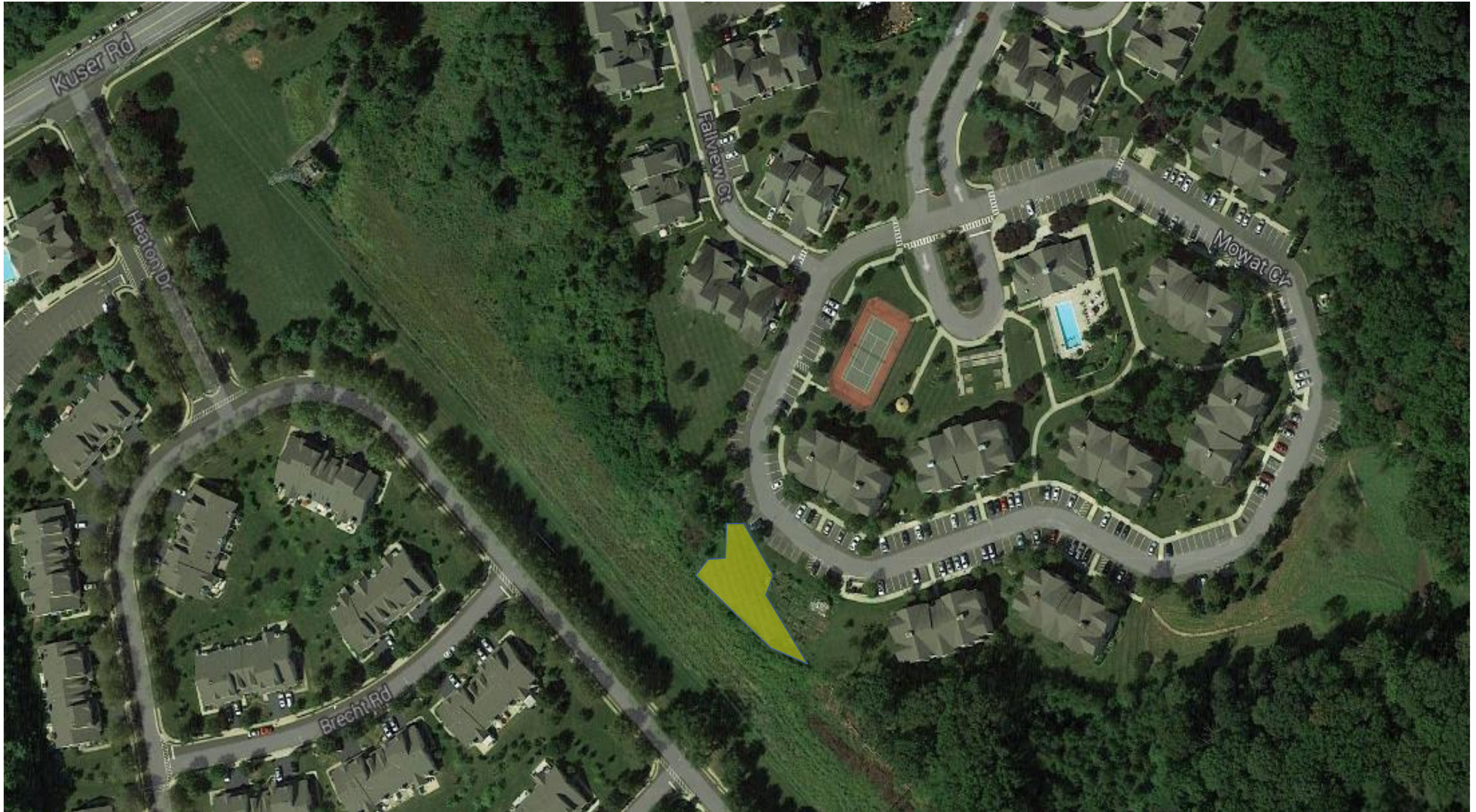
291. City Auto Collision Detention Basin

Address:
3666 Klockner Rd
Trenton, NJ 08691



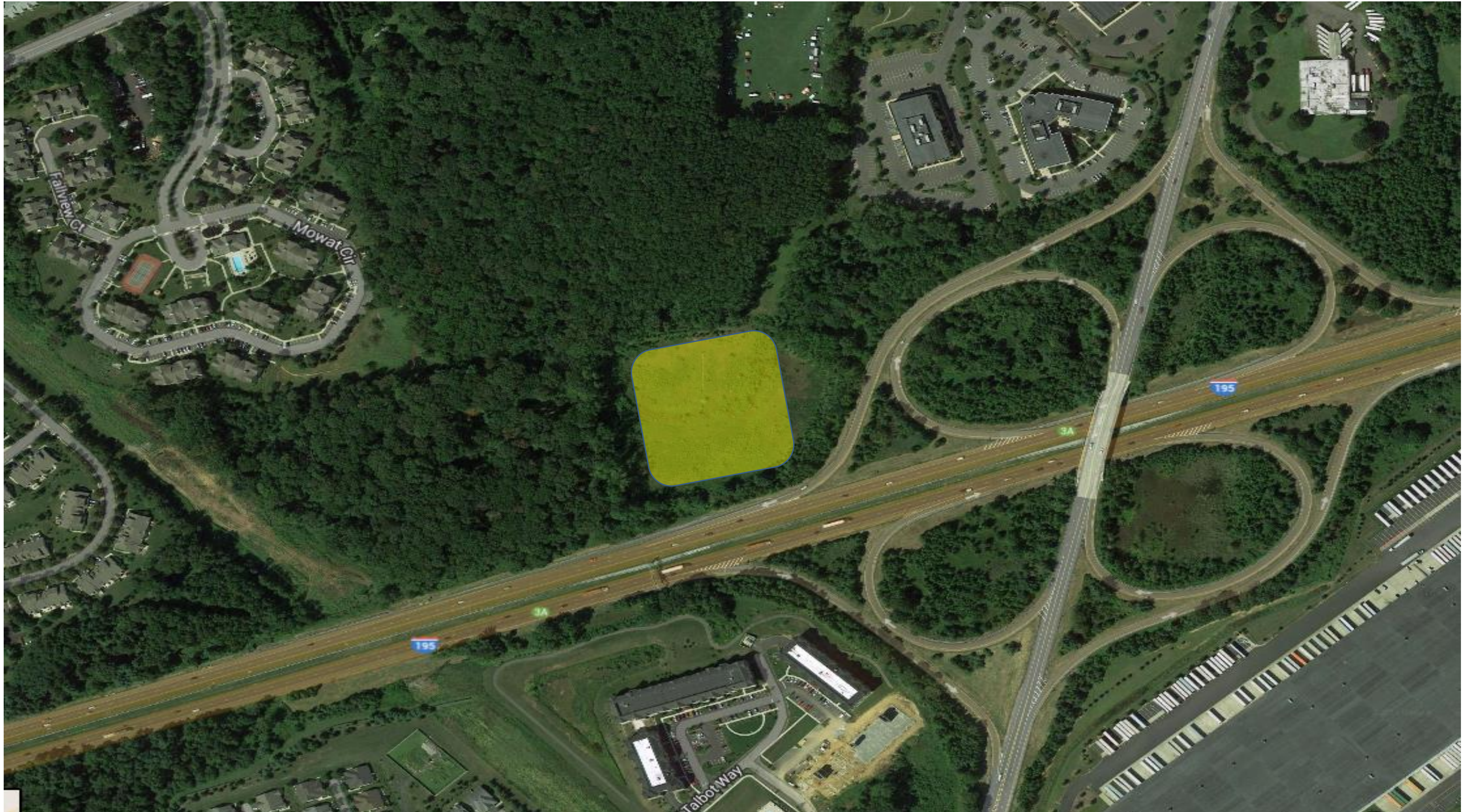
Hamilton Township
Stormwater Basin Assessment
292. Mowat Circle Residential Basin

Address:
714 Mowat Cr
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
293. Commercial Detention Basin

Address:
2465 Kuser Rd
Hamilton Township, NJ 08690



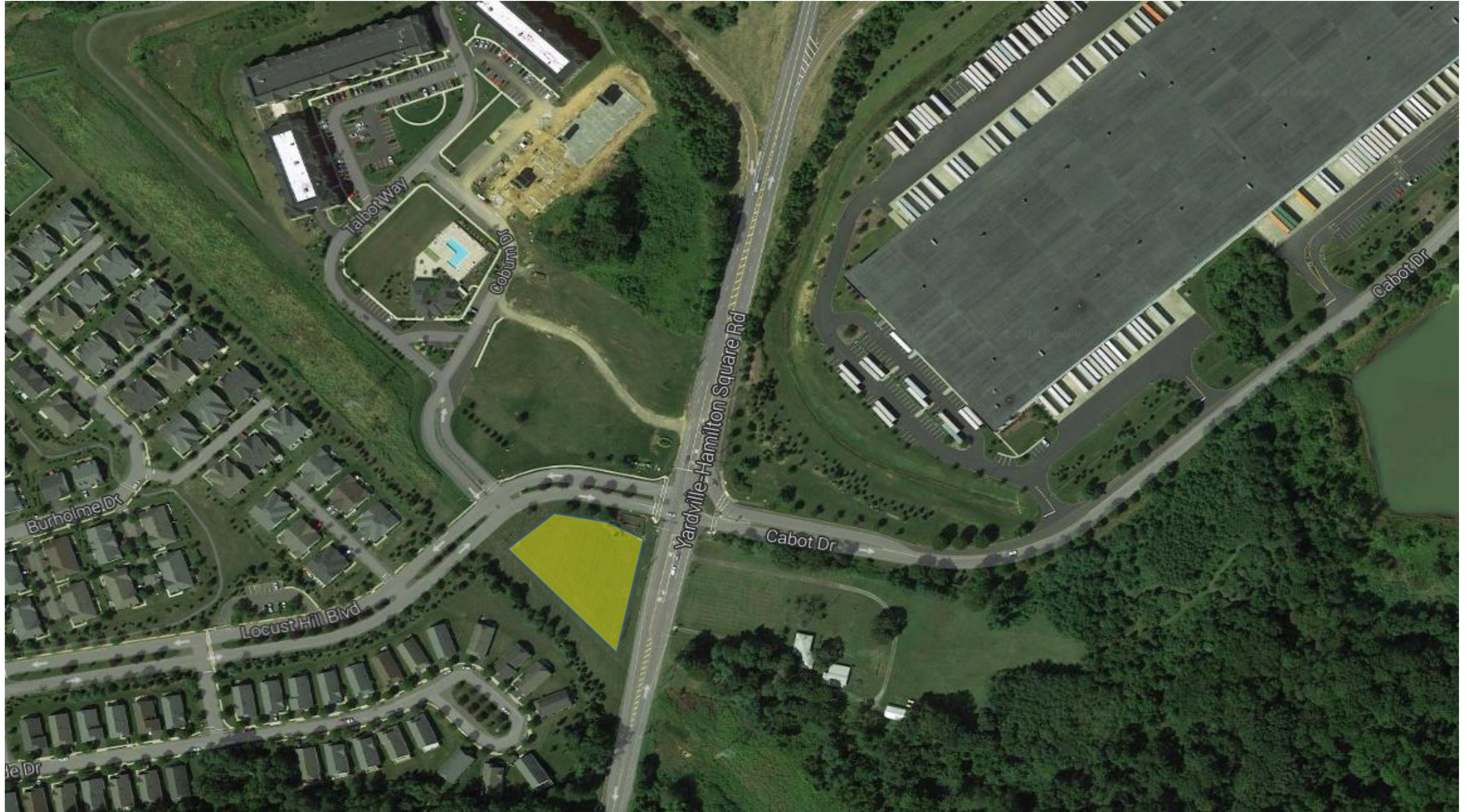
Hamilton Township
Stormwater Basin Assessment
294-299. I-195 Detention Basins

Address:
2465 Kuser Rd
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
300. Yardville Hamilton Square Road Basin

Address:
890 Yardville-Hamilton Sq. Rd
Trenton, NJ 08691



Hamilton Township
Stormwater Basin Assessment
301. Locust Hill Detention Basin

Address:
6304 Talbot Way
Trenton, NJ 08691



Hamilton Township
Stormwater Basin Assessment
302. Project Freedom Detention Basin

Address:
339 Patterson Ave
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
302. Project Freedom Detention Basin



Address:
339 Patterson Ave
Hamilton Township, NJ 08610



Outlet



Overview of basin



Inlet

Notes:

- Excessive sediment in low flow channel and near inlets and outlet
- Outlet structure is missing secondary spillway grate

Hamilton Township
Stormwater Basin Assessment

303. Englewood Boulevard Residential Basin

Address:
123 Englewood Blvd
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

304. Willow Bend Drive Residential Basin

Address:
31 Willow Bend Dr
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

305. Cabot Drive Retention Pond

Address:
400 Cabot Dr
Trenton, NJ 08691



Hamilton Township
Stormwater Basin Assessment
306. Saint James Church

Address:
1040 Yardville Allentown Rd.
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
306. Saint James Church

Address:
1040 Yardville Allentown Rd.
Hamilton Township, NJ 08691



Outlet



Overview of basin



Eastern portion of basin

Notes:

- One common pipe conveys stormwater from eastern basin to western basin
- Standing water noted in basin bottom
- Invasive weeds and excessive sediment accumulation in basin bottom
- Eroding outlet pipe
- Emergency spillway leads to a vegetated swale



Non Existent Basins:

ID#	Location
184.	20 James Cubberly Court
185.	20 James Cubberly Court
205.	2 Black Forest Road
246.	1400 Negrón Drive
254.	2631 Kuser Road
256.	2631 Kuser Road
274.	2 Carney Way
275.	33 Iron Bridge Road
276.	60 Extonville Road
278.	9 Extonville Road
279.	1 Hidden Hollow Drive
280.	8 Hidden Hollow Drive
283.	621 Rt. 130
285.	5 Aaa Drive
286.	70 Kenwood Terrace
289.	66 Lakeside Boulevard
291.	3666 Klockner Road
292.	714 Mowat Circle
293.	2465 Kuser Road
300.	890 Yardville Hamilton Square Road
301.	6304 Talbot Way
304.	31 Willow Bend Drive

Retention Ponds:

ID#	Location
215.	1305 Kuser Road
227.	14 Barbados Court
238.	9 Weathersfield Drive
273.	3 Carney Way
277.	60 Extonville Road
284.	557 Rt. 130
305.	400 Carbot Drive

Maintained by New Jersey Department of Transportation:

ID#	Location
179.	1897 S Olden Avenue
181.	I-295
247.	Yardville Hamilton Square Rd and I-
248.	Yardville Hamilton Square Rd and I-
249.	Yardville Hamilton Square Rd and I-
250.	960 Robinsville Road
251.	960 Robinsville Road
252.	960 Robinsville Road
257.	Route 29 and I-295
258.	Route 29 and I-295
290.	4 Hempstead Road
294.	2465 Kuser Road
295.	2465 Kuser Road
296.	2465 Kuser Road
297.	2465 Kuser Road
298.	2465 Kuser Road
299.	2465 Kuser Road

Not Accessible Basins:

ID#	Location
228.	39 Monte Carlo Drive
229.	39 Monte Carlo Drive
234.	17 Alessio Terrace
236.	79 Village Drive East
244.	Corner of US 130 and Klockner Road
253.	1080 US 130
255.	3666 Klockner Road
259.	110 High Street
260.	John Fitch Way
261.	20 Robert Pearson Court
267.	21 Church Street
268.	2779 Kuser Road
287.	35 Sharps Lane
303.	123 Englewood Boulevard

Stormwater Outfall Area:

ID#	Location
186.	3441 S Broad Street
187.	16 Copperfield Drive
270.	65 Tattletown Road